ADOPTED CIP Capital Improvements Program FYs 2016-2021

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Washington Suburban Sanitary Commission

Adopted Six-Year Capital Improvements Program Fiscal Years 2016 - 2021

June 17, 2015

Hon. Adrienne A. Mandel, Chair Chris Lawson, Vice Chair Omar M. Boulware, Commissioner Mary Hopkins-Navies, Commissioner Dr. Roscoe M. Moore, Jr., Commissioner Vacant, Commissioner

Jerry N. Johnson, General Manager/CEO ATTEST: Sheila R. Finlayson, Esq., Corporate Secretary

The T. Howard Duckett Dam, spanning the Patuxent River between Prince George's and Howard counties, went into service in 1954 creating the Duckett Reservoir (also known as Rocky Gorge), which holds 5.5 billion gallons of source water for WSSC customers. The improvement project currently underway will fortify the dam by adding concrete walls extending out from each side and thick concrete slabs on the downstream side of the dam. When completed in early 2015 the upgrades will ensure the dam can withstand a 1-in-10,000 year storm (32 inches of rain over a 72-hour period).

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WASHINGTON SUBURBAN SANITARY COMMISSION ADOPTED CAPITAL IMPROVEMENTS PROGRAM FISCAL YEARS 2016-2021

LEGAL AUTHORITY AND RESPONSIBILITY

Statutory Basis

Under Section 23-301 of the Public Utilities Article, WSSD Laws, Annotated Code of Maryland, the Washington Suburban Sanitary Commission (WSSC) is responsible for annually preparing a Six-Year Capital Improvements Program (CIP) for major water and sanitary sewerage facilities and transmitting it to the County Council and the County Executive of Montgomery County and the County Executive of Prince George's County by October 1 each year. The Commission, where required by the two County Councils' final action on the program, must revise the same and then, prior to the commencement of the first fiscal year of the six-year program, adopt the Capital Improvements Program.

Section 23-301 defines major projects for inclusion in the CIP as water mains at least 16 inches in diameter, sewer mains at least 15 inches in diameter, water or sewage pumping stations, force mains, storage facilities, and other major facilities. Project information presented in this document complies with all legal requirements of the ten-year water and sewerage plans and is in direct support of the two counties' approved land use plans and policies for orderly growth and development. The Adopted FYs 2016-2021 CIP reflects the actions of the Montgomery Council by Resolution No. 18-156 dated May 21, 2015, and Prince George's County Council by Resolution No. CR-21-2015 dated May 28, 2015. By WSSC Resolution No. 2015-2086 dated June 17, 2015, the Commission adopted the FYs 2016-2021 CIP as amended.

WSSC's Role

The Commission is a bi-county agency established in 1918 by an act of the Maryland General Assembly. The WSSC is responsible for planning, designing, constructing, operating, and maintaining water and sewerage systems, and acquiring facility sites and rights-of-way in order to provide potable water and sanitary sewer services to residents, businesses, and federal, state, and local municipalities within the Washington Suburban Sanitary District (WSSD). The WSSD encompasses nearly all of Montgomery and Prince George's Counties and provides water and sewer service to approximately 1.8 million customers in an area of nearly 1,000 square miles. A board of six commissioners directs the WSSC, three appointed by the County Executive of Prince George's County and confirmed by the Prince George's County Council, and three appointed by the Montgomery County Executive and confirmed by the Montgomery Council. Commissioners serve four-year staggered terms.

WSSC's Mission

We are entrusted by our community to provide safe and reliable water, life's most precious resource, and return clean water to our environment, all in an ethical, sustainable, and financially responsible manner.

WSSC's Responsibilities

The WSSC's primary responsibilities include:

- protecting the health and safety of the residents of both counties by providing an adequate supply of safe drinking water;
- meeting fire-fighting requirements;
- collecting and adequately treating wastewater before it is returned to the waters of the State of Maryland;
- managing and safeguarding the watershed and the water supply by implementing sound forestation and land use practices, and by discouraging development within the watershed buffer;
- monitoring the collection and treatment of wastewater;
- discharging an effluent cleansed of nutrients, pollutants, and hazardous materials;
- managing treated wastewater biosolids responsibly;
- maintaining the existing water and wastewater systems;
- planning for the orderly growth of the Sanitary District and WSSC services to meet the needs of the communities it serves;
- monitoring adherence to all plumbing and gasfitting standards and ensuring proper coordination with other public utilities; and
- managing operations to provide efficient service to its customers while keeping costs as low as possible.

The projects contained in this Capital Improvements Program represent the WSSC's plan to successfully meet its responsibilities. The WSSC strives to maintain a balance between the use of valuable resources and the public's demand for clean water. In carrying out these activities that will help ensure that we fulfill our core mission, we are energized by the opportunity to strengthen our local economies by assuring that we maintain fair, ethical and equitable contracting practices. This will allow us to secure high quality and competitively priced goods and services from our diverse and talented local businesses in Prince George's and Montgomery Counties.

PROGRAM OVERVIEW

Objective

The principal objective of the Capital Improvements Program (CIP) is the six-year programming of planning, design, land acquisition, and construction activities on a yearly basis for major water and sewerage facilities. These facilities may be necessary for system improvements and/or service to existing customers, to comply with federal and/or state environmental mandates, and to support new development in accordance with the counties' approved plans and policies for orderly growth and development.

Spending Affordability and Fiscal Implications

Projects in this CIP are primarily financed with funds from the Water Supply and Sewage Disposal Bond Funds. The Commission largely finances these projects with the proceeds from the sale of long-term debt. Water supply bonds are issued to finance the planning, design, and construction of major water treatment, storage, and transmission facilities. Sewage disposal bonds are issued to finance the planning, design, and construction of major sewage collection, treatment, and disposal facilities.

The water supply and sewage disposal bonds are repaid to bond holders over a 20 or 30-year period by annual principal and interest payments known as debt service. In this manner, the initial high cost of capital improvements is spread over time and paid for by future customers who will benefit from the facilities, as well as by current customers. The annual debt service on outstanding bonds is paid from the Commission's operating funds. The primary funding source for the repayment of debt is the revenue generated by water consumption and sewer use charges. Water and sewer charges are set on an annual basis to cover both operational and debt service costs (associated with the water supply and sewage disposal bonds) of the Commission. It is through this capital project financing process that the size of the CIP impacts the size of water and sewer bond issues, the associated debt service costs, and, ultimately, our customers' water and sewer bills.

Several capital spending and funding practices are noteworthy. The Commission:

- continues an aggressive program to rehabilitate or replace the older portions of the Commission's 5,500 miles of water mains and 5,400 miles of sewer mains;
- funds capital facilities needed to accommodate growth with the System Development Charge (SDC). This charge is reviewed annually by the County Councils. (Refer to Appendices A and B for details. A comparison of SDC revenues and estimated growth spending for the six-year program period is displayed on the table titled "Growth Funding Gap" in the Funding Growth section of this document.);

- uses PAYGO (Pay-As-You-Go): the practice of using current revenues, when budgeted, to the extent practical to help fund the capital program, thereby reducing the need for debt financing;
- maximizes and manages the collection of funding from alternative sources including state and federal grants, and payments from other jurisdictions for projects which specifically benefit them. The amount of these collections varies from year to year. The WSSC's reliance on rate-supported debt to build the capital program is reduced to the extent that these sources are available to help fund capital projects; and
- does not allow the use of rate-supported debt to fund CIP-sized water and sewer projects requested by Applicants in support of new development. These projects, identified as Development Services Process (DSP) projects, may only proceed if built at the Applicant's expense. (An explanation of the DSP process is included in the Development Services Process section of this document.) However, since these projects are eligible for SDC credits (to the extent that SDC funds are available), the Applicants should eventually recoup their costs. (Refer to Appendix B for definitions and details.)

In May 1993, the Montgomery and Prince George's County Councils created the Bi-County Working Group on WSSC Spending Controls (Working Group) to review WSSC finances and recommend spending control limits. The Working Group's January 1994 report recommended "the creation of a spending affordability process that requires the Counties to set annual ceilings on the WSSC's rates and debt (debt in this context means both bonded indebtedness and debt service), and then place corresponding limits on the size of the capital and operating budgets of the Commission." The objective of this process is to create a framework for controlling costs and achieving low or moderate water/sewer bill increases, as well as slowing the rate at which the WSSC is incurring debt, thus reducing the portion of WSSC water/sewer bills dedicated to paying off debt. This valuable process focuses debate on the need to balance affordability considerations against providing the resources necessary to serve existing customers, meet environmental mandates, and provide the facilities needed for growth.

The Commission has submitted a CIP and budget, which generally conforms to the Spending Affordability Guidelines (SAG) established by both county governments since 1994. Over the five-year period from FY'96 through FY'00, CIP spending was reduced by a total of \$85.9 million. Over the period from FY'01 to FY'07, the Commission submitted budgets that did not require any further reductions. In two of the three years from FY'08 to FY'10, CIP spending was reduced or deferred by a total of \$95.8 million. The FY'11 through FY'16 CIPs did not require any reductions.

The FY'16 expenditures are estimated at \$546.6 million, which represents an increase of approximately \$74.6 million from the approved funding level for FY'15. The primary reason for the increase is due to the significant increase in the Trunk Sewer Reconstruction project due to ramping up the work to meet the Consent Decree deadline and higher estimates for working in Environmentally Sensitive Areas including building access roads and setting up temporary by-pass pumping systems.

Funding Sources

The projects included in this Capital Improvements Program are funded primarily by issuance of water and sewer rate-supported debt (WSSC Bonds). To a lesser degree, projects may also be funded by the following:

- State Grants a share of the support provided on a local level in conjunction with the Federal Grants Program. The State of Maryland also provides additional funding under a separate grants program for enhanced nutrient removal at existing wastewater treatment plants as part of the Chesapeake Bay Program and Federal Clean Water Act;
- Federal Grants Department of Energy grants related to WSSC's Energy Performance Program and Anaerobic Digestion/Combined Heat & Power projects to study and develop green energy sources;
- Local Government Contributions payments to the WSSC for co-use of regional facilities, or funding provided by county governments for projects they are sponsoring;
- PAYGO when budgeted, the practice of using current revenues to the extent practical to help fund the capital program, thereby reducing the need for debt financing;
- SDC anticipated revenue from the System Development Charge (SDC); and
- Contribution/Other projects funded by Applicants for growth projects where the County Councils have directed that no WSSC ratesupported debt be used to pay for the project.

A graph is provided on page 25 which displays the funding allocations for the major funding categories.

Funding Growth

The portion of the CIP needed to accommodate growth is approximately \$270 million, which equals 13% of all expenditures in the six-year program. The major funding sources for this part of the program are System Development Charge (SDC) revenues and payments by Applicants. In the event that growth costs are greater than the income generated by growth funding sources, rate-supported water/sewer bonds may be used to close any gap.

The Maryland General Assembly, in 1993, first approved legislation authorizing the Montgomery and Prince George's County Councils to establish, and the WSSC to impose, a System Development Charge. This is a charge on new development to pay for that part of the Commission's Capital Improvements Program needed to accommodate growth in the WSSC's customer base. In accordance with the enabling legislation, the Councils approved, and the Commission began to phase in, this charge beginning in FY'94. The SDC charge was eventually approved at the maximum rate of \$160 per fixture unit by Commission Resolution No. 95-1457, adopted May 24, 1995, and became effective July 1, 1995. In the 1998 legislative session, the General Assembly modified the charge by passage of House Bill 832 setting the fee at \$200 per fixture unit with a provision for annual inflation adjustments. Subsequent resolutions have established a process for approving partial and full exemptions for elderly housing and biotechnology properties, as well as exemptions for properties in designated economic revitalization areas. For FY'16, the Montgomery County and Prince George's Councils increased the maximum allowable charge by the 1.0% increase in the CPI-U, but maintained the current rate of \$203 per fixture unit by Resolution Numbers 18-162 approved May 21, 2015, and, CR-25-2015 approved May 28, 2015, respectively. The Commission adopted the Councils' actions by Resolution Number 2015-2084 dated June 17, 2015. Policies and other information associated with the System Development Charge are included in this document in Appendices A through D.

It is estimated that there will be an overall growth funding gap of \$69.8 million over the six-year program period. The gap between growth funding sources (SDC, developer contributions, and Applicant payments under System Extension Permits) and the estimated growth-related expenditures vary over the six-year period. If growth-related expenditures were to exceed the available SDC account balance, WSSC would issue new SDC supported debt to cover this temporary gap rather than increasing the SDC. The debt will be repaid through future SDC collections, as allowed by State Law. Further, it is anticipated that no significant additional growth projects will evolve in the later years of the six-year period. (A listing of SDC-eligible projects is included in Appendix D.)

An estimate of the gap or surplus for each fiscal year is presented in the table that follows. To estimate the gap/surplus for an individual fiscal year, it is assumed that 80% of the eligible expenditures will actually be incurred in a given year due to scheduling and other delays. The projected gap/surplus is the difference between the eligible expenditures adjusted for completion and the sum of the various funding sources.

(In Millions) 6 YEAR FY'16 <u>FY'19</u> FY'20 FY'21 TOTAL FY'17 <u>FY'18</u> **CIP GROWTH EXPENDITURES** \$97.8 \$80.9 \$50.1 \$24.5 \$11.2 \$270.3 \$5.8 Expenditures Adjusted for Completion 71.5 88.7 57.5 28.5 11.1 5.8 263.1 **FUNDING SOURCES** 0.2 **Privately Funded Projects** 14.0 13.7 6.9 1.4 0.2 36.4 Estimated SDC Revenue 29.3 29.8 30.0 30.0 30.0 30.0 179.1 Less SDC Developer Credits (1.7)(1.7)(1.7)(1.7)(1.7)(1.7)(10.2)Less SDC Exemptions¹ (1.0)(1.0)(1.0)(1.0)(1.0)(1.0)(6.0)TOTAL FUNDING SOURCES \$40.6 \$40.8 \$34.2 \$28.7 \$27.5 \$27.5 \$199.3 FUNDING GAP **ADJUSTED FOR COMPLETION** \$37.6 \$43.5 \$22.1 \$0.9 (\$13.6) (\$20.7) \$69.8

GROWTH FUNDING GAP

¹Each County may grant SDC exemptions, as identified in Appendix A, totaling up to \$500,000 per fiscal year as provided for in Maryland State Law (Public Utilities Article, Section 25-403(b)). Unused exemption amounts are available for use in future fiscal years. Cumulative unused SDC exemptions totaled approximately \$5.3 million for Montgomery County and \$2.9 million for Prince George's County through June 30, 2015.

Expenditures

The FYs 2016-2021 Capital Improvements Program includes 84 projects for a grand total of \$4.2 billion dollars. Expenditures for the sixyear program period are estimated at \$2.1 billion. FY'16 expenditures are estimated at \$546.6 million, which is \$74.6 million greater than the funding level approved for FY'15. Of the \$546.6 million, \$139.9 million is for the Water Program and \$406.7 million is for the Sewerage Program. More than a third of the projects in this CIP are Development Services Process (DSP) growth projects. The DSP projects' estimated six-year program cost is \$36.5 million, with approximately \$17.5 million programmed in FY'16. There is one new project totaling \$124,000 in the six-year program period. New projects are shown on the New Projects Listing near the end of this section.

A table comparing the Adopted FYs 2015-2020 CIP to the Adopted FYs 2016-2021 CIP follows:

WSSC CIP - COMPARISON			
	(In The	ousands)	
	TOTAL	TOTAL	BUDGET YEARS
	PROGRAM	SIX YEARS	COMPARISON
Adopted FYs 2015-2020	\$3,708,020	\$1,620,811	\$472,036
Adopted FYs 2016-2021	4,226,425	2,082,051	546,594
Change	\$518,405	\$461,240	\$74,558

WSSC CIP - COMPARISON

Six-year program expenditures are estimated at approximately \$2.1 billion, \$767.4 million for the Water Program and \$1.3 billion for the Sewerage Program. This is a \$461.2 million increase from the six-year total in the Adopted FYs 2015-2020 CIP. The primary reason for the increase is due to the significant increase in the Trunk Sewer Reconstruction project due to ramping up the work to meet the Consent Decree deadline and higher estimates for working in Environmentally Sensitive Areas including building access roads and setting up temporary by-pass pumping systems.

Expenditure Categories

Expenditures are divided into three main categories: projects needed for growth, projects needed to implement environmental regulations, and projects needed for system improvements. The categories are defined as follows:

<u>Growth</u> – any project, or part of a project, that increases the demand for treatment and delivery of potable water and/or increases system requirements to collect and treat more sewage in response to new, first time, service hookups to the WSSC's existing customer base.

<u>Environmental Regulations</u> – any project which is required to meet changes in federal regulations, such as the Clean Water Act, or in response to more stringent state operating permit requirements, but does not increase system capacity. Any part of this type of a project that provides for additional capacity is for growth.

<u>System Improvements</u> – any project which improves or replaces components of existing water and sewerage systems or provides for mainline relocations required in response to county or state transportation department road projects where the intended purpose is not to increase the capacity of any system components. This category also includes program-sized water main extensions for which the primary function is to provide water supply redundancy to pressure zones or smaller areas in the Sanitary District. Any part of this type of a project not dictated by maintenance or rehabilitation needs and that provides for additional capacity is for growth. (Refer to Figure 3, which displays funding allocations for all three categories.)

<u>CIP Development Schedule</u>

The CIP production cycle spans 13 months, beginning in May of each year. The organizational units responsible for project initiation submit project description forms (commonly referred to as PDFs) to the WSSC's Finance Office (Budget Group). The proposals, expenditures, and schedules displayed on each PDF represent the WSSC's best estimate of the cost and the time it will take to plan, design, and construct a project. These submittals are comprehensively reviewed with the General Manager/CEO and Senior Staff each June to assess the addition of new projects, changes in cost or scope, criticality, priority, environmental sensitivity, adherence to county growth and public outreach policies, and construction schedule changes.

Following this comprehensive review, worksessions are conducted by the WSSC Budget Group with the Prince George's and Montgomery County Governments, Maryland-National Capital Park and Planning Commission (M-NCP&PC), and local municipality representatives to solicit their input, and a draft document is presented to the WSSC's Commissioners for their consideration. Draft CIP Public Hearing documents are published and distributed each August and the Commissioners' public hearings are held in September. The hearings are advertised in a major newspaper circulated in Prince George's and Montgomery Counties, and special notices are sent to the Prince George's and Montgomery Counties' State Senators and Delegates, County Executives, County Council members and County Government staff. In addition, a notice is included with each water bill mailed to WSSC customers throughout the months of June, July, and August inviting them to participate in the public hearings. After considering all relevant comments, the Commissioners approve the Proposed CIP document for transmittal to both county governments before October 1, in accordance with state law.

After January of the following year, the Prince George's and Montgomery County Executives transmit their recommendations to their respective County Councils. Each County Council conducts separate public hearings and worksessions to consider additional modifications to the Proposed CIP. On or before May 15th, the County Councils meet jointly to agree on required changes, and on or before June 1st each year, enact formal resolutions identifying project modifications and approving the addition of new projects. The WSSC then adopts these changes and additions before the beginning of the new fiscal year on July 1. If the Councils do not jointly agree on changes by June 1, under law, the CIP is approved as proposed by the WSSC.

Program Description

Individual project information is displayed on the project description forms. The content of these forms, as prescribed under Section 23-301 of the Public Utilities Article, WSSD Laws, Annotated Code of Maryland, includes as applicable: estimated diameter, length, and location of pipelines; design capacity; maximum population and area to be served; project justification; project expenditure schedule showing the estimated cost and funding sources; and a map. Project description forms are organized within the following major sections: Montgomery County Water, Montgomery County Sewer, Bi-County Water, Bi-County Sewer, Prince George's County Water, Prince George's County Sewer, and Information Only Projects. A financial summary of expenditures by major section is included at the end of this narrative. Project number prefixes indicate a water (W-), sewerage (S-), or administrative (A-) project. Administrative projects are included in the Information Only section and refer to projects that may include a combination of water and sewerage sub-projects.

Each major section includes a financial summary for the projects in that section, a list of new projects, a PDF for each project, and a list of projects that are being closed out in the section. Several of the sections also contain "composite" PDFs that include multiple, active projects on one form. In the Prince George's County Water and Sewer Projects sections, conceptual design projects are combined with Development Services Process projects onto composite project forms (W-197.00 and S-187.00, respectively). The conceptual design projects are in the final stages of planning or early design, for which reliable design and construction costs and completion schedules were not available when the CIP was prepared. The WSSC's intent is to begin preliminary design for projects requiring final planning phase approval, consultant design contract negotiations, subsurface investigations, and land and rights-of-way acquisition. Further, these projects may require in-house review and county government interaction as detailed design data is developed. Generally, as projects progress beyond the 30% design stage for facility projects and the 60% design stage for pipeline projects, a separate, stand-alone PDF may be prepared for display in the next CIP cycle. These projects will include updated costs and completion schedules.

Anticipated land and rights-of-way acquisition costs are consolidated onto composite PDFs (W-202.00 and S-203.00). This format provides flexibility in expending funds in a specific fiscal year and permits the WSSC to respond to the uncertainty of implementation schedules, unpredictable delays, unanticipated rights-of-way requirements, and the need to assure the WSSC an equitable negotiation position by avoiding project-specific cost displays prior to contacting property owners. When a land purchase has been concluded, this cost is transferred back to the individual project.

A Projects Pending Close-Out list is included at the end of each major section. Each list contains projects which were approved and included in the prior adopted CIP, but which do not appear in this program for reasons such as expected construction completion or project cancellation.

The CIP document also contains an Information Only Projects section. Projects in this section are not required to be in the program under Section 23-301 of the Public Utilities Article, WSSD Laws, Annotated Code of Maryland, but may be included for any number of reasons such as: fiscal planning purposes; the reader's improved understanding of the full scope of a specific set of projects; or responding to requests from county governments. Expenditures for Information Only projects are not included as part of the CIP six-year program costs, but are shown separately on the bottom line of the financial summary at the end of this section for informational purposes.

Funding requirements for the first year of the six-year program, as shown on each project description form (PDF) in Block B, Column 12, are included in the Commission's capital and operating budgets. In addition to adopting a six-year CIP, the Montgomery and Prince George's County Governments also annually review and approve the WSSC's capital and operating budget.

The following symbols are used on the individual project maps to represent different types of water and sewerage system components:

Water Main/Gravity Sewer
Water/Wastewater Pumping Station
Sewage Force Main
Water/Sewage Storage Facility
Water Filtration Plant Project
Wastewater Treatment Plant Project

CIP PLANNING PROCESS

Water Treatment/Distribution Systems

The provision of potable water involves three major areas: supply, treatment, and distribution. The Potomac and Patuxent Rivers are the two sources of water supply for the Washington Suburban Sanitary District (WSSD), with the majority of water coming from the Potomac. Raw water is taken directly from the natural flow of the Potomac River into the Potomac Water Filtration Plant in Montgomery County. Water from the Patuxent River is impounded in two reservoirs by the Brighton and T. Howard Duckett Dams, which are the sources of supply to the Patuxent Water Filtration Plant in northern Prince George's County. The Triadelphia and T. Howard Duckett reservoirs have a combined storage capacity of approximately 10.2 billion gallons of water. The two filtration plants have produced an average of 165.2 million gallons of potable water per day over the last five fiscal years.

The natural flow in the Potomac River can be augmented during low flow conditions by two other reservoirs. The Jennings Randolph Reservoir impounds 13.0 billion gallons of emergency raw water supply. The reservoir is located on the North Fork of the Potomac River in West Virginia, and is owned and operated by the U.S. Army Corps of Engineers. Little Seneca Lake in Montgomery County provides an additional 3.8 billion gallons of useable raw water storage, and is owned and operated by the WSSC. Both reservoirs are shared by users in the Washington Metropolitan area, including the U.S. Army Corps of Engineers, the Fairfax County Water Authority, and the WSSC. Withdrawal during low flow conditions is restricted by the terms of the Potomac Low Flow Allocation Agreement of 1981, and is administered by the Interstate Commission on the Potomac River Basin.

As raw water enters a plant, it goes through several stages of filtration and purification. Much of the finished water produced at the WSSC's plants has to be pumped into the distribution system. Pumping stations are strategically located throughout the Sanitary District to help move water to higher topographic elevations to maintain adequate system pressure. The WSSD is divided into 17 major pressure zones that represent hydraulically separated segments of the water system. The pipelines within each of the zones must be designed to serve not only customers within the confines of that zone, but also customers in adjacent interconnected zones. Water to zones at higher elevations must be pumped; water to lower elevations must be closely controlled with pressure regulating valves. A system under pressure enables the pipes to be laid uphill or downhill, with the flow direction independent of the slope of the ground. The design and operation of a water system is a complex task which requires detailed knowledge of the interrelationships between the source of supply, the location of pumping stations, pump characteristics, pressure reducing valves, storage facilities, pipe diameters and capacity characteristics, consumption patterns throughout the day, operating techniques and costs, and location of our customers spread out over our 1,000 square mile service area.

More than 40 elevated tanks, standpipes, and ground-level storage structures in the distribution system are filled with finished, filtered water to meet daily peak customer demand and to provide reserves for fire protection and emergencies. A network of more than 5,500 miles of underground water pipeline delivers water to homes, apartments, schools, hospitals, businesses, and all other types of buildings where water meters measure the amount of water used. Customers are billed based upon individual usage. These facilities are operated and maintained by the WSSC 24 hours a day, 7 days a week, including holidays throughout the year, in order to provide safe and reliable service to our customers.

Wastewater Treatment/Collection Systems

Wastewater facilities are divided into two functions: treatment and conveyance of sewage. Sewage treatment is accomplished through a network of facilities, the base of which is the regional treatment plant. The WSSC owns and operates 6 wastewater treatment plants, which receive and process waste from residences, businesses (where waste is a by-product of the manufacturing process), restaurants, hospitals, and other commercial and industrial users.

During the treatment process, solid material is removed, harmful organisms are destroyed, and excess disinfection products are neutralized before the remaining liquid is sent back to the river. The WSSC's 6 treatment plants have a combined treatment capacity of 89 million gallons per day (mgd). These plants include Piscataway, Western Branch, Parkway, Seneca, Damascus, and Hyattstown. Unlike the water system, operation of the sewerage system is highly dependent upon other area jurisdictions and, for this reason, the WSSC has purchased 169 mgd of treatment capacity at the Blue Plains Regional Wastewater Treatment Plant located in the District of Columbia, 3 mgd of capacity at the Mattawoman Wastewater Treatment plant located in northern Charles County, and 20,000 gallons per day of capacity in the Town of Poolesville's wastewater treatment plant. The capital costs of the Blue Plains and Mattawoman plants are shared among the users based upon treatment capacity allocations. The WSSC also pays to the District of Columbia and Charles County a share of the operating, maintenance, and overhead costs at each plant, in proportion to actual flows. These cost-sharing arrangements were agreed to in the Intermunicipal Agreement of 2012 and the Mattawoman Agreement of 1980, respectively. Sewer capacity purchased by the WSSC in the Poolesville plant is in accordance with the May 1984 agreement between the WSSC, the Town of Poolesville, and the Montgomery County Government to alleviate health hazards from failing septic systems in the Jonesville and Jerusalem communities. The 6 WSSC-owned-and-operated plants were built to augment treatment in the Blue Plains service area and to serve areas that are out of reach of the Blue Plains system.

The other function of the sewerage system is to convey waste flows from the point of origin (for example, from a customer's home) to a point of treatment. The sewerage network contains more than 5,400 miles of pipeline, with pipe sizes ranging from 6 to 102 inches in diameter, and is predominantly a gravity system. This means the flow travels in a downhill direction without any other help and, therefore, sewers need to be located generally along streambeds at the lowest elevation in a basin. The sewers in one drainage basin are independent of those in other basins. There are 13 major drainage basins in the Sanitary District.

The largest diameter pipelines (interceptor sewers) run from the treatment plant to the major lines (trunk lines) within individual drainage basins. Smaller diameter pipelines (outfall) run up sub-basins from the major lines. Even smaller lines (lateral), usually built in or along subdivision streets to provide service to abutting properties, lead to hundreds of thousands of individual service connections (hookups from the pipe in the street to a private home or building) to be served by the remainder of the conveyance system. Ideally, the entire system would provide for the gravitational flow of waste from the individual houses, businesses, and other sources through the subdivision lines to the outfall pipelines to the larger diameter main lines to the treatment plant. Because gravity cannot always be used to accomplish this ideal pattern of flow, the WSSC has more than 40 wastewater pumping stations in operation, and others in standby status, throughout the Sanitary District. These pumping stations range from 0.08 to 306 mgd in capacity. Pumping stations lift wastewater through a pressure line called a force main, over ridges or from stream valleys that have no continuous trunk sewer, into the gravity-flow system of an adjacent drainage basin that contains existing pipeline and treatment facilities. All WSSC wastewater flows through enclosed trunk line systems and is completely separate an independent from the storm drain system. Pipeline projects to extend service to new customers and to augment the service capability of this network are among the most numerous types in this document. These facilities are also operated and maintained by the WSSC 24 hours a day, 7 days a week, including holidays throughout the year, in order to provide safe and reliable service to all of our customers.

In addition, small pressure systems exist throughout the Sanitary District. A typical system is comprised of a grinder pump (one for each dwelling unit grouped in a small residential development) contained in a 60-gallon sump, pumping 11 gallons per minute through a 1¹/₄-inch diameter plastic force main, and then connecting to a gravity sewer line located nearby. This type of system is limited in size, and is necessary to overcome minor changes in topography to avoid the construction of a conventional gravity line in another direction where the distance to an existing sewer would be considerably greater and less cost effective.

Approximately 66% of all wastewater originating in Montgomery County and central Prince George's County follows the Anacostia, Rock Creek, and Potomac River Valleys, to the Blue Plains Wastewater Treatment Plant. The WSSC's proportionate share of capital costs to meet suburban Maryland's treatment requirements represents some of the most significant expenditure appropriations in this document.

The WSSC's wastewater collection and treatment systems are nationally recognized as components of one of the country's most effective pollution control networks. All of the above-mentioned sewage treatment plants go beyond conventional, second-stage treatment to provide "tertiary treatment," which is an advanced treatment process. With the completion of the Piscataway WWTP's biological nutrient removal (BNR) project in 2004, all of the WSSC's plants now have integrated nutrient removal processes to significantly reduce the amount of nitrogen and phosphorous reaching the Chesapeake Bay. These features ensure that the quality of the effluent (treated wastewater discharged from the plants) is better than the natural waters into which it is returned. The purpose of the projects contained in this document and their associated cost is to expand, replace, or rehabilitate the existing water and sewerage systems described above; to continue a very high level of continuous service and reliability; and to protect the health of current and new customers, while mitigating impacts on the environment.

Environmental Concerns

By adoption of a resolution dated January 29, 1992, the Commission reaffirmed its commitment to protect the natural environment of Prince George's and Montgomery Counties as it carries out its mandate to provide sanitary sewer and drinking water services. This commitment focuses on those unique natural and manmade features (waterways, woodlands, and wetlands, as well as parklands, historical sites, and residential areas) that have been indicated by federal, state, and local environmental protection laws and regulations. Specific impact information must accompany the evaluation of all alternatives during the Commission's Facility Planning Process, if the environment features will be affected by the proposed construction of a project. Six areas are addressed as appropriate:

- Stream Valleys identify the classification of the stream and, in general terms, the published water quality. From published maps, show the topography including the 100-year floodplain;
- Wetlands (Tidal and Non-tidal) using published maps, show the locations of these and give their classification;
- Woodlands or Forested Areas using aerial photographs or published maps, show the location of these and identify their type;
- Parklands using published maps, show the location of all land holdings of the Maryland-National Capital Park & Planning Commission, the Department of Natural Resources, and the National Park Service;
- Steep Slopes using published maps, show all slopes greater than 15%; and,
- Historical/Archaeological Sites the Maryland Geological Survey (State Archaeologist) and Maryland Historical Trust will provide information on sites near the project alternatives. The Maryland-National Capital Park & Planning Commission or county government may provide additional information of local interest.

A further extension of these protections has been funded by the approximately 213 million included in the six-year program which is attributable to meeting environmental regulations. These projects, currently estimated at 10% of the total six-year costs in this CIP, are mandated by the U.S. Environmental Protection Agency and the State of Maryland in response to pollution controls embodied in the Federal Clean Water Act and to more stringent state discharge permit requirements. The environmental component is allocated among the projects listed on the following page, and project details can be found on the individual project description forms included elsewhere in this document. On the first page of each section of the CIP, projects which benefit the environment are designated with the following symbol:



Environmental Spending

		(Dollars in Millions)
• W-172.05, Patuxe	nt WFP Phase II Expansion	9.5
• S-22.10, Blue Plai	ns WWTP: Enhanced Nutrient Removal	137.6
• S-22.11, Blue Plai	ns: Pipelines & Appurtenances	48.4
• S-57.93, Western	Branch WWTP Enhanced Nutrient Removal	0.1
• S-57.94, Western	Branch WWTP Incinerator Emissions Control	17.3

Total Six-Year Program Expenditures Allocated to Environmental Regulations \$212.9

The Customer Advisory Board (CAB) was created in the spring of 1989 to provide the WSSC Commissioners and staff with customer input on current practices and proposed policies and to augment communication with our customers. The CAB assists in meeting environmental protection challenges. This committee provides for volunteer members from the general public. Among other responsibilities, the CAB reviews major projects and makes recommendations pertaining to environmental policy to the WSSC's General Manager/CEO and staff.

Public Outreach

The Commission's proactive community outreach program is an integral part of our process to include early public involvement in projects. The objective is to inform affected communities about the WSSC's plans, actively seek their input, and respond to their concerns. The WSSC's planning approach is an open process, receptive to public comment and involvement. Residents of Prince George's and Montgomery Counties are given the opportunity to review clear, accessible documents that describe the rationale behind program planning and project decisions. The overall outreach goals are to:

- identify community and public policy issues early in the planning stage;
- address the known community concerns and environmental issues that are within the reasonable context of the planning effort;
- promote community understanding of system needs and demands, and the planning process used by the WSSC to maintain public health standards and water quality protection;
- provide constructive forums for community involvement and information throughout the planning process;
- provide a clear understanding of the decision-making process;
- address potential health and environmental risks; and
- establish and maintain open lines of communication.

The process advocates achieving planning goals through a collaborative effort among WSSC staff, technical experts, citizens and/or organizations, and public officials. Fostering community involvement allows the WSSC to be responsive and sensitive to community concerns, to define the best approach to addresses customers' concerns, and to garner community support while meeting public health objectives.

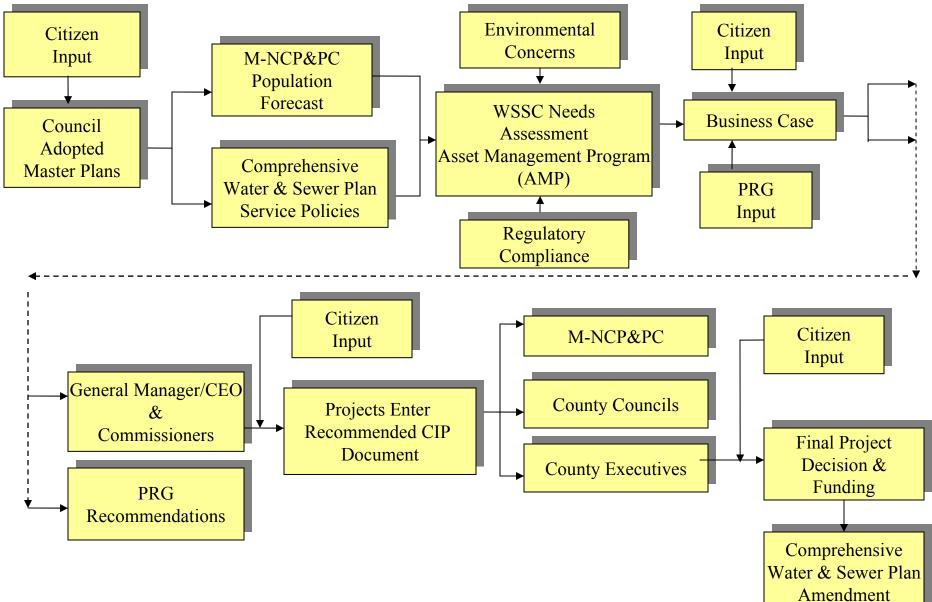
The Planning Process

Effective planning is the application of a well-thought-out process that combines engineering data, environmental requirements, economic factors, and public interaction to establish a sound basis for making competent decisions, for efficiently conducting and documenting specific work tasks, and for successfully implementing needed solutions. The WSSC's planning process includes business case studies to identify needs, develop and evaluate options, and identify a preferred solution. An important goal in the process is to produce a result that is acceptable to citizens, elected officials, regulatory agencies, and the WSSC at a reasonable cost.

A number of outside influences affect the WSSC's project planning. Water and sewer projects are essentially an infrastructure response to land use decisions made by the two county governments and demographic information (population forecasts) provided by the Washington Council of Governments and the Maryland-National Capital Park & Planning Commission. These elements are used by the WSSC to calculate projected water and sewerage demands. The WSSC must also consider environmental consequences and compliance with federal and state regulations such as the Clean Water Act. The WSSC's needs analysis is also influenced by both county governments' guidance on service policies as contained in the Comprehensive Ten-Year Water and Sewerage Plans. Generally stated, the goals, purposes, and concepts provided by the Prince George's and Montgomery County Governments require that the water and sewerage systems be consistent with officially-approved local and general plans, and provide adequate capacity to accommodate the foreseeable development of the area served based upon population and employment projections. This requirement corresponds with what has always been Commission policy: to provide utility service to the type and location of development that each county governing body has approved, if economically and otherwise feasible. Figure 1, on the following page, displays the overall project planning and approval process.

FIGURE 1

PROJECT DEVELOPMENT & APPROVAL PROCESS



WSSC Asset Management Program

One of the WSSC's top priorities, in the core strategy of Infrastructure Asset Management, is to improve capital investment management. The objective of the Asset Management Program (AMP) is to identify infrastructure needs and investment strategies for the next 30 years, and develop and implement an asset management framework for optimal investment decision making. A key task is to identify the existing and future capacity, regulatory, and rehabilitation/ repair/replacement requirements for the next 30 years. The AMP provides input to the Commission's multi-year financial forecasting and develops and refines a 30-year capital investment projection based on the following requirements: regulatory, capacity, maintenance, rehabilitation/replacement, process control, energy conservation, and reliability.

How Projects Enter the CIP

The Asset Management Program (AMP) systematically identifies and validates water and wastewater needs, and is the primary source of new projects. Figure 2 depicts some of the important elements common to WSSC Asset Management Program.

Overview of WSSC AMP Process									
Genesis and Validation	Business Case Development	Review and Approval							
Asset Management Plans • Establishment of Need • Need Validation • Funding	Technical Analysis and Documentation • Coordination • Community Outreach • Project Validation • Solution Recommendation	 CIP Prioritization Public Comment County Governments WSSC CIP 							
Implementation									

FIGURE 2

The WSSC's needs assessments may identify other potential projects. A project may be added in response to relocation requirements due to road improvements or the need to construct a short segment of pipe in advance of paving. Projects may also be included at the request of either county government, usually to provide service to a planned county service facility, such as a new youth soccer complex, or in response to a request for service from an Applicant for new development. Projects may also enter the CIP when they are split from previously approved projects. Projects may be split either at the request of the Applicant or by WSSC for administrative reasons such as to afford better project management or to provide greater clarity to the reader.

Development Services Process

Development Services Process (DSP) projects are undertaken to support future growth. Service to properties approved under the DSP almost always require the extension of small diameter subdivision lines and may involve program-sized pipes that must be included in the WSSC's CIP. This document includes only the portion of an Applicant's total pipe extension or pumping facility requirements and associated costs that conform to the definition provided in the section titled "Statutory Basis" at the beginning of this narrative.

To initiate a project, the WSSC will review the Applicant's subdivision preliminary plan submissions to the respective M-NCP&PC for water and/or sewer service, including a determination if the property to be served is located within the appropriate "service category." (Service category designations are a staging tool employed by and strictly administered in the Comprehensive Ten-Year Water and Sewerage Plans by both county governments. If the property is not in the correct service category, the Applicant must then contact the appropriate county office to begin a County Ten-Year Plan amendment process for reconsideration of the service area designation currently assigned to the property. If a designation change is approved later by the County Council, the Applicant may proceed with the construction of the project.) Once it has been determined that the property to be served is located within the appropriate service category, and a request for hydraulic planning analysis is made and completed, the WSSC issues a Letter of Findings which delineates the project conditions that must be met prior to the start of construction. When the project contains complex water and sewer issues such as the need for a CIP sized project, the WSSC will require that the Applicant submit a feasibility study. If necessary, a revised Letter of Findings is issued. Finally, the WSSC will perform a review for system integrity of the design plans. Construction can begin when design plans have been approved, all necessary construction permits and rights-of-way have been obtained, and the Applicant has satisfied all project conditions. Almost half of the projects in this document are DSP-related.

For those projects serving one new residence or providing relief from a residential health hazard, the WSSC will prepare the feasibility study and issue a Letter of Findings. The Letter of Findings will again delineate any project conditions and advise the Applicant of their cost responsibilities. If the Applicant elects to proceed with the project, the WSSC will prepare the design plans and obtain any necessary construction permits and rights-of-way. Once the Applicant has met all the project conditions, the design plans are approved, and all permits and rights-of-way are acquired, the WSSC will proceed with the construction of the project. However, such projects rarely include CIP-sized mains.

Project Development Criteria

It has been the WSSC's policy to have facilities in service when, or before, they are needed so that new development demands on the system do not result in a reduction of the level of service provided to existing customers. This policy provides for unrestricted water supply and no sewage overflows and avoids a water or sewer connection moratorium. This general service policy has guided the planning and sizing of the WSSC's systems for many years and requires that both the water and wastewater systems are sized to handle the peak or maximum demands, adjusted for weather-related usage. The task is to balance cost and spending affordability limits with environmental consequences, risk and system reliability.

Water and wastewater systems are composed of functionally different sub-systems: treatment, transmission, distribution, collection, and storage. Ideally, the capacity of each component should match the capacity of the other parts of the system. An example of a real situation from the past is the comparison of the Blue Plains Wastewater Treatment Plant to the Muddy Branch and Seneca Creek wastewater transmission systems. The plant had enough capacity but, in contrast, probable peak flows in the sewers exceeded pipeline capacity. These were part of the same network, yet one of the sub-systems had excess capacity, while other parts, although connected, were deficient. Transmission projects to correct this imbalance were completed in these basins, ensuring capacity to handle future flows in the conveyance systems.

For most facilities, the WSSC plans enough capacity to last 20 years or more. When it seems clear that adding capacity incrementally will not be economical, feasible, or is significantly disruptive, longer range planning is done. A pipeline is sized for full development, or "build out" of its service area, to avoid repeated environmental and community disruption caused by construction. In most cases, this results in a service life that extends beyond 20 years. Since the weather-related usage and future population projections are broad-based estimates of future conditions used in the calculation of future flow demands, the rate at which predicted flows increase or decrease in a pipeline system is somewhat variable, but still useful in providing a long-range target for timing the WSSC's project construction. The WSSC conservatively estimates the lead time required to plan, design, and construct a facility, and projects enter the CIP on that basis. It is not unusual for 10 or more years to elapse before a major facility project, such as a treatment plant, is finished following its initial appearance in this document.

Twenty-year estimates of increases in customer demand are based on the most recent M-NCP&PC demographic forecasts of population, dwelling units, and employment. Estimates of full development demands are based on the most current land use and zoning information available from the M-NCP&PC. This data is organized by Traffic Analysis Zones in Montgomery County and by Policy Analysis Zones in Prince George's County. The information is then disaggregated for the WSSC by sub-basins for use in the planning and sizing of projects.

Project Estimates

Pipeline cost estimates are developed through the use of a detailed checklist of cost elements. The comprehensiveness and uniformity of planning-level cost estimates is significantly improved through the inclusion of more site-specific details, previously not considered until advanced stages of design. Through this process the number of projects with cost increases that typically occur when a project transitions from the preliminary planning phase to the design phase is greatly reduced. Many of the estimates in earlier CIP documents were based upon planning studies and reports that included average costs calculated solely from past construction contracts.

Actual design plans and profiles, if available, are analyzed together with United States Geological Survey soil maps. Additional factors such as site access, excessive traffic, known jurisdictional constraints, presence of rock or running sand, work through existing neighborhoods or open fields, and proximity to other existing utility lines are taken into consideration. The base prices upon which the estimates are predicated have been derived from both historical cost data and the most recent bid information. The specific final unit prices are increased or decreased, dependent upon factors such as those listed above. In addition, all environmental mitigation costs for efforts such as reforestation are already included in the individual project costs. Regardless of the extensive checklist, some additional costs may be required by permitting agencies to reflect unpredictable requirements for things such as more complex traffic management plans or for changes in permit requirements for more stringent erosion protection measures at construction sites. The need for these kinds of features is project specific and is identified on individual project description forms (PDFs) when appropriate.

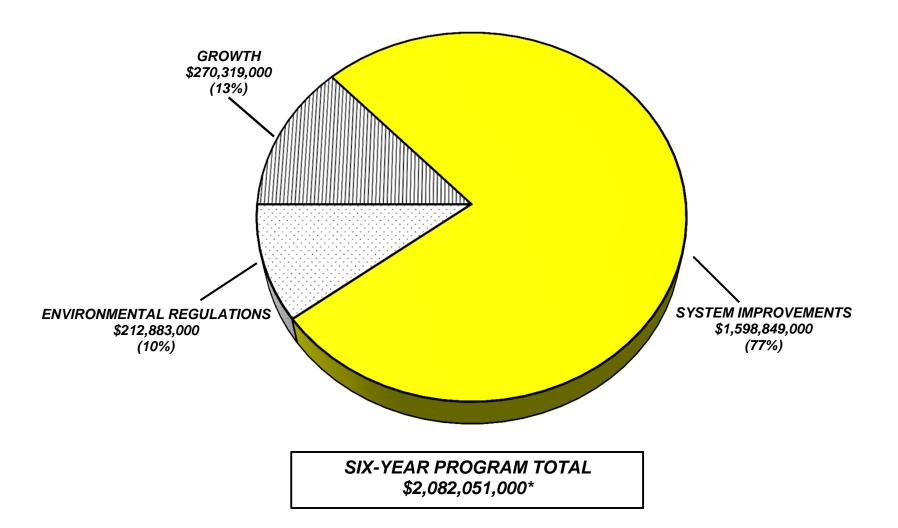
Cost estimates for major facility projects (e.g., treatment plants and pumping stations) in the planning and design phases are normally based on estimates developed by consulting engineers. By nature, these estimates are complex, and from the point of conceptual design details change, project scopes are redefined, processes are modified, equipment and piping are reconfigured or resized, decisions are made on elements such as equipment redundancy, and costs are subjected, selectively, to a Value Engineering review. All of these adjustments are expected to result in cost modifications. The WSSC requires that projects be re-evaluated by consulting engineers at the 30% and 70% stages of design. Estimated construction costs, reflecting these modifications, are identified on the individual PDFs, if applicable, and displayed in the CIP. Because the costs displayed in the CIP are estimates and not actual costs, construction contingencies may be added.

The "Other" cost element, displayed in Block B, Line 5 in the Expenditure Schedule on each PDF, is a broad estimate of the direct and indirect expenses associated with the implementation of each project and is not covered by the other major cost categories. These costs include direct support costs for a project such as salaries, wages, and related personnel costs (social security, retirement), and materials, services, rentals, supplies, mileage, and other expenses. (General overhead costs, which may be allocated to a project, are not included.) This element is estimated for the majority of the projects in this document by multiplying the sum of the project's Planning, Design and Supervision, Land, and Construction cost elements in each column on the PDF by a constant 15%. There are exceptions: a value, based upon 1%, is applied to Blue Plains project costs; a constant of 10% is used to more realistically estimate these expenses for projects with a total estimated cost of \$10 to \$49 million; and, a constant of 5% is used for projects with a total estimated cost of \$50 million or more.

A project's previous expenditures, which include overhead, are shown on the PDF in the Block B Expenditure Schedule under Column (9). These expenditures are accessed from the WSSC's financial information system through the period ending April 30th of each year. End of the fiscal year expenditures were not available in time for the development of project expenditure schedules and are estimated.

WSSC ADOPTED FYS 2016-21 CIP

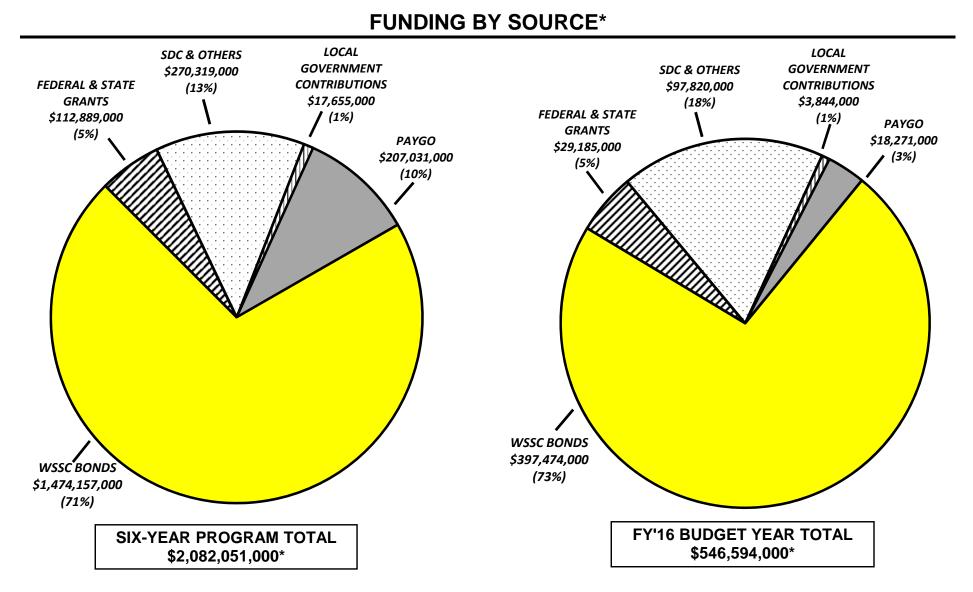
SIX-YEAR PROGRAM EXPENDITURES BY MAJOR CATEGORY*



* Totals do not include \$1,117,677,000 in System Improvements project capital expenditures for Information Only Projects.

FIGURE 4

WSSC ADOPTED FYS 2016-21 CIP



*Totals do not include \$1,117,677,000 and \$167,953,000 in capital expenditures for Information Only projects in the six-year program and budget year, respectively.

WSSC FYS 2016 - 2021 CIP NEW PROJECTS LISTING (costs in thousands)

Agency Number	Project Name		Total Project Cost	6 Year Program Cost	Budget Year Cost	% of Growth
Bi-County Sev	ver Projects					
S-203.00	Land Rights-Of-Way Acquisition - Bi-County		\$424	\$124	\$112	0%
		TOTALS	<u>\$424</u>	<u>\$124</u>	<u>\$112</u>	

1 New Project

WSSC FYS 2016 - 2021 CIP ALL PROJECTS PENDING CLOSE-OUT

(costs in thousands)

Agency Number	Project Name	Estimated Total Cost	Expenditures Thru FY'14	Estimated Expenditures FY'15	Remarks
<u>Montgomery</u>	y County Sewer Projects				
S- 94.12	Damascus WWTP Enhanced Nutrient Removal	\$7,485	\$7,318	\$167	Project completion expected in FY'15.
S-201.00	Land & Rights-Of-Way Acquisition - Montgomery County	0	0	0	All land costs are consolidated in Bi-County Sewer.
<u>Bi-County V</u>	Vater Projects				
W-73.18	Power Reliability and Arc Flash Implementation	4,916	4,916	0	Project complete.
W-73.20	Potomac WFP Stage 2 Disinfection Byproducts Rule Implementation	10,481	8,964	1,517	Project completion expected in FY'15.
<u>Bi-County S</u>	ewer Projects				
S-89.22	Anacostia Storage Facility	21,865	20,195	1,670	Project completion expected in FY'15.
Prince Geor	ge's County Water Projects				
W-204.00	Land & Rights-Of-Way Acquisition - Prince George's County	0	0	0	All land costs are consolidated in Bi-County Water.
Prince Geor	ge's County Sewer Projects				
S-205.00	Land & Rights-Of-Way Acquisition - Prince George's County	0	0	0	All land costs are consolidated in Bi-County Sewer.
	TOTALS	<u>\$44,747</u>	<u>\$41,393</u>	<u>\$3,354</u>	

7 Projects Pending Close-Out

FINANCIAL SUMMARY

DATE: October 1, 2014 REVISED: May 7, 2015

TOTAL WSSC CIP

(ALL FIGURES IN THOUSANDS)

AGENCY	PROJECT	EST.	EXPEND	EST.	TOTAL	EXPENDITURE SCHEDULE					BUDGET	PDF	
NUMBER	NAME	TOTAL	THRU	EXPEND	SIX	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	REQUEST	PAGE
		COST	14	15	YEARS	16	17	18	19	20	21	16	NUM
	Montgomery County Water Projects	40,780	8,288	5,113	27,379	9,634	10,677	5,955	1,113	0	0	9,634	1-1
	Prince George's County Water Projects	268,408	22,980	24,900	200,295	43,172	52,710	45,580	28,837	17,748	12,248	43,172	5-1
	Bi-County Water Projects	855,447	238,001	77,723	539,723	87,099	102,576	106,048	96,912	84,713	62,375	87,099	3-1
	TOTAL WATER PROJECTS	1,164,635	269,269	107,736	767,397	139,905	165,963	157,583	126,862	102,461	74,623	139,905	
	Montgomery County Sewerage Projects	80,152	50,069	10,573	19,510	9,443	7,410	2,611	46	0	0	9,443	2-1
	Prince George's County Sewerage Projects	446,682	116,562	87,802	229,389	84,400	59,108	31,832	16,892	16,234	20,923	84,400	6-1
	Bi-County Sewerage Projects	2,534,956	1,126,740	274,195	1,065,755	312,846	234,292	240,197	127,419	87,164	63,837	312,846	4-1
	TOTAL SEWERAGE PROJECTS	3,061,790	1,293,371	372,570	1,314,654	406,689	300,810	274,640	144,357	103,398	84,760	406,689	
	TOTAL WSSC PROGRAM	4,226,425	1,562,640	480,306	2,082,051	546,594	466,773	432,223	271,219	205,859	159,383	546,594	
	Total Information Only Projects	1,405,054	51,110	179,031	1,143,267	172,703	187,626	199,300	212,956	203,637	167,045	172,703	7-1
													1

Notes for costs beyond six years:

Includes 68,266 for Bi-County Sewer Projects. Includes 20,233 for Prince George's County Water Projects. Includes 12,929 for Prince George's County Sewer Projects. Includes 31,646 for Information Only Projects. Includes 133,074 for all costs beyond six years.

Section 1 - Montgomery County Water Projects

DATE: October 1, 2014

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

MONTGOMERY COUNTY WATER PROJECTS

AGENCY	PROJECT	EST.	EXPEND	EST.	TOTAL		EXF	PENDITURE	SCHEDUL	E		BUDGET	PDF
NUMBER	NAME	TOTAL	THRU	EXPEND	SIX	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	REQUEST	PAGE
		COST	14	15	YEARS	16	17	18	19	20	21	16	NUM
W-3.02	Olney Standpipe Replacement	8,079	1,225	104	6,750	2,286	2,668	1,796	0	0	0	2,286	1-2
W-46.14	Clarksburg Area Stage 3 Water Main, Parts 1, 2 & 3	5,900	2,832	805	2,263	1,751	446	66	0	0	0	1,751	1-4
W-46.15	Clarksburg Elevated Water Storage Facility	4,836	232	472	4,132	127	222	2,670	1,113	0	0	127	1-5
W-46.18	Newcut Road Water Main, Part 2	1,555	1,204	213	138	138	0	0	0	0	0	138	1-6
W-46.24	Clarksburg Area Stage 3 Water Main, Part 4	3,789	1,432	495	1,862	1,149	630	83	0	0	0	1,149	1-7
W-46.25	Clarksburg Area Stage 3 Water Main, Part 5	1,624	0	1,425	199	147	52	0	0	0	0	147	1-8
W-90.04	Brink Zone Reliability Improvements	6,909	65	863	5,981	673	3,968	1,340	0	0	0	673	1-9
W-138.02	Shady Grove Standpipe Replacement	8,088	1,298	736	6,054	3,363	2,691	0	0	0	0	3,363	1-10
	TOTAL MONTGOMERY COUNTY WATER PROJECTS	40,780	8,288	5,113	27,379	9,634	10,677	5,955	1,113	0	0	9,634	

A. Identification and Coding Infor	mation		2. Dat	te: Octo	ber 1, 201	4	7. Pre PD	Pg.No.	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's	s) FY of Im	npact
1. Project Number Agency Number	Update	Code			,							Program Costs Staff		
063801 W-3.02	Change		Revis	ed:								Other Facility Costs Maintenance		
3. Project Name: Olney Standpipe	Replaceme	nt					5.Agency:	W	SSC			Debt Service	533	19
4. Program: Sanitation	6. Planning	g Area:	Olney	& Vicinit	y P.A. 23							Total Costs	533	19
												Impact on Water or Sewer Rate	1¢	19
В.		E	xpenditu	re Schec	lule (000':	5)						F. Approval and Expenditure Data (000's)		
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Revend			
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17		FY '19	FY '20	FY '21	Beyond 6 Years	Date First in Capital Program	FY	
Planning, Design & Supervision	1,681	1,221	90	370	155	120) 95					Date First Approved	FY	06
Land												Initial Cost Estimate	3,91	11
Site Improvements & Utilities												Cost Estimate Last FY	6,93	31
Construction	5,504	4		5,500	1,833	2,200	1,467					Present Cost Estimate	8,07	79
Other	894		14	880	298	348	3 234					Approved Request, Last FY	2,42	15
Total	8,079	1,225	104	6,750	2,286	2,668	3 1,796					Total Expenditures & Encumbrances	1,22	25
С.			Funding	Schedu	le (000's)							Approval Request FY 16	2,28	36
WSSC Bonds	8,079	1,225	104	6,750	2,286	2,668	3 1,796					Supplemental Approval Request		
DESCRIPTION This project provides for the coelevated storage to serve the C Service Area Montgomery Hit JUSTIFICATION Plans & Studies Montgomery County High Zone 22, 2004; Water Storage Volum Specific Data The efforts of the Systems Cont the THM concentrations in the or residuals and result in low-press non-usable storage requires co Costs increased based on mor STATUS Final Design Complete (V OTHER The project scope has remaine may change based upon actua the Maryland State Highway Admir (anticipates receiving Mandator NOTE This project supports 100	Plney area, a gh Pressure Facility Pla ne Criteria F distribution sure compli- nstant atter e defined en VSSC Cont d the same l bid. The p dministration histration, M ry Referral s	and for the e Zone H an, Boyle Report (Ne have impli- system. aints duri- ntion to m ngineer's ract No. If . Expend project ha n. ontgome submission	e remova G560I Engineeri ovember 2 roved the However, ng the dra aintain ac estimate BE4473A0 liture and s been de ry County ons).	ng (1991) 2005). minimum these eff wdown e ceptable and addit 06,). schedule layed due	chlorine r orts still le fforts. The water qua ional inspe- projection e to easen	ey Stand ndum fr esidual ave the e existin lity. ection se es shown hent req	dpipe. Cap om Jeff As concentrati Olney area g Olney St ervices. n in Block E uirements a	oner to Ka ons and a with trou andpipe w B are bas and perm	5 MG ren Wrigh appear to ublesome with 1.8 m ed upon f itting with	t dated M have low chlorine illion galle inal desig the MDE	larch ered ons of n and and	G. Status Information Land Status: Not determined % Project Completion: D-100% Est. Completion Date: FY 2018 H. Map Map Reference Code:		

<u>GERMANTOWN/CLARKSBURG AREA PROJECTS</u> (costs in thousands)

PROJECT NUMBER	PROJECT NAME	ADOPTED FY'15 TOTAL COST	ADOPTED FY'16 TOTAL COST	CHANGE \$	CHANGE %	SIX-YEAR COST	COMPLETION DATE (est)
W-46.14	Clarksburg Area Stage 3 Water Main, Parts 1, 2 & 3	\$5,695	\$5,900	\$205	3.6%	\$2,263	Developer Dependent
W-46.15	Clarksburg Elevated Water Storage Facility	4,592	4,836	244	5.3%	4,132	FY 2019
W-46.18	Newcut Road Water Main, Part 2	1,593	1,555	(38)	-2.4%	138	Developer Dependent
W-46.24	Clarksburg Area Stage 3 Water Main, Part 4	5,413	3,789	(1,624)	-30.0%	1,862	Developer Dependent
W-46.25	Clarksburg Area Stage 3 Water Main, Part 5	0	1,624	1,624	0.0%	199	October 2016
	TOTALS	\$17,293	\$17,704	\$411	2.4%	\$8,594	

Summary: These projects are in response to the growth in the up-county area including Germantown and Clarksburg. The Clarksburg Area Stage 3 Water Main, Parts 1, 2 & 3 project (W-46.14), Newcut Road Water Main, Part 2 project (W-46.18), Clarksburg Area Stage 3 Water Main, Part 4 project (W-46.24) and Clarksburg Area Stage 3 Water Main, Part 5 (W-46.25) will serve the areas designated as "Stage 3" in the Clarksburg Master Plan and Hyattstown Special Study Area. The Clarksburg Elevated Water Storage Facility project (W-46.15) provides funding for a .75 million gallon elevated water storage facility, which is needed as the Clarksburg area continues to develop.

Cost Impact: Due to pending area road projects, portions of the developer dependent 24-inch water main in project W-46.24 were split out into project W-46.25. W-46.25 will be funded by SDC.

1. Project Number Agency Number	nation) - d -	2. Dat	e: Octol	per 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	b. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
973818 W-46.14	Update C Change	Joue	Revise	ed:								Program Costs Staff Other	
3. Project Name: Clarksburg Area S	-	er Main	Parts 1 2	ደ 3			5.Agency:	10/	SSC			Facility Costs Maintenance 23	
-	6. Planning				icinity P.A		o./ igenoy.	~~~	330			Debt Service	···· 7 19
4. Flogram. Samation	o. Fianning	Alea.	Ciaiks	buly & v		. 13						Impact on Water or Sewer Rate	
В.		E	xpenditu		ule (000's	,			T	I		F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 97
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 97
	1,040	300	200	540	451	78	3 11						
													3,376
													5,695
		2,532											5,900
Other	400			295								Approved Request, Last FY	2,260
Total	5,900	2,832	805	2,263	1,751	446	66					Total Expenditures & Encumbrances	2,832
С.			Funding	Schedul	e (000's)							Approval Request FY 16	1,751
Contribution/Other	5,900	2,832	805	2,263	1,751	446	66					Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
Initial Cost Estimate Initial Cost Estimate Land Image: Stelling Cost Cost Cost Cost Cost Cost Cost Cost													

A. Identification	and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PDI	Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
. Project Numbe	er Agency Number	Update	Code			,	-						Program Costs Staff	
973819	W-46.15	Change		Revis	ed:								Other Facility Costs Maintenance	
8. Project Name:	Clarksburg Elevate	ed Water S	Storage F	acility				5.Agency:	W	SSC			Debt Service	
. Program:	Sanitation	6. Planning	g Area:	Clark	sburg & V	icinity P.A	. 13						Total Costs Impact on Water or Sewer Rate	
													Impact on water of Sewer Rate	
В.			E	xpenditu	re Sched	lule (000':	s)			1	1		F. Approval and Expenditure Data (000's)	
		(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 97
Cost Elements		Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		
Planning, Design	& Supervision	1,022	232	410	380	110	15	180	75				Date First Approved	FY 97
and													Initial Cost Estimate	138
Site Improvemen	ts & Utilities												Cost Estimate Last FY	4,592
Construction		3,213			3,213		178	2,142	893				Present Cost Estimate	4,836
Dther		601		62	539	17	29	348	145				Approved Request, Last FY	334
Total		4,836	232	472	4,132	127	222	2,670	1,113				Total Expenditures & Encumbrances	232
C.				Funding	Schedu	le (000's)							Approval Request FY 16	127
SDC		4,836	232	472	4,132	127	222	2,670	1,113				Supplemental Approval Pequest	
) Description 8	Lustification												Current FY (15)	
DESCRIPTION	, vacantoarion													
This project	provides for the corr	nmunity ou	ıtreach, s	ite selecti	on, planni	ng, desigi	n, and co	onstruction	for a 0.7	5 million g	gallon (MC	G)	G. Status Information	
elevated stor	rage facility in the H	G760 wate	er pressu	e zone.						-				
	a Clarksburg Pres	sure Zone	HG760B					Cap	oacity 0.	75 MG				
USTIFICATION													Est. Completion Date. F1 2019	
		0		W000							- h	- 114 -	H. Map Map Reference Code:	
										ern Clark	sburg Fa	CIIIty		/
DC 4,836 232 472 4,132 127 222 2,670 1,113 Supplemental Approval Request Description & Justification ESCRIPTION This project provides for the community outreach, site selection, planning, design, and construction for a 0.75 million gallon (MG) elevated storage facility in the HG760 water pressure zone. G. Status Information Service Area Clarksburg Pressure Zone HG760B Capacity 0.75 MG JSTIFICATION Plans & Studies Montgomery County High Zone Supply Facility Plan, WSSC; M-NCP&PC Round 6.2 growth forecasts; Western Clarksburg Facility Plan, Rogers Associates (December 2004); Water Storage Volume Criteria Report (November 2005). H. Map Map Reference Code:														
Funding Schedule (000's) Approval Request FY 16 127 DC 4,836 232 472 4,132 127 222 2,670 1,113 Approval Request FY 16 127 Supplemental Approval Request Current FY (15) Supplemental Approval Request Current FY (15) Service Area Clarksburg Pressure Zone HG760B Capacity 0.75 MG G. Status Information USTIFICATION Plans & Studies Montgomery County High Zone Supply Facility Plan, WSSC; M-NCP&PC Round 6.2 growth forecasts; Western Clarksburg Facility Plans & Studies of the project of this zone. The facility plan identified the preferred location for the water storage facility. As noted in the facility plan, public meetings were held to obtain comments concerning the location. H. Map Map Reference Code:														
										the wate	r storage	facility.	CLARKSBURG	181
		lic meeting	gs were n	eld to obta	ain comm	ents conc	erning tr	le location.						001
Cost Chang Not applicab													Clackshorn	
	inary Design (WSS0	^C Contract	Nos BE	1112005	DA3326	A02)							A Stand	A
	inary Design (WOOC	5 Contract	NUS. DL	1442/030	, DA3320	AUZ).							GARNRIRK	1 1
<u>DTHER</u> The project s	scope has remained	l the same	Expend	liture and	schedule	projection	ns shown	in Block F	are nlan	nina leve	l estimate	es and	Exit-18 GATEWAY 270 FARMS	CLARKSE
may change	based upon site-sp	ecific cond	ditions an	d design o	constraints	s. The res	sulting de	ecision of t	he Montg	omery Co	ounty Plar	nning	BUS CTR day	C Stars
	atory Referral is for													a the town
202.00.	e final landscaping s	unounainę	g the facil	ity before	going into	inal des	ign. Lan	u costs are		111 11 200	C Project	vv-		and states
COORDINATION	4												Proder Hill	
	- County Governmer	nt, Marvlar	d-Nation	al Capital	Park & Pl	anning Co	ommissio	on (Mandat	ory Refer	ral Hearii	ng was he	eld on	Ma and	Packing P
	and WSSC Projec								,		5		SEE GRID 011 1 ROLENAN ST	1
NOTE This pr	roject supports 100%	% Growth.												= 2111 ft
													TRUMPECT DEATER	Linth Salution

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. P	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update		Revis		,							Program Costs Staff	
013802 W-46.18	Change		Revis	eu.								Other	 16
3. Project Name: Newcut Road Wat	er Main, P	art 2					5.Agency:	W	SSC			Debt Service Total Costs	
4. Program: Sanitation	Planning	g Area:	Clark	sburg & V	icinity P.A	. 13						Impact on Water or Sewer Rate	16
В.		E	xpenditu	ire Sched	lule (000':	s)			1	1		F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 01
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17		FY '19	FY '20	FY '21	6 Years		FY 01
Planning, Design & Supervision	406	376	10	20	20							Date First Approved Initial Cost Estimate	
Land													800
Site Improvements & Utilities												Cost Estimate Last FY	1,593
Construction	1,103	828	175	100	100							Present Cost Estimate	1,555
Other	46		28	18	18							Approved Request, Last FY	477
Total	1,555	1,204	213	138	138							Total Expenditures & Encumbrances	1,204
С.				Schedu	le (000's)			T		T		Approval Request FY 16	138
Contribution/Other	1,555	1,204	213	138	138							Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
This project provides for the plan between Route 355 and Skylark Service Area Montgomery Hig JUSTIFICATION Plans & Studies Clarksburg Master Plan, Stage 3 Specific Data This main is proposed to serve a approved and adopted in June 1 Cost Change Not applicable. STATUS Under Construction (WSS OTHER The project scope has remained provided by the developer. Desi estimated completion date is de COORDINATION Montgomery County Departmen Park & Planning Commission. NOTE This project supports 1005	Road. h Zone Pr 3; M-NCP8 areas desig 994. C Contrac the same gn and co veloper de t of Public	essure Zo PC Roun gnated as t Nos. DA Expend nstruction pendent. Works ar	one 560I d 5 Popu "Stage 3 4321M06 itures and will be p No WSS	lation Pro " in the C 5 , DA432 d schedule erformed C rate su	jections; C larksburg 1S06 , DA e projectic by the dev pported de	General Master 4321W(vns shov veloper ebt will b	Plan. Plan and H 06 , DA432 wn in Block under Syst be used for	lyattstown 1Z06). B are baa em Exten this proje	Special S sed upon sion Pern ct.	Study Are informati hits. The	a, on	G. Status Information Land Status: No land or R/W requise % Project Completion: C-75% Est. Completion Date: Developer Dependent H. Map Map Reference Code: 46.18 ROOK 46.18 ROOK 46.18 ROOK ACRES BROOK ACRES BROOK ACRES COMPLETE	nt

A. Identification and Coding Infor	mation		2 Da	te [.] Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. P	ub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact	
1. Project Number Agency Number	Update	Code										Program Costs Staff	
113800 W-46.24	Change	•	Revis	ea:		L						Other Facility Costs Maintenance 141 19	
3. Project Name: Clarksburg Area S	Stage 3 Wa	ater Main,	Part 4				5.Agency	W	SSC			Debt Service	
4. Program: Sanitation	6. Planning	g Area:	Clark	sburg & V	icinity P.A	A. 13						Total Costs 141 19	
												Impact on Water or Sewer Rate	
В.				-	lule (000'		(14)	(45)	(10)	(47)	(10)	F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program FY 11	
Cost Elements Planning, Design & Supervision	Total 453	FY '14 132	FY '15 150	6 Years 171	FY '16 120	FY '17 45	FY '18 6	FY '19	FY '20	FY '21	6 Years	Date First Approved FY 97	
Land	400	102	150		120		0					Initial Cost Estimate 1,954	
Site Improvements & Utilities												Cost Estimate Last FY 5,413	
Construction	3,028	1,300	280	1,448	879	503	66					Present Cost Estimate 3,789	
Other	308	1,000	65	243	150	82						Approved Request, Last FY 2,111	
Total	3,789	1,432	495	1,862	1,149	630							
	5,769	1,432				030	03					Total Expenditures & Encumbrances 1,432	
			-					1	1	1		Approval Request FY 16 1,149	
Contribution/Other	3,789	1,432	495	1,862	1,149	630	83					Supplemental Approval Request	
This project provides for the de 2,920 feet of 24-inch diameter v Service Area Brink Pressure JUSTIFICATION	water main	along We				meter wa	iter main a	along Rou	te 27 and	Route 3	55 and	G. Status Information Land Status: Right-of-Way may be required % Project Completion: C-35% Est. Completion Date: Developer Dependent	
General Plan and M-NCP&PC F Specific Data This water main is planned to s Area, approved and adopted in Cost Change Costs were adjusted to reflect t	erve the ard June 1994 he amende	ea design ed project	nated as "; scope an	d splitting	of the pro	oject into	two parts					H. Map Map Reference Code:	
Funding Schedule (000's) Approval Request FY 16 Contribution/Other 3,789 1,432 495 1,149 630 83 D. Description & Justification DESCRIPTION This project provides for the design and construction of 3,580 feet of 24-inch diameter water main along Route 27 and Route 355 and 2,920 feet of 24-inch diameter water main along Route 27 and Route 355 and Service Area Brink Pressure Zone HG760A General Prink Pressure Zone HG760A JUSTIFICATION Plans & Studies Regneral Plan and M-NCP&PC Round 6 growth forecasts. Specific Data This water main is planned to serve the area designated as "Stage 3" in the Clarksburg Master Plan and Hyattstown Special Study Area, approved and adopted in June 1994. H. Map Map Reference Code:													

A. Identification and Coding Inform	mation	2	Date: Oct	ober 1. 201	4	7. Pre PD	F Pg.No.:	: 8. Req.	Adeq. P	ub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Number	Update	Code	evised:	, .							Program Costs Staff
163801 W-46.25	Change										Other Facility Costs Maintenance
3. Project Name: Clarksburg Area S	Stage 3 Wa	ter Main, Part	5			5.Agency	: W	SSC			Debt Service
4. Program: Sanitation	6. Planning	g Area: C	arksburg &	Vicinity P.A	. 13						Total Costs 50 18 Impact on Water or Sewer Rate 18
В.		Expen	diture Sche	dule (000':	s)						F. Approval and Expenditure Data (000's)
	(8)	(9) (10 Thru Estim		(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program FY 16
Cost Elements	Total	FY '14 FY '	5 6 Years	FY '16	FY '17		FY '19	FY '20	FY '21	6 Years	Date First Approved FY 97
Planning, Design & Supervision	182	1	60 22	15		7					
Land											
Site Improvements & Utilities											Cost Estimate Last FY
Construction	1,230	1,0	79 15 1	113	38						Present Cost Estimate 1,624
Other	212	1	86 26			7					Approved Request, Last FY
Total	1,624	1,4	25 199	147	52	2					Total Expenditures & Encumbrances
C.		Fun	ling Sched	ule (000's)							Approval Request FY 16 147
SDC	1,624	1,4	25 19 9	147	52	2					Supplemental Approval Request
DESCRIPTION This project provides for the des Baltimore Road. Service Area Brink Pressure 2 JUSTIFICATION Plans & Studies General Plan and M-NCPPC Ro Specific Data This water main is planned to se Area, approved and adopted in 2 Cost Change Not applicable. STATUS Planning OTHER The project scope was originally area road projects resulted in th 46.24. The WSSC-built portions COORDINATION Montgomery County Governme Area Stage 3 Water Main, Part 1 NOTE This project supports 100	Zone HG76 bund 6 grov erve the are June, 1994 y establishe e need to a s will now b nt, Marylan 4.	50A wth forecasts. ea designated a l. ed under WSSG accelerate porti e processed ur nd-National Cap	s "Stage 3" Project W- ons of the 2 der Project	in the Clar 46.24, Clar 4-inch wate W-46.25. N	ksburg ksburg er projec lo rate s	Master Pla Area Stage ct separate supported o	n and Hya e 3 Water from dev debt will b	Main, Pa eloper-bu e used fo	Special St rt 4. Peno ilt project r this proj	udy ding W- ect.	C. Status Information Hand Status: Not Applicable % Project Completion: P-0% Est completion Date: October 2016 Than Map Reference Code Interpret of the status

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. P	ub. Fac.	E. Annual Operating Budget Impact (000	s) FY of Impact
1. Project Number Agency Number	Update	Code			, .	Γ						Program Costs Staff	
143800 W-90.04	Change		Revis	ea.								Other Facility Costs Maintenance	
3. Project Name: Brink Zone Reliabil	lity Improv	vements				ţ	5.Agency:	WS	SC			Debt Service	285 19
4. Program: Sanitation 6	6. Plannin	g Area:	Monte	gomery C	ounty							Total Costs Impact on Water or Sewer Rate	285 19
D		F	vnenditu	ure Scher	lule (000's	e)							
В.	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	F. Approval and Expenditure Data (000's	
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program	FY 14
Planning, Design & Supervision	1,715	65	750	900	285	450	165	1113	1120	1121	0 Tears	Date First Approved	FY 14
Land	-											Initial Cost Estimate	345
Site Improvements & Utilities												Cost Estimate Last FY	4,141
Construction	4,300			4,300	300	3,000	1,000					Present Cost Estimate	6,909
Other	894		113	781	88	518	175					Approved Request, Last FY	230
Total	6,909	65	863	5,981	673	3,968	1,340					Total Expenditures & Encumbrances	65
С.			Funding	Schedu	le (000's)							Approval Request FY 16	673
WSSC Bonds	6,909	65	863	5,981	673	3,968	1,340					Supplemental Approval Request	
D. Description & Justification	l.				J J		1	I I				Current FY (15)	
DESCRIPTION													
This project provides for the plan						umping st	ation and	pipeline to	increas	e reliabilit	y and	G. Status Information	
redundancy to the Montgomery C		-			•		-					Land Status: R/W under nego % Project Completion: D-0%	tiation
Service Area Woodfield Press Brink Pressure Z							Ca	pacity 13	MGD			Est. Completion Date: FY 2018	
Sweepstakes Pre	essure Zo	ne HG83	5A, Seneo	ca Spring	s Pressure	e Zone						· ·	
HG835B, Cedar Zone HG836B, K												H. Map Map Reference Code:	
Zone HG850B, K Zone HG850A, D					ZA, Halet	Flessul	e						
JUSTIFICATION													2
Plans & Studies												90.04	(1
Business Case Evaluation: Brink	Reliability	y Assessi	ment, Blad	ck & Veat	ch (June 2	2013)							1 27
Specific Data			,					/				and the second second	the mail
The Neelsville Water Pumping S 24-inch diameter PCCP Water T												MIL X / W	
will effectively deliver water to the												20876	
pressure zones.												all	Emp /
Cost Change The increase in cost is the result	e of the de	cicion to	daalan far	a huilt in	nlaan haa	otor wot		a station o		ad to o			and Com
prefabricated pumping station.	t of the de		design for	a built-in	-place boc	oster wate	er pumpin	g station a	s oppose	eu io a			11
STATUS Preliminary Design (WSSC	Contract	No. BP5	692A14,)										
OTHER												The second second second second	1
The project scope has remained Business Case Analysis. Land c						for desig	in and cor	nstruction v	vere deri	ved from	the		
COORDINATION												ALC: NO PARTY AND NOT	Carron of A
Montgomery County Governmen Environmental Protection.	it, Marylar	nd-Nationa	al Capital	Park & P	lanning Co	ommissio	n and Mo	ntgomery (County D	epartme	nt of	AGERMANTOWN	1 inch = 5.556 feet
NOTE This project supports 100%	6 System	Improven	nent.									And All and Al	30 I I I

A. Identification and Coding Inform	nation		2. Dat	te: Octo	per 1. 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update	Code			, .							Program Costs Staff	
093801 W-138.02	Change		Revis	ed:								Other Facility Costs Maintenance	
3. Project Name: Shady Grove Stan	dpipe Rep	lacement					5.Agency:	W	SSC			Debt Service	18
4. Program: Sanitation	6. Plannin	g Area:	Gaith	ersburg &	Vicinity F	P.A. 20							18
												Impact on Water or Sewer Rate 1¢	18
В.		E	xpenditu	re Sched		s)	I	T	1	1		F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 09
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		
Planning, Design & Supervision	1,452	1,298	65	89	49	40						Date First Approved	FY 09
Land												Initial Cost Estimate	7,475
Site Improvements & Utilities												Cost Estimate Last FY	8,181
Construction	5,750		575	5,175	2,875	2,300						Present Cost Estimate	8,088
Other	886		96	790	439	351						Approved Request, Last FY	3,363
Total	8,088	1,298	736	6,054	3,363	2,691						Total Expenditures & Encumbrances	1,298
С.			Funding	Schedu	e (000's)							Approval Request FY 16	3,363
WSSC Bonds	8,088	1,298	736	6,054	3,363	2,691						Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
DESCRIPTION													
This project provides for the plar	nning, des	ign, and c	onstructio	on of 3.0 r	nillion gall	ons (MG	6) of elevat	ed storag	je to repla	ce the ex	isting	G. Status Information	
Shady Grove Standpipe.												Land Status: Public/Agency owned la	and
Service Area Montgomery Hig	h Pressur	e Zone H	G660A				Ca	pacity 3.	0 MG			% Project Completion: D-98% Est. Completion Date: FY 2017	
JUSTIFICATION													
Plans & Studies			0051.000	C Matan I)				المحمد والمحمد وال	ata d Mari	-	H. Map Map Reference Code:	
Water Storage Volume Criteria F 2007, from Karen Wright, Syster													208
Specific Data			,,				, ,	,				A B Summer: STEALDORD 20 ANNUT STEALS	
The existing 5.0 MG standpipe is	s in need o	of extensiv	/e repairs	. Replaci	ng the sta	ndpipe v	with a sma	ller eleva	ted storag	e facility	will	Ama Frontiek and Andrew 3 Martin	370
provide the same level of service	e while hel	lping to m	eet U.S. E	Environme	ental Prote	ection Ag	gency regu	lations fo	r disinfect	ant by-pr	oducts	BIGLION WEST AND	Step
and improving water quality. Cost Change												and the second s	TROAD B
Not applicable.												Marris Marris La Share Share	All County ?
STATUS Final Design (WSSC Cont	ract No B	E5061A0	9)									BRICHTON ROUTER	when when
OTHER			.,).									A A SA	Formaning &
The project scope has remained	I the same	. Expendi	ture and s	schedule i	proiection	s shown	in Block E	are desi	an level e	stimates a	and	Existing Shady Grove tank	tr
may change based upon actual					· · , · · · ·				0		-	A REAL AND A REAL AND A	UQC
COORDINATION												PANEL TO BE AND AND A DESCRIPTION	Shop Cir
Montgomery County Governmer	nt, City of I	Rockville,	Maryland	Departm	ent of the	Environ	ment and	Maryland	Departme	ent of Nat	ural	The stand of the stand	(355)
Resources.												TOMAN NASHINGTOLAN OPPKIL	
NOTE This project supports 1009	% System	Improven	nent.									AUNG FARM	LVD S
												10877	Δ_{1}
												221NW09 1*=3557	ft
												Exit-8 REDUCTION	and the

Section 2 - Montgomery County Sewer Projects

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

MONTGOMERY COUNTY SEWER PROJECTS

	AGENCY	PROJECT	EST.	EXPEND	EST.	TOTAL		EXPEN	IDITURE S	CHEDUL	.E		BUDGET	PDF
	NUMBER	NAME	TOTAL	THRU	EXPEND	SIX	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	REQUEST	PAGE
			COST	14	15	YEARS	16	17	18	19	20	21	16	NUM
	S-25.03	Twinbrook Commons Sewer	1,004	607	59	338	159	87	46	46	0	0	159	2-2
	S-25.04	Mid-Pike Plaza Sewer Main, Phase 1	3,874	3,693	144	37	37	0	0	0	0	0	37	2-3
	S-25.05	Mid-Pike Plaza Sewer Main, Phase 2	6,094	119	1,434	4,541	3,107	1,434	0	0	0	0	3,107	2-4
	S-38.01	Preserve at Rock Creek Wastewater Pumping Station	1,967	91	848	1,028	680	348	0	0	0	0	680	2-5
3.	S-38.02	Preserve at Rock Creek WWPS Force Main	391	108	133	150	150	0	0	0	0	0	150	2-6
No.	S-53.21	Seneca WWTP Enhanced Nutrient Removal	13,972	12,365	1,585	22	22	0	0	0	0	0	22	2-8
	S-53.22	Seneca WWTP Expansion, Part 2	28,990	24,604	4,364	22	22	0	0	0	0	0	22	2-10
	S-84.47	Clarksburg Triangle Outfall Sewer, Part 2	2,539	1,126	782	631	555	76	0	0	0	0	555	2-12
	S-84.60	Cabin Branch Wastewater Pumping Station	2,342	12	13	2,317	449	1,566	302	0	0	0	449	2-13
	S-84.61	Cabin Branch WWPS Force Main	424	0	17	407	143	240	24	0	0	0	143	2-14
	S-84.65	Tapestry Wastewater Pumping Station	683	7	231	445	223	222	0	0	0	0	223	2-15
	S-84.66	Tapestry WWPS Force Main	134	8	45	81	46	35	0	0	0	0	46	2-16
	S-85.21	Shady Grove Station Sewer Augmentation	2,254	11	305	1,938	1,188	750	0	0	0	0	1,188	2-17
	S-103.16	Cabin John Trunk Sewer Relief	7,999	0	446	7,553	2,662	2,652	2,239	0	0	0	2,662	2-18
		Projects Pending Close-Out	7,485	7,318	167	0	0	0	0	0	0	0	0	2-19
	<i>e</i> 3,	TOTAL MONTGOMERY COUNTY SEWER PROJECTS	80,152	50,069	10,573	19,510	9,443	7,410	2,611	46	0	0	9,443	



S

Denotes projects which include an environmental component (see page 15 in the opening narrative.)

A. Identification and Coding Inform	nation	2.	Date: Octo	ber 1. 201	4	7. Pre PDI	Pg.No.:	8. Req.	Adeq. P	ub. Fac.	E. Annual Operating Budget Impact (00	DO's) FY of Impact	
1. Project Number Agency Number	Update Coo	de	/ised:	, .							Program Costs Staff		
S-25.03	Change	Re	liseu.		_						Other Facility Costs Maintenance	24 20	
3. Project Name: Twinbrook Commo	ons Sewer				:	5.Agency:	W	SSC			Debt Service		
4. Program: Sanitation	 Planning Ar 	rea: No	th Bethesd	a P.A. 30							Total Costs Impact on Water or Sewer Rate	24 20 	
В.		Expend	ture Schee	dule (000'	s)	T			1		F. Approval and Expenditure Data (000	's)	
			(11) e Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Bevond	Date First in Capital Program	EV 08	
Cost Elements	Total F	Y '14 FY '1	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years			
<u> </u>	417	380 1	0 27	8	7	6	6						
Site Improvements & Utilities											Cost Estimate Last FY		
Construction	535	227 4	1 267	130	69	34	34				Present Cost Estimate	1,004	
Other	52		8 44	21	11	6	6				Approved Request, Last FY	125	
Total	1,004	607 5	9 338	159	87	46	46				Total Expenditures & Encumbrances	607	
С.		Fundi	ng Schedu	le (000's)							Approval Request FY 16	159	
Contribution/Other	1,004	607 5	9 338	159	87	46	46				Supplemental Approval Request		
(8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) Beyond Date First in Capital Program FY 08 Cost Elements Total FY '14 FY '15 6 Years FY '16 FY '17 FY '18 FY '19 FY '20 FY '21 6 Years 6 Years FY '08 FY '08 FY '21 6 Years FY '21 FY '21 6 Years FY '21 6 Years Date First in Capital Program FY 08 FY 08 Land Image: Construction 535 227 41 267 130 69 34 34 Image: Construction 535 227 41 267 130 69 34 34 Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Constestimate Constestimate Construction Image: Constr													
											NOT STEPHENE MARKER DURING	te Filmit a so	

Update (Change		Revis	ed:									
		T CVI3	eu.								Program Costs Staff	
23801 S-25.04 Change											Other Facility Costs Maintenance	 34 17
 Project Name: Mid-Pike Plaza Sewer Main, Phase Program: Sanitation 6. Planning Area: 						5.Agency:	W	SSC			Debt Service	
. Planning	g Area:	North	Bethesda	P.A. 30							Impact on Water or Sewer Rate	34 17
	E	xpenditu	re Sched	ule (000's	5)						F. Approval and Expenditure Data (000'	5)
(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Bevond	Data Eirst in Capital Program	FY 12
Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		
325	293	25	7	7								FY 12
												1,488
											Cost Estimate Last FY	1,559
3,525	3,400	100	25	25							Present Cost Estimate	3,874
24		19	5	5							Approved Request, Last FY	442
3,874	3,693	144	37	37							Total Expenditures & Encumbrances	3,693
		Funding	Schedul	e (000's)							Approval Request FY 16	37
3,874	3,693	144	37	37							Supplemental Approval Request	
age Basir g Analysis n higher n C Contract the same. gn and cor endent. N	n evised es t Nos. DA . The exp nstruction No WSSC	Capac 2012). stimates fo 5238A11 penditures a will be po C rate sup	ity 3.47 n or paving p , DA5238 and sche erformed t ported del	ngd provided I C11 , DA edule proje by the dev bt will be f	by the de 5238Z11 ections s reloper u used for	Popula eveloper. I , DA5238 shown in B under a Sy this project	tion 2,00 E11 , DA lock B are stems Ext t.	5238F11). based uj ension Pe	oon inform ermit. Est	nation	G. Status Information Land Status: R/W required % Project Completion: C-75% Est. Completion Date: Developer Depr H. Map Map Reference Code:	endent
	(8) Total 325 3,525 24 3,874 3,874 age Basin age Basin g Analysi h higher r Contract he same n and co endent. I , Montgon	(8) (9) Total FY '14 325 293 3,525 3,400 24 3,874 3,874 3,693 aing, design, and construction 3,693 aing Analysis, (March Analysis, (March n higher revised est Contract Nos. DA he same. The exp n and construction n and construction No WSSC , Montgomery Course Course	Expenditu (8) (9) (10) Total FY '14 FY '15 325 293 25 3,525 3,400 100 24 19 3,874 3,693 144 Funding 3,874 3,693 144 Funding 3,874 3,693 144 Gapac age Basin Capac g Analysis, (March 2012). Capac n higher revised estimates for Contract Nos. DA5238A11 he same. The expenditures n and construction will be perendent. No WSSC rate sup n Montgomery County Deparend Montgomery County Deparend	Expenditure Sched (8) (9) (10) (11) Total FY '14 FY '15 6 Years 325 293 25 7 325 293 25 7 3,525 3,400 100 25 24 19 5 3,874 3,693 144 37 Funding Schedul 3,874 3,693 144 37 Gapacity 3.47 n age Basin Capacity 3.47 n g Analysis, (March 2012). n higher revised estimates for paving p Contract Nos. DA5238A11 , DA5238 n add schedul n and construction will be performed teendent. No WSSC rate supported delendent. No WSSC rate supported delendent. No WSSC rate supported delendent. add schedul	Expenditure Schedule (000's(8)(9)(10)(11)(12)TotalFY '14FY '156 YearsFY '1632529325773,5253,40010025252419553,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,69314437age BasinCapacity3,47 mgdage RasinCapacity3,47 mgdage SasinCapacity3,47 mgd <tr< td=""><td>Expenditure Schedule (000's)$(8)$$(9)$$(10)$$(11)$$(12)$$(13)$TotalFY '14FY '156 YearsFY '16FY '1732529325777325293257773252932577732529325777325293257773673,69310025252419553,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,69314437age BasinCapacity 3.47 mgdg Analysis, (March 2012).h higher revised estimates for paving provided by the developer up of the same. The expenditures and schedule projections sin and construction will be performed by the developer up endent. No WSSC rate supported debt will be used for an and construction will be partment of Environmental Pro, Montgomery County Department of Environment</td><td>Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) Total FY '14 FY '15 6 Years FY '16 FY '17 FY '18 325 293 25 7 7 7 3,525 3,400 100 25 25 1 3,525 3,400 100 25 25 1 3,874 3,693 144 37 37 1 Funding Schedule (000's) 3,874 3,693 144 37 37 1 ming, design, and construction of 4,000 feet of 15, 18, and 21-inch age Basin Capacity 3.47 mgd Popula ag Analysis, (March 2012). n higher revised estimates for paving provided by the developer. </td><td>Expenditure Schedule (000's) (a) (b) (c) (c</td><td>Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) (15) (16) Total FY'14 FY'15 6 Years Year 1 Year 2 Year 3 Year 4 Year 5 325 293 25 7 7 - - - - 3,525 3,400 100 25 25 -</td><td>Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) Total FY11 FY118 FY13 FY13</td><td>Expenditure Schedule (000's) (a) (b) (c) (c)</td><td>Expenditure Schedule (000's) Bit (10) (11) (12) (13) (14) (15) (16) (17) (18) (18) (19) (11) (12) (13) (14) (15) (16) (17) (17) (18) (19) (17) (18) (18) (17) (18)</td></tr<>	Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) TotalFY '14FY '156 YearsFY '16FY '1732529325777325293257773252932577732529325777325293257773673,69310025252419553,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,693144373,8743,69314437age BasinCapacity 3.47 mgdg Analysis, (March 2012).h higher revised estimates for paving provided by the developer up of the same. The expenditures and schedule projections sin and construction will be performed by the developer up endent. No WSSC rate supported debt will be used for an and construction will be partment of Environmental Pro, Montgomery County Department of Environment	Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) Total FY '14 FY '15 6 Years FY '16 FY '17 FY '18 325 293 25 7 7 7 3,525 3,400 100 25 25 1 3,525 3,400 100 25 25 1 3,874 3,693 144 37 37 1 Funding Schedule (000's) 3,874 3,693 144 37 37 1 ming, design, and construction of 4,000 feet of 15, 18, and 21-inch age Basin Capacity 3.47 mgd Popula ag Analysis, (March 2012). n higher revised estimates for paving provided by the developer. 	Expenditure Schedule (000's) (a) (b) (c) (c	Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) (15) (16) Total FY'14 FY'15 6 Years Year 1 Year 2 Year 3 Year 4 Year 5 325 293 25 7 7 - - - - 3,525 3,400 100 25 25 -	Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) Total FY11 FY118 FY13 FY13	Expenditure Schedule (000's) (a) (b) (c) (c)	Expenditure Schedule (000's) Bit (10) (11) (12) (13) (14) (15) (16) (17) (18) (18) (19) (11) (12) (13) (14) (15) (16) (17) (17) (18) (19) (17) (18) (18) (17) (18)

A. Identification and Coding Inform	nation		2. Date: October 1, 2014 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. I							ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact	
1. Project Number Agency Number	Update		Revised:									Program Costs Staff	
143801 S-25.05	Change		Revis	eu.								Other Facility Costs Maintenance	66 18
3. Project Name: Mid-Pike Plaza Sev	wer Main,	Phase 2					5.Agency	W	SSC			Debt Service	
4. Program: Sanitation 6	 Planninę 	g Area:	North	Bethesda	a P.A. 30							Total Costs Impact on Water or Sewer Rate	66 18
В.		E	xpenditu	re Sched	lule (000':	s)	-1		1			F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 14
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 14
Planning, Design & Supervision	860	119	247	494	247	247	,					Initial Cost Estimate	
Land													5,917
Site Improvements & Utilities												Cost Estimate Last FY	6,094
Construction	4,455		1,000	3,455	2,455	1,000						Present Cost Estimate	6,094
Other	779		187	592	405	187						Approved Request, Last FY	3,107
Total	6,094	119	1,434	4,541	3,107	1,434						Total Expenditures & Encumbrances	119
С.			Funding	Schedu	le (000's)							Approval Request FY 16	3,107
Contribution/Other	6,094	119	1,434	4,541	3,107	1,434						Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
DESCRIPTION													
This project provides for the plan	ning, desi	ign, and c	constructio	on of 3,60	0 feet of 2	1-inch a	nd 24-inch	n diamete	r sewer m	ain to pro	ovide	G. Status Information Land Status: R/W required	
service to Mid-Pike Plaza.												Land Status: R/W required % Project Completion: D-20%	
Service Area Cabin John Drain	nage Basi	n										Est. Completion Date: Developer Depend	ent
JUSTIFICATION Plans & Studies													
Mid-Pike Plaza Hydraulic Plannir	ng Analvsi	s. (March	2012).									H. Map Map Reference Code:	AP II
			,									ED HOME LORRE S CHISTORIA CIA TOWNER Short CH	Montrose
												25.05	Shop
Cost Change												See Smith By Jewish 009580	Cit t
Not applicable.												ONTRESE TE Brai Brael . 2 B HETBW Hollie of Wa	spington
STATUS Preliminary Design (WSSC	Contract	Nos. DA	5238G11	, DA5238	Z11).							A Day of the second of the sec	Po 20
OTHER												MONTROS STONEHENGE TO BPL MONTROS	Bog
The project scope has remained provided by the developer. Estin												MONTROSE PROVIDE MILLE PROVIDE AND	e a sile
project.	naleu con	ipietion d	ale is dev	elopel de	pendent.	NU W33	SC Tale Su	pporteu u	ebt will be	useu ioi	uns	THE SWASHING ON WASHINGTON	87
COORDINATION												CTR CHENCE	ta Flint Sta S
Montgomery County Governmen Associations.	it, Montgo	mery Cou	inty Depa	rtment of	Environm	ental Pro	otection ar	nd Local C	Community	/ Civic		Er to have a start	AShop Ctr
NOTE This project supports 100%	6 Growth.											GEORGETOVIN NELWOOD NETWOOD Waved Wal	Aduatio Otr NICHOLSON
												ESTS Luminor u Castregation Studon u	ECUT WSSC W
												A THE THE AND	EXETER HILL 20 ST
												and the state of t	D WAY OF B
													ch = 2,083 feet
												A A A A A A A A A A A A A A A A A A A	US 6 MURN

I. Project Number Agency Number 103800 S-38.01 3. Project Name: Preserve at Rock (I. Program: Sanitation B. B.	Update C Change Creek Wast 6. Planning		 2. Dat 	te: Octob	per 1, 2014	1	7. Pre PDF	Pg.No.:	8. Req. /	Adeq. Ρι	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
B. Project Name: Preserve at Rock (I. Program: Sanitation	Creek Wast	Code			,							Program Costs Staff	
Program: Sanitation			Revis	eu.								Other Facility Costs Maintenance	
	6 Planning	tewater F	Pumping S	Station			5.Agency:	WS	SC			Debt Service	
В.	o. r ianning	Area:	Upper	Rock Cre	eek P.A. 2	2						Total Costs Impact on Water or Sewer Rate	
		E	xpenditu	re Sched	ule (000's)						F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 10
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17		FY '19	FY '20	FY '21	6 Years	· · · ·	
Planning, Design & Supervision	297	91	112	94	84	10)					Date First Approved	FY 10
and												Initial Cost Estimate	1,124
Site Improvements & Utilities												Cost Estimate Last FY	1,194
Construction	1,425		625	800	507	293	3					Present Cost Estimate	1,967
Other	245		111	134	89	45	5					Approved Request, Last FY	265
otal	1,967	91	848	1,028	680	348	3					Total Expenditures & Encumbrances	10
С.			Funding	Schedul	e (000's)							Approval Request FY 16	680
Contribution/Other	1,967	91	848	1,028	680	348	3						
D. Description & Justification												Supplemental Approval Request Current FY (15)	
Service Area Rock Creek Drai <u>IUSTIFICATION</u> Plans & Studies M-NCP&PC Upper Rock Creek I Preserve at Rock Creek Subdivi Specific Data Montgomery County required thi environmentally sensitive area o Cost Change Not applicable. <u>STATUS</u> Under Construction (WSS <u>DTHER</u> The project scope has remained	Master Plar sion (Augus s project ar n the projec C Contract the same.	n (April 2: st 2012). nd the ac ct site. No. CP4 The exp obletion da	004); The companyi 770A08,) enditures ate is devi	ing force r). and sche eloper dep	d Hydraulid main to av dule projed	oid grav	vity sewer co	and Lette nstructio ck B are I	n through based upo	an on inforn	nation	Est. Completion Date: Developer Dependent H. Map Map Reference Code: Colonel Zadok 38.01	6

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (00	0's) FY of Im	npact
1. Project Number Agency Number	Update C	Code			,	-						Program Costs Staff		
103801 S-38.02	Change		Revis	eu.								Other Facility Costs Maintenance	46	17
3. Project Name: Preserve at Rock (Creek WWF	PS Force	e Main				5.Agency:	W	SSC			Debt Service		
4. Program: Sanitation	Planning	Area:	Uppe	r Rock Cr	eek P.A. 2	22						Total Costs Impact on Water or Sewer Rate	46 	17
В.		E	xpenditu	ire Sched	ule (000's	s)						F. Approval and Expenditure Data (000	's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond		•	10
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First in Capital Program	FY	
Planning, Design & Supervision	44	18	16	10	10							Date First Approved	FY	
Land												Initial Cost Estimate	33	39
Site Improvements & Utilities												Cost Estimate Last FY	39	91
Construction	310	90	100	120	120							Present Cost Estimate	39	91
Other	37		17	20	20							Approved Request, Last FY	1:	35
Total	391	108	133	150	150							Total Expenditures & Encumbrances	1(08
C.			Funding	Schedul	e (000's)							Approval Request FY 16	15	50
Contribution/Other	391	108	133	150	150							Supplemental Approval Request		
D. Description & Justification												Current FY (15)		
Rock Creek Subdivision. Service Area Rock Creek Drail JUSTIFICATION Plans & Studies M-NCP&PC Upper Rock Creek // the Preserve at Rock Creek Sub Specific Data Montgomery County required thi through an environmentally sens Cost Change Not applicable. STATUS Under Construction (WSS) OTHER The project scope has remained provided by the developer. Desig completion date is developer dep COORDINATION Maryland State Highway Adminis Wastewater Pumping Station. NOTE This project supports 100%	Area Maste division (Au s project an itive area o C Contract the same. gn and cons bendent. N stration, Mo	er Plan (A ugust 20 nd the ac on the pro No. DA4 The exp struction Io WSSC	April 2004 12). company oject site. 7770D08, enditures will be pe C rate sup). and sche port debt	ended Hy water pun dule proje by the dev will be use	nping sta ections s eloper u ed for th	Planning A ation to ave hown in Bl nder a Sys is project.	oid gravity lock B are stem Exte	d Letter c sewer cc based up nsion Per	onstruction oon inform mit. Estim	n nation nated	Land Status: Not determine % Project Completion: C-30% Est. Completion Date: Developer Dep H. Map Map Reference Code:	3.02	

SENECA WASTEWATER TREATMENT PLANT PROJECTS (costs in thousands)

PROJECT NUMBER	PROJECT NAME	ADOPTED FY'15 TOTAL COST	ADOPTED FY'16 TOTAL COST	CHANGE \$	CHANGE %	SIX-YEAR COST	COMPLETION DATE (est)
S-53.21	Seneca WWTP Enhanced Nutrient Removal	\$13,618	\$13,972	\$354	2.6%	\$22	April 2015
S-53.22	Seneca WWTP Expansion, Part 2	28,984	28,990	6	0.0%	22	April 2015
	TOTALS	\$42,602	\$42,962	\$360	0.8%	\$44	

Summary: The Seneca WWTP Enhanced Nutrient Removal (ENR) project (S-53.21) provides for the planning, design, and construction of improvements necessary to meet the requirements of MDE's Enhanced Nutrient Removal Program. The Seneca WWTP Expansion, Part 2 project (S-53.22) provides for the planning, design, and construction of improvements at the Seneca WWTP necessary to meet projected growth in this service area by increasing the capacity from 20 MGD to 26 MGD while also meeting the requirements of MDE's Enhanced Nutrient Removal Program. The pages following this summary provide additional information.

Cost Impact: Not applicable.

A. Identification and Coding Information 1. Project Number Agency Number Update Code			2. Date: October 1, 2014 7.				7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.				ub. Fac.	E. Annual Operating Budget Impact (00	0's) FY of Impact
1. Project Number Agency Number	•		Revis		,							Program Costs Staff	
073800 S-53.21	Change		Revis	eu.								Other Facility Costs Maintenance	
3. Project Name: Seneca WWTP Er	nhanced N	utrient Re	emoval				5.Agency	: WS	SSC			Debt Service	583 17
4. Program: Sanitation	Planning	g Area:	Lowe	r Seneca	P.A. 18							Total Costs Impact on Water or Sewer Rate	583 17 1¢ 17
В.		E	xpenditu	re Sched	lule (000':	s)						F. Approval and Expenditure Data (000	s)
	(8)	(9) Than	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program	FY 07
Planning, Design & Supervision	4,953	4,551	402									Date First Approved	FY 07
Land												Initial Cost Estimate	22,862
Site Improvements & Utilities												Cost Estimate Last FY	13,618
Construction	8,873	7,814	1,039	20	20							Present Cost Estimate	13,972
Other	146		144	2	2							Approved Request, Last FY	718
Total	13,972	12,365	1,585	22	22							Total Expenditures & Encumbrances	12,365
C.			Funding	Schedul	e (000's)							Approval Request FY 16	22
WSSC Bonds	7,752	6,145	1,585	22	22								
State Aid	6,220	6,220										Supplemental Approval Request Current FY (15)	
D. Description & Justification											<u> </u>		
DESCRIPTION												G. Status Information	
This project provides for the plan	nnina desi	an and c	onstructio	on of impr	ovements	at the S	Seneca W\	NTP nece	ssarv to r	neet the		Land Status: No land or R/W	/ required
requirements of the Maryland De											The	% Project Completion: C-83%	
recommendations include modifi												Est. Completion Date: April 2015	
distribution system, upgrade of t phosphorous removal down to th											or	H. Map Map Reference Code:	
Service Area Seneca Creek D			ie ingriat					(accigit in					
JUSTIFICATION													
Plans & Studies													
ENR Alternatives for the Seneca													
Environment, Feasibility Study A Criteria Report (November 2008		etter (July	27, 2005); WSSC	Prelimina	ry Engin	eering Re	port (Septe	ember 20	08); Desi	gn		
Specific Data)-												
The Bay Restoration Fund Enha	nced Nutri	ent Remo	oval (ENR) Progran	n's purpos	se is to m	neet the co	ommitmen	ts under f	the 2000		and the second second	
Chesapeake Bay Agreement. R	eductions	of nutrier	nt pollutar	its from al	l sources	including	g sewage	treatment	plants are	e necessa		MAP NOT AVAILABL	Ê
The ENR strategy builds on the											g the	WAP NOT AVAILABL	
Bay Restoration Fund to upgrade technologies. Once upgraded, the technologies are the technologies.											total		
nitrogen and 0.3 mg/l total phose													
Agreement. Other pollutants wil	I continue	to be redi	uced by n	nore than	90%.								
Cost Change													
Not applicable.													
STATUS Under Construction (WSS)	C Contract	t Nos. CD	4260A05	, CD4260)C05).								
OTHER The second se	4	T 1-									-4		
The project scope has remained bid and future change orders. T													
will be financed through a low inf													
MDE have negotiated a consent	agreemen	nt for this	project. T	he curren									
1, 2016 and effluent discharge c	ompliance	by Janua	ary 1, 201	1.									

DESCRIPTION & JUSTIFICATION		
jency Number: S - 53.21	Project Name: Seneca WWTP Enhanced Nutrient Removal	
DORDINATION		
Environment and WSSC Project	t, Montgomery County Department of Environmental Protection, Maryland Department of the S-53.22, Seneca WWTP Expansion, Part 2.	
	b Environmental Regulation.	

A. Identification and Coding Information				te: Octo	ber 1, 20 ²		7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update	Code			,							Program Costs Staff	
083802 S-53.22	Change		Revis	ed:		Ľ						Other Facility Costs Maintenance	
3. Project Name: Seneca WWTP Ex	pansion, F	Part 2				:	5.Agency:	W	SSC			Debt Service	
4. Program: Sanitation 6	6. Planning	g Area:	Lowe	r Seneca	P.A. 18							Total Costs Impact on Water or Sewer Rate	
В.		E	xpenditu	re Sched	ule (000'	s)						F. Approval and Expenditure Data (000's)	
	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program	FY 08
Planning, Design & Supervision	7,726	6,921	805									Date First Approved	FY 07
Land												Initial Cost Estimate	16,478
Site Improvements & Utilities												Cost Estimate Last FY	28,984
Construction	20,865	17,683	3,162	20	20							Present Cost Estimate	28,990
Other	399		397	2	2							Approved Request, Last FY	1,970
Total	28,990	24,604	4,364	22	22							Total Expenditures & Encumbrances	24,604
C .			Funding	Schedul	e (000's)							Approval Request FY 16	22
SDC	28,990	24,604	4,364	22	22							Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
DESCRIPTION												G. Status Information	
projected growth in this service a Enhanced Nutrient Removal (EN basin, an additional 150-foot clar down to the permit goal of 0.18 r improvements. The biosolids ha will provide system redundancy.	IR) Progra rifier, expa mg/l at the andling imp	m at 26 M nsion of t maximur provemen	MGD (an i he filter g n month f ts consist	ncrease fi allery to ir low of 33 t of an add	rom 20 M Include 4 r MGD (de ditional ce	GD). The new sand sign flow entrifuge a	e project v filters des is 26 MGI and biosol	vill provide signed for D), and bi	e an additi phosphor osolids ha	ional aera ous remo indling sy	ation oval /stem	% Project Completion: C-83% Est. Completion Date: April 2015 H. Map Map Reference Code:	
Service Area Seneca Creek D													
JUSTIFICATION	-												
Plans & Studies													
ENR Alternatives for the Seneca Environment, Feasibility Study A Criteria Report (November 2008) Specific Data	pproval Le										gn		
The planned improvements at th with the reduction goals under th permit goal of 0.18 mg/l at the m	e Chesap	eake Bay	2000 Ag	reement.	The desig	gn provid	es for pho					MAP NOT AVAILABLE	
Cost Change													
Not applicable.	C Contract		1260805	`									
OTHER		1 NO. CD4	r2000003,)-									
The project scope has remained	the same	. The exp	oenditures	s and sche	edule proi	ections s	hown in B	lock B ar	e based u	pon actua	al bid.		
COORDINATION		/4											
Montgomery County Governmen Environment and WSSC Project							tection, N	aryland D)epartmen	t of the			
NOTE This project supports 100%	,												

CABIN BRANCH AREA PROJECTS (costs in thousands)

PROJECT		ADOPTED FY'15	ADOPTED FY'16	CHANGE	CHANGE	SIX-YEAR	COMPLETION
NUMBER	PROJECT NAME	TOTAL COST	TOTAL COST	\$	%	COST	DATE (est)
S-84.47	Clarksburg Triangle Outfall Sewer, Part 2	\$2,539	\$2,539	\$0	0.0%	\$631	Developer Dependent
S-84.60	Cabin Branch Wastewater Pumping Station	2,342	2,342	0	0.0%	2,317	Developer Dependent
S-84.61	Cabin Branch WWPS Force Main	424	424	0	0.0%	407	Developer Dependent
	TOTALS	\$5,305	\$5,305	\$0	0.0%	\$3,355	

Summary: This group of Development Services Process (DSP) projects is programmed to serve new development in the Clarksburg area west of Route 355, including the Clarksburg Triangle and Cabin Branch areas. The need for these projects was identified in the Stage 3 requirements of the Clarksburg Master Plan and Hyattstown Special Study Area reports. Estimated completion schedules are dependent upon the property developers' schedules. No WSSC rate supported debt will be used for these projects. The projects that will impact local wetlands will be coordinated with the Maryland-National Capital Park & Planning Commission, Montgomery County Department of Environmental Protection, Maryland Department of the Environment, Maryland Department of Natural Resources, and the U.S. Fish & Wildlife Service. The individual project description forms on the pages following this summary provide additional information.

Cost Impact: Not applicable.

A. Identification and Coding Inform	nation		2. Dat	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (0	FY of Impact
1. Project Number Agency Number	Update	Code			, ,							Program Costs Staff	
023811 S-84.47	Change		Revis	eu.								Other Facility Costs Maintenance	 140 18
3. Project Name: Clarksburg Triangle	e Outfall S	ewer, Pa	rt 2				5.Agency:	W	SSC			Debt Service	
4. Program: Sanitation 6	6. Planning	g Area:	Clarks	sburg & V	icinity P.A	A. 13						Total Costs Impact on Water or Sewer Rate	140 18
В.		E	xpenditu	re Sched	lule (000'	s)						F. Approval and Expenditure Data (00	0's)
	(8)	(9) Thru	(10)	(11) Tatal	(12)	(13)	(14)	(15)	(16)	(17)	(18) Devend		,
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program	FY 02
Planning, Design & Supervision	470	226	230	14	12	2						Date First Approved	FY 02
Land												Initial Cost Estimate	22
Site Improvements & Utilities												Cost Estimate Last FY	2,539
Construction	1,885	900	450	535	471	64						Present Cost Estimate	2,539
Other	184		102	82	72	10						Approved Request, Last FY	445
Total	2,539	1,126	782	631	555	76						Total Expenditures & Encumbrances	1,126
С.			Funding	Schedu	le (000's)			1		1		Approval Request FY 16	555
Contribution/Other	2,539	1,126	782	631	555	76						Cumplemental Annual Deguart	
D. Description & Justification												Supplemental Approval Request Current FY (15)	
DESCRIPTION													
This project provides for the plan	nina desi	on and c	onstructio	on of appr	oximately	4 200 fe	et of 24-in	ch 1450	feet of 21	-inch 16	370 feet	G. Status Information	
of 18-inch, and 580 feet of 15-inc												Land Status: Right-of-Way	may be required
Old Baltimore Road. This sewer												% Project Completion: C-70%	
potentially serve Clarksburg Deve		-	as specifie	ed in the 1	994 Clark	ksburg M	aster Plan	•				Est. Completion Date: Developer De	pendent
Service Area Seneca Creek Dr	rainage Ba	asin	Capac	ity 10.8 l	MGD		Popula	tion 16,8	500			H. Map Map Reference Code:	
													CARNING L
Plans & Studies Clarksburg Master Plan and Hya	ttatawa Sr	nonial Stu	dy Aroa (1004)· M	ontaomor	v Count		Popolution	Numbor	14 770. 1	Votor	GATEWA	355 FARMS
and Sewer Plan Service Area Ma												(84.47) Christian Commo	EST3 an
3 and 4 Area Facility Plan, Rodge	ers Consu	Iting (Dec	cember 20	004); Ten	Mile Cree	ek Area L	imited Ma	ster Plan	(2014).	-	-	GATEWAY	1º1
Specific Data												ausern	the second
The Cabin Branch neighborhood	includes (Clarksbur	g Triangle	e and othe	er Stage 3	s properti	es west of	I-270 and	d east of C	Clarksburg	g Road.	CABIN BRANCH	Long PIONETE Detallarg
Cost Change												BRANCH E	A HILLS Lathslang
Not applicable.			22200000			F000740							and the second
STATUS Under Construction (WSSC	Contract	I NOS. DA	3326D02	, DA3320	HUZ, DA	5030213	<i>)</i> .						HE MEROOWS AT HURLEY RIDGE
OTHER The project scope has remained	the same	Tho ovn	ondituros	and scho	dulo proie	octions s	hown in RI	ock B aro	based un	on inform	nation		
provided by the developer. Desig													A Star
completion date is developer dep													a still a
<u>COORDINATION</u>													ROAD THE BOARD
Maryland-National Capital Park 8												LO BALTIMORE	SUMMERFIELD STAT
Department of the Environment (Service and WSSC Projects S-84													
Parts 1, 2 & 3.			.angle Ou		.,		, olun		ca cluge				WATERCHOLLOW ID
NOTE This project supports 100%	6 Growth.											231NW13	1 inch = 3,333 feet

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1. 201	14	7. Pre PD	F Pg.No.	: 8. Req	. Adeq. P	ub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Number	Update	Code			,							Program Costs Staff
023807 S-84.60	Change	•	Revis	ea:								Other Facility Costs Maintenance
3. Project Name: Cabin Branch Was	stewater P	umping S	station				5.Agency:	W	SSC			Debt Service
4. Program: Sanitation	6. Planning	g Area:	Clark	sburg & V	icinity P.A	A. 13						Total Costs
												Impact on Water or Sewer Rate
В.	1	E	Expenditu	ire Schec	lule (000'	s)		1	1		-	F. Approval and Expenditure Data (000's)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program FY 02
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	
Planning, Design & Supervision	483	12	11	460	75	315	5 70					Date First Approved FY 02
Land												Initial Cost Estimate 22
Site Improvements & Utilities												Cost Estimate Last FY 2,342
Construction	1,555			1,555	315	1,047	7 193					Present Cost Estimate 2,342
Other	304		2	302	59	204	4 39					Approved Request, Last FY 449
Total	2,342	12	13	2,317	449	1,566	5 302					Total Expenditures & Encumbrances 12
C.			Funding	g Schedu	le (000's)							Approval Request FY 16 449
Contribution/Other	2,342	12	13	2,317	449	1,566	302					Supplemental Approval Request
D. Description & Justification												Current FY (15)
DESCRIPTION												G. Status Information
Service Area Seneca Creek E JUSTIFICATION Plans & Studies Clarksburg Master Plan and Hya	Ū		·	:ity 0.9 M (1994): M		v Count	·	i tion 1,5 Resolutior		14-772: \	Nater	Est. Completion Date: Developer Dependent H. Map Map Reference Code:
Clarksburg Master Plan and Hya and Sewer Plan Service Area M 3 and 4 Area Facility Plan, Rodg Letter of Findings #6 (Septembe	ap Amend Jers Const	ments for	the Clark	sburg Ma	ster Plan	Area (A	dopted Fel	oruary 13	, 2001); C	larksburg	Stages	84.60
Specific Data												
The Cabin Branch neighborhood	d includes	Clarksbur	rg Triangle	e and othe	er Stage 3	8 propert	ies west of	I-270 an	d east of	Clarksbur	rg Road.	TO RANDERT
Cost Change												-
Not applicable.												
STATUS Facility Planning (WSSC 0	Contract N	os. CP33	26A02 , C	CP3326B0	02).							(121)
OTHER The project scope has remained provided by the developer. Esti project.												WEST
COORDINATION												14300 13600 13600
Maryland-National Capital Park Department of the Environment Service and WSSC Projects S-8	(Non-Tida	l Wetland	s Permit)	, Maryland	d Departm	nent of N	latural Res	ources, L	J.S. Fish	and Wildli	fe	
NOTE This project supports 100	% Growth.											230NW13 BLACK 1" = 2856 ft

A. Identification and Coding Inform	nation		2. Da	te: Octol	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	b. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Number	Update	Code	Revis		,							Program Costs Staff
023808 S-84.61	Change	:	Revis	eu.		_						Other Facility Costs Maintenance
3. Project Name: Cabin Branch WW	PS Force	Main					5.Agency:	W	SSC			Debt Service
4. Program: Sanitation 6	8. Plannin	g Area:	Clark	sburg & V	icinity P.A	. 13						Total Costs
В.		E	Expenditu	ire Sched	ule (000's	5)						F. Approval and Expenditure Data (000's)
	(8)	(9) Thru	(10)	(11) Tatal	(12)	(13) Xaar 2	(14)	(15)	(16)	(17)	(18) Devend	
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program FY 02
Planning, Design & Supervision	90		15	75	27	45	3					Date First Approved FY 02
Land												Initial Cost Estimate 22
Site Improvements & Utilities												Cost Estimate Last FY 424
Construction	279			279	97	164	18					Present Cost Estimate 424
Other	55		2	53	19	31	3					Approved Request, Last FY 143
Total	424		17	407	143	240	24					Total Expenditures & Encumbrances
С.		1	Funding	Schedul	e (000's)				1	1		Approval Request FY 16 143
Contribution/Other	424		17	407	143	240	24					Supplemental Approval Request
D. Description & Justification												Current FY (15)
DESCRIPTION												
This project provides for the plan												G. Status Information Land Status: Right-of-Way may be required
Branch Wastewater Pumping Sta Stage 3 of the Clarksburg plannir				ing statior	h and forc	e main w	vill provide	service to	o new dev	elopment	in	Land Status: Right-of-Way may be required % Project Completion: P-100%
Service Area Seneca Creek Dr	-			ity 0.9 M	GD		Popula	tion 1,55	50			Est. Completion Date: Developer Dependent
JUSTIFICATION				,								
Plans & Studies												H. Map Map Reference Code:
Clarksburg Master Plan and Hya												
and Sewer Plan Service Area Ma 3 and 4 Area Facility Plan, Rodge												
Letter of Findings #6 (September							20202 000	Jin Brano				(84.61)
Specific Data												
The Cabin Branch neighborhood	includes	Clarksbu	rg Triangle	e and othe	er Stage 3	properti	es west of	I-270 and	d east of (Clarksburg	g Road.	co
Cost Change												
Not applicable.												
STATUS Planning												
OTHER The second second second second	4	T I:	114				h in D					
The project scope has remained provided by the developer. Estin	nated con	npletion d	ate is dev	eloper de	equie proje pendent.	No WSS	Shown in B SC rate su	ock B are	e based u ebt will be	used for	this	
project. Land costs are included	in WSSC	Project S	5-203.00.									WEST OLD
COORDINATION		. .							. :			14.000
Maryland-National Capital Park 8 Department of the Environment (Service and WSSC Projects S-84	Non-Tida	Wetland	s Permit)	Maryland	Departm	ent of Na	atural Res	ources, U	.S. Fish a	nd Wildlif	e	
and S-84.60, Cabin Branch Wast	tewater P	umping S	tation.		,	,	, 2.3.10000	gangr		, i u		230NW13
NOTE This project supports 100%	6 Growth.											230NW13
]	

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update	Code	Revis		, .							Program Costs Staff	
083803 S-84.65	Change			eu.								Other Facility Costs Maintenance	
3. Project Name: Tapestry Wastewa	ater Pumpi	ing Statior	ו				5.Agency:	W	SSC			Debt Service	
4. Program: Sanitation	6. Plannin	g Area:	Clark	sburg & V	icinity P.A	. 13						Total Costs Impact on Water or Sewer Rate	
В.		E	xpenditu	ire Schec	lule (000':	s)						F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond		EV 00
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17		FY '19	FY '20	FY '21	6 Years	Date First in Capital Program	FY 08
Planning, Design & Supervision	114	7	42	65	33	32	2					Date First Approved	FY 08
Land												Initial Cost Estimate	552
Site Improvements & Utilities												Cost Estimate Last FY	683
Construction	481		159	322	161	161	I					Present Cost Estimate	683
Other	88		30	58	29	29)					Approved Request, Last FY	223
Total	683	7	231	445	223	222	2					Total Expenditures & Encumbrances	7
С.	-1		Funding	Schedu	le (000's)				4 4			Approval Request FY 16	223
Contribution/Other	683	7	231	445	223	222	2					Supplemental Approval Request	
D. Description & Justification		1 1			L L			1	4 4			Current FY (15)	
DESCRIPTION													
This project provides for the plan	nning, des	ign, and c	onstructio	on of a 0.2	23 MGD w	astewat	er pumping	station f	to serve the	e Tapesti	ry	G. Status Information	
Subdivision.	-	-						-			-	Land Status: Site provided by applie	cant
Service Area Seneca Creek D	Drainage B	asin	Capac	ity 0.23	MGD		Popula	tion 590)			% Project Completion: P-100% Est. Completion Date: Developer Dependent	
JUSTIFICATION												Est. Completion Date. Developer Dependent	
Plans & Studies	Lludroulio	Dianning	Analysia	and Lattor	of Finding		larah 2014	`				H. Map Map Reference Code:	
Tapestry Subdivision Amended	Hydraulic	Planning A	Analysis a	and Letter	or Finding	js #∠ (iv	arch 2014).				Producting Protocols	- E
												Anter Steeler	Branc
Cost Change												more to the second second	- BOSHER
Not applicable.												84.65	124
STATUS Planning (WSSC Contract	t Nos. DA3	3993Z04,	CP39934	\04) .								GREEARDOLE SING VARIA	10 the
OTHER												Net novo	
The project scope has remained												DOOTC /	
provided by the developer. Estimproject.	mated con	npletion da	ate is dev	eloper de	pendent.	No WS	SC rate su	pported d	ebt will be	used for	this	44010 V	20
												Present Participation of the P	in W
Montgomery County Governmer	nt Local C	Community	Civic As	sociations	and WS	SC Proie	ect S-84 66	Tapest	v WWPS I	Force Ma	ain	The state of the s	BRINKWOOD EST3
NOTE This project supports 100 ^o				ooolation				, rupoou	,	0100 110		and the second	FREE
												The same of the sa	Start L
												Standard Carried Standard Standard	TRECIAL PARE
												Enh 16 Carrier Control	
												230NW09 PELSYLAL Press 22 10 11 11 11	1779 ft
												in the former of the second	

A. Identification and Coding Inform	nation		2 Da	te [.] Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (00	IO's) FY of Impact
1. Project Number Agency Number	Update	Code			,							Program Costs Staff	
083804 S-84.66	Change	9	Revis	eu.		-						Other Facility Costs Maintenance	 38 18
3. Project Name: Tapestry WWPS F	orce Mair	า					5.Agency	: W	SSC			Debt Service	
4. Program: Sanitation	6. Plannin	g Area:	Clark	sburg & V	icinity P.A	. 13						Total Costs Impact on Water or Sewer Rate	38 18
В.		E	Expenditu	ire Sched	ule (000's	;)						F. Approval and Expenditure Data (000	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 08
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		
Planning, Design & Supervision	26	8	5	13	8	5						Date First Approved	FY 08
Land												Initial Cost Estimate	110
Site Improvements & Utilities												Cost Estimate Last FY	134
Construction	91		34	57	32	25						Present Cost Estimate	134
Other	17		6	11	6	5						Approved Request, Last FY	46
Total	134	8	45	81	46	35						Total Expenditures & Encumbrances	8
С.	•	0	Funding	Schedu	e (000's)				•			Approval Request FY 16	46
Contribution/Other	134	8	45	81	46	35						Supplemental Approval Request	
DESCRIPTION This project provides for the plan Subdivision. Service Area Seneca Creek D JUSTIFICATION Plans & Studies Tapestry Subdivision Amended D Cost Change Not applicable. STATUS Preliminary Design (WSSC OTHER The project scope has remained provided by the developer. Estim project. COORDINATION Montgomery County Governmer Community Civic Associations a NOTE This project supports 1005	Analysis a 9993B04,) penditures late is dev al Capital	Popu and Letter). s and sch eloper de Park & Pl	of Finding edule proje pendent.	590 Is #2 (M ections s No WSS mmissic	arch 2014 shown in E SC rate su	l). Block B ard pported d	e based u ebt will be	pon inforr used for	mation this	% Project Completion: D-0% Est. Completion Date: Developer Dep H. Map Map Reference Code:	nay be required pendent		

A. Identification and Coding Inform	nation		2 Dat	te [.] Octo	ber 1, 201	4	7. Pre PD	F Pg.No.	: 8. Req.	Adeq. P	ub. Fac.	E. Annual Operating Budget Impact (00	0's) FY of Impact
. Project Number Agency Number	Update 0	Code			,							Program Costs Staff	
53800 S-85.21	Change		Revis	ea:								Other Facility Costs Maintenance	 74 18
8. Project Name: Shady Grove Station	on Sewer A	Augment	ation				5.Agency:	W	ISSC			Debt Service	
A. Program: Sanitation 6	8. Planning) Area:	Gaith	ersburg &	Vicinity P	.A. 20						Total Costs Impact on Water or Sewer Rate	74 18
B.		E	xpenditu	re Sched	lule (000's	5)						F. Approval and Expenditure Data (000	s)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	, FY 15
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		
Planning, Design & Supervision	47	11	15	21	11	10)					Date First Approved	FY 15
and												Initial Cost Estimate	2,254
Site Improvements & Utilities												Cost Estimate Last FY	2,254
Construction	1,914		250	1,664	1,022	642	!					Present Cost Estimate	2,254
Other	293		40	253	155	98						Approved Request, Last FY	723
otal	2,254	11	305	1,938	1,188	750)					Total Expenditures & Encumbrances	11
С.			Funding	Schedul	e (000's)							Approval Request FY 16	1,188
Contribution/Other	2,254	11	305	1,938	1,188	750)					Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
These sewers will replace existin manhole approximatley 300 feet Service Area Rock Creek Drai USTIFICATION Plans & Studies Due to development density prop Specific Data The new 15-inch and 18-inch dia Cost Change Not applicable. STATUS Final Design (WSSC Contr DTHER The project scope has remained provided by the developer. Estin project. COORDINATION Montgomery County Department MOTE This project supports 1009	Southeast nage Basir posed in D/ meter sew ract Nos. D the same. mated com	of Redla n A5409Z1 vers will s DA5409Z The exp npletion c	nd Road. Capac 2, the pro serve the a 12 , DA54 penditures date is dev	ity 1.0 - 3 jected pe area enco 09A12 , [and sche veloper de	3.0 mgd ak wastev mpassed DA5409P1 dule proje	vater flow by Shad 2). ections s No WS	Popula w exceeds ly Grove R hown in Bl SC rate su	tion 5,5 the capa oad, I-37 ock B are pported	acity of exi 70 and CS e based u debt will b	sting sew X Railroa Doon infor	vers. id. mation	Land Status: Right-of-Way n % Project Completion: D-50% Est. Completion Date: Developer Dep H. Map Map Reference Code: Map Suburban Completion Store Code: Suburban Completion Service Central Code County Code Service Central Code County Code Service Central Code County Code Service Central Code Code Store Code Central Code Code Code Central Code Central Code Code Central Code Central Code Central Code Code Central Code Central Code Central Code Central Code Central Central Code Central Central Code Central Code Central Centr	AND

A. Identification and Coding Inform	nation	2. Dat	e: Octol	per 1, 201	4	7. Pre PD	Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact	act
1. Project Number Agency Number	Update Code			- , -							Program Costs Staff	
153801 S-103.16	Change	Revise	eu.								Other	19
3. Project Name: Cabin John Trunk	Sewer Relief					5.Agency:	W	SSC			Debt Service	
4. Program: Sanitation	6. Planning Area:	Bethe	sda-Chev	y Chase &	& Vicinity	y P.A. 35					Total Costs 50 Impact on Water or Sewer Rate	19
В.		Expenditu									F. Approval and Expenditure Data (000's)	
Cost Elements	(8) (9) Thru Total FY '14	(10) Estimate FY '15	(11) Total 6 Years	(12) Year 1 FY '16	(13) Year 2 FY '17	(14) Year 3 FY '18	(15) Year 4 FY '19	(16) Year 5 FY '20	(17) Year 6 FY '21	(18) Beyond 6 Years	Date First in Capital Program FY 1.	4
Planning, Design & Supervision	1,145	388	757	378	369		1110	11 20		0 Touro	Date First Approved FY 1	4
Land											Initial Cost Estimate 7,999	9
Site Improvements & Utilities											Cost Estimate Last FY 7,999	9
Construction	5,811		5,811	1,937	1,937	1,937					Present Cost Estimate 7,999	9
Other	1,043	58	985	347	346	292					Approved Request, Last FY 2,666	6
Total	7,999	446	7,553	2,662	2,652	2,239					Total Expenditures & Encumbrances	
C.		Funding	Schedul	e (000's)				1			Approval Request FY 16 2,662	2
Contribution/Other	7,999	446	7,553	2,662	2,652	2,239					Supplemental Approval Request	
D. Description & Justification		1 1		1				I	I	1]	Current FY (15)	
This project provides for the plar Service Area Cabin John Drai JUSTIFICATION Plans & Studies Mid-Pike Plaza Hydraulic Planni Cost Change Not applicable. STATUS Planning (WSSC Contract OTHER The project scope has remained provided by the developer. Estir project. COORDINATION Maryland-National Capital Park & Department of the Environment, Phase 1 and S-25.05, Mid-Pike I NOTE This project supports 1005	nage Basin ng Analysis (March Nos. DA5238Z11 I the same. The ex mated completion of & Planning Commi Maryland Departn Plaza Sewer Main,	n, 2012). , DA5238H openditures date is deve ssion, Mon nent of Natu	11). and sche eloper dep	edule proje pendent. County De	ections s No WSS	Car shown in B SC rate sup nt of Enviro	lock B are ported do	9.37 to 36 e based u ebt will be	pon inform used for	mation this	Land Status: Land & R/W to be acquired. % Project Completion: D-20% Est. Completion Date: Developer Dependent. H. Map Map Reference Code: 103.16 100 103.16 103.16 100 100 103.16 100 100 100 100 101 100 100 101 101 100 101 102 100 102 103 100 103 100 100 100 100 100 101 101 100 102 102 100 103 103 100 103 100 100 100 100 100 101 102 <p< th=""><th></th></p<>	

PROJECTS PENDING CLOSE-OUT Montgomery County Sewer Projects (costs in thousands)

Project Number	Agency Number	Project Name	Estimated Total Cost	Expenditures Thru FY'14	Estimated Expenditures FY'15	Remarks
073801	S-94.12	Damascus WWTP Enhanced Nutrient Removal	\$7,485	\$7,318	\$167	Project completion expected in FY'15.
983854	S-201.00	Land & Rights-of-Way Acquisition - Montgomery County	0	0	0	All land costs are consolidated in Bi-County Sewer.
		TOTALS	\$7,485	\$7,318	\$167	

Section 3 - Bi-County Water Projects

DATE: October 1, 2014

FINANCIAL SUMMARY

	BI-COUNT	Y WATER PROJECTS	(ALL FIG	GURES IN TH	OUSANDS)									
	AGENCY	PROJECT	EST.	EXPEND	EST.	TOTAL			ENDITUR	E SCHED	ULE		BUDGET	PDF
	NUMBER	NAME	TOTAL COST	THRU 14	EXPEND 15	SIX YEARS	YR 1 16	YR 2 17	YR 3 18	YR 4 19	YR 5 20	YR 6 21	REQUEST 16	PAGE NUM
		Potomac WFP Outdoor Substation No. 2 Replacement	14,636		439	12,706	5,258	5,258	2,190	0	0	0	5,258	3-3
	W-73.21	Potomac WFP Corrosion Mitigation	15,556	760	8,668	6,128	5,165	963	0	0	0	0	5,165	3-4
	W-73.22	Potomac WFP Pre-Filter Chlorination & Air Scour Improvements	7,176	232	2,263	4,681	253	2,706	1,722	0	0	0	253	3-5
	W-73.30	Potomac WFP Submerged Channel Intake	82,638	3,438	440	78,760	1,100	8,690	23,100	22,000	20,350	3,520	1,100	3-6
	W-73.32	Potomac WFP Main Zone Pipeline	34,670	458	440	33,772	440	220	5,528	11,028	11,028	5,528	440	3-8
	W-127.01	Bi-County Water Tunnel	144,258	133,789	9,346	1,123	1,123	0	0	0	0	0	1,123	3-9
	W-139.02	Duckett & Brighton Dam Upgrades	16,950	9,104	2,488	5,358	670	2,679	2,009	0	0	0	670	3-12
32	W-161.01	Large Diameter Water Pipe Rehabilitation Program	411,331	54,895	35,617	320,819	48,293	58,182	54,393	53,317	53,317	53,317	48,293	3-13
	W-172.05	Patuxent WFP Phase II Expansion	65,611	6,578	11,537	47,496	14,372	15,510	12,162	5,452	0	0	14,372	3-16
	W-172.07	Patuxent Raw Water Pipeline	23,616	9,094	605	13,917	3,095	1,372	4,355	5,095	0	0	3,095	3-18
	W-172.08	Rocky Gorge Pump Station Upgrade	17,932	4,282	110	13,540	6,205	6,771	564	0	0	0	6,205	3-19
	W-202.00	Land & Rights-of-Way Acquisition - Bi-County	5,676	0	4,253	1,423	1,125	225	25	20	18	10	1,125	3-20
		Projects Pending Close-Out	15,397	13,880	1,517	0	0	0	0	0	0	0	0	3-21
		TOTAL BI-COUNTY WATER PROJECTS	855,447	238,001	77,723	539,723	87,099	102,576	106,048	96,912	84,713	62,375	87,099	



Denotes projects which include an environmental component (see page 15 in the opening narrative.)

POTOMAC WATER FILTRATION PLANT PROJECTS (costs in thousands)

PROJECT NUMBER	PROJECT NAME	ADOPTED FY'15 TOTAL COST	ADOPTED FY'16 TOTAL COST	CHANGE \$	CHANGE %	SIX-YEAR COST	COMPLETION DATE (est)
W-73.19	Potomac WFP Outdoor Substation No. 2 Replacement	\$15,572	\$14,636	(\$936)	-6.0%	\$12,706	December 2017
W-73.21	Potomac WFP Corrosion Mitigation	18,164	15,556	(2,608)	-14.4%	6,128	December 2016
W-73.22	Potomac WFP Pre-Filter Chlorination & Air Scour Improvements	7,935	7,176	(759)	-9.6%	4,681	February 2018
W-73.30	Potomac WFP Submerged Channel Intake	28,433	82,638	54,205	190.6%	78,760	FY 2021
	TOTALS	\$70,104	\$120,006	\$49,902	71.2%	\$102,275	

Summary: This group of projects represents operational improvements to the Potomac Water Filtration Plant (WFP) in Montgomery County. The Potomac WFP Outdoor Substation No. 2 Replacement project (W-73.19) provides for the replacement of the Outdoor Substation No. 2 (OSS-2) at the Potomac Water Filtration Plant which is over 30 years old and contains 5kV switchgear that houses air magnetic breakers which are obsolete. The Potomac WFP Corrosion Mitigation (W-73.21) provides for upgrading/replacing existing metallic components in the eight sedimentation basins due to accelerated corrosion, along with upgrading components in the rapid mix and flocculation processes. The Potomac WFP Pre-Filter Chlorination & Air Scour Improvements project (W-73.22) provides for a pre-filter chlorination system and evaluation of retrofitting an air scour system into existing plant filters to improve the performance of the underdrain system. The Potomac WFP Submerged Channel Intake project (W-73.30) will provide an additional barrier against drinking water contamination, enhance reliability, and reduce treatment costs by drawing water from a location with a cleaner, more stable water quality. The Potomac WFP Disinfection Byproducts Rule Implementation project (W-73.20) was completed and included on the close out list.

<u>Cost Impact</u>: Costs were decreased based on updated construction cost estimate (W-73.19), more definitive Engineer's estimates (W-73.21) and execution of design contract (W-73.22). The Potomac WFP Submerged Channel Intake (W-73.30) increased based on the November 2013 Draft Feasibility Study Report.

A. Identification and Coding Inform	nation		2. Da	te: Octol	per 1, 201	4 7	7. Pre PDI	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Number	Update		Revis	od:	,							Program Costs Staff
113802 W-73.19	Change											Other Facility Costs Maintenance
3. Project Name: Potomac WFP Out	tdoor Subs	station No	o. 2 Repla	cement		5	5.Agency:	W	SSC			Debt Service 1071 19
4. Program: Sanitation 6	6. Planning	g Area:	Bi-Co	ounty								Total Costs 1071 19 Impact on Water or Sewer Rate 2¢ 19
												Impact on water or Sewer Rate 2¢ 19
В.				ire Sched						1		F. Approval and Expenditure Data (000's)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program FY 11
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	
Planning, Design & Supervision	2,441	1,491	32	918	380	380	158					Date First Approved FY 11
Land												Initial Cost Estimate 7,934
Site Improvements & Utilities												Cost Estimate Last FY 15,572
Construction	11,000		367	10,633	4,400	4,400	1,833					Present Cost Estimate 14,636
Other	1,195		40	1,155	478	478	199					Approved Request, Last FY 4,785
Total	14,636	1,491	439	12,706	5,258	5,258	2,190					Total Expenditures & Encumbrances 1,491
C.	4 4	I	Funding	schedul	e (000's)				I			Approval Request FY 16 5,258
WSSC Bonds	14,636	1,491	439		5,258	5,258	2,190					
D. Description & Justification			1									Current FY (15)
DESCRIPTION												
This project provides for the plar motor control centers (MCCs) loo 30 years old and contains 5kV so old, and the manufacturer is no l	cated in th witchgear	ne Raw W that hous	/ater Pum ses air ma	ping Statio	on No. 1 a akers whi	t the Pote ch are ob	omac Wa solete. T	ter Filtrati	on Plant.	OŚS-2 is	s over	Land Status:Public/Agency owned land% Project Completion:D-100%Est. Completion Date:December 2017
JUSTIFICATION												H. Map Map Reference Code:
Plans & Studies												
Energy Performance Project, Ph visits and meetings at Potomac t ESG).												
Specific Data	onoo Droio	ot include	ad anaina	oring and	nlonning	of aquina	ant and	noration	unarada	a ta dava	lon on	
Specific Data The Phase ID - Energy Performance Project included engineering, and planning of equipment and operations upgrades to develop an energy efficient and guaranteed savings program to upgrade/replace pumps at the Potomac Raw Water Pumping Stations (RWPS) #1 and #2, and upgrade Main Zone pump #3. Subsequent tests and inspections of OSS-2 serving RWPS #1 and #2 resulted in a report indicating that OSS-2 was unsafe and in poor condition, and that WSSC should move in an expeditious manner to replace the switchgear in its entirety. Industry practice is to replace 5 kV switchgear between 25 and 30 years old, when in an environment with airborne chemicals. The old breakers in OSS-2 have misalignment problems, and the switchgear housing is corroded, which can pose safety risks to the plant electrical and mechanical maintenance staff as well as the operators.										/PS) #1 report with	MAP NOT APPLICABLE	
Cost Change												
Total project cost has decreased	d based or	n updated	l construc	tion cost e	stimate.							
STATUS Final Design Complete (W	SSC Cont	tract No.	BF5157A	10,).								
OTHER The project scope has remained and may change based upon fina		e. Expend	iture and	schedule p	projections	s shown i	n Block B	above ar	e design	level estir	mates	
COORDINATION												
WSSC Project A-103.00, Energy	y Performa	ance Prog	gram.									
NOTE This project supports 100%	% System	Improver	nent.									

A. Identification and Coding Inform	2. Da	te: Octol	ber 1. 201	4	7. Pre PD	F Pg.No.:	E. Annual Operating Budget Impact (000's) FY of Impact					
1. Project Number Agency Number	Update Cod			, ,							Program Costs Staff	
143802 W-73.21	Change		eu.								Other Facility Costs Maintenance	
3. Project Name: Potomac WFP Co	rrosion Mitigat	tion			:	5.Agency:	W	SSC			Debt Service	1250 18
4. Program: Sanitation	6. Planning Are	rea: Bi-Co	ounty								Total Costs Impact on Water or Sewer Rate	1250 18
												3¢ 18
В.		Expenditu									F. Approval and Expenditure Data (00	J's)
		(9) (10) Thru Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 14
Cost Elements	Total FY	Y '14 FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 14
Planning, Design & Supervision	1,210	760 180	270	195	75						Initial Cost Estimate	
Land												7,443
Site Improvements & Utilities											Cost Estimate Last FY	18,164
Construction	13,000	7,700	5,300	4,500	800						Present Cost Estimate	15,556
Other	1,346	788	558	470	88						Approved Request, Last FY	7,590
Total	15,556	760 8,668	6,128	5,165	963						Total Expenditures & Encumbrances	760
C .		Funding	g Schedul	e (000's)							Approval Request FY 16	5,165
WSSC Bonds	15,556	760 8,668	6,128	5,165	963						Supplemental Approval Request	
D. Description & Justification											Current FY (15)	
This project provides for the plar eight Sedimentation Basins due Coagulation Program in 2008. T anticipation of the Ferric Chlorid the existing metallic components JUSTIFICATION Plans & Studies Technical Memorandum No. 1 - Sedimentation Basin Corrosion 5 Specific Data Sedimentation Basin componen chains and pipe support bracket possibly for extended periods of system may need to recover qui materials will help maintain the i sprockets, chains for the cross of Cost Change The decrease in cost is a result STATUS Final Design Complete (W	to accelerated The project will e Feed System s. Impact of Ferr Study, Hatch M ts, such as val s, are all essen time. This con ickly, as in the ntegrity of our collector drive, of a more defin	d corrosion obs I also upgrade m Project comp ric Chloride on Mott MacDonal live hardware, p ential elements. ould hinder the case of a majo system. The p augers, auger	erved sinc componer letion that Existing F d, (July 20 bipe coupli Failure c Commissio or water m broject also shafts, an	e the imp its in the f will introc acilities, F 10). ngs, oper ould mean on's ability ain break. o includes d auger c	elementat Rapid Mi duce a co Hazen an ator exte n losing i y to meet . Replac s the repla	tion of the x and Floc bagulant th d Sawyer nsions, cr mportant t water suj ing the mo	full-scale culation p nat is not o , (May 20 oss beam and signif oply dema etallic con	Low pH E rocess ar compatible 10); Potor s, cross c icant proc inds, parti ipponents	inhanced eas in e with sev nac ollector d ess capa cularly wi with comp	veral of lrive city, hen the	Land Status: Not applicable % Project Completion: D-100% Est. Completion Date: December 20 H. Map Map Reference Code: MAP NOT APPLIC	16
OTHER The project scope has remained and may change based on site-s COORDINATION WSSC Project W-73.20, Potoma NOTE This project supports 1005	the same. Expecific conditi specific conditi ac WFP Stage	xpenditures an ions and actua e 2 Disinfection	d schedule I bid.					-		timates		

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4 7	7. Pre PDF	Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Number	Update				,	- -						Program Costs Staff
143803 W-73.22	Change		Revis	ea:								Other
3. Project Name: Potomac WFP Pre	e-Filter Chl	orination	& Air Sco	our Improv	rements	5	5.Agency:	W	SSC			Debt Service
4. Program: Sanitation	6. Planning	g Area:										Total Costs
												Impact on Water or Sewer Rate 1¢ 19
В.		E	Expenditu	ire Schec	lule (000':	s)						F. Approval and Expenditure Data (000's)
	(8)	(9) Than	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program FY 14
Planning, Design & Supervision	1,270	232	668	370	20	214	136					Date First Approved FY 14
Land												Initial Cost Estimate 5,602
Site Improvements & Utilities												Cost Estimate Last FY 7,935
Construction	5,000		1,300	3,700	200	2,139	1,361					Present Cost Estimate 7,176
Other	906		295	611	33	353	225					Approved Request, Last FY 767
Total	7,176	232	2,263	4,681	253	2,706	1,722					Total Expenditures & Encumbrances 232
С.			Funding	Schodu	le (000's)							Approval Request FY 16 253
U. WSSC Bonds	7,176	232	2,263	4,681	253	2,706	1,722					
	.,	202	2,200	1,001	200	2,100	.,					Current FY (15)
D. Description & Justification												Current FT (15)
DESCRIPTION												G. Status Information
This project provides for the plan											n	Land Status: Not Applicable
Plant. It also includes evaluation construction of an appropriate sy	stem if the	ung an a e evaluat	ion deem	s it favora	ble for imr	ng piani i Nementat	fillers, and	r the plan	ning, desi	ign and		% Project Completion: D-0%
		e evaluat										Est. Completion Date: February 2018
JUSTIFICATION												
Plans & Studies												H. Map Map Reference Code:
Engineering Standard - I. M. S.												
(April 2009). Memo from John (water, Leo	pold, Inc.	- Potoma	ac Filtratio	on Plant	
Visit April 2009 - to Joseph John Specific Data		IIIac Fiali	t Superin	lendent, (i	viay 2010),						
The Potomac Water Filtration Pl	ant has ex	nerience	d six sena	arate incid	ents of ca	tastrophi	c filter und	lerdrain f	ailures sir	nce Octob	her	
2006. Subsequent investigation												
ITT Leopold underdrain system	with an Inte	egral Mee	dia Suppo	ort (IMS) c	ap is not o	compatible	e with the	biologica	lly active	filters at f	the	
Potomac WFP. Cost Change												
Total project cost has decreased	d based or	o cost of a	evecuted	design co	ntract							MAP NOT APPLICABLE
STATUS Preliminary Design (WSS)				0	nuaci.							
	SCONTACT	NO. DI 5	559A12,)	-								
OTHER The project scope has remained	the same	Evnendi	iture and	schodulo	projection	e ehown i	in Block B	ahove ar	o nlannin	م امريما مع	timates	
and may change based on site-s						3 3110 WH 1	IT DIOCK D	above a		g level es	simates,	
COORDINATION												
Montgomery County Governmer	nt and Prin	ce Georg	e's Count	ty Govern	ment.							
NOTE This project supports 1009	% System	Improver	nent.									

A. Identification a	and Coding Inform	mation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number	Agency Number	Update	Code			,	- _						Program Costs Staff	
033812	W-73.30	Change	!	Revis	eu.								Other	
3. Project Name:	Potomac WFP Su	ubmerged (Channel li	ntake			į	5.Agency:	W	SSC			Debt Service 2198	
4. Program:	Sanitation	6. Planning	g Area:	Bi-Co	unty								Total Costs 2198 Impact on Water or Sewer Rate 4¢	
В.			E	xpenditu	re Sched	lule (000's	;)						F. Approval and Expenditure Data (000's)	
		(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
Cost Elements		Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program	FY 04
Planning, Design 8	& Supervision	8,738	3,438	400	4,900	1,000	1,200	1,000	1,000	500	200		Date First Approved	FY 03
Land													Initial Cost Estimate	936
Site Improvements	s & Utilities												Cost Estimate Last FY	28,433
Construction		66,700			66,700		6,700	20,000	19,000	18,000	3,000		Present Cost Estimate	82,638
Other		7,200		40	7,160	100	790	2,100	2,000	1,850	320		Approved Request, Last FY	1,076
Total		82,638	3,438	440	78,760	1,100	8,690	23,100	22,000	20,350	3,520		Total Expenditures & Encumbrances	3,438
С.				Funding	Schedu	e (000's)						1	Approval Request FY 16	1,100
WSSC Bonds		82,638	3,438	440	78,760	1,100	8,690	23,100	22,000	20,350	3,520		Supplemental Approval Request	
D. Description &	Justification												Current FY (15)	
DESCRIPTION													G. Status Information	
submerged ch Cryptosporidiu more stable w	1 5	rovide an a ell as to en	dditional I Ihance rel	parrier aga iability an	ainst drink	king water	contamir	nation (pa	rticularly (Giardia cy	sts and		Land Status:Right-of-Way may be rec% Project Completion:P-90%Est. Completion Date:FY 2021	luired
	Potomac WFP I	Pressure Z	one HGP	OWF									H. Map Map Reference Code:	
JUSTIFICATION	•													
Plans & Stud	emorandum No. 2	Water Oua	ality Nood	e Accocci	ment " O'F	Brien & Ce	re Engin	oors Inc	(Novemb	or 2001).	"Draft So	urce		
Water Assess	sment Study," Mar c. (September 200	yland Depa	artment of	the Envi	ronment (A	April 2002); "Potorr	nac WFP	Facility PI					
cleaner raw w	expected to pay for rater source. It als tocking the existing	so provides	for a mo	re reliable	supply by	y eliminatir	ng the cu	urrent prot	olems ass	ociated w	ith ice and	d		
Cost Change													MAP NOT AVAILABLE	
	e is based on cos					Draft Feas	ibility Stu	udy Repo	rt.					
STATUS Planning	g (WSSC Contrac	t Nos. BF2	028F97,	BF202819	97).									
series of briefi prior to comm Environmenta members, and and schedule	cope has remained ings with State leg encement of furth I Policy Act (NEP/ d the general publi projections showr oth Councils will re nay proceed.	gislators, Co ler enginee A) approva ic will be er n above are	ounty Cou ring work I process ngaged in e planning	As the p is underw an on-go level est	ibers, Cou planning p /ay, electe ing inform imates an	unty Execu rocess mo ed officials nation, outr d may cha	itive staff oves into , county reach an inge bas	f and Cou its final s governme d project ed on site	nty Counc tages and ent staffs, participatio	il staff wil the Natio environm on progra conditions	l be unde nal ental com m. Exper and desi	rtaken imunity nditure gn		

Agency Number: W - 73.30

Project Name: Potomac WFP Submerged Channel Intake

COORDINATION

Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission, National Park Service, Montgomery County Department of Environmental Protection, Maryland Department of the Environment, Maryland Department of Natural Resources, Prince George's County Department of Environmental Resources and U.S. Army Corps of Engineers.

A. Identification and Co	ding Information		2. Da	te: Octo	ber 1, 201	4 7	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (000's	FY of Impact
1. Project Number Agen	cy Number Update	e Code			,							Program Costs Staff	
133800 W-73			Revis	eu.								Other Facility Costs Maintenance	 28 22
3. Project Name: Potoma	ac WFP Main Zone	Pipeline				5	5.Agency:	W	SSC			Debt Service	77 22
4. Program: Sanita	tion 6. Planni	ng Area:	Potor	nac-Cabir	n John & ∖	/icinity P.	A. 29					Total Costs Impact on Water or Sewer Rate	105 22
В.		E	Expenditu	re Sched	lule (000's	5)						F. Approval and Expenditure Data (000's)	
	(8)	(9) Thur	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		514.40
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program	FY 13
Planning, Design & Supe	rvision 1,558	458	400	700	400	200	25	25	25	25		Date First Approved	FY 13
Land												Initial Cost Estimate	330
Site Improvements & Util	ities											Cost Estimate Last FY	1,125
Construction	30,000)		30,000			5,000	10,000	10,000	5,000		Present Cost Estimate	34,670
Other	3,112	2	40	3,072	40	20	503	1,003	1,003	503		Approved Request, Last FY	690
Total	34,670	458	440	33,772	440	220	5,528	11,028	11,028	5,528		Total Expenditures & Encumbrances	458
С.	÷		Funding	Schedu	e (000's)							Approval Request FY 16	440
WSSC Bonds	34,670	458	440	33,772	440	220	5,528	11,028	11,028	5,528		Supplemental Approval Request	
D. Description & Justifi	cation											Current FY (15)	
	diameter and 66-in gomery Main Pressi 20A, Prince George'	ch diamete ure Zone 4 s High Pre	er main wy 95A, Prino ssure Zor	e connec ce George le HG450	tions on R e's Main P A	iver Road	d. The pr	oject will i bacity Ap	nclude a ı oproximat	rock tunne ely 200 m	ngd	G. Status Information Land Status: Right-of-Way may % Project Completion: D-5% Est. Completion Date: FY 2021 H. Map Map Reference Code:	be required
Plan - 78 inch finishe Specific Data The existing 78-inch 66-inch diameter Riv Case recommended inch diameter wye co Cost Change Initial cost estimates	d water main redund diameter PCCP pipe er Road pipeline. Th a new 84-inch diam innection. In additio	dancy", O'E eline is the ne primary eter main b n the wye	Brien and major fee purpose o be installe connection	Gere Eng d to the 9 of this pro d from the n will be re	ineers, Ind 6-inch dia ject is to p Main Zor eplaced as	c. (Octobe meter Mo provide re ne pumpir s part of t	er 2013) ontgomery dundancy ng station his projec	County N for the e: to the 66	∕lain Zone kisting line -inch dian	e pipeline e. The Bu	and the siness	MAP NOT AVAILABLE	
STATUS Preliminary De	sign (WSSC Contra	ct No. BL5	285A11,)			-							
OTHER The project scope ha estimates and may of Project W-202.00 COORDINATION Maryland State High Government, Maryla NOTE This project su	hange based upon s way Administration,	site specific Montgome e Environm	c conditior ry County nent, Mary	ns and de	sign const ent of Pub	raints. La lic Works	and acqui and Trar	sition cos	ts are incl n, Montgo	luded in V omery Cou	VSSC unty		

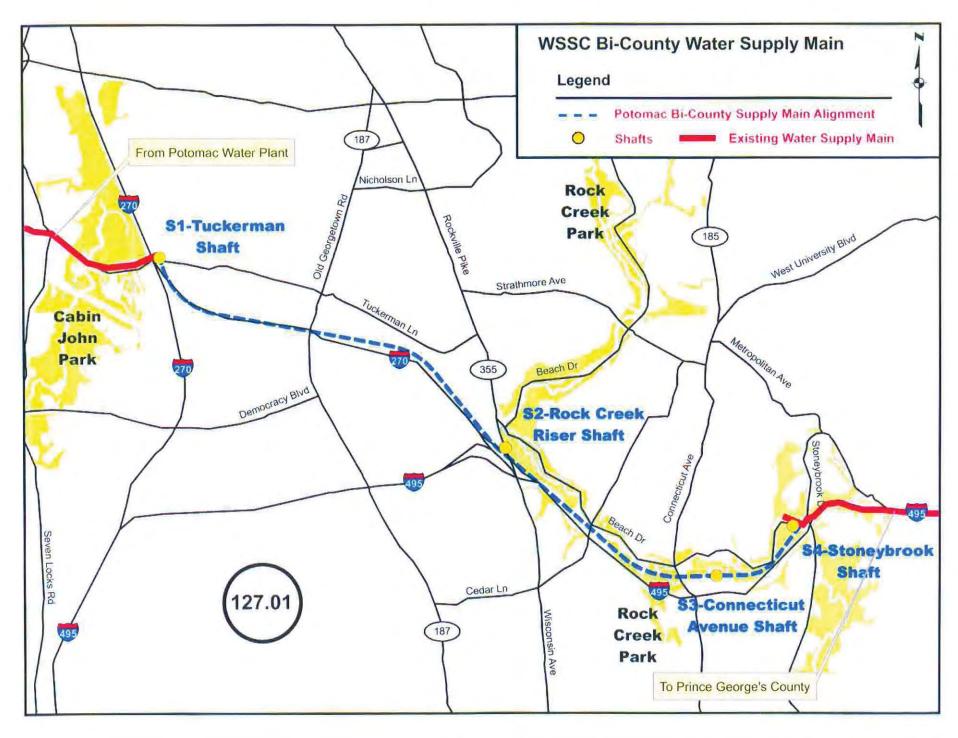
A. Identification and Coding Infor	mation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pub	. Fac.	E. Annual Operating Budget Impact (00	0's) FY of Impact
1. Project Number Agency Number	Update	Code			, .							Program Costs Staff	
934855 W-127.01	Change	e	Revis	ea:		L						Other Facility Costs Maintenance	 329
3. Project Name: Bi-County Water	Tunnel						5.Agency:	W	SSC			Debt Service	61
4. Program: Sanitation	6. Plannin	ng Area:	Bi-Co	ounty								Total Costs	390
												Impact on Water or Sewer Rate	
В.	-	E	xpenditu	ire Sched	lule (000':	s)	-	1	1			F. Approval and Expenditure Data (000'	s)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 93
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20		6 Years		
Planning, Design & Supervision	27,721	23,947	3,654	120	120							Date First Approved	FY 93
Land												Initial Cost Estimate	63,000
Site Improvements & Utilities												Cost Estimate Last FY	146,489
Construction	115,585	109,842	4,842	901	901							Present Cost Estimate	144,258
Other	952		850	102	102							Approved Request, Last FY	2,401
Total	144,258	133,789	9,346	1,123	1,123							Total Expenditures & Encumbrances	133,789
С.	÷		Funding	schedu	e (000's)							Approval Request FY 16	1,123
WSSC Bonds	700	700										Supplemental Approval Request	
SDC	143,558	133,089	9,346	1,123	1,123							Current FY (15)	
D. Description & Justification									1				
DESCRIPTION												G. Status Information	
This project provides for the des intersection of Tuckerman Lane Creek crosses the Capital Belty environmental impacts. The pro-	and Rout vay (Maryla oject also	e I-270 an and Route includes re	d the wes 495). Th elining 45	stern term ne project 0 feet of e	inus of the will be co	e Bi-Cour	nty Water d as a dee	Tunnel ne p tunnel, i	ear the are minimizing	a where R communi	ty and	Land Status: Site selected % Project Completion: C-95% Est. Completion Date: January 2016 H. Map Map Reference Code:	
at the I-270 connection between					mon Mai		ra Zana I						
Service Area Prince George's	s nigh Pre	ssure zon	е пG450/	A, Monigo	mery Mai	n Pressu		IG495A					
Plans & Studies													
Montgomery and Prince George (Draft), Louis Berger & Associa Alignment Report, Black and Ve	tes (1997)	; Updated	Water De										
Specific Data												SEE ATTACHED MAP	
This project will significantly inc Zone and Prince George's Cour a pipeline with a deep rock tunn	nty. The a	lignment s	study com	pleted in	July 2005								
Cost Change													
The cost decrease reflects the	latest avai	lable estim	nates.										
STATUS Under Construction (WSS	SC Contrac	ct Nos. BL	9972A94	, BL9972	394 , BL9	972C94)							
<u>OTHER</u>													
The project scope remains the s construction management servi alignment study and agreed up December 2014.	ces and co	onstructior	n contract	amounts	In late 2	005, botl	h Councils	s reviewed	the result	s of the de	etailed		
As part of the permit requireme Old Farm Creek. This work will existing 96-inch diameter PCCF	be handle	d under a	separate	contract v	ith costs	extendin	g into FY'	16. The re	elining of 4				

Agency Number: W - 127.01 Project Name: Bi-County Water Tunnel

COORDINATION

Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission (Mandatory Referral submissions are approved), Maryland Department of Natural Resources and Maryland State Department of Transportation.

NOTE This project supports 99% Growth and 1% System Improvement.



A. Identification and Coding Inform	Identification and Coding Information			te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req. A	Adeq. Pı	ub. Fac.	E. Annual Operating Budget Impact (0	DO'S) FY of Impact
1. Project Number Agency Number	Update		Revis		, .							Program Costs Staff	
073802 W-139.02	Change		Revis	seu.								Other Facility Costs Maintenance	
3. Project Name: Duckett & Brightor	n Dam Upg	grades				ł	5.Agency:	W	SSC			Debt Service	1043 19
4. Program: Sanitation	6. Planning	g Area:	Bi-Co	ounty								Total Costs	1043 19
													2¢ 19
В.				ire Sched			1	1				F. Approval and Expenditure Data (000	's)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 07
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 07
Planning, Design & Supervision	6,067	4,850	467	750	94	375	281					Initial Cost Estimate	
Land													575
Site Improvements & Utilities												Cost Estimate Last FY	15,167
Construction	10,169	4,254	1,795	4,120	515	2,060	1,545					Present Cost Estimate	16,950
Other	714		226	488	61	244	183					Approved Request, Last FY	3,689
Total	16,950	9,104	2,488	5,358	670	2,679	2,009					Total Expenditures & Encumbrances	9,104
C.			Funding	g Schedul	le (000's)							Approval Request FY 16	670
WSSC Bonds	16,950	9,104	2,488	5,358	670	2,679	2,009					Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
DESCRIPTION													
This project provides for the plar	nnina. desi	ion and co	onstructio	on of the u	parades r	eauired to	o enable t	he T. How	ard Ducke	ett Dam t	to meet	G. Status Information	
current Maryland Department of												Land Status: Not applicable	
and maximum credible earthqua	ke loading	s. The u	pgrådes i	nclude pa	rapet wall	s on both	embankr	ments of t	ne dam an	d three f	foot	% Project Completion: C-60%	
thick scour slabs tied into the roo		downstrea	am side o	f the dam.	This pro	ject also	includes i	mprovem	ents to the	Brightor	n Dam	Est. Completion Date: January 2017	
to assure continued safe operati	ion.											H. Map Map Reference Code:]
JUSTIFICATION												n. Map Map Reference Code.	
Plans & Studies													
December 13, 2004 letter from N 2007); June 28, 2007 letter from		nprehens	ive Safety	/ Evaluatio	on of the T	Г. Howard	d Duckett	Dam", UF	S Corpora	ition (Jar	nuary		
Specific Data													
The MDE requested that WSSC													
Probable Maximum Flood criteria maximum credible earthquake lo										thstand	the	all a laine	
Cost Change												MAP NOT AVAILABL	én i
Costs were increased to include	-		-		r Brighton	n Dam.							
STATUS Under Construction (WSS	C Contract	t No. BD4	144A05,).									
OTHER		_											
The project scope has remained estimates (Brighton Dam) and a the PMF and any other safety re recommended alternative. The in design. The estimated completi construction.	ctual bids equirement nformation	(Duckett l s was del shown ir	Dam). A livered to n Block G	report with MDE in Ja is based	n a preser anuary 20 on the wo	ntation of 07. In Ji rk at Duc	alternativ une 2007, kett Dam.	es to enal MDE forr Brighton	ble the dan nally conci Dam is cu	n to safe urred wit urrently i	ely pass th the in		
COORDINATION													
Maryland State Highway Adminis Government, City of Laurel, Mar									nent, Howa	rd Coun	nty		
NOTE This project supports 1009	yianu Dep	artment c	of the Env	ironment a	and U.S. /	Army Cor	ps of Eng	ineers.					

A. Identification an	nd Coding Inform	ation		2 Da	te: Octo	ber 1, 20	14	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pub. Fac.	E. Annual Operating Budget Impact (0	FY of Imp
1. Project Number	• •	Update	Code									Program Costs Staff	
113803	W-161.01	Change	!	Revis	eu.		-					Other Facility Costs Maintenance	
3. Project Name: La	arge Diameter Wa	ater Pipe	Rehabilita	ation Prog	ram			5.Agency:	W	SSC		Debt Service	15803
4. Program: S	Sanitation 6	. Plannin	g Area:	Bi-Co	ounty							Total Costs	15803
												Impact on Water or Sewer Rate	32¢
В.			E	Expenditu	ire Scheo	dule (000'	's)					F. Approval and Expenditure Data (00	0's)
		(8)	(9) Thru	(10)	(11) Total	(12)	(13)	(14)	(15) Year 4	(16)	(17) (18)		•
Cost Elements		Total	Thru FY '14	Estimate FY '15	6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	FY '19	Year 5 FY '20	Year 6 Beyond FY '21 6 Years	Date First in Capital Program	FY ?
Planning, Design &	Supervision	37,692	6,179	3,680	27,833	4,097	4,235	4,936	4,855	4,855	4,855	Date First Approved	FY '
Land												Initial Cost Estimate	60,00
Site Improvements	& Utilities											Cost Estimate Last FY	345,47
Construction	;	356,665	48,716	30,241	277,708	41,896	51,176	46,867	45,923	45,923	45,923	Present Cost Estimate	411,33
Other		16,974		1,696	15,278	2,300	2,771	2,590	2,539	2,539	2,539	Approved Request, Last FY	38,27
Total		411,331	54,895	35,617	320,819	48,293	58,182	54,393	53,317	53,317	53,317	Total Expenditures & Encumbrances	54,89
C.		-			g Schedu							Approval Request FY 16	48,29
U. WSSC Bonds		411,331	54,895		320,819			54,393	53,317	53,317	53,317		40,20
			04,000	00,011	020,010	40,200	00,102	04,000	00,011	00,011	00,017	Supplemental Approval Request	
D. Description & J	ustification											Current FY (15)	
DESCRIPTION												G. Status Information	
The purpose of	f this Program is to	o plan, de	sign and	rehabilita	te or repla	ace large	diameter	water tran	smission	mains and	d large system		
	e reached the end											Land Status: Not applicable	3
	ding ductile iron, c											% Project Completion: On-Going	
protection. The	e PCCP Inspection	n and Cor	ndition As	sessmen	t Program	identifies	s individua	al pipe seg	gments the	at require	repair or	Est. Completion Date: On-going	
replacement to	assure the continu	ued safe	and reliat	ole operat	ion of the	pipeline.	The Prog	gram also	identifies	extended	lengths of pipe		
that require the	e replacement of ar	n increas	ed numbe	er of pipe	segments	in varyin	g stages	of deterior	ation that	are most	cost effectively	H. Map Map Reference Code:	
accomplished b	by the replacement	t or rehat	oilitation o	of long seg	gments of	the pipel	ine or the	entire pip	eline. Re	habilitatio	n or replacement		
	provides value to												
	rogram includes in:												
mains.	0					0,	•			·	5		
EXPENDITOR	RES FOR LARGE	DIAMET	ERWAIL		REHABIL	TATION	ARE EXF	PECIEDI	U CONTI	NUE IND	EFINITELY.		
JUSTIFICATION													
Plans & Studie	es												
	uster Plan, (Decem Plan (February 2014											MAP NOT AVAILAB	LE
Specific Data						, -		0		. ,	,		
-	proximately 1,061 r	miles of la	arae diam	eter wate	r main rai	naina fror	n 16-inch	to 96-inch	n in diame	ter. This	includes 350		
	on, 326 miles of du												
	ually on PCCP pip												
larger, and 59 r	miles are 54-inch c	diameter	or larger.	The insp	ection pro	ogram inc	ludes inte	ernal visua	l and sour	ndina. sor	nic/ultrasonic		
	ectromagnetic testi												
or replacement	•	5									,		
WSSC has and	proximately 1,700 I	large diar	neter valu	es The I	arne valve	inspactiv	on and re	nair progr	am provid	es for the	inspection		
	in, and repair or rej												
	with large valves i						are syste		nogram p	a pose 15			
Cost Change			., p.			, -							
-	ase is due to an ind	crease in	PCCP re	placemer	nt and rep	airs as we	ell as the	continued	ramp-up	of the nur	nber of miles of		
	peing replaced and												

Agency Number: W - 161.01 Project Name: Large Diameter Water Pipe Rehabilitation Program

diameter South Adelphi Main with 60-inch steel main. In addition, design for the new large valve inspection and repair program is included.

STATUS Not Applicable (WSSC Contract Nos. BM5063A09, BM5063B09).

<u>OTHER</u>

.

The project scope has remained the same. Expenditure and schedule projections shown in Block B above are Order of Magnitude estimates and are expected to change based upon the results of the inspections and condition assessments. Additional costs associated with inspection, monitoring and emergency repairs are included in the Operating Budget.

COORDINATION

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Montgomery County Government (including localities where work is to be performed), Prince George's County Government (including localities where work is to be performed), Maryland-National Capital Park & Planning Commission, Prince George's County Department of Public Works & Transportation, Local Community Civic Associations and WSSC Projects A-107.00, Specialty Valve Vault Rehabilitation Program and W-1.00, Water Reconstruction Program.

PATUXENT WATER FILTRATION PLANT PROJECTS (costs in thousands)

PROJECT NUMBER	PROJECT NAME	ADOPTED FY'15 TOTAL COST	ADOPTED FY'16 TOTAL COST	CHANGE \$	CHANGE %	SIX-YEAR COST	COMPLETION DATE (est)
W-172.05	Patuxent WFP Phase II Expansion	\$62,904	\$65,611	\$2,707	4.3%	\$47,496	FY 2019
W-172.07	Patuxent Raw Water Pipeline	22,973	23,616	643	2.8%	13,917	FY 2019
W-172.08	Rocky Gorge Pump Station Upgrade	17,685	17,932	247	1.4%	13,540	August 2017
	TOTALS	\$103,562	\$107,159	\$3,597	3.5%	\$74,953	

Summary: The Patuxent Water Filtration Plant (WFP) Phase II Expansion project (W-172.05) provides for the addition of a sixth treatment train, a new electrical substation, upgrades to existing yard piping, upgrades to chemical facilities, new UV disinfection facilities, an upgrade to the existing potassium permanganate feed system, upgrades to the existing sewer system and new solids removal facilities. In conjunction with the WFP Phase II Expansion project, the Patuxent Raw Water Pipeline project (W-172.07) and the Rocky Gorge Pump Station Upgrade project (W-172.08) provide for a new raw water pipeline and the necessary modification/expansion to the pumping station to allow the delivery of up to 110 million gallons per day (MGD) of raw water to the Patuxent WFP.

Cost Impact: Cost increases reflect revised design and construction cost estimates.

A. Identification and Coding Inform	dentification and Coding Information			te: Octo	ber 1. 201		7. Pre PD	F Pg.No.:	8. Req. Ad	leq. Pu	b. Fac.	E. Annual Operating Budget Impact (0	00's) FY of Im	npact
1. Project Number Agency Number	Update	Code			,							Program Costs Staff		
033807 W-172.05	Change		Revis	sed:		Ľ						Other Facility Costs Maintenance		
3. Project Name: Patuxent WFP Pha	ase II Expa	ansion				:	5.Agency:	- W	SSC			Debt Service	4328	20
4. Program: Sanitation	6. Planning	g Area:	Bi-Co	ounty								Total Costs	4328	20
												Impact on Water or Sewer Rate	9¢	20
В.		E	xpenditu	ire Schec	lule (000'	s)						F. Approval and Expenditure Data (00)'s)	
	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)		(17)	(18)		•	
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19		′ear 6 ⁼Y '21	Beyond 6 Years	Date First in Capital Program	FY	04
Planning, Design & Supervision	13,303	6,544	1,325	5,434	1,688	1,771		392				Date First Approved	FY	03
Land	34	34										Initial Cost Estimate	33,00	02
Site Improvements & Utilities												Cost Estimate Last FY	62,90	04
Construction	49,463		9,663	39,800	12,000	13,000	10,000	4,800				Present Cost Estimate	65,61	511
Other	2,811		549	2,262	684	739	579	260				Approved Request, Last FY	11,13	30
Total	65,611	6,578	11,537	47,496	14,372	15,510	12,162	5,452				Total Expenditures & Encumbrances	6,57	
C.			Funding	g Schedu	lo (000's)							Approval Request FY 16	14,37	
C. WSSC Bonds	65,611	6,578		47,496	. ,		12,162	5,452					14,07	12
	00,011	0,010	11,007	,	11,012	10,010	12,102	0,102				Supplemental Approval Request		
D. Description & Justification												Current FY (15)		
DESCRIPTION												G. Status Information		
This project provides for the add												Land Status: R/W acquired		
disinfection facilities, upgrades t to the existing potassium perma														
upgrades the existing sewer sys										sewer v	WHICH	% Project Completion: D-100%		
Service Area Bi-County Area	along	ononzor	Lano to t					-	2 MGD nomir	nal/110	MGD	Est. Completion Date: FY 2019		
							- Cu		nergency			H. Map Map Reference Code:		
JUSTIFICATION														
Plans & Studies														
"Patuxent WFP Facility Plan", O														
Criteria Report (April, 2005), "Pa					CH2M Hi	ill (Octobe	er, 2009);	"Evaluatio	on of Residua	als Han	ndling			
Process Alternatives", AECOM	rechnical	Services,	(July, 20	11)										
Phase II will add a sixth treatme	nt train cor	ocietina o	f a throa	stago flog	culation o	hambor (eodimonta	ation basir	with chain a	and flia	ht			
solids removal and plate settlers														
from Rocky Gorge Raw Water F														
172.08) will provide a firm raw w	ater pumpi	ing/transr	mission c	apacity of	110 MGĖ	D. These	improven	ients will g	give the plant	t a firm	1	MAP NOT AVAILAB	E	
nominal capacity of 72 MGD, wi														
order to assure compliance with effective 2012. This project also														
sewer along Sweitzer Lane to as			-								a Tellel			
Cost Change		,		,	,				0					
Project costs were increased du	ie to a revis	sed const	truction c	ost estima	ite.									
STATUS Final Design Complete (W	SSC Cont	ract Nos.	BF1582H	H91 , CT1	582A91,	CT1582E	391).							
OTHER							-							
The project scope has remained	the same.	. In the e	event of a	n outage a	at the Pote	omac WF	P, additio	nal capac	ity at the Pat	tuxent \	WFP			
will reduce customer impact. H	lowever, er	mergency	conserva	ation mea	sures will	still be re	equired. E	xpenditur	e and schedu	ule esti	imates			
shown above are design level es										ject has	s			
experienced delays caused by v	ery long pe	ermit app	lication p	rocesses a	and difficu	uities in ol	btaining R	lights-of-V	/ay.					

Agency Number: W - 172.05

Project Name: Patuxent WFP Phase II Expansion

COORDINATION

Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Maryland State Department of Transportation, Baltimore Gas & Electric and WSSC Projects W-12.02, Prince George's County HG415 Zone Water Main, W-172.07, Patuxent Raw Water Pipeline, W-172.08, Rocky Gorge Pump Station Upgrade and W-73.18, Power Reliability and Arc Flash Implementation(Coordination of UV Criteria).

NOTE This project supports 80% System Improvement and 20% Environmental Regulation.

A. Identification and Coding Inform			2. Da	te: Octol	ber 1, 201	14 ⁷	7. Pre PD	F Pg.No.:	8. Req. Adeq. Pub. F	Fac.	E. Annual Operating Budget Impact (00	0's) FY of Impact
1. Project Number Agency Number	Update	Code	Revis	od.							Program Costs Staff	
063804 W-172.07	Change		Revis	eu.							Other Facility Costs Maintenance	 128 20
3. Project Name: Patuxent Raw Wat	er Pipeline	9				5	5.Agency:	WS	SSC		Debt Service	1397 20
4. Program: Sanitation 6	Planning	g Area:	Bi-Co	unty							Total Costs Impact on Water or Sewer Rate	1525 20
												3¢ 20
В.			-	re Sched	- 1	-				(1.0)	F. Approval and Expenditure Data (000'	s)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4		(18) eyond	Date First in Capital Program	FY 06
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19		Years	Date First Approved	FY 03
Planning, Design & Supervision	4,582	3,346	350	886	207	210	239	230			Initial Cost Estimate	
Land												18,750
Site Improvements & Utilities											Cost Estimate Last FY	22,688
Construction	17,714	5,748	200	11,766	2,607	1,037	3,720	4,402			Present Cost Estimate	23,616
Other	1,320		55	1,265	281	125	396	463			Approved Request, Last FY	3,095
Total	23,616	9,094	605	13,917	3,095	1,372	4,355	5,095			Total Expenditures & Encumbrances	9,094
C.			Funding	Schedul	e (000's)						Approval Request FY 16	3,095
WSSC Bonds	23,616	9,094	605	13,917	3,095	1,372	4,355	5,095			Supplemental Approval Request	
D. Description & Justification									i i		Current FY (15)	
DESCRIPTION												
This project provides for planning	g, design a	and const	ruction of	a new 48	-inch dian	neter raw	water pip	eline from	the Rocky Gorge Raw	~	G. Status Information	
Water Pumping Station to the Pa	atuxent Wa	ater Filtra	tion Plant	, cleaning	of the ex	isting wat	er lines a	nd replace	ement of valves.		Land Status: Land & R/W to	be acquired
											% Project Completion: D-90% Est. Completion Date: FY 2019	
JUSTIFICATION											Est. Completion Date. F1 2019	
Plans & Studies Patuxent WFP Facility Plan (Apr	il 1007): Ir		Study (Ap	ril 2002)							H. Map Map Reference Code:	
Specific Data	ii 1337), ii			111 2002).								
The existing raw water supply fac	cilities are	hvdraulic	allv limite	d to 72 M	GD with a	all pumps	running a	t the Rock	w Gorae Pumpina			
Station. In order to convey more	e than 72 M	/IGD of ra	aw water,	a new raw	/ water pip	peline is r	equired.	A fourth ra	w water pipeline from			
Rocky Gorge Pumping Station to firm raw water pumping transmis												
Filtration Plant, will give the Plan										alei		
Cost Change			2			0 1						
Not applicable.												
STATUS Preliminary Design (WSSC	C Contract	Nos. BF	1582C91	, BF1582E	E91).							
OTHER											MAP NOT AVAILA	BLE
The project scope has remained												
100% complete. The new raw w may change based upon design												
way acquisition process. As with	any const	ruction p	roject, are	eas disturb	bed by co	nstruction	will be re	stored. T	his restoration includes	s		
paving of impacted roads in acco						Specifica	ations for	Utility Inst	allation and Maintenan	nce		
Manual (Section 4.7.2). Land co	ists are inc	nuea in	1133C PI	oject w-2	.02.00.							
COORDINATION Montgomony County Covernmen	t Dringe (Coorcole	Courty	0.00000000	t Monder	ad Nation	ol Conital	Dork 9 D	opping Commission			
Montgomery County Governmen Maryland Department of the Env										s		
(West Laurel Civic Association),	Baltimore	Gas & E										
172.08, Rocky Gorge Pump Stat												
NOTE This project supports 100%	% System	Improven	nent.									

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PDI	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (00	00's) FY of Impact
1. Project Number Agency Number	Update	Code			,	Γ						Program Costs Staff	
063805 W-172.08	Change		Revis	ea:								Other Facility Costs Maintenance	
3. Project Name: Rocky Gorge Pum	p Station l	Upgrade				Ę	5.Agency:	W	SSC			Debt Service	1234 19
4. Program: Sanitation 6	 Planning 	g Area:	Bi-Co	unty								Total Costs Impact on Water or Sewer Rate	1234 19
													2¢ 19
В.			•		lule (000':					I		F. Approval and Expenditure Data (000	/'s)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 06
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 03
Planning, Design & Supervision	4,275	2,793	100	1,382	633	691	58					Initial Cost Estimate	
Land				-									12,930
Site Improvements & Utilities				-								Cost Estimate Last FY	17,685
Construction	12,416	1,489		10,927	5,008	5,464	455					Present Cost Estimate	17,932
Other	1,241		10	1,231	564	616	51					Approved Request, Last FY	6,772
Total	17,932	4,282	110	13,540	6,205	6,771	564					Total Expenditures & Encumbrances	4,282
C.			Funding	Schedu	le (000's)							Approval Request FY 16	6,205
WSSC Bonds	17,932	4,282	110	13,540	6,205	6,771	564					Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
DESCRIPTION													
This project provides for the mod	dification a	nd/or exp	ansion of	the Rock	y Gorge F	Pump Sta	tion to allo	ow the sta	tion to pr	ovide up t	to	G. Status Information	
110 MGD of raw water to the Pat	tuxent Wa	iter Filtrati	ion Plant.									Land Status: No land or R/V	V required
												% Project Completion: D-99% Est. Completion Date: August 2017	
JUSTIFICATION Plans & Studies													
Patuxent WFP Facility Plan (Apr	il 1997) [.] Ir	n-House S	Study (An	ril 2002)								H. Map Map Reference Code:	
Specific Data		1110000	study (stp										
The modification and expansion													
MGD. The improvements to the										uxent Pla	nt (W-		
172.05) will give the Patuxent Pla Cost Change	anta IIm	nominal c	арасну о	I 72 WIGD	, with eme	ergency c	арасну ог	TIUMG	J.				
Not applicable													
STATUS Final Design (WSSC Conti	ract No B	F1582G9	1)										
OTHER		100200	.,).										
The project scope remains the s	ame. Exp	enditure e	estimates	shown in	Block B a	above are	design le	vel estima	ates and	may chan	iqe	MAP NOT AVAILABL	E
based upon actual bids. The cur											·		
George's side of the Duckett Dar turbines, which were part of the o							include tr	ne upgrad	e of the s	tation's ex	xisting		
COORDINATION		1.2	,			,, ,							
Maryland State Highway Adminis	stration. M	lontaomei	rv Countv	Governm	ent. Princ	e Georae	e's Countv	Governm	nent. Mar	vland Der	artment		
of the Environment, Baltimore G WFP Phase II Expansion and W	as & Elect	tric and W	SSC Pro	jects W-1	39.02, Du								
NOTE This project supports 100%	% System	Improven	nent.										

A. Identification and Coding Infor	rmation		2. Da	ite: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req. /	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	r Update	Code			,	- [Program Costs Staff	
983857 W-202.00	Chang	ge	Revis	sed:		L						Other Facility Costs Maintenance	
3. Project Name: Land & Rights-of	-Way Acqui	isition - B	i-County				5.Agency:	W:	SSC			Debt Service	10 22
4. Program: Sanitation	6. Plannin	g Area:										Total Costs	10 22
												Impact on Water or Sewer Rate	
В.		E	Expenditu	ure Sched	lule (000's	5)	-				-	F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 98
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		FY 98
Planning, Design & Supervision												Date First Approved	F1 90
Land	5,676		4,253	1,423	1,125	225	25	20	18	10		Initial Cost Estimate	
Site Improvements & Utilities												Cost Estimate Last FY	
Construction												Present Cost Estimate	5,676
Other												Approved Request, Last FY	
Total	5,676		4,253	1,423	1,125	225	25	20	18	10		Total Expenditures & Encumbrances	
C.			Funding	g Schedu	le (000's)							Approval Request FY 16	1,125
WSSC Bonds	4,269		3,431	838	540	225	25	20	18	10		Supplemental Approval Request	
SDC	1,407		822	585	585							Current FY (15)	
D. Description & Justification													
DESCRIPTION												G. Status Information	
This PDF provides a consolidation	ted estimate	e of fundi	ng for the	acquisitio	n of land a	and right	s-of-way f	or water p	rojects. E	xpenditu	ires are	Land Status: Land & R/W to be	acquired
programmed based upon antic include purchases which have				ired for th	e complet	ion of the	ose specif	fic projects	5. These c	osts do	not	% Project Completion: Not Applicable Est. Completion Date: Not Applicable	
	alleauy bee		cieu.										
JUSTIFICATION												H. Map Map Reference Code:	
Plans & Studies													
Acquisition needs are determin										rveys,			
realignments required by other	agencies, o	or require	ments ide	entified wit	hin the De	velopme	ent Service	es Proces	5.				
Specific Data Consolidation of expenditures f	for land and	l righta of		viaitiona n	ovidoo flo	vibility in	ovpopdip	a funda in	a anoaifia	fical	or and		
permits the WSSC to respond													
accommodation of unpredictab													
to minor alignment changes ide avoiding project-specific cost d						issure th	ie wssc a	an equitat	ole negotia	tion posi	ition by		
Cost Change			51 51									MAP NOT AVAILABLE	
Not applicable.													
STATUS Not Applicable													
OTHER													
The project scope has remaine													
change based upon actual neg on the appropriate project.	otiations. V	When pur	chases ar	e complet	te, the act	ual cost	will be dis	played in t	he expend	liture sch	hedule		

PROJECTS PENDING CLOSE-OUT Bi-County Water Projects (costs in thousands)

Project Number	Agency Number	Project Name	Estimated Total Cost	Expenditures Thru FY'14	Estimated Expenditures FY'15	Remarks
033805	W-73.18	Power Reliability and Arc Flash Implementation	\$4,916	\$4,916	\$0	Project complete.
113806	VV-73-20	Potomac WFP Stage 2 Disinfection Byproducts Rule Implementation	10,481	8,964	1,517	Project completion expected in FY'15.
		TOTALS	\$15,397	\$13,880	\$1,517	

Section 4 - Bi-County Sewer Projects

DATE: October 1, 2014 REVISED: May 7, 2015

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

BI-COUNTY SEWER PROJECTS

	AGENCY	PROJECT	EST.	EXPEND	EST.	TOTAL		EXF	PENDITUR	E SCHEDL	JLE		BUDGET	PDF
	NUMBER	NAME	TOTAL	THRU	EXPEND	SIX	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	REQUEST	PAGE
			COST	14	15	YEARS	16	17	18	19	20	21	16	NUM
	S-22.06	Blue Plains WWTP: Liquid Train Projects, Part 2	345,636	241,755	11,322	79,994	8,008	15,901	19,878	20,107	9,521	6,579	8,008	4-4
	S-22.07	Blue Plains WWTP: Biosolids Management, Part 2	409,909	342,793	33,012	31,888	4,558	8,401	5,541	2,720	2,784	7,884	4,558	4-5
12.	S-22.09	Blue Plains WWTP: Plant-wide Projects	286,513	181,623	10,272	63,267	5,977	6,377	6,472	8,688	21,577	14,176	5,977	4-6
	S-22.10	Blue Plains WWTP: Enhanced Nutrient Removal	386,171	185,939	61,588	137,614	65,284	37,105	29,689	3,392	1,600	544	65,284	4-7
N. C.	S-22.11	Blue Plains: Pipelines & Appurtenances	178,731	54,284	15,309	88,034	22,007	19,815	12,801	13,748	11,808	7,855	22,007	4-8
		Anaerobic Digestion/Combined Heat & Power	144,019		4,760	,		42,826	42,826	38,070	0	0	14,276	4-9
	S-170.08	Septage Discharge Facility Planning & Implementation	14,374	815	304	13,255	758	6,628	4,402	1,467	0	0	758	4-11
	S-170.09	Trunk Sewer Reconstruction Program	747,314	98,075	135,658	513,581	191,866	97,227	118,588	39,227	39,874	26,799	191,866	4-12
	S-203.00	Land & Rights-Of-Way Acquisition - Bi County	424	0	300	124	112	12	0	0	0	0	112	4-14
		Projects Pending Close-Out	21,865	20,195	1,670	0	0	0	0	0	0	0	0	4-15
		TOTAL BI-COUNTY SEWER PROJECTS	2,534,956	1,126,740	274,195	1,065,755	312,846	234,292	240,197	127,419	87,164	63,837	312,846	



Denotes projects which include an environmental component (see page 15 in the opening narrative.)

Notes for costs beyond six years:

Includes 12,565 for Project S-22.06, Blue Plains WWTP: Liquid Train Projects, Part 2 Includes 2,216 for Project S-22.07, Blue Plains WWTP: Biosolids Management, Part 2 Includes 31,351 for Project S-22.09, Blue Plains WWTP: Plant-wide Projects Includes 1,030 for Project S-22.10, Blue Plains WWTP: Enhanced Nutrient Removal Includes 21,104 for Project S-22.11, Blue Plains: Pipelines & Appurtenances

Bi-County Sewer Projects New Projects Listing (costs in thousands)

Agency Number	Project Name	Total Project Cost	Budget Year Cost	Page Number
S-203.00	Land & Rights-Of-Way Acquisition - Bi-County	\$424	\$112	4-14
	TOTALS	\$424	\$112	

BLUE PLAINS WASTEWATER TREATMENT PLANT PROJECTS (costs in thousands)

PROJECT NUMBER	PROJECT NAME	ADOPTED FY'15 TOTAL COST	ADOPTED FY'16 TOTAL COST	CHANGE \$	CHANGE %	SIX-YEAR COST	COMPLETION DATE (est)
S-22.06	Blue Plains WWTP: Liquid Train Projects, Part 2	\$280,210	\$345,636	\$65,426	23.3%	\$79,994	On-Going
S-22.07	Blue Plains WWTP: Biosolids Management, Part 2	387,209	409,909	22,700	5.9%	31,888	On-Going
S-22.09	Blue Plains WWTP: Plant-wide Projects	212,336	286,513	74,177	34.9%	63,267	On-Going
S-22.10	Blue Plains WWTP: Enhanced Nutrient Removal	366,743	386,171	19,428	5.3%	137,614	On-Going
S-22.11	Blue Plains: Pipelines & Appurtenances	161,952	178,731	16,779	10.4%	88,034	On-Going
	TOTALS	\$1,408,450	\$1,606,960	\$198,510	14.1%	\$400,797	

Summary: These five projects, with an estimated total cost of \$1.6 billion, provide funding for the upgrade, expansion, and enhancement of wastewater treatment and solids handling facilities at the Regional Blue Plains Wastewater Treatment Plant, located in the District of Columbia. Whereas typical WSSC projects encompass planning, design, construction, and start-up for a single project, with defined starting and ending dates, the Blue Plains projects are comprised of many sub-projects and are "open-ended." As the Blue Plains Facility Plans move forward and new sub-projects are approved, the costs of these new sub-projects are added to the appropriate existing Blue Plains project. The expenditures displayed represent the WSSC's calculated share. There are four main funding divisions: liquid treatment train (S-22.06); biosolids management (S-22.07); plant-wide projects (S-22.09); and, pipelines & appurtenances (S-22.11). Project S-22.10 Enhanced Nutrient Removal (ENR) will achieve nutrient removal levels surpassing BNR as determined in the Tributary Strategy process of 2005 in order to meet Chesapeake Bay water quality targets.

<u>Cost Impact</u>: These five Blue Plains projects, the largest group of expenditures in the CIP, represent 38% of the total program. The figures shown above are derived from the latest available spending projections provided by the District of Columbia Water and Sewer Authority (DCWASA). Officials at the DCWASA have indicated that they have the fiscal capacity as well as the engineering capability to implement these projects. Spending at the DCWASA staff-proposed rate in future years may challenge the WSSC's ability to stay within County-established spending affordability limits. It is, therefore, recommended that the coordination of development and approval of the DCWASA's and WSSC's CIPs be sustained in order that the economic development and environmental objectives of the region be met, without causing a rapid increase in WSSC customers' bills. An explanation of the cost changes for each project is included on the individual project description forms that immediately follow this summary page.

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4 7	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	b. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update (Code										Program Costs Staff	
954811 S-22.06	Change			ed: May	7,2015	_						Other Facility Costs Maintenance	
3. Project Name: Blue Plains WWT	P: Liquid T	rain Proj	ects, Part	2		5	5.Agency:	W	SSC			Debt Service	
4. Program: Sanitation	Planning	g Area:	Bi-Co	ounty								Total Costs18220 Impact on Water or Sewer Rate	
В.		E	xpenditu	ire Sched	ule (000':	s)	1	1				F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 95
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		
Planning, Design & Supervision	118,955	94,302	5,219	17,814	3,204	4,289	3,877	2,945	2,139	1,360	1,620	Date First Approved	FY 95
Land												Initial Cost Estimate	69,745
Site Improvements & Utilities												Cost Estimate Last FY	280,210
Construction	225,654	147,453	5,991	61,389	4,725	11,455	15,804	16,963	7,288	5,154	10,821	Present Cost Estimate	345,636
Other	1,027		112	791	79	157	197	199	94	65	124	Approved Request, Last FY	9,932
Total	345,636	241,755	11,322	79,994	8,008	15,901	19,878	20,107	9,521	6,579	12,565	Total Expenditures & Encumbrances	241,755
C.			Funding	Schedul	e (000's)							Approval Request FY 16	8,008
WSSC Bonds	326,661	228,484	10,700	75,602	7,568	15,028	18,787	19,003	8,998	6,218	11,875	Supplemental Approval Request	
City of Rockville	18,975	13,271	622	4,392	440	873	1,091	1,104	523	361	690	Current FY (15)	
City of Rockville 18,975 13,271 622 4,392 440 873 1,091 1,104 523 361 690 D. Description & Justification Current FY (15) Current FY (15)													
DESCRIPTION												G. Status Information	
This project provides funding for	r WSSC's s	share of E	Blue Plain	s liquid tra	ain proiect	ts for whic	ch constru	uction bea	an after Ju	une 30. 1	993.	Land Status: Not applicable	
Major projects include: Filtration	and Disinf	ection Re	ehabilitatio	on, Raw V	/astewate	er Pumpin	g Station	No. 2, Du				% Project Completion: On-Going	
Basins Rehabilitation, Primary T	reatment F	acilities	Upgrade I	Phase II, a	and Grit C	hamber E	-					Est. Completion Date: On-Going	
Service Area Bi-County Area							Ca	pacity 37	'0 MGD			H. Map Map Reference Code:	
JUSTIFICATION Plans & Studies													
The Blue Plains Intermunicipal A	Aareement	of 2012.	the DCW	ASA Mas	ter Plan <i>(*</i>	1998) [,] and	d the DC\		oroved FY	2014 Ca	nital		
Improvements Program.	groomon	01 20 12,				1000), an				2011.00	ipital		
Specific Data													
This is a continuation of the DC	WASA's up	ograding	of the Blu	e Plains V	Vastewate	er Treatmo	ent Plant.						
Cost Change													
Cost increase is primarily due to Facilities Rehab Phase II, Grit C	Chamber Bl	ldgs 1 & 2	2, Effluent	t Filter Up	, grades, R	eplace/U	pgrade In	fluent scre				MAP NOT AVAILABLE	
within this program also experie <u>STATUS</u> Not Applicable	nceu nigrie		simaleu e	spenulture	es caused	n py pioje	ci change	.5.					
OTHER													
The project scope has remained	the same	Project	costs are	derived fr	om the D	CWASA	Capital &	Operating	Budget 1)-vear for	recast		
of spending and DCWASA's late	est project	manager	nent data	, and fully	reflect DO	CWASA's	current c	ost estima	ates and e	xpenditu	re		
schedules. Given the open-end projects are, in fact, expected to													
costs will be added to this project											Jaleu		
COORDINATION													
City of Rockville (responsible for construction) and WSSC Project								(responsil	ole for des	ign and			
NOTE This project supports 1009													
	-												

A. Identification and Coding Inform	nation	2. Da	te: Octob	per 1, 201	14 7	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	b. Fac.	E. Annı	al Oper	ating Bud	get Impact (0	00's)	FY of Impact
1. Project Number Agency Number	Update Code										Program	n Costs	Staff			
954812 S-22.07	Change	Revis	ed: May 7	7, 2015							Facility	Costs	Other Maintenar	псе		
3. Project Name: Blue Plains WWT	P: Biosolids Manag	ement, Pa	art 2		5	5.Agency:	W	SSC			-		Debt Serv	rice	25178	
4. Program: Sanitation	6. Planning Area:	Bi-Co	ounty												25178	
											Impact	on Wate	r or Sewer	Rate	55¢	21
В.	E	Expenditu	ire Sched	ule (000':	s)						F. App	oval and	d Expendit	ture Data (00	0's)	
	(8) (9) Thru	(10)	(11) Tatal	(12)	(13)	(14)	(15)	(16)	(17)	(18) Devend			•	•	,	514.05
Cost Elements	Thru Total FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years			pital Progra	am		FY 95
Planning, Design & Supervision	139,864 124,904	7,275	6,987	1,315	1,645	1,144	511	947	1,425	698	Date Fi	rst Appro	oved			FY 95
Land											Initial C	ost Estin	nate			77,296
Site Improvements & Utilities											Cost Es	stimate L	ast FY			387,209
Construction	269,380 217,889	25,410	24,585	3,198	6,673	4,342	2,182	1,809	6,381	1,496	Present	Cost Es	stimate			409,909
Other	665	327	316	45	83	55	27	28	78	22	Approv	ed Reque	est, Last F	Y		27,969
Total	409,909 342,793	33,012	31,888	4,558	8,401	5,541	2,720	2,784	7,884	2,216	Total E	kpenditu	res & Encu	mbrances		342,793
C.		Funding	Schedul	e (000's)							Approv	al Reque	st FY 16			4,558
WSSC Bonds	387,408 323,976	31,200	30,138	4,308	7,940	5,237	2,571	2,631	7,451	2,094						
City of Rockville	22,501 18,817	1,812	1,750	250	461	304	149	153	433	122		nental A t FY (15)	pproval Re	equest		
D. Description & Justification												(-)				
DESCRIPTION											G. Stat	us Infori	mation			
This project provides funding for	WSSC's share of t	ho Bluo B	laine hioe	olide bong	dling proid	octo for w	hich const	ruction be	ann oftar		Land St	atus:		Not applicable	Э	
30, 1993. Major projects include											% Proje	ect Comp	oletion:	On-Going		
Sludge Loading Facility.	5	,	,		,			0 0			Est. Co	mpletion	Date:	On-Going		
Service Area Bi-County Area						Ca	pacity 37	0 MGD			H. Map	Мар	Reference	e Code:		
JUSTIFICATION												•				
Plans & Studies																
The Blue Plains Intermunicipal A Biosolids Management at DCWA Treatment Alternatives Report (I	ASA Blue Plains Wa	astewater	Treatmen	t Plant Ph	hase ÍÍ - D	Design and	d Cost Co	nsideratio	ns for	1); the						
Specific Data				sprovou i	1 2011 0	Supra m	provenier	it i rogian								
This project is needed to implem	nent a set of facilitie	s which w	vill provide	a permar	nent bioso	olids mana	agement p	program fo	or Blue Pl	ains.						
Cost Change								•								
Cost increase is due to revised and, the addition of Combined H					es Phase I	II and Dev	watering A	dditional	Centrifuge	es;		MA		AVAILAB	LE	
STATUS Not Applicable																
OTHER																
The project scope has remained of spending and DCWASA's late schedules. Given the open-end projects are, in fact, expected to costs will be added to this project																
COORDINATION																
City of Rockville (responsible for construction).	r a share of funding) and Dist	rict of Colu	umbia Wa	ater & Sev	wer Autho	ority (respo	onsible for	design a	nd						
NOTE This project supports 100	% System Improver	nent.														

A. Identification and Coding Infor	mation		2. Da	te: Octo	ber 1, 201	4	7. Pre PDI	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (00)'s) FY of Impact
1. Project Number Agency Number	-			ed: May								Program Costs Staff	
023805 S-22.09	Change			eu. May	7, 2015							Other Facility Costs Maintenance	
3. Project Name: Blue Plains WWT	P: Plant-v	vide Proje	cts			Ę	5.Agency:	W	SSC			Debt Service	16643
4. Program: Sanitation	6. Plannin	ig Area:	Bi-Co	ounty								Total Costs Impact on Water or Sewer Rate	16643 37¢
В.		E	Expenditu	ire Schec	lule (000':	s)						F. Approval and Expenditure Data (000's	3)
	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		,
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program	FY 95
Planning, Design & Supervision	96,815		3,522	17,000	1,958	1,948	1,434	2,398		4,420	4,064	Date First Approved	FY 02
Land												Initial Cost Estimate	84,650
Site Improvements & Utilities												Cost Estimate Last FY	212,236
Construction	188,660	109,394	6,648	45,641	3,960	4,366	4,974	6,204	16,521	9,616	26,977	Present Cost Estimate	286,513
Other	1,038		102	626	59	63	64	86	214	140	310	Approved Request, Last FY	8,109
Total	286,513	181,623	10,272	63,267	5,977	6,377	6,472	8,688	21,577	14,176	31,351	Total Expenditures & Encumbrances	181,623
С.			Funding	g Schedu	le (000's)							Approval Request FY 16	5,977
WSSC Bonds	270,786	171,653	9,708	59,795	5,649	6,027	6,117	8,211	20,393	13,398	29,630	Supplemental Approval Request	
City of Rockville	15,727	9,970	564	3,472	328	350	355	477	1,184	778	1,721	Current FY (15)	
 D. Description & Justification DESCRIPTION This project provides funding for Major projects include: Plantwid Gear; Instrumentation, Control, Facility (COF) Renovations and Service Area Bi-County Area JUSTIFICATION Plans & Studies The Blue Plains Intermunicipal Improvement Program. Specific Data This is a continuation of the DC Cost Change Cost increase is due to the addition STATUS Not Applicable OTHER The project scope has remaine and latest project management nature of the project, this PDF of indefinitely. As new sub-project funding schedule also indicates COORDINATION City of Rockville (responsible for construction). NOTE This project supports 100 	de Prograr and Electr I Additions. Agreemen WASA's u lition of Cou d the same data, and does not fut ts are adde the calcul or a share of	n Manage ric Engine . Control t of 2012; pgrading o ntrol Syste e. Project reflect DC illy reflect ed to the E ated Rock	ement; col ering Proj System R the WAS of the Blu em upgrad costs are cWASA's the total p Blue Plain cville shar) and Dist	mprehens ect Manage eplaceme A Master e Plains V de project de project cos s facility p e of the co	ive Manag gement C ent and Up Plan (199 Vastewate s and revi rom the D cpenditure sts. These plans, the post.	gement P onsultant; ogrades h 8); and th er Treatm sed highe estimate e projects associate	rogram; E ; New Wa lave been Car ne DCWAS ent Plant. er estimate Capital & s and sch s are, in fa ed costs w	Dectrical F rehouse F added to bacity 37 SA Approvements SA	Power Sys Facility; ar this proje 70 MGD ved FY 20 er projects Given the ted to con ed to this	tems - So ad Centra ct. 14 Capita s in the pr 10-year fo open-enc tinue project.	witch I Office al rogram. precast led The	G. Status Information Land Status: Not applicable % Project Completion: On-Going Est. Completion Date: On-Going H. Map Map Reference Code: MAP NOT AVAILABL	=

A. Identification and Coding Inform	mation		2 Da	te: Octo	her 1 201	14	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	b. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Number	Update	Code				·		-	-	-		Program Costs Staff
083800 S-22.10	Change	;	Revis	ed: May	7, 2015	L						Other
3. Project Name: Blue Plains WWT	P: Enhand	ced Nutrie	ent Remov	/al		ţ	5.Agency:	WS	SSC			Debt Service 10488
4. Program: Sanitation	6. Plannin	g Area:	Bi-Co	unty								Total Costs 10488
												Impact on Water or Sewer Rate 23¢
В.		E	Expenditu	ire Sched	ule (000'	s)						F. Approval and Expenditure Data (000's)
	(8)	(9) There	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program FY 08
Planning, Design & Supervision	102,646	61,009	10,814	29,883	9,920	7,671	7,553	2,736	1,467	536	940	Date First Approved FY 07
Land												Initial Cost Estimate 648
Site Improvements & Utilities												Cost Estimate Last FY 366,743
Construction	281,543	124,930	50,164	106,369	54,718	29,067	21,842	622	117	3	80	Present Cost Estimate 386,171
Other	1,982		610	1,362	646	367	294	34	16	5	10	Approved Request, Last FY 49,031
Total	386,171	185,939	61,588	137,614	65,284	37,105	29,689	3,392	1,600	544	1,030	Total Expenditures & Encumbrances 185,939
C.			Funding	Schedul	e (000's)							Approval Request FY 16 65,284
WSSC Bonds	161,672	33,930	38,143		40,911	26,412	19,585	1,271	230	217	973	
State Aid	215,108		21,230	43,840	21,997	9,159	8,966	2,047	1,357	314		Supplemental Approval Request
City of Rockville	9,391	1,971	2,215	5,148	2,376	1,534	1,138	74	13	13	57	
D. Description & Justification												G. Status Information
DESCRIPTION												Land Status: Not applicable
This project provides funding for	r WSSC's	share of t	he Blue F	lains Enh	anced Nu	utrient Rer	moval proi	ects requi	red to ac	hieve nutr	ient	% Project Completion: On-Going
removal to levels below BNR lev	vels to me	et the Che	esapeake	Bay wate	r quality ta	argets det	termined i	n the 200	5 Tributar	y Strategi	es	Est. Completion Date: On-Going
Process. Sub-projects include: and Dewatering Pumping Station					Freatment	t, Enhanc	ed Clarific	ation Fac	ility, Blue	Plains Tu	Innel	H. Map Map Reference Code:
Service Area Bi-County Area		gram mai	agemen				Car	bacity 37				
JUSTIFICATION							Ou		0 1100			
Plans & Studies												
Chesapeake Bay Program Tribu												
of the Enhanced Nitrogen Remo (2009); DCWASA Approved FY											Eddy	
Specific Data	2014 Cap	nai impio	vement P	iogiani, a			memun	cipai Agre	ement of	2012.		
The funding schedule reflects th	ne final cos	st sharing	agreeme	nt with the	Maryland	d Departm	nent of the	Environn	nent.			
Cost Change					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							MAP NOT AVAILABLE
Not applicable.												
STATUS Not Applicable (WSSC Co	ontract Nos	s. CB4168	3L05 , CB	4168Q05)								
OTHER												
The project scope has remained												
and latest project management of Treatment Upgrades will take pla												
upgrades to older projects.												
Maryland Department of the Env	vironment	U.S. Fnv	ironment	al Protecti	on Agenc	v. Reaion	III and Di	strict of C	olumbia \	Nater & S	Sewer	
Authority (responsible for design	n and cons	struction).			gono	,,						
NOTE This project supports 100°	% Environ	mental Re	egulation.									

A. Identification and Coding Inform	mation		2. Da	te: Octo	ber 1, 201	14 7	7. Pre PDI	F Pg.No.:	8. Req.	Adeq. Pu	b. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update	Code			,	Γ						Program Costs Staff	
113804 S-22.11	Change	;	Revis	ed: May	7, 2015	L			-			Other Facility Costs Maintenance	
3. Project Name: Blue Plains: Pipeli	ines & App	ourtenance	es			5	5.Agency:	W	SSC			Debt Service 108	
4. Program: Sanitation	6. Plannin	g Area:	Bi-Co	ounty								Total Costs	01
												Impact on Water or Sewer Rate	24¢
В.		E	Expenditu	ire Schec	lule (000'	s)						F. Approval and Expenditure Data (000's)	
	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program	FY 11
Planning, Design & Supervision	39,211	11,492	4,885	18,859	4,659	3,839	2,872	2,605	2,454	2,430	3,975	Date First Approved	FY 02
Land												Initial Cost Estimate	102,833
Site Improvements & Utilities												Cost Estimate Last FY	161,952
ionstruction 138,287 42,792 10,272 68,303 17,130 15,780 9,802 11,007 9,237 5,34												Present Cost Estimate	178,731
ther 1,233 152 872 218 196 127 136 117 78												Approved Request, Last FY	23,795
International Interna International International<												Total Expenditures & Encumbrances	54,284
Total 178,731 54,284 15,309 88,034 22,007 19,815 12,801 13,748 11,808 7,855 21,104 Total Expenditures & Encumbrances 54,284 C. Funding Schedule (000's) 54,284 54,284													
WSSC Bonds	172,317	53,012	14,950	85,141	21,557	19,129	12,174	13,182	11,465	7,634	19,214	Supplemental Approval Request	
City of Rockville	6,414	1,272	359	2,893	450	686	627	566	343	221	1,890	Current FY (15)	
D. Description & Justification													
DESCRIPTION												G. Status Information	
This project provides funding for												Land Status: Not Applicable	
plant. Major projects include: F												% Project Completion: On-Going Est. Completion Date: On-Going	
Rehabilitation; Influent Sewers F Plan (e.g. Anacostia Tunnel).	Renabilitati	ion; and p	nojects as	sociated	with the C	Jompined	Sewer O	veniow (C	SO) Long	Term Co	muroi		
Service Area Bi-County Area							Car	bacity Va	arious			H. Map Map Reference Code:	
JUSTIFICATION							•	-					
Plans & Studies													
The Blue Plains Intermunicipal / Use Facilities Capital Cost Alloc											ctional		
Specific Data	alleri, (eu					20	eupitai in						
This is a continuation of DCWA	SA's upgra	ading of th	e Blue Pl	ains-asso	ciated pro	jects outs	side the fe	ence.					
Cost Change													
Cost increase is due to revised carry WSSC wastewater to the										stations t	hat		_
STATUS Not Applicable		- ,						1				MAP NOT AVAILABL	E
OTHER													
The project scope has remained	d the same	e. Project	costs are	e derived f	rom the D	C-WASA	Capital 8	Operatin	g Budget	10-year f	orecast		
and latest project management	data, and	reflect W/	ASA's cur	rent expe	nditure es	timates a	nd schedu	ules. Give	en the ope	en-ended	nature		
of the project, this PDF does no new sub-projects are added to t													
also indicates the calculated Ro	ckville sha	are of the											
derived in the Multijurisdiction U	se Facilitie	es Study.											
COORDINATION							A	•• •					
City of Rockville (responsible for construction).	r a share o	ot tunding)	and Dist	rict of Col	umbia Wa	ater & Sev	ver Autho	rity (respo	onsible for	design a	nd		
NOTE This project supports 45%	System I	mprovem	ent and 5	5% Enviro	onmental I	Regulatio	n.						

A. Identification and Coding Info 1. Project Number Agency Number		Code	2. Da	ite: Octo	ber 1, 201	14	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	b. Fac.	E. Annual Operating Budget Impact (0 Program Costs Staff	00's)	FY of Impact
153802 S-103.02	Change		Revis	sed:		L						Other		
3. Project Name: Anaerobic Diges	stion/Combir	ned Heat	& Power			:	5.Agency:	ws	SSC			Facility Costs Maintenance Debt Service	 3425	20
4. Program: Sanitation	6. Plannin	g Area:	Bi-Co	ounty								Total Costs Impact on Water or Sewer Rate	3425 8¢	
В.		E	Expenditu	ure Schec	lule (000'	s)						F. Approval and Expenditure Data (00	0's)	
Cost Elements	(8)	(9) Thru FY '14	(10) Estimate	(11) Total	(12) Year 1 FY '16	(13) Year 2	(14) Year 3 FY '18	(15) Year 4 FY '19	(16) Year 5	(17) Year 6 FY '21	(18) Beyond 6 Years	Date First in Capital Program		FY 15
Planning, Design & Supervision	Total 23.921	1.261	FY '15 4.532	6 Years 18.128	7.416	FY '17 3.708		3.296	FY '20	FT ZI	orears	Date First Approved		FY 10
Land											Initial Cost Estimate		345	
Site Improvements & Utilities												Cost Estimate Last FY		143,980
Construction	113,300			113,300	6,180	37,080	37,080	32,960				Present Cost Estimate		144,019
Other	6,798		228	6,570	680	2,038	2,038	1,814				Approved Request, Last FY		7,138
Total	144,019	1,261	4,760	137,998	14,276	42,826	42,826	38,070				Total Expenditures & Encumbrances		1,261
С.			Funding	g Schedu	le (000's)							Approval Request FY 16		14,276
WSSC Bonds	72,069	690	2,380	68,999	7,138	21,413	21,413	19,035				Supplemental Approval Request		
Federal Aid	71,950	571	2,380	68,999	7,138	21,413	21,413	19,035				Current FY (15)		
D. Description & Justification <u>DESCRIPTION</u> This project will develop a corverification necessary to add so program will provide a reductive which may in part be guaranter costs as well as operations arresting operating conditions arresting operating conditions arresting operating the second seco	sustainable on in energy eed by the co and maintenar and reliability WSSC sites pretreatme ering/thicken	energy eq and ener ontractor. nce, chen while co the sc nt equipm ing equip	uipment a gy-related The potenicals, and ntinuing to ope of wo nent, gas o ment, grit	olids) ergy ance nt to on ping,	G. Status InformationLand Status:No land or R/I% Project Completion:P-99%Est. Completion Date:April 2019H. MapMap Reference Code:	// required								
JUSTIFICATION Plans & Studies Appel Consultants, Urban Wa Opportunities For and Benefit	iste Grease l s Of Combin	Resource led Heat a	Assessm	nent-NREL r at Waste	_ (Novemi	eatment F	acilities (I	December	2006); B	rown & C	aldwell,			

Opportunities For and Benefits Of Combined Heat and Power at Wastewater Treatment Facilities (December 2006); Brown & Caldwell, Anaerobic Digestion and Electric Generation Options for WSSC (November 2007); Metcalf & Eddy, WSSC Sludge Digestion Study for Piscataway and Seneca (December 2007); Black & Veatch, WSSC Digester Scope and Analysis (December 2007); JMT, Prince George's County Septage (FOG) Discharge Facility Study (February 2008); JMT, Western Research Institute (WRI) Biogas Feasibility Study Scope of Work - WSSC (April 2008); JMT, Montgomery County Septage (FOG) Discharge Facility Study (January 2010); Facility Plan for the Rock Creek Wastewater Treatment Plant (January 2010); AECOM Technical Services, Inc., Anaerobic Digestion/Combined Heat & Power Study (December 2011, Executive Summary Revised May 2013).

Specific Data

In March 2009, the WSSC received approval for a federal Department of Energy grant of \$570,900 for the feasibility study/conceptual design phase. On June 16, 2010, the WSSC awarded the study contract to AECOM Technical Services, Inc., of Laurel, Maryland. The study was completed in December 2011, and the Thermal Hydrolysis/Mesophilic Anaerobic D gestion/Combined Heat & Power facility was recommended to be constructed and was presented to the Commission in April 2012.

MAP NOT AVAILABLE

Agency Number: S - 103.02 Project Name: Anaerobic Digestion/Combined Heat & Power

Since April 2012, WSSC staff members have met with and made presentations to Montgomery County Department of Environmental Protection, Prince George's County Department of Environmental Resources staff, both County Councils, and DC Water, in order to gain support for the project.

The EPA is urging wastewater utilities to utilize this commercially available technology (anaerobic digestion) to produce power at a cost below retail electricity, displace purchased fuels for thermal needs, produce renewable fuel for green power programs, enhance power reliability for the wastewater treatment plant to prevent sanitary sewer overflows, reduce biosolids production and improve the health of the Chesapeake Bay, and to reduce greenhouse gas (GHG) and other air pollutants. In April 2009, the EPA announced that greenhouse gases contributed to air pollution that may endanger public health or welfare, and began proceedings to regulate CO2 under the Clean Air Act. In June 2014, the EPA announced a proposed rule to reduce carbon emissions from power plants by 30% by 2030, compared to the levels in 2005.

Based on AECOM's feasibility study work as of May 2011, a regional/centralized plant at a location to be determined based on a Thermal Hydrolysis/Mesophillic Anaerobic Digestion/Combined Heat & Power (TH/MAD/CHP) process supplemented by restaurant grease fuel design was recommended with a 36 month construction period. The environmental benefits and expected outcomes determined from the feasibility study are estimated as follows:

- 1. Recover 2-3 MW of renewable energy from biomass
- 2. Reduce Greenhouse Gas production by 11,800 tons/year
- 3. Reduce biosolids output by more than 50,500 tons/year
- 4. Reduce lime demand by 4,100 tons/year
- 5. Reduce nutrient load to the Chesapeake Bay
- 6. Reduce 5 million gallons/year of grease discharge to sewers
- 7. Produce Class A Biosolids

The economic benefits determined from the feasibility study are estimated as follows:

- 1. Recover more than \$1.5 million of renewable energy costs/year
- 2. Reduce biosolids disposal costs by ~ \$1.7 million/year
- 3. Reduce chemical costs by ~ \$500,000/year
- 4. Hedge against rising costs of power, fuel, and chemicals
- Net Payback over time (net based on capital cost of TH/MAD/CHP minus capital cost of lime stabilization upgrade of WSSC WWTP facilities through 2030) (Any Federal Aid received would shorten the payback period.)

Cost Change

Not applicable.

STATUS Planning (WSSC Contract No. CD5901A15,).

<u>OTHER</u>

The project scope has remained the same. Now that the feasibility study has been completed, the Commission has a defined scope, capital cost, and energy and energy-related cost savings estimates to be able to proceed with the detailed design and construction of the anerobic digestion, biomass, and combined heat and power generation system facilities.

The Montgomery and Prince George's Councils must be briefed on the project and approve by resolution before the project can move into design.

It is envisioned that either the entire project, or only portions of the project that include the thermal hydrolysis, anaerobic digestion or combined heat and power, include a guarantee by the contractor that the capital cost will be paid back 100% from energy and energy-related cost savings over time. The energy savings for other completed WSSC Energy Performance projects have surpassed the contracts' guaranteed amount every year of the monitoring and verification period. The WSSC will continue to pursue federal capital funding as a source of cost sharing as the project develops. Any Federal Aid received would shorten the payback period. The funding schedule reflects 50% Federal participation.

COORDINATION

Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission (Mandatory Referral Process), Montgomery County Department of Environmental Protection, Maryland Department of the Environment and WSSC Project S-96.14, Piscataway WWTP Facility Upgrades.

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1. 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (0	00's) FY of Impact
1. Project Number Agency Number	Update				,	Γ						Program Costs Staff	750
103802 S-170.08	Change		Revis									Other Facility Costs Maintenance	482
3. Project Name: Septage Discharge	e Facility P	Planning &	& Impleme	entation		Ę	5.Agency:	W	SSC			Debt Service	974 20
4. Program: Sanitation	6. Planning	g Area:	Bi-Co	ounty								Total Costs Impact on Water or Sewer Rate	2206 20
													5¢ 20
В.	1	E	Expenditu	ire Sched	lule (000':	s)	1	1	T.		1	F. Approval and Expenditure Data (00)'s)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 10
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		
Planning, Design & Supervision	3,861	815	276	2,770	689	1,385	522	174				Date First Approved	FY 10
Land												Initial Cost Estimate	10,835
Site Improvements & Utilities												Cost Estimate Last FY	11,136
Construction	9,280			9,280		4,640	3,480	1,160				Present Cost Estimate	14,374
Other	1,233		28	1,205	69	603	400	133				Approved Request, Last FY	165
Total	14,374	815	304	13,255	758	6,628	4,402	1,467				Total Expenditures & Encumbrances	815
C.			Funding	schedu	le (000's)							Approval Request FY 16	758
WSSC Bonds	14,374	815	304	13,255	758	6,628	4,402	1,467				Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
This project provides for the plan	nnina desi	an and co	onstructio	n of the S	entage ar	nd Fats (Dils Grea	se (FOG)	discharge	e facilities	at	G. Status Information	
three locations: (1) the abandon												Land Status: Not determine	ed
												% Project Completion: D-0%	
JUSTIFICATION												Est. Completion Date: July 2018	
Plans & Studies					• • • • • • • •		0 1	Disahar		04	Driver	H. Map Map Reference Code:	
Septage Discharge Facility Stud George's County: Final Report,				nai Repor	t, JIVI I (J	uly 2012)	; Septage	e Dischar	ge Facility	Study to	r Prince		
Specific Data	()	- ,											
Currently septage waste is colle	cted at fou	r location	s: Muddy	Branch R	load Disp	osal Site i	in Montgo	mery Cou	inty, Tem	ple Hill R	oad		
Disposal Site, Ritchie Road Disp													
as follows: Septic Tank Pump-C Holding Tank Discharge (Sewag											6		
Materials. FOG wastes should r									, and naz	ardodo			
Cost Change													
Costs have increased due to ref During Construction costs.	inement of	the final	estimated	d enginee	ring and c	onstructio	on costs,	and the a	ddition of	Design S	ervices		
STATUS Preliminary Design (WSS)	C Contract	Nos. CM	4363A06	. CM4363	3B06 . CN	14363C06	6. CM436	3D06).				MAP NOT APPLIC	ABLE
OTHER				,	,			,					
The project scope has remained	I the same.	. The exp	enditures	and sche	dule proje	ections sh	nown in Bl	ock B are	planning	level esti	imates		
and may change depending on s	site-specifi	c conditio	ons and de	esign con	straints.								
COORDINATION													
Montgomery County Governmer											on		
(Mandatory Referral), Montgome Environmental Resources, Princ Heat & Power.											bined		
NOTE This project supports 1009	% System	Improven	nent.										
		•											

A. Identification and Coding Inform	mation		2. Da	te: Octo	ber 1, 201	14	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annua	Operating	Budget Impact (000's)	FY of Impact
1. Project Number Agency Number			Revis		,							Program				
113805 S-170.09	Change			eu.								Facility C	Othe Osts Mair	er		
3. Project Name: Trunk Sewer Reco	onstruction	Program				:	5.Agency:	W	SSC			Total Car	Deb	t Service		22
4. Program: Sanitation	6. Planning	g Area:	Bi-Co	ounty										wer Rate	31194	22
												Impact of			69¢	22
В.					lule (000'				1	1	1	F. Appro	val and Expe	enditure Data (0	00's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date Firs	in Capital Pi	rogram		FY 11
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		Approved	ogram		FY 11
Planning, Design & Supervision	136,884	24,731	26,509	85,644	29,686	15,943	19,600	7,243	7,793	5,379			••			
Land													st Estimate			504,993
Site Improvements & Utilities													mate Last FY			453,402
Construction	513,044	73,344			133,400			26,100	26,100	17,400		Present (cost Estimate	2		747,314
Other	97,386		20,349		28,780			5,884	5,981	4,020		Approved	Request, La	st FY		114,319
Total	747,314	98,075	135,658	513,581	191,866	97,227	118,588	39,227	39,874	26,799		Total Exp	enditures & E	Encumbrances		50,580
С.			Funding	g Schedu	le (000's)							Approval	Request FY	16		191,866
WSSC Bonds	747,314	98,075	135,658	513,581	191,866	97,227	118,588	39,227	39,874	26,799		Supplem	ental Approva	al Request		
D. Description & Justification	· ·		•	•		•	*		•	•		Current				
DESCRIPTION																
The Trunk Sewer Reconstructio													Information			
rehabilitation of sewer mains an 15-inches in diameter and great												Land Sta		Right-of-Way C-31%	y may be r	equired
pipe is included due to its location			Jaleu Silla		eter pipe i		10-11101105	in ulame			ametei	-	Completion: oletion Date:	See Block D		
JUSTIFICATION												H. Map	Map Refer	ence Code:		
Plans & Studies																
WSSC Sanitary Sewer Overflow	v Consent I	Decree (L	December	7, 2005)												
Specific Data Under the terms of the Consent	Docroo th	0 WSSC	Trunk So	wor Incho	ction Proc	aram inen	voctod all r	oquirod e	owore in t	21 basins	by					
December 2010 and Sewer Sys											by					
groundwater and flow monitoring	g to determ	nine Inflow	w/Infiltratio	on (I/I) rate	es and ide	entify area	as of limite	ed capacit	ty through	collectio						
system modeling. Where appro testing.	opriate, WS	SC shall	use addit	ional mea	ins to ider	ntify sourc	ces of I/I, I	ncluding	CCTV, sn	noke and/	or dye					
All the Trunk Sewer Inspections 6 of the Consent Decree, a Sew																
submitted to the EPA and MDE													MAP	NOT APPLI	CABLE	
the EPA and MDE as of May 20)14.										-					
* At the current rate of acquiring	a environme	ental pern	nits, the r	eauired tr	unk sewei	r reconstr	ruction wo	rk is expe	cted to ex	tend bev	ond the					
Consent Decree's December 20) 15 deadlin	ne. In add	ition to lin	nited cont	ractor and	subcont	ractor ava	ilability, V	/SSC is c	ontinuing	to					
experience significant delays in with the MDE and USACE to ide	acquiring b	both the r	equired p	ermits and	d Right of	Entry per	rmissions	to work in	the ESA	WSSC	worked					
USACE issued a Program-wide																
and USACE has issued modifie																
basins. Cost Change																
The increase in the overall prog	iram coste	is attribut	ed to con	structing	extensive	access m	oads by-n	ass num	hina and	stream						
stabilization required to complete																

Agency Number: S - 170.09

STATUS Under Construction

<u>OTHER</u>

The project scope remains the same. Reconstruction work will include: reduction of I/I; replacement of substandard sewer segments; in situ lining of sewer segments; pipeline and manhole protection; rebuilding of manholes; and correction of structural defects and poor alignment. The reconstruction that will be performed in each sewer basin will be prioritized to most effectively prevent SSOs and backups. The Consent Decree requires that all rehabilitation work be substantially complete by December 5, 2015.

Project Name: Trunk Sewer Reconstruction Program

All construction contracts for ESA work have been awarded and the approved amounts have been utilized in the current budget projections. As actual construction progresses the projections may be updated. For FY2015, construction work will significantly increase in the ESAs, encompassing mainline reconstruction and providing exposed pipeline and manhole protection from high stream flows and stream bank erosion where required.

COORDINATION

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Maryland-National Capital Park & Planning Commission, National Park Service, Maryland Department of the Environment, Maryland Department of Natural Resources (Critical Area Commission, FSD Approval Forest Conservation/Reforestation Rare, Threatened or Endangered Species), Prince George's County Department of Public Works & Transportation, U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, Region III, Maryland Historical Trust and WSSC Project S-1.01, Sewer Reconstruction Program.

A. Identification and Coding Inform	nation	2. Da	te: Octo	ber 1, 201	4 7	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Number	Update Code	Revis		, ,						Program Costs Staff
163800 S-203.0€	Add	Revis	seu.							Other
3. Project Name: Land & Rights-of-V	Vay Acquisition - B	i-County			ţ	5.Agency:	: W	SSC		Debt Service
4. Program: Sanitation	6. Planning Area:									Total Costs 5 18 Impact on Water or Sewer Rate
B.	E	Expenditu	ure Sched	lule (000's	5)					F. Approval and Expenditure Data (000's)
	(8) (9) Thru	(10)	(11) Total	(12) Year 1	(13)	(14)	(15)	(16)	(17) (18)	
Cost Elements	Total FY '14	Estimate FY '15	6 Years	FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 Beyond FY '21 6 Years	Date First in Capital Program FY 98
Planning, Design & Supervision										Date First Approved FY 98
Land	424	300	124	112	12					Initial Cost Estimate
Site Improvements & Utilities										Cost Estimate Last FY
Construction										Present Cost Estimate 424
Other										Approved Request, Last FY
Total	424	300	124	112	12					Total Expenditures & Encumbrances
С.		Funding	g Schedu	e (000's)						Approval Request FY 16 112
WSSC Bonds	68	51	17	17						
SDC	332	249	83	83						Supplemental Approval Request Current FY (15)
Contribution/Other	24		24	12	12					-
D. Description & Instituation										G. Status Information
D. Description & Justification										Land Status: Land & R/W to be acquired
DESCRIPTION										% Project Completion: Not Applicable
This PDF provides a consolidate programmed based upon anticip										Est. Completion Date: Not Applicable
include purchases which have a				e complet		Jac apeen	ne projecta	5. 11030		H. Map Map Reference Code:
JUSTIFICATION										
Plans & Studies										
Acquisition needs are determine realignments required by other a									urveys,	
Specific Data			intined wit		velopine		00003	5.		
Consolidation of expenditures fo	r land and rights-of	-wav acqu	uisitions pi	rovides fle	xibility in	expendin	a funds in	a specifi	c fiscal vear and	
permits the WSSC to respond to	the uncertainty of	project-sp	becific imp	lementatio	on sched	ules. Oth	er conside	erations i	nclude the	
accommodation of unpredictable to minor alignment changes ider										
avoiding project-specific cost dis					issule in	e waac i	an equilar	ne negoti	ation position by	MAP NOT APPLICABLE
Cost Change			-							
Not applicable.										
STATUS Not Applicable										
OTHER										
The project scope has remained										
change based upon actual nego on the appropriate project.	tiations. When pur	chases ar	e complet	e, the actu	ual cost v	will be dis	played in t	he exper	iditure schedule	

PROJECTS PENDING CLOSE-OUT Bi-County Sewer Projects (costs in thousands)

Project Number	Agency Number	Project Name	Estimated Total Cost	Expenditures Thru FY'14	Estimated Expenditures FY'15	Remarks
083807	S-89.22	Anacostia Storage Facility	\$21,865	\$20,195	\$1,670	Project completion expected in FY'15.
		TOTALS	\$21,865	\$20,195	\$1,670	

Section 5 - Prince George's County Water Projects

DATE: October 1, 2014

PRINCE GEORGE'S COUNTY WATER PROJECTS (ALL FIGURES IN THOUSANDS) EXPENDITURE SCHEDULE PDF AGENCY EST. EXPEND EST. TOTAL BUDGET PROJECT NUMBER NAME REQUEST PAGE TOTAL THRU EXPEND SIX YR 1 YR 2 YR 3 YR 4 YR 5 YR 6 YEARS 19 COST 14 15 16 17 18 20 21 16 NUM W-12.02 Prince George's County HG415 Zone Water Main 3,405 93 401 2,911 2,046 865 0 0 0 0 2,046 5-2 W-34.02 Old Branch Avenue Water Main 15,218 1,324 340 13,554 268 3,160 6,592 3,534 0 0 268 5-3 W-34.03 Water Transmission Improvements 385B Pressure Zone 34,670 458 440 5,528 33,772 440 220 5,528 11.028 11,028 440 5-4 W-34.04 Branch Avenue Water Transmission Improvements 57,360 1,930 2,530 52,900 12,305 17,365 17,365 5,865 0 0 12,305 5-5 W-34.05 Marlboro Zone Reinforcement Main 334 0 0 0 4,366 7 4,025 1,342 2,683 0 1,342 5-6 0 W-62.05 Clinton Zone Water Storage Facility Implementation 12.027 884 440 10.703 275 3.630 5.093 1.705 0 275 5-7 W-65 10 St. Barnabas Elevated Tank Replacement 11.284 510 172 10.602 8 682 1.920 0 0 0 n 8.682 5-8 W-84.02 Ritchie Marlboro Road Transmission Main & PRV 12,791 497 770 11,524 4,428 4,428 2.228 0 440 5-9 440 0 W-84.05 Prince George's County 450A Zone Water Main 38.669 5 880 17.852 385 1.467 1.466 1.246 6.644 6.644 385 5-10 858 12 0 W-111.05 Hillmeade Road Water Main 5.490 4.620 2.310 2.310 0 0 0 2.310 5-11 W-119.01 John Hanson Highway Water Main, Part 1 8,373 1.708 460 6,205 1,493 4.712 0 0 0 n 1,493 5-12 W-123.20 Oak Grove/Leeland Roads Water Main, Part 2 0 2,322 12,828 6,410 2,820 3,598 2,322 1,276 0 0 0 5-13 W-129.12 Church Road Water Main & PRV, Part 2 827 188 445 194 194 0 0 0 0 0 194 5-14 W-137.02 South Potomac Supply Improvement 25,606 1.513 5,335 18,758 6.304 6.294 3,080 3.080 0 0 6,304 5-15 W-147.00 Collington Elevated Water Storage Facility 14,726 3,960 8,470 0 0 0 0 0 2,296 5-17 2,296 2,296 W-197.00 DSP & Conceptual Design Water Projects 10,768 2,635 1.051 6,781 2,070 2,380 2,028 151 76 76 2,070 5-18 Projects Pending Close-Out 0 0 0 0 0 0 0 n 0 5-23 TOTAL PRINCE GEORGE'S COUNTY 268,408 22,980 24,900 200,295 43.172 52,710 45,580 28,837 17,748 12,248 43,172 WATER PROJECTS

FINANCIAL SUMMARY

Notes for costs beyond six years:

Includes 19,932 for Project W-84.05, Prince George's County 450A Zone Water Main. Includes 301 for Project W-93.01, Konterra Town Center East Water Main (DA4623Z07)

A. Identification and Coding Inform	ation	2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update Code	Revis									Program Costs Staff	
W-12.02	Change										Other	 18
3. Project Name: Prince George's Co	ounty HG415 Zon	e Water Ma	ain		Ę	5.Agency:	W	SSC			Debt Service 100	18
4. Program: Sanitation 6	6. Planning Area:	Patux	ent P.A.	15							Impact on Water or Sewer Rate	18
B. Expenditure Schedule (000's)										F. Approval and Expenditure Data (000's)		
	(8) (9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 11
Cost Elements	Total FY '14		6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 11
Planning, Design & Supervision	447 93	3 123	231	159	72						Initial Cost Estimate	1,074
Land											Cost Estimate Last FY	3,391
Site Improvements & Utilities	0.500	226	0.000	1 620	690						Present Cost Estimate	
Construction	2,526	226	2,300	1,620	680							3,405
Other	432	52	380	267	113						Approved Request, Last FY	2,046
Total	3,405 93	3 401	2,911	2,046	865						Total Expenditures & Encumbrances	93
С.			Schedu	· · · · ·		1	[1	1	1	Approval Request FY 16	2,046
WSSC Bonds	3,405 93	3 401	2,911	2,046	865						Supplemental Approval Request	
This project provides for the plan which will improve system reliabil Patuxent Pressure Zone HG4154 Service Area Montgomery High JUSTIFICATION Plans & Studies BOA Contract No. PM0003A05, Assiciates, LLP (February 2009); Transmission Main, EBA Engined Specific Data The new water main will provide a from the Potomac Plant in the ev Cost Change Not applicable. STATUS Preliminary Design (WSSC OTHER The project scope has remained may change depending on site-sp COORDINATION Prince George's County Governm NOTE This project supports 100%	lity by improving t A 30-inch and 42- h Zone Pressure BOA Contract N ering (December a redundant feed rent the Patuxent Contract No. BL the same. Exper pecific conditions nent and Prince C	the flexibility inch diame Zone 660A 2: Patuxen o. PM0019, 2011). to the Mon Plant is out 5057A09,) nditures and and design George's Co	y of the de ter transm , Patuxen tt Pressur A08, Task tgomery (t of servic d schedule	elivery sys hission ma t Pressure c Zone H0 c Order No County Hig e. e projection hts. Land	atem to the ains leaving Zone HC G415A Re D. 11, Pat gh Zone H ons shown costs are	e Montgo ng the Pat G415A edundanc uxent Pre HG660 an HG660 an n in Block e included	mery Cou tuxent Pla y Study, V ssure Zor d Patuxer d Patuxer B are pla in WSSC	nty High 2 int. Whitman, he HG415 ht Pressur	Zone HG6 Requardt A 24-inch re Zone H	660 and t & 1G415A tes and	Land Status: R.W required. % Project Completion: D-30% Est. Completion Date: FY 2017 H Map Map Map Reference Code: Image: Completion: Image: Completion: Image: Completion: Image: Completion: </th <th></th>	

A. Identification and Coding	Information		2. Da	ite [.] Octo	ber 1, 20 ⁻	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (0	00's)	FY of I	Impact
1. Project Number Agency Nu	umber Update	Code			,	ſ						Program Costs Staff			
W-34.02	Change	;	Revis	sea:		L						Other Facility Costs Maintenance	182		20
3. Project Name: Old Branch	Avenue Water M	1ain				Ę	5.Agency:	W	SSC			Debt Service	463		20
4. Program: Sanitation	6. Plannin	q Area:	Clinto	on & Vicin	itv P.A. 8 [,]	IA						Total Costs	645		20
U		0			·)							Impact on Water or Sewer Rate	1¢		20
В.		E	Expenditu	ure Scheo	lule (000'	s)						F. Approval and Expenditure Data (00	0's)		
	(8)	(9) Thru	(10) Estimate		(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program		F١	Y 08
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved		F١	Y 08
Planning, Design & Supervisio	on 3,101	1,324	310	1,467	244	260	565	398							
Land												Initial Cost Estimate		10,3	350
Site Improvements & Utilities												Cost Estimate Last FY		14,9	946
Construction	10,856			10,856		2,614	5,428	2,814				Present Cost Estimate		15,2	218
Other	1,261		30	1,231	24	286	599	322				Approved Request, Last FY		2	268
Total	15,218	1,324	340	13,554	268	3,160	6,592	3,534				Total Expenditures & Encumbrances		1,3	324
С.		•	Funding	g Schedu	le (000's)		•	•				Approval Request FY 16		2	268
WSSC Bonds	7,609	662	170	6,777	134	1,580	3,296	1,767				Supplemental Approval Request			
SDC	7,609	662	170	6,777	134	1,580	3,296	1,767				Current FY (15)			

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 15,000 feet of 30-inch diameter water main along Old Branch Avenue, from Allentown Road to Piscataway Road.

Service Area Clinton Pressure Zone HG385B

JUSTIFICATION

Plans & Studies

General Plan; M-NCP&PC Round 7.0 growth forecasts; WSSC Memorandum dated May 16, 2006.

Specific Data

This project will provide redundancy to a large area of Prince George's County, including the 85,000 customers in Clinton Pressure Zone HG385B and dependent zones. Service to these zones would be severely disrupted with the loss of the Marlboro Road Pressure Reducing Valves or associated piping. The WSSC attempts to provide for average day demands in the event of the loss of any one water system facility and this project will meet that goal for Clinton Pressure Zone HG385B and dependent zones.

Cost Change

Not applicable.

STATUS Preliminary Design (WSSC Contract No. BL4985A09,).

OTHER

The project scope has remained the same. The expenditures and schedule projections shown in Block B are planning level estimates and may change based upon final pipeline alignment, site-specific conditions, and design constraints. Land costs are included in WSSC Project W-202.00.

COORDINATION

Maryland State Highway Administration, Prince George's County Government, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment and Prince George's County Department of Public Works & Transportation.

NOTE This project supports 50% Growth and 50% System Improvement.

G. Status Information

% Project Completion:

Est. Completion Date:

R/W required

D-85%

Map Reference Code:

FY 2019

Land Status:

H. Map

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update	Code			, .							Program Costs Staff	
W-34.03	Change		Revis									Other	22
3. Project Name: Water Transmission	on Improve	ements 3	85B Press	sure Zone			5.Agency:	W	SSC			Debt Service	
4. Program: Sanitation	6. Plannin	g Area:	Clinto	on & Vicini	ity P.A. 81	A						Total Costs427	
В.	(0)	1	· ·	Ire Sched			(1.1)	(45)	(40)	(47)	(10)	F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2		(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 12
Cost Elements Planning, Design & Supervision	Total 1,558	FY '14 458	FY '15 400	6 Years 700	FY '16 400	FY '17 200		FY '19 25	FY '20 25	FY '21 25	6 Years	Date First Approved	FY 12
Land	1,550	400	400	700	400	200	, 25	25	20	25		Initial Cost Estimate	173
Site Improvements & Utilities												Cost Estimate Last FY	26,496
Construction	30,000			30,000			5,000	10,000	10,000	5,000		Present Cost Estimate	34,670
Other	3,112		40	3,072	40	20		1,003	1,003	503		Approved Request, Last FY	1,018
Total	34,670	458	40	33,772	40	20		11,003	11,028	5,528			
	34,070	430				220	5,520	11,020	11,020	5,520		Total Expenditures & Encumbrances	458
C.	04.070	450	1	Schedu		000	5 500	44.000	11.000	5 500		Approval Request FY 16	440
SDC	34,670	458	440	33,772	440	220	5,528	11,028	11,028	5,528		Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
DESCRIPTION												G. Status Information	
This project provides for the plan											a flow	Land Status: Right-of-Way may be	required
control valve along Accokeek Re Service Area Clinton Pressure			e system		inough th	е позо		45 pressu	re zones.			% Project Completion: D-5%	required
JUSTIFICATION		00000										Est. Completion Date: FY 2021	
Plans & Studies												LL Man Man Deference Code:	
Clinton Zone WSF & Transmiss	ion Improv	ements N	Modeling a	and Maste	r Plan Re	port. Ga	nnett Flem	ina. Inc. (Februarv	2012).		H. Map Map Reference Code:	
Specific Data			5			,		3 , • (,	- /			
The existing transmission mains	have bee	n stresse	d by rece	nt develop	oment in s	outhern	Prince Ge	orge's Co	unty. In a	ddition, h	nead-		2061
loss due to increased water use												34.03	13-1
our transmission capacity to ser County customers.	ve recent a	and future	e growth,	and will al	so improv	e overal	i reliability	for southe	rn Prince	George	5	States - 1-2	1
Cost Change												manney Case and Case a	17 +
The project cost has increased	due to exp	ected tun	neling un	der Accok	eek Road	and thr	ough envir	onmentall	y sensitiv	e areas.			100
STATUS Preliminary Design (WSS)	C Contract	t No. BL5	273A11,)										in the second se
<u>OTHER</u>												LER - 20607	
The project scope has remained												2000	
are expected to change once the included in WSSC Project W-20	e project n 12 00	noves into	o design.	The desig	gn phase v	will deter	rmine the fi	nal alignn	nent. Lan	d costs a	ire	12 Color	2005
	2.00.												6
Maryland State Highway Admini	stration M	larvland-N	National C	anital Par	k & Plann	ina Cor	nmission (N	/andatory	Referral	Process)		·	4
Maryland Department of the Env	vironment,	Maryland	d Departm	ent of Na	tural Resc	ources, F	Prince Geo	rge's Cou	nty Depar	tment of		20601	24
Environmental Resources, Princ	e George'	s County	Departme	ent of Pub	lic Works	& Trans	sportation,	U.S. Army	Corps of	Enginee	rs and	And	. /
WSSC Projects W-34.02, Old B Marlboro Zone Reinforcement M									proveme	nts, VV-34	.05,	ALL	
NOTE This project supports 100°					2.0.0901							220SE02	8,333 ft
													A CARACTER STATE

A. Identification and Coding In	formation		2 Da	te: Octo	ber 1 20 [.]	14	7. Pre PD	F Pg.No.:	8. Req	Adeq. P	ub. Fac.	E. Annual Operating Budget Impact (000's	FY of Impact
1. Project Number Agency Num	ber Update	Code			501 1, 20							Program Costs Staff	
W-34.04	Change)	Revis	ed:		I						Other Facility Costs Maintenance	 498 20
3. Project Name: Branch Avenu	e Water Trans	mission I	mprovem	ents			5.Agency:	W	SSC			Debt Service	
4. Program: Sanitation	6. Plannin	g Area:										Total Costs Impact on Water or Sewer Rate	498 20
												Impact on water or Sewer Rate	
В.		E	Expenditu	ire Scheo	lule (000'	s)	-1	1		-		F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 14
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		
Planning, Design & Supervision	1,930	230	700	1,000	700	100	100	100				Date First Approved	FY 14
Land												Initial Cost Estimate	23,705
Site Improvements & Utilities												Cost Estimate Last FY	30,091
Construction	48,200	1,700	1,500	45,000	10,000	15,000	15,000	5,000				Present Cost Estimate	57,360
Other	7,230		330	6,900	1,605	2,265	2,265	765				Approved Request, Last FY	770
Total	57,360	1,930	2,530	52,900	12,305	17,365	17,365	5,865				Total Expenditures & Encumbrances	1,930
С.	l.	1	Funding	g Schedu	le (000's)			1	1		<u> </u>	Approval Request FY 16	12,305
SDC	57,360	1,930	2,530		12,305		17,365	5,865					
D. Description & Justification							4					Supplemental Approval Request Current FY (15)	
DESCRIPTION													
This project provides for the	planning, des	ign, and c	constructio	on of appr	oximately	28,000 f	feet of 42-i	nch diam	eter wate	r transmi	ssion	G. Status Information	
main and a flow control valv	0		in the Cli	nton area								Land Status: Right-of-Way may	be required
Service Area Clinton Pres	sure Zone HG	385B										% Project Completion: D-30% Est. Completion Date: FY 2019	
JUSTIFICATION												Est. Completion Date: FY 2019	
Plans & Studies										00.10		H. Map Map Reference Code:	
Clinton Zone WSF & Transr Specific Data	nission improv	ements N	lodeling a	and Maste	er Plan Re	eport, Ga	nnett Fiem	ling, Inc. (February	2012).		ATTENDED IN THE COMPANY	- main
The new water main will ser	ve as a sunnly	feed for	the propo	eed Clinto	n South -	Tank						AND A	ATHE HAR
Cost Change		leeu ioi			in South	i ank.						34.04	(0/60
Construction cost increase	from planning l	level estir	nate is du	le to the n	umber of	micro tu	nnels requ	ired in en	vironmer	tally sens	sitive		A LE
areas and special design re	quirements im	posed by	the State	Highway	Administ	ration (SI	HA). Proje	ect schedu					
coordinate with SHA constru		•		-				ange.					
STATUS Preliminary Design (W	SSC Contract	t Nos. BL	5273B11	, BL5273[D11 , BL5	273E11).						E	E and
OTHER		_									.	CLUMON A	7
The project scope has rema are expected to change as o											es and	AND A THE AND CLANTON	1
comprised of approximately												nich y dpal/ feet	- /
Surratts/Brandywine road w													a the of
constructed by SHA as part of the project along Branch										naming a	liignment	and the second second	-1-23
COORDINATION		,	,					,				ME IN THE MAN	Y/m Th
Maryland State Highway Ad	ministration. N	1arvland-N	National C	apital Pa	rk & Planr	nina Com	mission (N	Mandatory	Referral	Process).		1 1 2
Maryland Department of the	Environment,	Marylanc	l Departm	ent of Na	tural Reso	ources, P	rince Geo	rge's Cou	nty Depa	rtment of	Public	A THE AND A	1-1-5-
Works & Transportation, U. Water Transmission Improv												211SE06	' = 10,417 ft
Water Storage Facility Imple		ressule	20110, 11-	57.05, IVIC					vv-02.00				SELVI V
NOTE This project supports	100% Growth.												

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. P	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update		Revis									Program Costs Staff	
W-34.05	Change		INCOME	seu.								Other	 18
3. Project Name: Marlboro Zone Rei							5.Agency	: W	SSC			Tatal Casta	18
4. Program: Sanitation 6	Planning	g Area:										Impact on Water or Sewer Rate	
В.	ſ	E		ure Sched	lule (000':		Т	T	ſ	1		F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 14
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 14
Planning, Design & Supervision	297	7	290									Initial Cost Estimate	5,234
Land												Cost Estimate Last FY	4,657
Site Improvements & Utilities	2 500			2 500	1 167	0 0 0 0						Present Cost Estimate	
Construction	3,500		4.4	3,500	1,167	2,333							4,366
Other	569	-	44	525	175	350						Approved Request, Last FY	299
Total	4,366	7	334	4,025	1,342	2,683						Total Expenditures & Encumbrances	7
С.				g Schedu	· · · ·		1		1	1		Approval Request FY 16	1,342
WSSC Bonds	4,366	7	334	4,025	1,342	2,683						Supplemental Approval Request Current FY (15)	
This project provides for the plan main and a flow control valve alo Service Area Clinton Pressure JUSTIFICATION Plans & Studies Clinton Zone WSF & Transmissie Specific Data This new water main will provide Cost Change Not applicable. STATUS Preliminary Design (WSSC OTHER The project scope has remained are expected to change as desig COORDINATION Maryland State Highway Adminis George's County Department of WSSC Projects W-34.02, Old Br 34.04, Branch Avenue Water Tra NOTE This project supports 100%	ong Old Ma Zone HG on Improv system re C Contract the same n progres stration, N Environm anch Ave ansmissio	arlboro Pi 3385B vements N eliability a t No. BL5 t No. BL5 e. Expend ses. Lan Maryland-N ental Res nue Wate n Improve	ike in the Modeling a and redund 273C11,) diture and d costs an Vational C sources, F er Main, W ements an	Clinton ar and Maste dancy by o). schedule re includer Capital Par Prince Gec V-34.03, W	ea. or Plan Re connecting projectior d in WSS(k & Plann orge's Cou Vater Tran	port, Gai g the 385 ns shown C Project ing Com inty Depa ismission	nnett Flem B and 28 h in Block t W-202.0 mission (I artment of n Improve	ning, Inc. (0A pressu B are plar 0. ^T Public W ments 38	February re zones. ning leve Referral orks & Tra 58 Pressu	2012). I estimate Process) ansportal ire Zone,	es and), Prince tion and	G. Status Information Land Status: Right-of-Way may be n % Project Completion: D-10% Est. Completion Date: FY 2017 H. Map Map Reference Code:	

A. Identification and Coding Inform	mation		2 Da	te: Octo	ber 1, 201	4	7. Pre PDF	Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Number	Update	Code			501 1, 20							Program Costs Staff
W-62.05	Change	9	Revis	ea:					-			Other Facility Costs Maintenance
3. Project Name: Clinton Zone Wate	er Storage	Facility In	nplement	ation		Ę	5.Agency:	W	SSC			Debt Service
4. Program: Sanitation	6. Plannin	g Area:	Clinto	on & Vicin	ity P.A. 8′	IA						Total Costs Impact on Water or Sewer Rate
В.		E	Expenditu	ire Sched	lule (000'	s)						F. Approval and Expenditure Data (000's)
<u>D.</u>	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program FY 13
Planning, Design & Supervision	2,014	884	400	730	250	300	130	50			0.0010	Date First Approved FY 13
Land												Initial Cost Estimate 7,993
Site Improvements & Utilities												Cost Estimate Last FY 12,938
Construction	9,000			9,000		3,000	4,500	1,500				Present Cost Estimate 12,027
Other	1,013		40	973	25	330	463	155				Approved Request, Last FY 589
Total	12,027	884	440	10,703	275	3,630	5,093	1,705				Total Expenditures & Encumbrances 884
C.			Funding	g Schedu	le (000's)							Approval Request FY 16 275
SDC	12,027	884	440		275	3,630	5,093	1,705				
	,		-			- ,	- ,	,				Supplemental Approval Request Current FY (15)
D. Description & Justification DESCRIPTION												
This project provides for the pla	nnina des	ion and o	onstructio	on of ann	oximately	4 0 millio	n nallons	(MG) of v	vater stor	ane to se	rve the	G. Status Information
Clinton area. The site selection								(1110) 01 1		age to be		Land Status: Site selected
Service Area Clinton Pressure	e Zone HG	385B					Cap	acity 4.	0 MG			% Project Completion: P-97%
JUSTIFICATION												Est. Completion Date: FY 2019
Plans & Studies												H. Map Map Reference Code:
WSSC Memorandum dated Ma Production Projections; 2005 W Plan Report, Gannett Fleming, I	ater Stora	ge Volum	e Criteria;	I, Unit Co Clinton Z	ordinator, Cone WSF	to Craig I & Transr	Fricke, Pla nission Im	anning Gr aproveme	oup Lead nts Mode	er; 2006 \ ling and N	Water Master	
Specific Data		ary 2012)										
Clinton Pressure Zone HG385B storage facility. Since storage fa creates operational problems. deficit in Clinton Pressure Zone	acilities mu The Model	ist be peri ing and M	odically re aster Pla	emoved fr	om servic	e for mair	ntenance,	having o	nly one in	a large z	one	
Cost Change			2010.									
Not applicable.												
STATUS Planning (WSSC Contrac	t No. BE45	507A06,).										MAP NOT APPLICABLE
OTHER												
The project scope has remained are expected to change once the										estimate	s and	
COORDINATION												
Prince George's County Govern Environment, Prince George's C Water Main, W-34.03, Water Tr Improvements and W-34.05, Ma	County Dep ansmissio	partment on Improve	of Environ ments 38	mental R 5B Press	esources	and WSS	C Project	s W-34.0	, 2, Old Bra	anch Aver		
NOTE This project supports 100	% Growth.											

Update Change		-		ber 1, 201							E. Annual Operating Budget Impact (000's)	
U											Program Costs Staff	
vated Tank	Replacer	Revis	sed:		L	5.Agency:	W	SSC			Other Other Facility Costs Maintenance 317	 19
6. Planning	g Area:	Suitla	and-Distric	t Heights	& Vicinit	y P.A. 75A	N .				Total Costs	19
	E	Expenditu	ire Schec	lule (000':	s)						F. Approval and Expenditure Data (000's)	
(8) Total	(9) Thru FY '14	(10) Estimate FY '15		(12) Year 1 FY '16	(13) Year 2 FY '17	(14) Year 3 FY '18	(15) Year 4 FY '19	(16) Year 5 FY '20	(17) Year 6 FY '21	(18) Beyond 6 Years	Date First in Capital Program	FY 13
1,380	510	100	770	600		-					Date First Approved	FY 13
											Initial Cost Estimate	7,274
											Cost Estimate Last FY	10,666
8,500		50	8,450	6,950	1,500						Present Cost Estimate	11,284
1,404		22	1,382	1,132	250						Approved Request, Last FY	8,278
11,284	510	172	10,602	8,682	1,920						Total Expenditures & Encumbrances	510
		Funding	g Schedu	le (000's)							Approval Request FY 16	8,682
5,642 5,642	255 255	86 86	5,301 5,301	4,341 4,341							Supplemental Approval Request Current FY (15)	
HG450A an re Zone HG	d it incluc 385B, Pa	les the de ituxent Pr	emolition c	of the exist	ting St. B	arnabas e	elevated w	ater stora	e Prince ge tank.		G. Status Information Land Status: See text in Block D % Project Completion: D-98% Est. Completion Date: FY 2017 H. Map Map Reference Code:	
	(8) Total 1,380 8,500 1,404 11,284 5,642 5,642 5,642 sign and cc HG450A an re Zone HG Pressure Zo	(8) (9) Thru FY '14 1,380 510 8,500	Expenditu (8) (9) (10) Total FY'14 Estimate FY'15 FY'15 FY'15 1,380 510 100 8,500 50 1,404 22 11,284 510 172 Funding 5,642 255 86 5,642 255 86 6 5,642 255 86 6 5,642 255 86 6 5,642 255 86 6 5,642 255 86 6 5,642 255 86 6 5,642 255 86 6	Expenditure Sched (8) (9) (10) (11) Total FY '14 FY '15 6 Years 1,380 510 100 770 1 510 100 770 1 510 100 770 1 510 100 770 1 500 50 8,450 1,404 22 1,382 11,284 510 172 10,602 Funding Schedu 5,642 255 86 5,301 5,642 255 86 5,301 5,642 255 86 5,301 5,642 255 86 5,301 5,642 255 86 5,301 5,642 255 86 5,301 5,642 255 86 5,301 5,642 255 86 5,301 5,642 255 86 5,301	Expenditure Schedule (000's (8) (9) (10) (11) (12) Year 1 Total FY '14 FY '15 6 Years FY '16 1,380 510 100 770 600 8,500 50 8,450 6,950 1,404 22 1,382 1,132 11,284 510 172 10,602 8,682 Funding Schedule (000's) 5,642 255 86 5,301 4,341 5,642 255 86 5,301 4,341 sign and construction of approximately 2.5 million 4,341 4,341 sign and construction of approximately 2.5 million 4,341 4,341	Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) Total FY '14 FY '15 6 Years FY '16 FY '17 1,380 510 100 770 600 170 1,380 510 100 770 600 170 8,500 50 8,450 6,950 1,500 1,404 22 1,382 1,132 250 11,284 510 172 10,602 8,682 1,920 Funding Schedule (000's) 5,642 255 86 5,301 4,341 960 5,642 255 86 5,301 4,341 960 5,642 255 86 5,301 4,341 960 5,642 255 86 5,301 4,341 960 5,642 255 86 5,301 4,341 960 5,642 255 86 5,301 4,341	Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) Total FY '14 FY '15 6 Years FY '16 FY '17 FY '18 1,380 510 100 770 600 170 8,500 50 8,450 6,950 1,500 1,404 22 1,382 1,132 250 11,284 510 172 10,602 8,682 1,920 Funding Schedule (000's) 5,642 255 86 5,301 4,341 960 5,642 255 86 5,301 4,341 960 sign and construction of approximately 2.5 million gallons (MG) of w HG450A and it includes the demolition of the existing St. Barnabas ere re Zone HG385B, Patuxent Pressure Zone HG415A, Prince Cap Pressure Zone HG450A Gasta Cap	Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) (15) Total FY'14 FY'15 Total Year 1 Year 2 Year 3 Year 4 1,380 510 100 770 600 170 100 170 100 170 100 170 100 170 100 170 100 170 100 170 100 170 100 170 100	Expenditure Schedule (000's) (8) (10) (11) (12) (13) (14) (15) (16) Total FY '14 Estimate Total Year 1 Year 2 Year 3 Year 4 Year 4 Year 5 Year 4 Year 4 Year 5 Year 5 Year 5 Year 5 Year 4 Year 4 Year 5 Year 5 Year 5 Year 5 Year 4 Year 4 Year 5 Year 5 Year 5 Year 4 Year 4	Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) Total FY '14 FY '15 6 Years FY '16 FY '17 FY '18 FY '19 FY '20 FY '21 1,380 510 100 770 600 170 8,500 50 8,450 6,950 1,500 1,404 22 1,382 1,132 250 11,284 510 172 10,602 8,682 1,920 5,642 255 86 5,301 4,341 960	Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) Total FY '14 FY '15 6 Years FY '16 FY '17 FY '18 FY '19 FY '20 FY '21 Beyond 1,380 510 100 770 600 170 Image: Colspan="2">Image: Colspan="2" Telestimate in the image: Colspan="2" Telestimate in telesti	Channel Procession of the system of the sys

Specific Data

This project is necessary to provide storage capacity and address water quality issues in Prince George's High Pressure Zone HG450A. Specifically, the existing St. Barnabas and Camp Springs elevated tanks have low overflow elevations that impact water quality in the zone.

Cost Change

Not applicable

STATUS Final Design (WSSC Contract Nos. BE3227A02, BE3227B02).

OTHER

The project scope has remained the same. Expenditure and schedule projections shown in Block B are based on the design estimate and may change once the project is bid and awarded. The Prince George's County High Zone Storage Study recommended moving forward with design and construction of a new tank on the existing St. Barnabas site. The new tank will replace the existing St. Barnabas elevated tank. The study also recommended pursuing acquisition of an additional site for long-term water storage needs. Land costs are included in WSSC Project W-202.00.

COORDINATION

Prince George's County Government, Maryland-National Capital Park & Planning Commission (Related to acquisition of future storage site.), Maryland Department of the Environment and Federal Aviation Administration.

NOTE This project supports 50% Growth and 50% System Improvement.

 Image: state of the state o

A. Identification and Coding Information		2. Date	e: Octo	ber 1, 201	4	7. Pre PDF	Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number Update				,	- -						Program Costs Staff	
W-84.02 Change		Revise	90.								Other	20
3. Project Name: Ritchie Marlboro Road Trans	mission M	/lain & PR	V		Ę	5.Agency:	W	SSC			Debt Service	
4. Program: Sanitation 6. Planning	g Area:	Westp	halia & ∖	/icinity P.A	A. 78						Total Costs 140 Impact on Water or Sewer Rate	20
В.	1	xpenditur			s)	1		r		1	F. Approval and Expenditure Data (000's)	
(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 08
Cost Elements Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 08
Planning, Design & Supervision 1,672	497	700	475	400	25	25	25					
Land											Initial Cost Estimate	2,496
Site Improvements & Utilities											Cost Estimate Last FY	8,811
Construction 10,000			10,000		4,000	4,000	2,000				Present Cost Estimate	12,791
Other 1,119		70	1,049	40	403	403	203				Approved Request, Last FY	909
Total 12,791	497	770	11,524	440	4,428	4,428	2,228				Total Expenditures & Encumbrances	497
C.		Funding	Schedu	e (000's)							Approval Request FY 16	440
SDC 12,791	497	770	11,524	440	4,428	4,428	2,228				Supplemental Approval Request	
D. Description & Justification											Current FY (15)	
reducing valve (PRV) to serve the Westphalia Road to the Beltway. Service Area Southern Pressure Zone 3: JUSTIFICATION Plans & Studies Prince George' County High Zone Water M Cost Change Project cost has increased due to expected sensitive areas. STATUS Preliminary Design (WSSC Contract OTHER The project scope has remained the same be updated as design progresses. Land co COORDINATION Maryland State Highway Administration, Pr Commission, Maryland Water Managemer Department of Public Works & Transportat NOTE This project supports 100% Growth.	85B, Prind Iain Alignr d tunnelin No. BL50 . Expendit osts are ir rince Geo at Adminis	ce George ment and g under R)20A09,). ture and so ncluded in rge's Cour tration, Mi	's High F Capacity itchie Ma chedule WSSC F mty Gove aryland E	Pressure Z Study, Cł rrlboro Ro projection: Project W- rnment, M Departmer	Zone HG4 hester En ad and th s shown a 202.00. laryland-l nt of Natu	gineering e Beltway above are National C	(Septeml and thro planning apital Pa	ber 2012) ugh enviro level estir	onmentall nates and	y d may	Land Status: Right-of-Way may be rec % Project Completion: D-5% Est. Completion Date: FY 2019 H. Map Map Reference Code:	quired

A. Identification and Coding Inform			2. Da	te: Octo	ber 1, 201	4 7	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (000's)	Y of Impact
1. Project Number Agency Number	Update				, ,							Program Costs Staff	
W-84.05	Change		Revis	eu.								Other	
3. Project Name: Prince George's C	ounty 450	A Zone V	/ater Mair	ו		5	5.Agency:	W	SSC			Debt Service	
4. Program: Sanitation	6. Planning	g Area:	Princ	e George'	s County							Total Costs	
												Impact on water or Sewer Rate	. 23
В.		E	Expenditu	ire Sched	lule (000':	s)	L	1				F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 13
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		
Planning, Design & Supervision	5,155	5	800	4,230	350	1,334	1,333	1,133	40	40	120	Date First Approved	FY 13
Land												Initial Cost Estimate	374
Site Improvements & Utilities													38,170
Construction	30,000			12,000					6,000	6,000	18,000	Present Cost Estimate	38,669
Other	3,514		80	1,622	35	133	133	113	604	604	1,812	Approved Request, Last FY	385
Total	38,669	5	880	17,852	385	1,467	1,466	1,246	6,644	6,644	19,932	Total Expenditures & Encumbrances	5
C.			Funding	g Schedul	e (000's)							Approval Request FY 16	385
WSSC Bonds	38,669	5	880	17,852	385	1,467	1,466	1,246	6,644	6,644	19,932	Supplemental Approval Request	
D. Description & Justification	•		•		· · · · · · · · · · · · · · · · · · ·			•				Current FY (15)	
DESCRIPTION													
This project provides for a capac	citv and ali	anment s	tudv. des	ian. and c	onstructio	n of appro	oximatelv	ten miles	of new re	dundant		G. Status Information	
transmission main for Prince Ge	orge's Hig	h Pressu	re Zone ⊦	G450A. I	Portions o	of the trans	smission	main that	currently	serve the		Land Status: Not determined	
HG450A and HG290B Pressure redundant transmission main is											im. A	% Project Completion: P-0%	
planned to be out of service and								stisting uz	1151115510	1111011115		Est. Completion Date: FY 2023	
Service Area Prince George's	High Pres	sure Zon	e HG450	Ą								H. Map Map Reference Code:	
JUSTIFICATION													
Specific Data													
Specific Data	nin ara aut	t of oorvio	o the ren	ooining m	nina laak (oufficient	oonooitu		ina ogoini	t those			
When portions of the existing ma restrictions can cause high press											d will		
start where the existing 54-inch of	diameter n	nain insid	e the belt	way conne	ects to an	existing 2	24-inch di	ameter m	ain at D'a	rcy Road.	. The		
new transmission main may para the existing 42-inch diameter ma													
mains.		South Side	e 01 1-495	where it a			ig 42-iiici	i ulametei	anu 50-li			MAP NOT APPLICABLE	
Cost Change													
Cost changes are expected after	r the aligni	ment and	capacity	study is c	ompleted	to define	the exten	t of upgra	des requi	red.			
STATUS Planning													
OTHER													
The project scope has remained													
estimates and are expected to c An alignment and capacity study	/ will be pe	e the pro	ject move	es into piai	nning and	design.	rnis proje		e early pla	anning pri	ases.		
COORDINATION													
Maryland State Highway Adminis (Mandatory Referral Process) ar									rk & Planr	ning Com	mission		
NOTE This project supports 1009		-	•										
	,												

A. Identification and Coding Inform	mation		2 Dat	te: Octo	per 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update	Code	Revis									Program Costs Staff	
W-111.05	Change		Revis	eu.								Other	 18
3. Project Name: Hillmeade Road V	Vater Main						5.Agency	W	SSC			Debt Service	
4. Program: Sanitation	6. Planning	g Area:	Bowie	e & Vicinit	y P.A. 71/	4						Impact on Water or Sewer Rate	18
В.		E	xpenditu	re Sched	ule (000':	s)	1					F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 98
Cost Elements Planning, Design & Supervision	Total 964	FY '14 858	FY '15 10	6 Years 96	FY '16 48	FY '17 48	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 98
Land	504	000	10		40	40						Initial Cost Estimate	1,898
Site Improvements & Utilities												Cost Estimate Last FY	5,490
Construction	3,922			3,922	1,961	1,961						Present Cost Estimate	5,490
Other	604		2	602	301	301						Approved Request, Last FY	2,293
Total	5,490	858	12	4,620	2,310	2,310						Total Expenditures & Encumbrances	858
	-,			Schedul		,						Approval Request FY 16	2,310
C. SDC	5,490	858	12	4,620	2,310	2,310							2,010
D. Description & Justification	0,.00			.,•=•	_,	_,						Supplemental Approval Request Current FY (15)	
This project provides for the pla Hillmeade Road from Lanham-S Service Area Bowie Pressure JUSTIFICATION Plans & Studies Bowie-Glen Dale Water Storage Memorandum dated May 31, 19 Specific Data The purpose of this project is to Cost Change Not applicable. STATUS Final Design (WSSC Cont OTHER The project scope has remained may change based upon site-sp Land costs are included in WSS COORDINATION Maryland State Highway Admin Commission, AMTRAK Railroad Transportation and U.S. Army C NOTE This project supports 100	Severn Roa Zone HG3 e Facility Pl 996; M-NCF provide ac tract No. B d the same becific conc SC Project istration, P d, Marylanc Corps of En	ad to an e 350E lan, O'Brie P&PC Roi dequate p L1782A96 . Expend ditions and W-202.00 rince Geo I Departm gineers.	xisting 24 en & Gere und 6 grov ressure in 6,). litures and d actual b). orge's Cou	-inch dian Enginee wth foreca response d schedule id. This p	rs, Inc. (O ists. to growth projectio roject has	er main ir hotober 1 h in the E ons show s been de laryland-	n Hillmead 990); Wat Bowie area National (e Road at er Resour a. B are des e to outsta Capital Pa	Daisy La ces Plani sign level nding pe	ning Secti estimatee rmitting is	s and sues.	Land Status: R/W required % Project Completion: D-95% Est. Completion Date: June 2017 H. Map Map Reference Code: WINGATE FRINGFIELD (111.05) (CO, 06,11) (CO, 06,	HTADE 3194 feet

A. Identification and Coding Inform			2. Da	te: Octo	ber 1, 201	14	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (00	0's)	FY of Impact
1. Project Number Agency Number	Update		Revis	ed.								Program Costs Staff		
W-119.01	Change			60.								Facility Costs Maintenance	101	18
3. Project Name: John Hanson High	way Wate	r Main, Pa					5.Agency:		SSC			Debt Service		
4. Program: Sanitation	6. Planning	g Area:	Largo	-Lottsford	& Vicinity	y P.A. 73	, Collingto	on & Vicini	ty P. A. 7	4B		Impact on Water or Sewer Rate		18
В.		E	xpenditu	re Sched	ule (000'	s)						F. Approval and Expenditure Data (000	s)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program		FY 82
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years			
Planning, Design & Supervision	2,309	1,708	400	201	101	100						Date First Approved		FY 82
Land												Initial Cost Estimate		675
Site Improvements & Utilities												Cost Estimate Last FY		7,741
Construction	5,194			5,194	1,197	3,997						Present Cost Estimate		8,373
Other	870		60	810	195	615						Approved Request, Last FY		1,608
Total	8,373	1,708	460	6,205	1,493	4,712						Total Expenditures & Encumbrances		1,252
C.			Funding	Schedul	e (000's)							Approval Request FY 16		1,493
SDC	8,373	1,708	460	6,205	1,493	4,712						Supplemental Approval Request		
D. Description & Justification												Current FY (15)		
DESCRIPTION														
This project provides for the plan								ater main	along Joł	n Hanso	n	G. Status Information		
Highway and Martin Luther King	•			•				_				Land Status: Land & R/W to % Project Completion: D-100%	be acqu	ired
Service Area Prince George's JUSTIFICATION	Intermedia	ate Press	ure Zone	HG317A,	Prince G	eorge's N	lain Press	sure Zone	HG320A			Est. Completion Date: FY 2017		
Plans & Studies														
General Plan; M-NCP&PC Rour	nd 6.2 arov	vth proiec	tions: WS	SC Memo	orandum	dated Ap	ril 7. 1997					H. Map Map Reference Code:		
Specific Data	J		, -				,					A BRIDE	st.	7 7
This project will provide service Pressure Zone HG320A. This n										eorge's N	<i>l</i> lain	THERE	BUENAV	STA S. Martin S. Martin S. Martin Mar
Cost Change												119.01) (The second se	ent -	-
Not applicable.												And the second second	-" @	Cor GLEN
STATUS Final Design (WSSC Cont	ract No. B	L7053A8	6,).									WOODS WOODS	1 Jan	STATI
OTHER The president energy has remained	4h a c	Th				aliak !!!!		(4 h i n '	-	h a	diata	(B)	1 -	B COM
The project scope has remained Expenditure and schedule project conditions and actual bid.											ulate.	De Maria	Autor (20)	
COORDINATION												Manual Manual Manual Manual	CLEAN	Neto Service
Maryland State Highway Admini Environmental Resources.	stration, P	rince Geo	orge's Cou	inty Gove	rnment ar	nd Prince	George's	County D	epartmer	nt of			A	L)
NOTE This project supports 1009	% Growth.												Att	DVL
													is 1	Fa
												TEN - ~		ENTERPRISE
												PGCO,10 1 inch	equals 4	415 feet
												1000,10	equals 4	allo leet

A. Identification and Coding Info	rmation		2 Da	te [.] Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. P	ub. Fac.	E. Annual Operating Budget Impact (00	00's)	FY of Impact
1. Project Number Agency Numbe	r Update	Code				· [Program Costs Staff		
W-123.20	Change	;	Revis	sed:		L						Other Facility Costs Maintenance	200	 18
3. Project Name: Oak Grove/Leela	nd Roads V	Nater Mai	in, Part 2			Ę	5.Agency	: W	SSC			Debt Service	571	18
4. Program: Sanitation	6. Plannin	a Area:	Mitch	ellville & \	Vicinity P.	A 74A						Total Costs	893	18
••••••••••••••••••		J										Impact on Water or Sewer Rate	2¢	18
В.		E	Expenditu	ire Schec	dule (000's	5)						F. Approval and Expenditure Data (000)'s)	
	(8)	(9) Thur	(10)	(11)	(12)	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18)			
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	Beyond 6 Years	Date First in Capital Program		FY 02
Planning, Design & Supervision	2,045	1,933	82	30	20	10						Date First Approved		FY 02
Land												Initial Cost Estimate		4,117
Site Improvements & Utilities												Cost Estimate Last FY		12,760
Construction	9,947	4,477	2,370	3,100	2,000	1,100						Present Cost Estimate		12,828
Other	836		368	468	302	166						Approved Request, Last FY		5,080
Total	12,828	6,410	2,820	3,598	2,322	1,276						Total Expenditures & Encumbrances		6,410
С.			Funding	g Schedu	le (000's)		I			-		Approval Request FY 16		2,322
WSSC Bonds	6,414	3,205	1,410	1,799	1,161	638						Supplemental Approval Request		
SDC	6,414	3,205	1,410	1,799	1,161	638						Current FY (15)		
D. Description & Justification			•	•	•									
DESCRIPTION												G. Status Information		
This project provides for the pla	anning, des	ign, and o	constructio	on of appr	oximately	16,805 fe	eet of 24-	inch diam	eter wate	r main alo	ong Oak	Land Status: R/W acquired		
Grove and Leeland Roads, and	d 1,240 feet	of 16-inc	h diamete	er water m	iain in Chu	irch Road	d in the U	pper Marll	boro Plan	ning Area	of	% Project Completion: C-25%		
Prince George's County.												Est. Completion Date: July 2016		

Service Area Prince George's Intermediate Pressure Zone HG317A

JUSTIFICATION

Plans & Studies

Intermediate & Marlboro Zones Water Storage Facility (September 1999).

Specific Data

The Intermediate & Marlboro Zones Water Storage Facility siting study recommended the placement of 4 million gallons of storage at the Safeway Distribution Center near the intersection of Leeland Road and Route 301 in Prince George's County. Based upon the final site selection, a 24-inch diameter water main along Oak Grove and Leeland Roads will be needed to connect to the new storage facility and provide adequate hydraulic capacity to the Intermediate Pressure Zone HG317A distribution system. This project will also provide a second feed to the Beechtree development west of Route 301 and south of Leeland Road.

Cost Change

Not applicable.

STATUS Under Construction (WSSC Contract Nos. BL3192A01, BL3192B01).

OTHER

The project scope has remained the same. Expenditures and schedule projections in Block B are based upon the actual bid for Contract A and the 100% complete design estimate for Contract B. The project will be bid under two separate contracts: Contract A was bid on 9/26/12 and Contract B is expected to be rebid November 2014 with the ductile iron pipe design.

COORDINATION

Prince George's County Government and WSSC Project W-147.00, Collington Elevated Water Storage Facility.

NOTE This project supports 50% Growth and 50% System Improvement.

Map Reference Code:

H. Map

1: Project Number Agency Number Update Code Revised: 3: Project Nume: Church Rade Water Man, Part 2 5. Agency: WSSC 4: Program: Sanitation 6: Planning Anz Bowle & Wonth / Part 2 B. Expenditure Schedule (00%) B. Schedule (00%) B. Frading Schedule (00%) Schedule Schedule (00%) Schedule (00%) B. Schedule (00%) Schedule Schedule (00%) Schedule (00%) Schedule Schedule (00%) Schedule (00%) Schedule Schedule (00%) Schedule (00%) B. Schedule (00%) Schedule (00%) C. <th>A. Identification and Coding Inform</th> <th>nation</th> <th></th> <th>2. Da</th> <th>te: Octo</th> <th>ber 1, 201</th> <th>4</th> <th>7. Pre PD</th> <th>F Pg.No.:</th> <th>8. Req.</th> <th>Adeq. Pi</th> <th>ub. Fac.</th> <th>E. Annual Operating Budget Impact (000's)</th> <th>FY of Impact</th>	A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pi	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
Project Name Charge Segency: WSSC Project Name Sanitation 6. Planning Area: Bowle & Vicinity P.A. 71A B. Expenditure Schedule (000°s) Total Costa 177 17 Outschedule Address Total Costa 177 17 17 Planning Design & Supervision 228 188 30 10 10 174 <td>1. Project Number Agency Number</td> <td>Update</td> <td>Code</td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1. Project Number Agency Number	Update	Code			,								
3. Program Mane: Church Road Water Main, Part 2 SAgency: WSSC 4. Program: Sanitation 6. Planning Araz: Boxie & Vicinity P.A. 71A B. Expenditure Schedule (000*) Cost: Cos		•		Revis	eu.							_		
Contraction Contraction Contraction B. Expenditure Schedule (00%) Code Lements 100 1120 Parking, Design & Supervision 228 100 100 Parking, Design & Supervision 228 108 Parking, Design & Supervision 228 108 100 100 100 100 100 100 100	3. Project Name: Church Road Wate	er Main, P	art 2					5.Agency:	: W	SSC			Debt Service	
B. Expenditure Schedule (000's) Cont Lements 100 101 111 112 112 113 <td>4. Program: Sanitation</td> <td>6. Plannin</td> <td>g Area:</td> <td>Bowie</td> <td>e & Vicinit</td> <td>y P.A. 71</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>77 17</td>	4. Program: Sanitation	6. Plannin	g Area:	Bowie	e & Vicinit	y P.A. 71	4							77 17
Image: Construction (i) (i)<														
Cost Elements Total First in Capital First in Capital Forgam First in Capital Forga	В.		E	Expenditu	ire Schec	lule (000':	s)	1	1	1	1		F. Approval and Expenditure Data (000's)	
Cost Elements Total FY 14 FY 15 FY 16 FY 17 FY 18 FY 10 FY 20		(8)										(18) Bevond	Date First in Capital Program	EX 07
Land			FY '14	FY '15	6 Years	FY '16								
The provements & Utilities 0		228	188	30	10	10								
Construction 516 357 159 159 159 159 159 159 150														
Other 83 58 25 25 4	Site Improvements & Utilities												Cost Estimate Last FY	950
Total 827 188 445 194 <th< td=""><td>Construction</td><td>516</td><td></td><td>357</td><td>159</td><td>159</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Present Cost Estimate</td><td>827</td></th<>	Construction	516		357	159	159							Present Cost Estimate	827
C. Funding Schedule (000's) SDC 627 188 445 194 194 D. Description & Justification Discription Supplemental Approval Request FY 16 194 D. Description & Justification Discription Supplemental Approval Request FY 16 194 D. Description & Justification Discription Supplemental Approval Request FY 16 194 D. Description & Justification Contract Road. The project includes one Alter Release and Vaccum valve and vault. Service Area Bowie Pressure Zone HG350E Supplemental Approval Request Current FY (15) JUSTIFICATION Plans & Studies WSSC Memorandum from Planning Group regarding Justification of Church Road Water Main Project dated June 7, 2005; M-NCP&RC Round 6.2 growth forecast; General Plan. Specific Data Nap Reference Code: UP 2015 H. Map Maproval Request FY 16 50 50 50 50 50 Cost Sume decreased to reflect engineer's estimate for construction. State Highway Administration, Prince George's County Government and Maryland-National Capital Park & Planning Commission (Mandatory Refereal Process). RODEN/NUSER RODEN/NUSER OCORDINATION Maryland State Highway Administration, Prince George's County Government and Maryland-National Capital Park & Planning Commission (Mandatory Refer	Other	83		58	25	25							Approved Request, Last FY	656
SOC 827 188 445 194 194 D. Description & Justification DESCRIPTION Supplemental Approval Request Durch Road Trom the existing 30-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to the State Highway to the existic and the development in Bowle Pressure Zone HG350E. Cost Name Cots Kunge Cost Change Cost Change <td>Total</td> <td>827</td> <td>188</td> <td>445</td> <td>194</td> <td>194</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Total Expenditures & Encumbrances</td> <td>188</td>	Total	827	188	445	194	194							Total Expenditures & Encumbrances	188
SDC 827 188 445 194 194 D. Description & Justification Difference Differeenco	C.		L.	Funding	schedu	le (000's)							Approval Request FY 16	194
D. Description & Justification DESCRIPTION This project provides for the planning, design, and construction of approximately 1.320 feet of 24-inch diameter water main in ofm. Church Road from the existing 30-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in Church Road. The project includes one Air Release and Vaccum valve and vault. Service Area Bowie Pressure Zone HG350E JUSTIFICATION Plans & Studies WSSC Memorandum from Planning Group regarding Justification of Church Road Water Main Project dated June 7, 2005; M-NOPAPC Round 6.2 growth forecasts; General Plan. Specific Data The purpose of this project is to provide service to future development in Bowie Pressure Zone HG350E. Costs were decreased to reflect engineer's estimate for construction. STATUS Final Design Complete (WSSC Contract No. BL4263A05,). OTHER The project scope has remained the same. Expenditure and schedule projections shown in Block B are design level estimates and may dange based upon site-specific conditions and actual bid. CORDINATION Maryland State Highway Administration, Prince George's County Government and Maryland-National Capital Park & Planning Commission (Mandatory Referral Process). NOTE This project supports 100% Growth.		827	188	-	_									
DESCRIPTION This project provides for the planning, design, and construction of approximately 1,320 feet of 24-inch diameter water main along Church Road from the existing 30-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Hanson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 24-inch diameter water main in John Planson Highway to an existing 20-inch Planson Highway to an existing 20-inch Planson Highway to an existing 20-inch Planson Planson Highway to an existing 20-inch Pla	D Description & Justification													
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may change based upon site-specific conditions and actual bid. COORDINATION Maryland State Highway Administration, Prince George's County Government and Maryland-National Capital Park & Planning Commission (Mandatory Referral Process). NOTE This project supports 100% Growth.			_											
COORDINATION Maryland State Highway Administration, Prince George's County Government and Maryland-National Capital Park & Planning Commission (Mandatory Referral Process). NOTE This project supports 100% Growth.						projection	is showr	n in Block I	B are des	gn level e	stimates	and	E	
Maryland State Highway Administration, Prince George's County Government and Maryland-National Capital Park & Planning Commission (Mandatory Referral Process). <u>NOTE</u> This project supports 100% Growth.														
Commission (Mandatory Referral Process). NOTE This project supports 100% Growth. 205NE12		stration P	rince Geo	orae's Cou	intv Gove	rnment ar	nd Marvla	and-Natior	nal Capita	Park & F	lanning		RODE	NHAUSER
									iai capita		g		MDWS	
205NE12 205NE12 1" = 1496 ft ^{1////////////////////////////////////}	NOTE This project supports 100°	% Growth.											Freeway Airport	
205NE12													102	VALLEY
													DUNYOOD	AN ANA
BUCCEST MOUNT A CONT													205NE12 1" =	1496 ft UNCANNO
													MOUNT MOUNT	Allen a

A. Identification and Co	oding Inforn	nation		2. Da	te [.] Octo	ber 1, 201	4	7. Pre PDI	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (0	00's)	FY of Ir	npac
1. Project Number Agen W-13		Update Change		Revis		,							Program Costs Staff Other Facility Costs Maintenance	182	·····	20
 Project Name: South Program: Sanita 		upply Impro 6. Planning		Hense	on Creek	P.A. 76B		5.Agency:	W	SSC			Total Costs Impact on Water or Sewer Rate	876 1058 2¢		20 20 20
В.			E	Expenditu	re Scheo	lule (000'	s)						F. Approval and Expenditure Data (00	0's)		
Cost Elements		(8) Total	(9) Thru FY '14	(10) Estimate FY '15	(11) Total 6 Years	(12) Year 1 FY '16	(13) Year 2 FY '17	(14) Year 3 FY '18	(15) Year 4 FY '19	(16) Year 5 FY '20	(17) Year 6 FY '21	(18) Beyond 6 Years	Date First in Capital Program	, 	FY	′ 12
Planning, Design & Supe	ervision	4,282	1,513	850	1,919	664	655	300	300				Date First Approved		FY	′ 07
Land													Initial Cost Estimate			25
Site Improvements & Util	lities												Cost Estimate Last FY		10,5	43
Construction		19,134		4,000	15,134	5,067	5,067	2,500	2,500				Present Cost Estimate		25,6	06
Other		2,190		485	1,705	573	572	280	280				Approved Request, Last FY		4,3	75
Total		25,606	1,513	5,335	18,758	6,304	6,294	3,080	3,080				Total Expenditures & Encumbrances		1,5	513
С.		<u> </u>		Funding	Schedu	le (000's)							Approval Request FY 16		6,30	04
WSSC Bonds		12,980		605	12,375	3,113	3,102	3,080	3,080				Supplemental Approval Request			
SDC		12,626	1,513	4,730	6,383	3,191	3,192						Current FY (15)	L		
D. Description & Justifi	cation												C. Status Information			

DESCRIPTION

This project provides for the design and construction of a new 42-inch diameter ductile iron pipe approximately 2.1 miles in length to replace an out-of-service, 42-inch diameter PCCP water transmission main, the relocation of up to 2 miles of existing 42-inch diameter PCCP water transmission main, a new flow control valve vault, and all associated piping and appurtenances.

Service Area Rosecroft Pressure Zone HG290A

JUSTIFICATION

Plans & Studies

"Henson Creek 42-inch Prestressed Concrete Cylinder Pipe Transmission Main Rehabilitation Study," Patton, Harris, Rust & Associates, Inc. (October 2008); "Concept Finalization Report," O'Brien & Gere Engineers Inc. (January 2014)

Specific Data

This project will provide a second major feed to Rosecroft Pressure Zone HG290A, which serves southwestern Prince George's County, primarily areas west of Indian Head Highway, including National Harbor. The northern section for the zone is approximately 10,600 feet of 42-inch diameter PCCP water main originally installed in the 1970's and consists of lined (PS-5) cylinder pipe and possible class IV wire. The WSSC has confirmed that the condition of the pipe is extremely poor and would present a service liability in the event of failure. In addition, after discussions with the Maryland Department of the Environment regarding extensive requirements for stream restoration, up to 2 miles of pipe in the southern section that is exposed along eroding stretches of Henson Creek will now be evaluated for relocation.

Cost Change

Costs were increased due to the decision to relocate up to 2 miles of the water main outside of the sensitive stream area along Henson Creek.

STATUS Final Design Complete (WSSC Contract Nos. BR4797A08 , BT5778A14).

OTHER

The project scope has changed due to the addition of up to 2 miles of 42-inch diameter water main relocations. Expenditure and schedule projections shown in Block B are Order of Magnitude level estimates and may change based upon a final determination as to the actual length of pipe to be relocated, final alignment, restoration requirements, and other site-specific conditions.

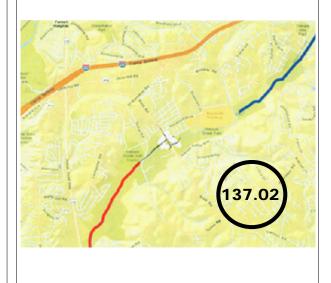
COORDINATION

Prince George's County Government, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Maryland Department of Natural Resources, Prince George's County Department of Public Works & Transportation and

Current FY (15)	
G. Status Information	
Land Status:	Not applicable
% Project Completion:	D-100%

% Project Completion:	D-100%
Est. Completion Date:	FY 2019

H. Map Map Reference Code:



D. DESCRIPTION & JUSTIFICATION (CONT.) Agency Number: W - 137.02 Pr

Project Name: South Potomac Supply Improvement

U.S. Army Corps of Engineers.

NOTE This project supports 49% Growth and 51% System Improvement.

A. Identification and Coding Info	rmation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Numbe	r Update	Code	Revis									Program Costs Staff
W-147.00	Change	!	Revis	eu.								Other Facility Costs Maintenance
3. Project Name: Collington Elevat	ed Water S	torage Fa	acility				5.Agency	W	SSC			Debt Service
4. Program: Sanitation	6. Plannin	g Area:	Collin	gton & Vi	cinity P.A.	74B						Total Costs 17
												Impact on Water or Sewer Rate 1¢ 17
В.			•		lule (000's	•		1		1		F. Approval and Expenditure Data (000's)
Cost Elements	(8) Total	(9) Thru FY '14	(10) Estimate FY '15	(11) Total 6 Years	(12) Year 1 FY '16	(13) Year 2 FY '17		(15) Year 4 FY '19	(16) Year 5 FY '20	(17) Year 6 FY '21	(18) Beyond 6 Years	Date First in Capital Program FY 98
Planning, Design & Supervision	1,563	1,313	200	50 ICars	50	1117	1110	1113	1120	1121	0 1 6 6 1 3	Date First Approved FY 98
Land	130	130										Initial Cost Estimate 12,536
Site Improvements & Utilities												Cost Estimate Last FY 17,480
Construction	12,055	2,517	7,500	2,038	2,038							Present Cost Estimate 14,726
Other	978	,	770	208	208							Approved Request, Last FY 6,742
Total	14,726	3,960	8,470	2,296	2,296							Total Expenditures & Encumbrances 3,959
C.					le (000's)							Approval Request FY 16 2,296
WSSC Bonds	7,363	1,980	4,235	1,148	1,148							
SDC	7,363	1,980	4,235	1,148	1,148							Supplemental Approval Request Current FY (15)
This project provides for the si Intermediate Zone. The site si property, at Leeland Road and modifications at the existing Ci to optimize the utilization of the Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High Zo Specific Data The Prince George's High Zon Zone to meet demands to the Cost Change Costs were decreased based to	election pha Route 301, entral Avenu e new Collin 's Intermedi Zone Facility PI year 2020. upon actual	ise includ was acqu ue Water gton Tanl ate Press / Plan (Ap an indicat During th bid.	ed a Com uired as th Pumping ks and pro sure Zone pril 1996); tes there i e siting ph	munity On he site for Station to ovide redu HG317A Water St water St s a need hase, this	utreach Pr the new v add an ad indancy in orage Volu to provide project de	ogram. vater sto dditional the affe ume Crit up to 4	A portion prage tanks I pump and ected zone Ca teria Repor	of the Sat s. This pr d upgrade s. pacity 4. rt (Novem	feway Dis oject also an existin 0 MG ber 2005 prage to ti	tribution F includes ng pump i n. ne Intermo	Facility n order	% Project Completion: C-5% Est. Completion Date: March 2016 H. Map Map Reference Code:
STATUS Under Construction (WS	SC Contrac	TNOS. BE	1775D96	, BP5410	JA12).							
OTHER The project scope has remained	ed the same	. Expend	ditures and	d schedul	e projectio	ons shov	wn in Block	B are ba	sed upon	actual bio	1. I	*
							2.00				-	Bunt
Prince George's County Gover 123.20, Oak Grove/Leeland Ro NOTE This project supports 50	oads Water	Main, Pa	rt 2.			g Comm	nission, Cit <u>y</u>	y of Bowie	e and WS	SC Projec	ct W-	diagton anth ream
			,		-							203SE14

A. Identification and Coding Inform	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	Pg.No.:	8. Req.	Adeq. Pul	b. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Number	Update				,	ſ						Program Costs Staff
W-197.00	Change	!	Revis	eu.								Other
3. Project Name: DSP & Conceptual	I Design V	Vater Pro	jects			ţ	5.Agency:	W	SSC			Debt Service
4. Program: Sanitation 6	6. Plannin	g Area:	Prince	e George'	s County							Total Costs
В.			Expenditu	re Scheo	lule (000':	•	1					F. Approval and Expenditure Data (000's)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program FY 85
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	
Planning, Design & Supervision	1,609	530	189	862	303	291	240	14	7	7	28	Date First Approved FY 85
Land												Initial Cost Estimate
Site Improvements & Utilities												Cost Estimate Last FY
Construction	8,100	2,105	725	5,036	1,498	1,780	1,523	117	59	59	234	Present Cost Estimate
Other	1,059		137	883	269	309	265	20	10	10	39	Approved Request, Last FY
Total	10,768	2,635	1,051	6,781	2,070	2,380	2,028	151	76	76	301	Total Expenditures & Encumbrances
С.		1	Funding	Schedu	le (000's)							Approval Request FY 16
Contribution/Other	10,768	2,635	1,051	6,781	2,070	2,380	2,028	151	76	76	301	
D. Description & Justification												Supplemental Approval Request Current FY (15)
DESCRIPTION This PDF provides the necessar conjunction with new developme to as Development Services Pro	ent to reinforcess (DSF	orce the e	existing sy s. This P	stem or to DF also p	o avoid fut rovides fu	ture disru nds for pi	ption to th	ie area. S the Conce	Such proje	cts are re ign (CD) j	phase	G. Status Information Land Status: Not applicable % Project Completion: Not Applicable
or final stages of facility planning when this CIP was prepared. Pr												Est. Completion Date: Not Applicable
the County government represer	ntatives fo	r informat	tion to aid	in fiscal,								H. Map Map Reference Code:
period. See the pages that follow	w for a co	mprehens	sive projec	t listing.								
JUSTIFICATION												
Plans & Studies												
DSP projects to serve new devel	lopment d	o not pro	ceed unle	ss the dev	velopment	has the	appropriat	e service	area and	an approv	ved	
preliminary plan of subdivision of through the Facility Planning Pro projects which require final plann rights-of-way acquisition. Where	ocess or of ning phase	ther mech e approva	nanisms. I, consulta	The WSS ant desigr	SC's intent	is to allo negotiati	w for begi ons, sub-	nning pre surface in	liminary d vestigatio	esign for ns, and la	nd and	SEE ATTACHED MAPS
these projects may require in-ho developed.												
Specific Data												
When Conceptual Design projec projects, a separate PDF will be will be displayed as stand-alone	prepared	by the W	SSC. The	ese PDF's	will inclue	de firm co	onstruction	n costs ar	d complet			
Cost Change				cycle. Th			not apply	10 001 p	nojecis.			
Not applicable.												
STATUS Not Applicable												

Agency Number: W - 197.00 Project Name: DSP & Conceptual Design Water Projects

<u>OTHER</u>

The project scope has remained the same. Implementation of DSP projects listed under this PDF is contingent upon the Applicants' meeting the project specified conditions. This requirement indicates that the Applicant is making a "good faith" effort to proceed to construction. Consequently, the implementation schedules of DSP projects are largely beyond the control of the WSSC and, instead, depend upon the actions of the Applicant. All new DSP projects are included with the stipulation that no WSSC rate supported debt will be used for these projects. The expenditure schedule reflected in this PDF is not intended to be a restriction but only an estimate of expenditures based on such considerations as historical trends, market expectations, Applicant schedules, and the number, stage, and scope of projects currently moving through the DSP. This PDF does not include funding for facility planning projects which also require county government review and approval and public interaction. Construction costs for Conceptual Design projects shown in Block B are very preliminary planning level estimates only, with approximate completion schedules, and may increase or decrease depending on site-specific conditions, design constraints, and market conditions. Construction costs for DSP projects are typically based upon preliminary design plans. The information in Block F pertains to this PDF in general and not to the individual projects listed on the pages that follow. DSP projects included in the listing that follows are 100% in support of future growth. The growth percentage for Conceptual Design projects vary and, therefore, is indicated on each individual listing as appropriate.

Agency Number: W-197.00 Project Name: DSP & Conceptual Design Water Projects

W-84.03 Smith Home Farms Water Main (DA4358Z06, DA4358A, C, & F 06)

7,600 feet of 16-inch diameter water main to serve the Smith Home Farms Subdivision. Water main alignment will be dependent on the road alignments selected by the Westphalia Sector Plan. Service Area: Southern Pressure Zone 385B; Status: C-25%; Estimated Total Project Cost: \$2,500,000. Expenditure and schedule projections are based upon information provided by the developer. Design and construction will be performed by the developer under a System Extension Permit. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-84.04 Westphalia Town Center Water Main (DA4599Z07, DA4599B07)

4,700 feet of 16-inch diameter water main to serve Westphalia Town Center and vicinity. Service Area: Prince George's County, Prince George's Pressure Zone 385B; Status: C-10%; Estimated Total Project Cost: \$1,438,000. Expenditure and schedule projections are based upon information provided by the developer. Design and construction will be performed by the developer under a System Extension Permit. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-93.01 Konterra Town Center East Water Main (DA4623Z07)

9,000 feet of 16-inch diameter water main to serve Konterra Town Center East, located in Prince George's County between Virginia Manor Road, the Intercounty Connector, and Interstate 95. Pressure Zone: Prince George's 415A; Status: P-100%; Estimated Total Project Cost: \$1,571,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-105.01 Marlton Section 18 Water Main, Lake Marlton Avenue (DA3599A,C&Z03)

6,500 feet of 16-inch diameter water main to provide service to East Marlton, Section 18, along Heathermore Boulevard and Lake Marlton Avenue. Service Area: Southern Pressure Zone 385B; Status: D-50%. This project will be completed in four phases. The project design for phase one, 900 feet of 16-inch diameter water main extending in an easterly direction along Heathermore Boulevard, has been approved and will be constructed under a System Extension Permit at an estimated cost of \$348,000. The remaining phases will be built in succession. Estimated Total Project Cost: \$2,708,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-120.14 Lakeview at Brandywine Water Main, Part 1 (DA9381Z92)

1,100 feet of 16-inch diameter water main to serve the Lakeview at Brandywine project. Status: P-100%; Estimated Total Project Cost: \$193,000. The project will need to be re-evaluated when the developer is ready to develop. A new cost estimate and schedule will be required at that time. No WSSC rate supported debt will be used for this project.

W-120.15 Lakeview at Brandywine Water Main, Part 2 (DA9381Z92)

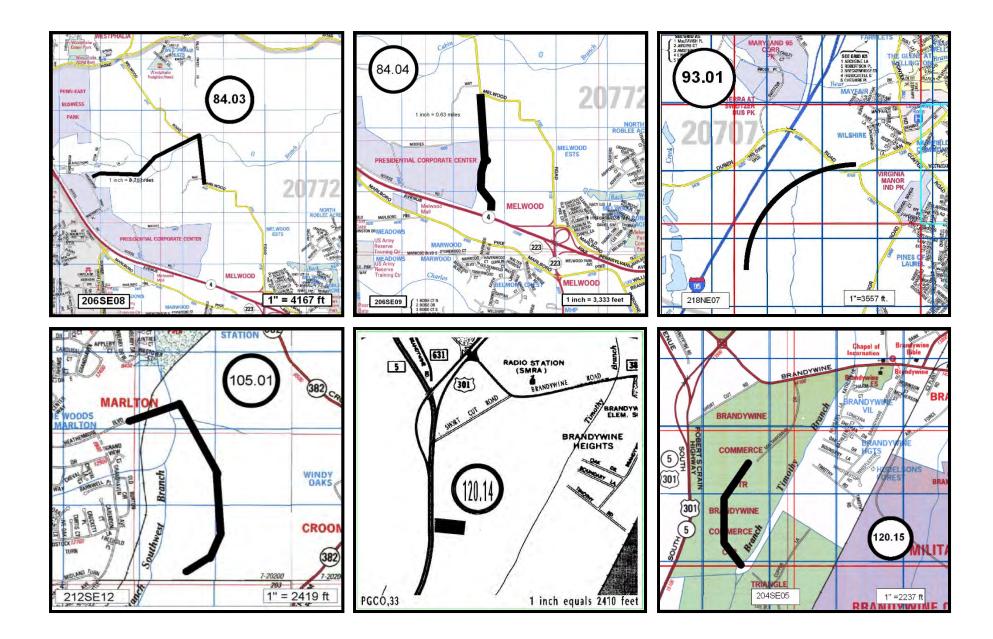
3,700 feet of 16-inch diameter water main to serve the Lakeview at Brandywine project. Status: P-100%; Estimated Total Project Cost: \$617,000. The project will need to be re-evaluated when the developer is ready to develop. A new cost estimate and schedule will be required at that time. No WSSC rate supported debt will be used for this project.

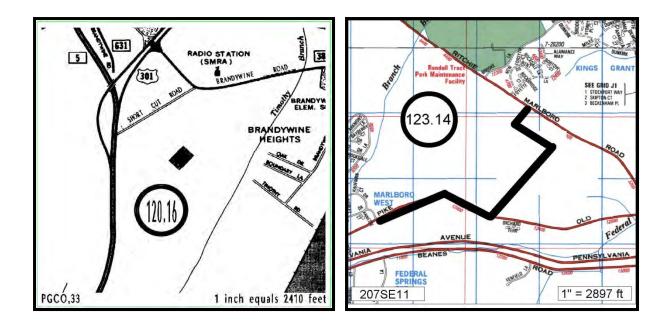
W-120.16 Lakeview at Brandywine Water Main, Part 3 (DA9381Z92)

200 feet of 16-inch diameter water main to serve the Lakeview at Brandywine project. Status: P-100%; Estimated Total Project Cost: \$47,000. The project will need to be re-evaluated when the developer is ready to develop. A new cost estimate and schedule will be required at that time. No WSSC rate supported debt will be used for this project.

W-123.14 Old Marlboro Pike Water Main (DA3538Z, A,D,E,G,H&J03)

9,000 feet of 16-inch diameter water main along Old Marlboro Pike and on-site at the Applicant's property to serve the Addison Property development. Service Area: Southern Pressure Zone 385B; Status: C-80%; Estimated Total Project Cost: \$1,694,000. Expenditure and schedule projections are based upon information provided by the developer. Design and construction will be performed by the developer under a System Extension Permit. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.





PROJECTS PENDING CLOSE-OUT Prince George's Water Projects (costs in thousands)

Project Number	Agency Number	Project Name	Estimated Total Cost	Expenditures Thru FY'14	Estimated Expenditures FY'15	Remarks
	W-204.00	Land & Rights-Of-Way Acquisition-Prince George's County	\$0	\$0	\$0	All land costs are consolidated in Bi-County Water.
		TOTALS	\$0	\$0	\$0	

Section 6 - Prince George's County Sewer Projects

DATE: October 1, 2014 REVISED: May 7, 2015

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

PRINCE GEORGE'S COUNTY SEWER PROJECTS

	AGENCY	PROJECT	EST.	EXPEND	EST.	TOTAL		EXF	PENDITUR	E SCHEDL	JLE		BUDGET	PDF
	NUMBER	NAME	TOTAL COST	THRU	EXPEND	SIX	YR 1	YR 2 17	YR 3	YR 4	YR 5	YR 6	REQUEST	PAGE
			COST	14	15	YEARS	16	17	18	19	20	21	16	NUM
	S-43.02	Broad Creek WWPS Augmentation	175,400	20,488	50,925	103,987	61,215	34,879	7,455	438	0	0	61,215	6-2
C32	S-57.92	Western Branch Facility Upgrade	46,418	39,531	6,837	50	50	0	0	0	0	0	50	6-4
	S-57.93	Western Branch WWTP Enhanced Nutrient Removal	41,057	36,194	4,813	50	50	0	0	0	0	0	50	6-5
See al	S-57.94	Western Branch WWTP Incinerator Emissions Control	19,856	1,022	1,553	17,281	9,031	7,590	660	0	0	0	9,031	6-7
	S-75.21	Mattawoman WWTP Upgrades	12,280	3,719	1,389	7,172	2,162	1,596	1,709	1,705	0	0	2,162	6-8
	S-77.19	Parkway WWTP Biosolids Facility Plan Implementation	31,997	9,179	17,389	5,429	5,429	0	0	0	0	0	5,429	6-9
	S-96.14	Piscataway WWTP Facility Upgrades	103,836	3,728	798	86,899	1,971	12,466	21,075	14,490	16,104	20,793	1,971	6-10
	S-131.10	Fort Washington Forest No. 1 WWPS Augmentation	3,955	484	955	2,516	1,518	782	216	0	0	0	1,518	6-11
	S-187.00	DSP & Conceptual Design Sewer Projects	11,883	2,217	3,143	6,005	2,974	1,795	717	259	130	130	2,974	6-12
		Projects Pending Close-Out	0	0	0	0	0	0	0	0	0	0	0	6-18
		TOTAL PRINCE GEORGE'S COUNTY SEWER PROJECTS	446,682	116,562	87,802	229,389	84,400	59,108	31,832	16,892	16,234	20,923	84,400	



Denotes projects which include an environmental component (see page 15 in the opening narrative.)

Notes for costs beyond six years:

Includes 518 for Project S-28.18, Konterra Town Center East Sewer (DA4623A,B, & Z07). Includes 12,411 for Project S-96.14, Piscataway WWTP Facility Upgrades.

A. Identification and Coding Infor	mation		2. Da	te: Octo	ber 1, 20 ²	14	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000	's) FY of Impact
1. Project Number Agency Number	S-43.02 Change					[Program Costs Staff	
S-43.02	Change		Revis	ea:		Ľ						Other Facility Costs Maintenance	 494 20
3. Project Name: Broad Creek WW	PS Augme	ntation				:	5.Agency:	W	SSC			Debt Service	2051 20
4. Program: Sanitation	6. Planning	g Area:	South	n Potoma	c Sector F	P.A. 80						Total Costs Impact on Water or Sewer Rate	2545 20 6¢ 20
В.		E	Expenditu	ire Scheo	lule (000'	s)						E Approval and Expanditure Data (000's	\
D.	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	F. Approval and Expenditure Data (000's)
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program	FY 09
Planning, Design & Supervision	18,104	9,786	2,500	5,818	3,300	1,918		200	1120	1121	0 10013	Date First Approved	FY 09
Land	227	227										Initial Cost Estimate	80,850
Site Improvements & Utilities												Cost Estimate Last FY	173,761
Construction	149,692	10,475	46,000	93,217	55,000	31,300	6,700	217				Present Cost Estimate	175,400
Other	7,377		2,425	4,952	2,915	1,661	355	21				Approved Request, Last FY	50,925
Total	175,400	20,488	50,925	103,987	61,215	34,879	7,455	438				Total Expenditures & Encumbrances	20,488
С.			Funding	g Schedu	le (000's)	I						Approval Request FY 16	61,215
WSSC Bonds	29,817	3,483	8,657	17,677	10,407	5,929	1,267	74				Supplemental Approval Request	
SDC	145,583	17,005	42,268	86,310	50,808	28,950	6,188	364				Current FY (15)	
D. Description & Justification												G. Status Information	
This project provides for modifie Creek sewerage basin flows to assessments of engineering, ed diameter force main and capac facility will be constructed in on- treatment. Implementation of th Department of the Environment power outages. The emergenc	the Piscata conomic, er ity enhancir e of the exis nis alternati : (MDE). Co	away Was nvironmen ng modifio sting basi ive is dep onstructio	stewater T ntal, and I cations at ins allowin endent or on costs s	reatment ocal com the pump ng intermi n approva hown abo	Plant. The munity im bing station ttent stora I from the	ne Broad pacts, an n. At the age of exc Environn	Creek WV d recomm Piscataw cess sewa mental Pro	VPS Facil ended the ay WWTF ge until fle tection Ag	lity Plan, i e construc P, a concr ows at the gency and	ncluded ction of a rete storage plant all the Mary	48-inch ge ow yland	Land Status: Site or R/W part % Project Completion: C-0% Est. Completion Date: FY 2019 H. Map Map Reference Code:	ly acquired
Service Area Broad Creek Dr													
JUSTIFICATION	0												
Plans & Studies													
Broad Creek Flow Monitoring a (2001 to 2005); Broad Creek Fa Management Plan, GHD, Inc. (I	acility Plan,	Delon Ha											
Specific Data												MAP NOT AVAILABLE	4
This project stems from the follo Creek), Sanitary Sewer Overflo												0.000	
Cost Change													
Costs were increased to reflect process.	the latest a	available	estimate	and to add	dress add	itional reg	gulatory re	quiremen	ts as part	of the pe	ermitting		
STATUS Final Design Complete (V CP4231C05, CP4231G0					4231A05	, CM4231	1B05 , CM	4231C05	, CP4231	B05 ,			
<u>OTHER</u>													
The project scope has remained estimates. The WSSC has con- expedite the completion of the o	npressed th	ne design	schedule	and will l	be implem	nenting m	ultiple con	tracts for					

Agency Number: S - 43.02 Project Name: Broad Creek WWPS Augmentation

COORDINATION

Maryland State Highway Administration, Prince George's County Government, Maryland-National Capital Park & Planning Commission, National Park Service, Maryland Department of the Environment, Maryland Department of Natural Resources, Prince George's County Department of Environmental Resources, U.S. Army Corps of Engineers and U.S. Environmental Protection Agency, Region III.

NOTE This project supports 83% Growth and 17% System Improvement.

A. Identification and Coding Inform	mation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (0	DO's) FY of Impact
1. Project Number Agency Number	Update	Code	Revis									Program Costs Staff	
S-57.92	Change	;	Revis	eu.								Other Facility Costs Maintenance	
3. Project Name: Western Branch F	acility Upg	grade					5.Agency:	W	SSC			Debt Service	3898 17
4. Program: Sanitation	6. Plannin	g Area:										Total Costs	3898 17
												Impact on Water or Sewer Rate	9¢ 17
В.			•		lule (000':	,						F. Approval and Expenditure Data (000	l's)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 06
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 06
Planning, Design & Supervision	11,717	10,207	1,485	25	25								
Land												Initial Cost Estimate	6,325
Site Improvements & Utilities												Cost Estimate Last FY	45,815
Construction	34,074	29,324	4,730	20	20							Present Cost Estimate	46,418
Other	627		622	5	5							Approved Request, Last FY	2,784
Total	46,418	39,531	6,837	50	50							Total Expenditures & Encumbrances	39,531
C.			Funding	g Schedu	le (000's)							Approval Request FY 16	50
WSSC Bonds	46,418	39,531	6,837	50	50							Supplemental Approval Request	
D. Description & Justification	*			•	· · · · · ·							Current FY (15)	
DESCRIPTION												G. Status Information	
aging systems and to continue t activation, biosolids stabilization chambers, air blower replaceme	n and stora ents, HVAC	ige facilitie C, and ele	es, a new	scum ren			sewage p	ump statio	on upgrad			Land Status:No land or R/N% Project Completion:C-80%Est. Completion Date:FY 2016	V required
Service Area Western Branch	n Drainage	Basin					Ca	pacity 30	J.6 MGD			H. Map Map Reference Code:	
JUSTIFICATION Plans & Studies													
Western Branch Facility Plan, J Facility Plan; Western Branch E 2007).													
Specific Data			41 I				- 4 4 ¹ 1' D'	-1					
The plant was originally designed instead, relying on the addition of					WIP that	does no	ot utilize Bi	ological N	litrogen R	emoval (E	BNR);		
Cost Change Not applicable.													
STATUS Under Construction (WSS	C Contrac		1173 0 05	`								MAP NOT AVAILABL	E
````````````````````````````````		, NO. CD4	F175A05,	)-									
OTHER The project scope has remained The permit application process issued on October 31, 2011. Th Revolving Loan Program.	was starte	d in May 2	2009. The	e MDE co	nstruction	permit v	was obtain	ed in Mar	ch 2011.	The NTP	was		
COORDINATION													
Prince George's County Govern Resources and WSSC Project S								County De	partment	of Enviroi	nmental		
NOTE This project supports 100	% System	Improven	nent.										

A. Identification and Coding Inform	mation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pi	ub. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact
1. Project Number Agency Number	Update	Code			, .							Program Costs Staff	
S-57.93	Change	<b>;</b>	Revis	seu.					·			Other Facility Costs Maintenance	
3. Project Name: Western Branch V	VWTP Enl	hanced N	utrient Re	emoval			5.Agency	: W	SSC			Debt Service	
4. Program: Sanitation	6. Plannin	g Area:										Total Costs	
												Impact on Water or Sewer Rate	
В.		E	Expenditu	ure Schec	lule (000':	s)						F. Approval and Expenditure Data (000's)	
	(8)	(9) That	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17		Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program	FY 07
Planning, Design & Supervision	8,710	8,020	665	25	25							Date First Approved	FY 07
Land												Initial Cost Estimate	70,950
Site Improvements & Utilities												Cost Estimate Last FY	39,109
Construction	31,904	28,174	3,710	20	20							Present Cost Estimate	41,057
Other	443		438	5	5							Approved Request, Last FY	2,924
Total	41,057	36,194	4,813	50	50							Total Expenditures & Encumbrances	36,194
C.			Funding	g Schedu	lo (000'c)							Approval Request FY 16	50
State Aid	41,057	36,194	4,813		50 50								00
	41,001	00,104	4,010		00							Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
DESCRIPTION												G. Status Information	
This project provides for the plan												Land Status: Not Applicable	
requirements of the Maryland De ENR design continues the operation												% Project Completion: C-80%	
Activated Sludge pumping static													
activated sludge improvements.	,	.eg		0. 00				oouloul up	9.4400, 4	nu nuoto		Est. Completion Date: FY 2016	
Service Area Western Branch	Drainage	Basin										H. Map Map Reference Code:	
<b>JUSTIFICATION</b>													
Plans & Studies													
Western Branch Enhanced Nutr													
Nutrient Removal and Facility U Environment Eligibility Determin					tcair and i	=ddy (Al	ugust 2007	r); Marylar	id Departi	ment of ti	ne		
Specific Data		. (	,	- /									
The Bay Restoration Fund Enha	anced Nutr	rient Rem	oval (ENF	R) Progran	n's purpos	se is to n	neet the c	ommitmer	its under t	he 2000			
Chesapeake Bay Agreement. F													
The ENR strategy builds on the	success o	of the Biolo	ogical Nu	trient Rem	oval (BNF	R) Progr	am alread	y in place.	The MD	E is using	g the		
Bay Restoration Fund to upgrad												MAP NOT AVAILABLE	
technologies. Once upgraded, t	hese plan	ts are exp	ected to	reduce nit	rogen and	l phosph	orus in the	e wastewa	ter down	to 3 mg/l	total		
nitrogen and 0.3 mg/l total phos Agreement. Other pollutants wi						needed	reduction	under the	Chesape	аке вау	2000		
Cost Change					00,01								
Not applicable.													
STATUS Under Construction (WSS	C Contrac	t No. CD4	4257A05,	).									
OTHER													
The project scope has remained	the same	e. The ex	penditure	s and sch	edule proj	ections s	shown in E	Block B are	e based u	pon actua	al bid.		
The funding schedule reflects th													
The MDE construction permit wa	as obtaine	d in Marc	h 2011. \	NSSC and	d MDE ha	ve nego	tiated a co	nsent agr	eement fo	r this pro	oject.		
The consent agreement date for	r the ENR	substantia	al comple	tion is Jar	nuary 1, 20	016 and	effluent di	scharge c	ompliance	e by Janu	uary 1,		
2017.													
· ·													

#### Agency Number: S - 57.93 Project Name: Western Branch WWTP Enhanced Nutrient Removal

# **COORDINATION**

Maryland Department of the Environment, Prince George's County Department of Environmental Resources, Local, State & Congressional Officials, Patuxent River Commission and WSSC Project S-57.92, Western Branch Facility Upgrade.

**NOTE** This project supports 100% Environmental Regulation.

A. Identification and Coding Infor	mation		2. Da	te: Octo	ber 1, 20 ⁻	14	7. Pre PD	F Pg.No.:	8. Req. A	deq. Pı	ub. Fac.	E. Annual Operating Budget Impact (00	00's) FY of Impact
1. Project Number Agency Number	Update	Code			,	[						Program Costs Staff	
S-57.94	Change	;	Revis	sed:		Ŀ						Other Facility Costs Maintenance	
3. Project Name: Western Branch V	NWTP Inci	inerator E	missions	Control			5.Agency:	W	SSC			Debt Service	1366 19
4. Program: Sanitation	6. Planning	g Area:										Total Costs	1366 19
												Impact on Water or Sewer Rate	3¢ 19
В.				1	dule (000'			1	1 1		1	F. Approval and Expenditure Data (000	's)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 14
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 14
Planning, Design & Supervision	3,144	1,022	912	1,210	710	400	100					Initial Cost Estimate	19,457
Land												Cost Estimate Last FY	19,868
Site Improvements & Utilities	45.000		500		7 500	0.500	500						
Construction	15,000		500	14,500	7,500	6,500						Present Cost Estimate	19,856
Other	1,712		141	1,571	821	690						Approved Request, Last FY	7,590
Total	19,856	1,022	1,553	17,281	9,031	7,590	660					Total Expenditures & Encumbrances	1,022
С.		T.			le (000's)		I	I	1		1	Approval Request FY 16	9,031
WSSC Bonds	19,856	1,022	1,553	17,281	9,031	7,590	660					Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
DESCRIPTION													
This project provides for the pla												G. Status Information	
incinerators to meet the US EP.												Land Status: Not applicable	
biosolids as "solid waste" under equipment could include a Wet								ion. The	required em	issions	control	% Project Completion: D-50%	
		alic Fiech		a Regen			XIUIZEI.					Est. Completion Date: FY 2018	
JUSTIFICATION												H. Map Map Reference Code:	
Plans & Studies													
Western Branch Incinerator Em	issions Co	ntrol Proj	ect - Pha	se 1 Final	Technica	l Memora	andum, HI	DR Engine	eering, Inc.,	(July 2	013).		
Specific Data													
The Western Branch WWTP pr													
incinerated onsite. The existing three decant tanks, two high sp	) biosolids 1	facilities i	nclude fiv	e dissolve	ed air flota	tion thick	ceners, two	o thickene	ed biosolids	storage	e tanks,		
under Section 129 and they inc													
Matter, Sulfur Dioxide, Polychlo	rinated dib	enzo-p-di	ioxins, an	d Polychlo	prinated di	ibenzofur	ans. The	limits for	incineration	vary			
depending upon whether the inc													
(as a % of the original cost) spe 21, 2016.	ent on upgra	ading or r	repairing t	he facilitie	es. The in	cinerator	s are requ	lired to be	e in compliar	nce by	March	MAP NOT APPLICA	RIF
Cost Change													DLL
Not Applicable.													
<b>STATUS</b> Preliminary Design (WSS	C Contract	t No. CD5	5415A12,	).									
OTHER													
The project scope has remained estimates and are expected to a								B above a	ire prelimina	ary desi	gn level		
COORDINATION													
Maryland Department of the En 103.00, Energy Performance Pr		Prince G	ieorge's C	ounty De	partment	of Enviro	nmental R	lesources	and WSSC	Projec	t A-		
<b>NOTE</b> This project supports 100	-	mental Re	egulation.										

A. Identification and Coding Inform		2. Da	te: Octol	ber 1, 201	4 7	. Pre PDF	Pg.No.:	8. Req. Ade	q. Pub. Fa	E. Annual Operating Budget Impact (000's)	FY of Impact	
1. Project Number Agency Number	Update		Dde Revised:							Program Costs Staff		
S-75.21	Change		Revis	ea.							Other Facility Costs Maintenance	
3. Project Name: Mattawoman WW	TP Upgrad	es				5	Agency:	W	SSC		Debt Service	20
4. Program: Sanitation	6. Planning	g Area:		keek P.A. Piscatawa				A. 85A, (	Cedarville & V	icinity P. A	Total Costs     669       Impact on Water or Sewer Rate     1¢	20 20
В.		E	xpenditu	re Sched	ule (000's	s)					F. Approval and Expenditure Data (000's)	
	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)		17) (1		
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19		ar 6 Bey ′'21 6 Ye		FY 08
Planning, Design & Supervision	2,299	1,133	231	935	286	243	205	201			Date First Approved	FY 08
Land											Initial Cost Estimate	760
Site Improvements & Utilities											Cost Estimate Last FY	8,056
Construction	9,896	2,586	1,144	6,166	1,855	1,337	1,487	1,487			Present Cost Estimate	12,280
Other	85		14	71	21	16	17	17			Approved Request, Last FY	1,508
Total	12,280	3,719	1,389	7,172	2,162	1,596	1,709	1,705			Total Expenditures & Encumbrances	3,719
C.			Funding	Schedul	o (000's)						Approval Request FY 16	2,162
USSC Bonds	12,280	3,719	1,389	7,172	2,162	1,596	1,709	1,705				2,102
	,	0,1.10	.,	.,	_,	1,000	.,	.,			Supplemental Approval Request Current FY (15)	
D. Description & Justification DESCRIPTION												
This project provides for the WS Mattawoman Interceptor and Wa Automation, Electrical System R Improvement, Biosolids Feasibili Service Area Mattawoman Dra	astewater 1 Replacementity Study, F	Treatmen nt, Sewer Flow Equa	t Plant. C	Current pro	ojects incl	ude: Influ vation, In-	ent/Efflue Plant Wa ener Upg	ent Pump ter Syster rades.	Station Upgra	ades, Plan and	Land Status: Public/Agency owned % Project Completion: On-Going Est. Completion Date: On-Going	and
								Pla	ant Capacity c	of 20 MGD	H. Map Map Reference Code:	
JUSTIFICATION												
Plans & Studies	000 0			1. 4. 4. 4. 4.		0004						
Agreement dated October 22, 19 Specific Data	980; Agree	ement Add	aenaum r		a April 15,	2004.						
Prior evaluations of equipment a evaluation of the Head Works, Ir specific scope of hydraulic, contr the efficiency of operation and m high wet weather flows. The Bios <b>Cost Change</b> The expenditure schedule reflec Equilization, Influent/Effluent Pu	nfluent/Effli rol, capacit naintenanc solids Stud ts the lates	uent Pum ty, and sa e, thereby ly is to inv st informa	nps, and I afety upgr y minimiz vestigate ation provi	nfluent We ades to th ing resour the produc	et Well wa le Influent cce utilizat ction of Cl narles Cou	as also de /Effluent F ion and a lass A bio	emed neo Pump Sta voiding co solids.	cessary ir tion. Plar osts. The	order to iden at automation I/I Project is j	tify the will improv ustified by	MAP NOT AVAILABLE	
<b>STATUS</b> Not Applicable (WSSC Co					jeetei							
OTHER			, .									
The project scope has remained MGD of the WWTP's capacity, a associated costs will be added to proportionate cost share decreas indefinitely.	and pays a o this proje	proportic ect. Begir	nate shai nning in F	e of the c Y 2007, th	apital exp ne total pla	enses. A ant capac	s new upo ity increas	grade sub sed to 20	-projects are a MGD, and WS	added, the SSC's		
COORDINATION												
Charles County Government (De	epts of Utili	ities, Plar	nning & G	rowth Mar	nagement	, and Fisc	al Service	es).				
NOTE This project supports 100%	% System	Improven	nent.									

A. Identification and Coding Information			2. Date: October 1, 2014				7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.					E. Annual Operating Budget Impact (000's) FY of Impact			
1. Project Number Agency Number Update Code		Revis		, ,							Program Costs Staff				
S-77.19 Change												Other Facility Costs Maintenance			
3. Project Name: Parkway WWTP Biosolids Facility Plan Implementation 5. Agency: WSSC											Debt Service	1945 17			
4. Program: <b>Sanitation</b> 6. Planning Area: South Laurel - Montpelier P.A. 62										Total Costs         1945         17           Impact on Water or Sewer Rate         4¢         17					
В.		E	xpenditu	re Schec	lule (000's)							F. Approval and Expenditure Data (000	)'s)		
	(8)	(9) Thru	(10) Estimate	(11) Total		(13) Year 2		(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	, FY 09		
Cost Elements Planning, Design & Supervision	Total <b>5,448</b>	FY '14 3,285	FY '15 1,623	6 Years 540	FY '16 540	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 09		
Land	3,440	5,205	1,025	540	540							Initial Cost Estimate	288		
Site Improvements & Utilities												Cost Estimate Last FY	32,509		
Construction	24,474	5,894	14,185	4,395	4,395							Present Cost Estimate	31,997		
Other	2,075		1,581	494	494							Approved Request, Last FY	12,244		
Total	31,997	9,179	17,389	5,429	5,429							Total Expenditures & Encumbrances	9,179		
C.			Funding	Schedu	le (000's)							Approval Request FY 16	5,429		
WSSC Bonds	31,997	9,179	17,389	5,429	5,429							Supplemental Approval Request			
D. Description & Justification							-		1	1					
DESCRIPTION															
This project provides for the plan	This project provides for the planning, design, and construction of new solids handling facilities and equipment for the Parkway WWTP.														
Service Area Parkway Drainage Basin Capacity 7.5 MGD												Land Status: Not applicable			
JUSTIFICATION												% Project Completion: C-16% Est. Completion Date: October 2015			
Plans & Studies															
Memorandum from the Producti Hill, Inc. (October 2009).	on Team da	ated Apri	il 27, 2007	; WSSC	Parkway W	WTP E	Biosolids F	acility Pla	an, Volume	es I & II, (	CH2M	H. Map Map Reference Code:			
Specific Data															
Currently, the facility utilizes centrifuges to dewater approximately 1,500 wet tons of solids/month. The centrifuges are installed in two parallel configurations which cannot be operated simultaneously. One side consists of three 35-year-old centrifuges and supporting equipment, such as plow blenders and belt conveyors. The other side consists of one centrifuge, lime screw conveyors, a pugmill, lime stabilized conveyors, and a lime stabilized sludge storage silo. The facility plan evaluated the solids handling capabilities of the Parkway WWTP and recommended the replacement of the aging facility and equipment.															
Cost Change Not Applicable.												and the second of			
STATUS Under Construction (WSS	C Contract	Nos. CD	4643B07	, CP4643	3A07 , CP4	643B0	7).					MAP NOT AVAILABLE			
OTHER				,			,								
The project scope has remained	I the same.	Expendi	ture and s	schedule	projections	shown	above are	e based u	pon actua	bid.					
COORDINATION															
Prince George's County Govern Environmental Resources.	ment, Mary	land Dep	partment o	of the Env	rironment a	nd Prin	nce George	e's County	/ Departm	ent of					
<b>NOTE</b> This project supports 100°	% System I	mproven	nent.												
		•													

A. identification and Cooling information       2. Date: October 1, 2014       7. Pre PDF Pg.Not. 6. Req. Adeq. Pub. Pac.       9. Adeq. Pub. Pac.       9. Adeq. Pub. Pac.       9. Program Budget impact (000's)       9. Prompact         1. Project Number       S-96.14       Change       Revised:       9. Program Costs       Staff       9. Pro
S-96.14       Change         3. Project Name: Piscataway WWTP Facility Upgrades       5.Agency:       WSSC         4. Program:       Sanitation       6. Planning Area:       Accokeek P.A. 83         Sependiture Schedule (000's)         B.       Expenditure Schedule (000's)         (8)       (9)       (10)       (11)       (12)       (13)       (14)       (15)       (16)       (17)       (18)         Cost Elements       Total       FY '14       FY '15       G Years       FY '16       FY '17       FY '18       FY '19       FY '20       FY '21       G Years       FY '12       Date First in Capital Program       FY '12
3. Project Name: Piscataway WWTP Facility Upgrades 5. Agency: WSSC 4. Program: Sanitation 6. Planning Area: Accokeek P.A. 83 B. Expenditure Schedule (000's) Cost Elements 104 (10) (10) (11) (12) (13) (14) (15) (16) (17) (18) Total FY '14 FY '15 6 Year 1 Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Beyond F. Approval and Expenditure Data (000's) Date First in Capital Program FY 12 Date First in Capital Program FY 12
Expenditure Schedule (000's)       Impact on Water or Sewer Rate
B.         Expenditure Schedule (000's)           (8)         (9)         (10)         (11)         (12)         (13)         (14)         (15)         (16)         (17)         (18)           Cost Elements         Total         FY '14         FY '15         G Years         FY '16         FY '17         FY '18         FY '19         FY '20         FY '21         G Years         FY '12         FY '12         Date First in Capital Program         FY '12
(8)         (9)         (10)         (11)         (12)         (13)         (14)         (15)         (16)         (17)         (18)           Cost Elements         Total         FY '14         FY '15         6 Years         FY '16         FY '17         FY '18         FY '19         FY '20         FY '21         6 Years         FY '10         FY '19         FY '20         FY '21         6 Years         FY '10         FY '10         FY '10         FY '10         FY '20         FY '21         6 Years         FY '10         FY '10         FY '10         FY '20         FY '21         6 Years         FY '10         FY '10         FY '10         FY '20         FY '21         6 Years         FY '10         FY '10         FY '20         FY '21         6 Years         FY '10         FY '10         FY '11         FY '10         FY '10         FY '20         FY '21         6 Years         FY '10         FY '10         FY '10         FY '20         FY '21         6 Years         FY '10         FY '10         FY '10         FY '20         FY '21         6 Years         FY '10         FY '10         FY '10         FY '10         FY '10         FY '11         FY '10         FY '10         FY '10         FY '20         FY '21         6 Years
Cost Elements       Total       FY '14       FY '15       6 Years       FY '16       FY '17       FY '18       FY '19       FY '20       FY '21       6 Years       Date First in Capital Program       FY '12
Cost Elements Total FY '14 FY '15 6 Years FY '16 FY '17 FY '18 FY '19 FY '20 FY '21 6 Years
Planning Design & Supervision 19558 3728 760 14 010 1 877 2 282 3 081 2 810 2 077 1 883 1 060 Date First Approved FY 12
Construction         79,510         68,750         9,590         16,990         13,260         17,920         10,760         Present Cost Estimate         103,836
Other         4,768         38         4,139         94         594         1,004         690         767         990         591         Approved Request, Last FY         6,825
Total         103,836         3,728         798         86,899         1,971         12,466         21,075         14,490         16,104         20,793         12,411         Total Expenditures & Encumbrances         3,728
C. Funding Schedule (000's) Approval Request FY 16 1,971
WSSC Bonds 103,836 3,728 798 86,899 1,971 12,466 21,075 14,490 16,104 20,793 12,411 Supplemental Approval Request
D. Description & Justification
DESCRIPTION G. Status Information
This project provides for a Facility Plan and design and construction of the upgrades required to prevent plant overflows or permit
violations which can occur during significant rainfall events. The work will remove bottlenecks within the plant process trains, address the physical capacity of the system, and rehabilitate existing equipment that has reached its expected service life ensuring the ability of % Project Completion: P-100%
the plant to achieve its permit-required level of service FY 2023
Service Area Piscataway Creek Drainage Basin Capacity 30 MGD
JUSTIFICATION H. Map Map Reference Code:
Plans & Studies
FY 2012 Piscataway WWTP Asset Management Plan, GHD, Inc. (March 2011). Piscataway WWTP Facility Plan, AECOM, (January 2014).
Specific Data
In the Asset Management Plan the condition assessment process identified several areas of concern within the plant process trains
that could potentially result in capacity or level of service failures during significant rainfall events. The Facility Plan provided a more
detailed study that included the development of a plantwide hydraulic and biological process model, CCTV inspection of buried piping, analysis of soil borings, and Level 3 Condition Assessment of electrical systems. Projects within the Facility Plan were justified and
prioritized using WSSC's Asset Management Strategy guidelines, based on lifecycle costs, business risk exposure, and needs
prioritization. MAP NOT AVAILABLE
Cost estimate was increased to reflect additional ungrades identified as the Essility Dian programsed. The revised estimate includes
Cost estimate was increased to reflect additional upgrades identified as the Facility Plan progressed. The revised estimate includes the replacement of major electrical equipment, upgrade of two secondary clarifiers, addition of separate polymer systems, upgrade of
the plant utility water system, and rehabilitation of two cast iron sludge lines.
STATUS Planning (WSSC Contract No. CD5170A11, ).
OTHER
The project scope has remained the same. Expenditure and schedule projections shown in Block B represent planning level estimates and may change as project moves into design. The Asset Management Group will determine the priority of the recommended projects.
COORDINATION
Prince George's County Government, Maryland Department of the Environment, Prince George's County Department of Environmental Resources and WSSC Project S-43.02, Broad Creek WWPS Augmentation.
NOTE This project supports 100% System Improvement.

A. Identification and Coding Information 1. Project Number Agency Number Update Code			2. Da	2. Date: October 1, 2014 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.							E. Annual Operating Budget Impact (000's) FY of Impact					
1. Project Number Agency Number										Progra	m Costs	Staff				
S-131.10	S-131.10 Change Revised:										Facility	Costs	Other Maintenance		····	
3. Project Name: Fort Washington Forest No. 1 WWPS Augmentation 5. Agency: WSSC													Debt Service	127	19	
4. Program: Sanitation	6. Planning	g Area:												or Sewer Rate		19
												Impact				
В.	(-)		-	ire Sched		-		(1-)	(1.0)			F. App	roval and	Expenditure Data (0	00's)	
Cost Elements	(8) Total	(9) Thru FY '14	(10) Estimate FY '15	(11) Total 6 Years	(12) Year 1 FY '16	(13) Year 2 FY '17	(14) Year 3 FY '18	(15) Year 4 FY '19	(16) Year 5 FY '20	(17) Year 6 FY '21	(18) Beyond 6 Years	Date F	irst in Capit	tal Program		FY 13
Planning, Design & Supervision	928	484	200	244	120	80	44	1110	1120	1121	0 10013	Date F	irst Approv	ed		FY 13
Land												Initial (	Cost Estima	ate		1,454
Site Improvements & Utilities												Cost E	stimate Las	st FY		2,995
Construction	2,574		630	1,944	1,200	600	144					Preser	nt Cost Esti	mate		3,955
Other	453		125	328	198	102	28					Approv	ed Reques	st, Last FY		1,139
Total	3,955	484	955	2,516	1,518	782	216					Total E	xpenditure	s & Encumbrances		484
С.			Funding	schedul	e (000's)		I			I		Approv	al Request	t FY 16		1,518
WSSC Bonds	3,955	484	955	2,516	1,518	782	216					Supplemental Approval Request				
D. Description & Justification		1	I				I			I			nt FY (15)	oloval Request		
DESCRIPTION																
This project provides for the plan	nning, desi	ign and c	onstructio	n of the re	habilitatio	on work re	equired fo	the Fort	Washingt	on Fores	st No.1	G. Sta	tus Inform	ation		
WWPS to upsize a 900 foot seg	ment of fa	iling 4-ind	ch diamet	er force m	ain to an	8-inch dia	ameter for	ce main.	The reha	bilitation	will	Land Status: Not determined				
result in more than doubling the pumping station's capacity. In addition, approximately 2,700 feet of downstream 8-inch diameter													ect Comple			
	gravity sewer will be upsized to 12-inch diameter to accommodate the additional flow. At Fort Washington Estates, improvements will be planned, designed and constructed at the WWPS facility to improve its reliability and the existing force main and downstream												ompletion D	Date: March 2018		
be planned, designed and constructed at the WWPS facility to improve its reliability and the existing force main and downstream gravity sewer will be upsized to accommodate the additional flow.												Н. Мар	Map R	Reference Code:		
JUSTIFICATION Plans & Studies																
July 2005 Study by Ken Dixon, F	Planning G	Group, out	lined work	k to be dor	ne on the	Fort Was	shinaton F	orest No.	1 WWPS	and For	t					
Washington Estates WWPS.																
Specific Data																
There have been additional over approved a 180-Day Report, ma								January 2	2, 2013,	the EPA						
Cost Change																
The cost increase is due to the a Estates WWPS, upsizing approx												MAP NOT AVAILABLE				
inch diameter downstream gravi						ice main	anu appro	JAIMatery	2,000 100		ing o-					
STATUS Final Design (WSSC Cont	tract Nos. (	CP6009A	.11 , CP60	009B11).												
OTHER																
The project scope has changed projections shown above are de March 2014 for the Fort Washin	sign level e	estimates	and may	change b	ased upo	n site cor	nditions ar									
COORDINATION	0															
Prince George's County Govern Environmental Resources and L							ssion, Prir	ice Georg	e's Count	ty Depart	ment of					
<b>NOTE</b> This project supports 100 ^o				, rigency,	. togion in											
1												1 1				

A. Identification and Coding Information			2. Da	2. Date: October 1, 2014				F Pg.No.:	8. Req.	Adeq. Pu	b. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact				
1. Project Number Agency Number Update Code					,	· [						Program Costs Staff				
S-187.00 Change		Revis	eu.								Other Facility Costs Maintenance					
3. Project Name: DSP & Conceptua	jects			!	5.Agency:	W	SSC			Debt Service						
4. Program: Sanitation	Princ	e George'	s County							Total Costs Impact on Water or Sewer Rate						
B. Expenditure Schedule (000's)										F. Approval and Expenditure Data (000's)						
	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)					
Cost Elements	Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years	Date First in Capital Program FY 85				
Planning, Design & Supervision	1,946	743	448	707	413	154	92	24	12	12	48	Date First Approved FY 85				
Land												Initial Cost Estimate				
Site Improvements & Utilities												Cost Estimate Last FY				
Construction	8,676	1,474	2,285	4,515	2,173	1,408	531	201	101	101	402	Present Cost Estimate				
Other	1,261		410	783	388	233	94	34	17	17	68	Approved Request, Last FY				
Total	11,883	2,217	3,143	6,005	2,974	1,795	717	259	130	130	518	Total Expenditures & Encumbrances				
С.			Funding	Schedu	le (000's)		1				Approval Request FY 16					
Contribution/Other								259	130	130	518	Supplemental Approval Request				
D. Description & Justification												Current FY (15)				
DESCRIPTION																
This PDF provides the necessar	y approval	to desigr	n and con	struct pro	jects whic	h serve r	new devel	opment or	are to be	built in		G. Status Information				
conjunction with new developme												Land Status: Not Applicable				
to as Development Services Pro or final stages of facility planning												% Project Completion: Not Applicable Est. Completion Date: Not Applicable				
when this CIP was prepared. Pr	reliminary c	constructi	ion expen	diture dat	a for this o	class of p	projects ha	as been in	cluded at	the reque	st of					
the County government represent					infrastruct	ure, and	resource	planning fo	or the six-	year prog	ram	H. Map Map Reference Code:				
period. See the pages that follow for a comprehensive project listing.																
JUSTIFICATION																
Plans & Studies																
DSP projects to serve new deve																
preliminary plan of subdivision o through the Facility Planning Pro											olisnea					
projects which require final plan	ning phase	approva	l, consulta	ant design	, contract	negotiati	ions, sub-	surface in	vestigatio	ns, and la		SEE ATTACHED MAPS				
rights-of-way acquisition. Where projects may require in-house re																
developed.			oveninei	it i olicy i		Sup (Fixe		1011, 83 00	aneu uea	ign data i	5					
Specific Data																
When Conceptual Design project	ts progress	s beyond	the 30%	design st	age for fac	cility proje	ects and 6	0% desig	n stage fo	or pipeline						
projects, a separate PDF will be will be displayed as stand-alone										tion dates	, and					
Cost Change	will be displayed as stand-alone PDF's in the CIP in the next cycle. This last criteria does not apply to DSP projects. Cost Change															
Not applicable.																
STATUS Not Applicable																

#### Agency Number: S - 187.00 Project Name: DSP & Conceptual Design Sewer Projects

#### <u>OTHER</u>

The project scope has remained the same. Implementation of DSP projects listed under this PDF is contingent upon the Applicants' meeting project specified conditions. This requirement indicates that the Applicant is making a "good faith" effort to proceed to construction. Consequently, the implementation schedules of DSP projects are largely beyond the control of the WSSC and, instead, depend upon the actions of the Applicant. All new DSP projects are included with the stipulation that no WSSC rate supported debt will be used for these projects. The expenditure schedule reflected in this PDF is not intended to be a restriction but only an estimate of expenditures based on such considerations as historical trends, market expectations, Applicant schedules, and the number, stage, and scope of projects currently moving through the DSP. This PDF does not include funding for facility planning projects which also require County government review and approval and public interaction. Construction costs for Conceptual Design projects shown in Block B are very preliminary planning level estimates only, with approximate completion schedules, and may increase or decrease depending on site-specific conditions, design constraints, and market conditions. Construction costs for DSP projects are typically based upon preliminary design plans. The information in Block F pertains to this PDF in general and not to the individual projects listed on the pages that follow. DSP projects wary and, therefore, is indicated on each individual listing as appropriate.

#### Agency Number: S-187.00 Project Name: DSP & Conceptual Design Sewer Projects

#### S-27.08 Westphalia Town Center Sewer Main (DA4599Z07, DA4599A07)

4,550 feet of 15-inch to 21-inch diameter sewer main to serve the Westphalia Town Center. Capacity: 3.2 MGD; Service Area: Western Branch drainage basin; Population: 7,600; Status: C-10%; Estimated Total Project Cost: \$816,000. Expenditure and schedule projections are based upon information provided by the developer. Design and construction will be performed by the developer under a System Extension Permit. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

#### S-28.18 Konterra Town Center East Sewer (DA4623A,B,&Z07)

13,400 feet of 15-inch to 24-inch diameter sewer main, 240 feet of 24-inch and 48-inch steel sleeve to provide service to Konterra Town Center East (DA4623Z07). Capacity: 7.95 MGD; Service Area: Northeast Branch drainage basin; Population: 11,300; Status: C-51%; Estimated Total Project Cost: \$4,237,000. Expenditure and schedule projections are based upon information provided by the developer. Design and construction will be performed by the developer under a System Extension Permit. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

#### S-68.01 Landover Mall Redevelopment (DA5019Z09)

2,500 feet of 27-inch, 300 feet of 24-inch, and 1,450 feet of 18-inch diameter sewer main to provide service for the Landover Mall Redevelopment. Capacity: 5.63 MGD; Status: P-20%. This project is dependent upon a future sewer augmentation/feasibility study along Cattail Branch. Estimated Total Project Cost: \$1,241,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

#### S-75.19 Brandywine Woods Wastewater Pumping Station (DA4449Z06)

Planning, design, and construction of a new wastewater pumping station to provide service to the Brandywine Woods Property. Capacity: 0.28 MGD; Service Area: Mattawoman; Population: 490; Status: P-100%; Estimated Total Project Cost: \$302,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

#### S-75.20 Brandywine Woods WWPS Force Main (DA4449Z06)

1,600 feet of 4-inch diameter force main from the Brandywine Woods Wastewater Pumping Station to provide service to the Brandywine Woods Property. Capacity: 0.28 MGD; Service Area: Mattawoman; Population: 490; Status: P-100%; Estimated Total Project Cost: \$117,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

#### S-86.19 Karington Subdivision Sewer (DA4249A05, DA4249Z05)

970 feet of 15-inch and 20-inch diameter sewer main to serve the Karington Subdivision. Capacity: 1.7 to 2.87 MGD; Service Area: Mitchellville & Vicinity; Population: 2,102; Status: D-100%; Estimated Total Project Cost: \$711,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

#### S-87.15 Rodenhauser Wastewater Pumping Station (DA4100Z05 & CP4100A05)

Planning, design, and construction of a new wastewater pumping station to provide service to the Rodenhauser Property. Capacity: 0.15 MGD; Service Area: Western Branch; Population: 200; Status: D-100%; Estimated Total Project Cost: \$1,200,000. Expenditure and schedule projections are based upon information provided by the developer. Design and construction will be performed by the developer under a Memorandum of Understanding. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

#### S-87.16 Rodenhauser WWPS Force Main (DA4100B05, DA4100C05)

2,000 feet of 4-inch diameter force main from the Rodenhauser Wastewater Pumping Station to provide service to the Rodenhauser Property. Capacity: 0.15 MGD; Service Area: Western Branch; Population: 200; Status: D-95%; Estimated Total Project Cost: \$164,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

#### S-131.05 Pleasant Valley Sewer Main, Part 2 (DA4757B08)

2,750 feet of 21-inch diameter sewer main to provide service to the Estates of Pleasant Valley and the Ridges III Subdivisions. Capacity: 3.5 MGD; Service Area: Burch Branch of Piscataway Creek; Population: 2,000; Status: D-60%; Estimated Total Project Cost: \$825,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

#### Agency Number: S-187.00 Project Name: DSP & Conceptual Design Sewer Projects

#### S-131.07 Pleasant Valley Sewer Main, Part 1 (DA4757A08)

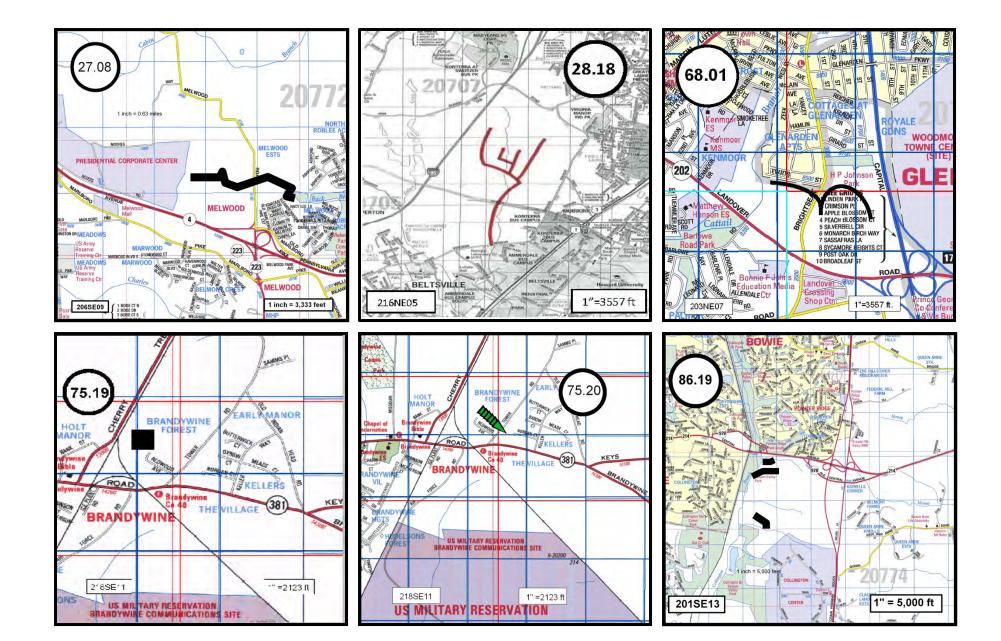
10,000 feet of 15-inch and 18-inch diameter sewer main to serve The Estates at Pleasant Valley Subdivision. Capacity: Between 1.7 and 2.2 MGD; Service Area: Piscataway Creek; Population: 2,800; Status: D-80%; Estimated Total Project Cost: \$1,623,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

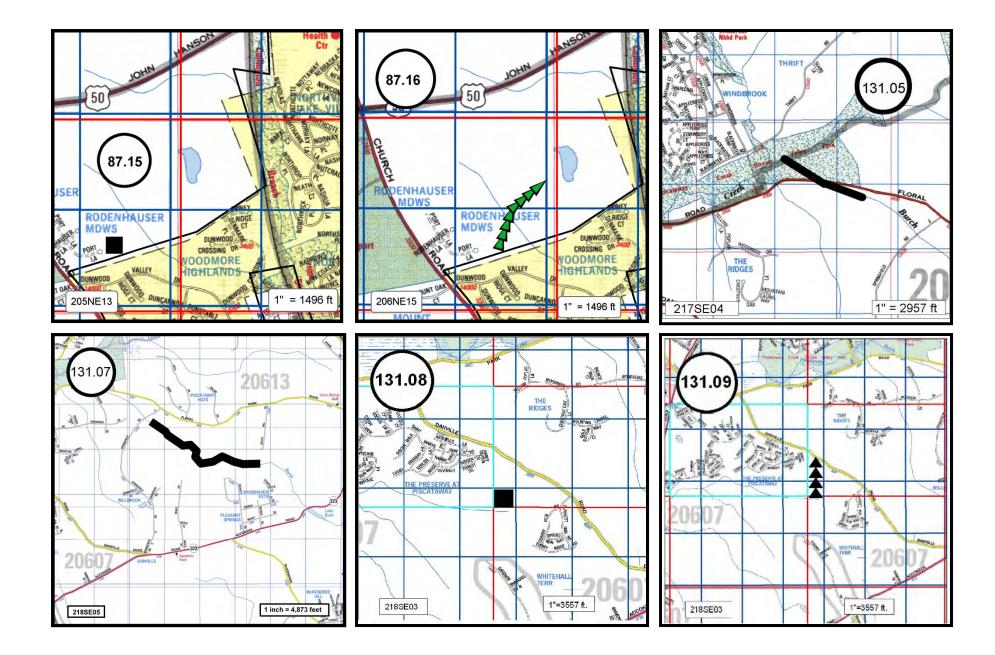
#### S-131.08 Preserves of Piscataway Wastewater Pumping Station (CP5631A13)

Planning, design, and construction of a new wastewater pumping station to provide service to the Preserves of Piscataway Subdivision. Capacity: 0.12 MGD; Service Area: Piscataway; Population: 220; Status: D-0%; Estimated Total Project Cost: \$562,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

#### S-131.09 Preserves of Piscataway WWPS Force Main (DA5631B13)

700 feet of 4-inch diameter force main from the Preserves of Piscataway Wastewater Pumping Station to provide service to the Preserves of Piscataway Subdivision. Capacity: 0.12 MGD; Service Area: Piscataway; Population: 220; Status: D-0%; Estimated Total Project Cost: \$85,000. Expenditure and schedule projections are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.





### PROJECTS PENDING CLOSE-OUT Prince George's Sewer Projects (costs in thousands)

Project Number	Agency Number	Project Name	Estimated Total Cost	Expenditures Thru FY'14	Estimated Expenditures FY'15	Remarks
	S-205.00	Land & Rights-Of-Way Acquisition - Prince George's County	\$0	\$0	\$0	All land costs are consolidated in Bi-County Sewer.
		TOTALS	\$0	\$0	\$0	

# Section 7 - Information Only Projects

DATE: October 1, 2014

## FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

#### INFORMATION ONLY PROJECTS

AGENCY	PROJECT	EST.	EXPEND	EST.	TOTAL		EX	PENDITUR	E SCHEDU	ILE		BUDGET	PDF
NUMBER	NAME	TOTAL	THRU	EXPEND	SIX	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	REQUEST	PAGE
		COST	14	15	YEARS	16	17	18	19	20	21	16	NUM
W-1.00	Water Reconstruction Program	728,037	0	99,304	628,733	101,658	103,843	105,808	105,808	105,808	105,808	101,658	7-2
S-1.01	Sewer Reconstruction Program	308,099	0	41,624	266,475	34,784	36,124	41,071	58,449	54,707	41,340	34,784	7-4
A-102.00	Engineering Support Program	108,000	0	17,000	91,000	18,000	17,000	14,000	14,000	14,000	14,000	18,000	7-6
A-103.00	Energy Performance Program	41,745	32,035	60	8,770	610	2,920	3,920	1,100	110	110	610	7-7
A-104.00	Entrepreneurial Projects	45,139	2,945	3,491	7,937	2,337	589	501	303	3,987	220	2,337	7-10
A-105.00	Water Storage Facility Rehabilitation Program	35,000	0	5,000	30,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	7-11
A-106.00	Asset Management Program	14,382	9,912	1,495	2,975	1,725	1,250	0	0	0	0	1,725	7-12
A-107.00	Specialty Valve Vault Rehabilitation Program	34,303	5,253	8,287	20,763	7,370	7,161	2,640	1,936	1,089	567	7,370	7-13
A-109.00	Advanced Metering Infrastructure	89,500	875	2,525	86,100	960	13,484	26,360	26,360	18,936	0	960	7-14
S-300.01	D'Arcy Park North Relief Sewer	849	90	245	514	259	255	0	0	0	0	259	7-15
	TOTAL INFORMATION ONLY PROJECTS	1,405,054	51,110	179,031	1,143,267	172,703	187,626	199,300	212,956	203,637	167,045	172,703	



Denotes projects which include an environmental component (see page 15 in the opening narrative.)

#### Notes for costs beyond six years:

Includes 880 for Project A-103.00, Energy Performance Program Includes 30,766 for Project A-104.00, Entrepreneurial Projects

A. Identification and Coding Info	rmation	2 Da	te: Octo	ber 1 20	14	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (00	)0's)	FY of Impact
1. Project Number Agency Number	r Update Code	e									Program Costs Staff		
W-1.00	Change	Revis	sea:		L						Other Facility Costs Maintenance		
3. Project Name: Water Reconstru	ction Program					5.Agency:	W:	SSC			Debt Service	61663	20
4. Program: Sanitation	6. Planning Are	ea: Bi-Co	ounty								Total Costs Impact on Water or Sewer Rate	61663	
												123¢	20
В.		Expenditu	-		· ·		1	1			F. Approval and Expenditure Data (000	's)	
	(8) (9 Th		(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program		FY
Cost Elements	Total FY	'14 FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved		FY
Planning, Design & Supervision	105,369	14,518	90,851	14,386	15,293	15,293	15,293	15,293	15,293		· · · ·		FT
Land											Initial Cost Estimate		
Site Improvements & Utilities											Cost Estimate Last FY		775,766
Construction	496,151		428,969	69,432			72,261	72,261	72,261		Present Cost Estimate		728,037
Other	126,517	17,604	108,913	17,840	18,057	18,254	18,254	18,254	18,254		Approved Request, Last FY		104,509
Total	728,037	99,304	628,733	101,658	103,843	105,808	105,808	105,808	105,808		Total Expenditures & Encumbrances		
C.		Funding	g Schedu	le (000's)	)						Approval Request FY 16	1	101,658
WSSC Bonds	728,037	99,304	628,733	101,658	103,843	105,808	105,808	105,808	105,808		Supplemental Approval Request		
D. Description & Justification						-1					Current FY (15)		
DESCRIPTION													
The purpose of this program is to renew and extend the useful life of water mains. Portions of the water system are more than 80 years old. Bare cast iron mains, installed generally before 1965, permit the build-up of tuberculation which can reduce flow and cause discoloration at the customer's tap. Selected replacement is necessary to supply water in sufficient quantity, quality and pressure for domestic use and fire fighting. As the system ages, water main breaks are increasing. Selected mains are chronically breaking and other mains are undersized for the current flow standards. Replacement, rehabilitation via structural lining, and the addition of cathodic protection to these mains provides added value to the customer. Galvanized, copper and cast iron water services, as well as all other													
water main appurtenances incl life. * EXPENDITURES FOR WATE	uding meter and	PRV vaults a	re replace	ed on an a	as needed	d basis wh	en they h				H. Map Map Reference Code:		
		001101171112											
Service Area Bi-CountyArea													
JUSTIFICATION													
Plans & Studies Flow studies, water system mo Assessment, 1915-1998; Analy historical main break data for p distribution system. An early o "FY2016 Water Distribution Sy Specific Data	ysis and Recommerformance mea	mendations by asures to defir roject identifie	/ the Wate ne, charac ed the nee	er Main R terize, an d to incre	econstruc Id prioritiz	tion Work the futur	Group (J re replace	une, 1999 ment nee	9) examine eds of the	ed the	MAP NOT APPLICA	ABLE	
The program's projected work i main replacement and associa construction of large water ser any given year depending on th upon the results of the Asset M structural integrity to the lined r <b>Cost Change</b> The six year program cost dec	ted water house vice replacemer ne nature and pr lanagement Plan main. An implem	connection re hts - \$6.5M. N iority of the wo n. WSSC pilo ientaiton rate	enewals, 5 lote: The s ork to be a t tested o of 2 miles	7 miles - specific m addressec ne mile of /year is pl	\$93.8M; only nix and typ d. Program f structual	cathodic p pe of wate m level ma l lining usi	rotection r main rec ay be adju ng new m	- \$1.3M; constructi sted in fuethods in	design and on may va uture years tended to	d ary in s based add			

Agency Number: W - 1.00

#### Project Name: Water Reconstruction Program

**STATUS** Under Construction

#### **OTHER**

The project scope has remained the same. The water reconstruction program has been ongoing since 1979. Funding in the six-year program period is subject to Spending Affordability Guideline limits. The following work accomplishments through FY'14 summarize the magnitude of the reconstruction effort: 1,142 miles rehabilitated, 463 miles replaced, 115 large water service/meters replaced. It is anticipated water reconstruction activity will be a perpetual element of future work programs.

#### COORDINATION

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Montgomery County Government (including local municipalities where work is to be performed), Prince George's County Government (including local municipalities where work is to be performed), Prince George's County Department of Public Works & Transportation and Local Community Civic Associations.

A. Identification	and Coding Info	ormation		2. Da	te: Octo	ber 1, 20 ²	14	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (000's) FY of	Impact
1. Project Number	er Agency Numb	er Update	Code			,	· · · [						Program Costs Staff	
	S-1.01	Change	<b>;</b>	Revis	sed:		Ľ						Other	
3. Project Name:	Sewer Reconstr	ruction Progr	am				į	5.Agency	- W	SSC			Debt Service 21197	22
4. Program:	Sanitation	6. Plannin	g Area:	Bi-Co	ounty								Total Costs         21197            Impact on Water or Sewer Rate         42¢	22 22
В.			I	Expendit	ure Scheo	dule (000'	s)						F. Approval and Expenditure Data (000's)	
		(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
Cost Elements		Total	Thru FY '14	Estimate FY '15	Total 6 Years	Year 1 FY '16	Year 2 FY '17	Year 3 FY '18	Year 4 FY '19	Year 5 FY '20	Year 6 FY '21	Beyond 6 Years		Y
Planning, Design	& Supervision	67,522		9,245	58,277	7,709	7,977	8,966	12,630	11,787	9,208		Date First Approved F	Y
Land													Initial Cost Estimate	
Site Improvemen	ts & Utilities												Cost Estimate Last FY 428,	319
Construction		209,768		28,217	181,551	23,597	24,535	27,998	39,974	37,449	27,998		Present Cost Estimate 308,0	)99
Other		30,809		4,162	26,647	3,478	3,612	4,107	5,845	5,471	4,134		Approved Request, Last FY 16,4	119
Total		308,099		41,624	266,475	34,784	36,124	41,071	58,449	54,707	41,340		Total Expenditures & Encumbrances	
С.				Funding	g Schedu	le (000's)							Approval Request FY 16 34,7	84
WSSC Bonds		308,099		41,624	266,475	34,784	36,124	41,071	58,449	54,707	41,340		Supplemental Approval Request	
D. Description &	Justification												Current FY (15)	
DESCRIPTION													G. Status Information	
is the rehabi infiltration an	n funds a compre litation and/or rep nd inflow control, o i includes the reha	pair of sewer exposed pipe	mains les e problem	ss than 15 is, and fut	" in diame	eter and so ty needs	ewer hous for the ba	se conne asin. The	ctions. The rehabilita	e program tion and r	address epair fund	es ded by	Land Status: Not applicable % Project Completion: On-Going	
systems eva funding for a	Iluations, line bloc ny major capital p Inded separately	ckage asses: projects (e.g.	sments, fi	ield surve	ys, and cl	osed circu	uit TV insp	pections.	This prog	ram does	not inclu	de	Est. Completion Date: On-Going H. Map Map Reference Code:	
	URES FOR SEV		ISTRUCT	ION ARE	EXPECT	ED TO C	ONTINUE		NITELY.					
JUSTIFICATION	a Bi-CountyAre	а												
Plans & Stu														
Comprehens	sive Basin Studies and/or other activ								eld survey	s, closed	circuit T∖	/		
Specific Dat	ta						-							
work, cost pe to oversee a (including ov house conne	ork units and ass er linear foot, ava nd manage the to verhead) are as fo ection renewals - ear depending on	ilability of au otal number o ollows: 2 mile \$28.1M; eme	thorized of individues of mair es of mair ergency re	contractor ual contrac iline cons epairs - \$2	s for prop cts. The p truction - \$	rietary reh program's \$4.7M; 6 r	nabilitatior projected miles of la	n techniqu d work uni ateral line	ues, and n ts and exp constructi	nanageme penditure on and as	ent's avail levels for ssociated	lability FY'16 sewer	MAP NOT APPLICABLE	
Cost Chang	e													
The overall p and revised	program cost esti scheduling.	mate decrea	sed base	d on grea	ter refiner	nent of the	e magnitu	ude of Prio	ority Two s	sewer reh	abilitation	work		
STATUS Under	Construction													
<u>OTHER</u>														
Sewer Överf	scope has remair low Consent Dec tered into on Dec	ree. The Co	onsent De	cree betw	een WSS	C, Maryla	ind Depar	rtment of	the Enviro	nment (M	DE), and	the		

#### Agency Number: S - 1.01 Project Name: Sewer Reconstruction Program

repairs are included in the operating budget.

The following work accomplishments through FY'14 summarize the magnitude of this reconstruction effort: sewer main reconstruction, 373 miles; and sewer house connection renewals, 18,081. It is anticipated that sewer reconstruction activity will be a perpetual element of future work programs.

#### COORDINATION

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Montgomery County Government (including local municipalities where work is to be performed), Prince George's County Government (including local municipalities where work is to be performed), Maryland Department of the Environment (SSO Consent Decree Compliance), Prince George's County Department of Public Works & Transportation, U.S. Environmental Protection Agency, Region III (SSO Consent Decree Compliance) and Local Community Civic Associations.

A. Identification and Coding Inform	nation	2. Da	te: Octo	oer 1, 201	4 7	. Pre PDI	Pg.No.:	8. Req.	Adeq. Pu	b. Fac.	E. Annual Operating Budget Impact (00	D's) FY of Impact
1. Project Number Agency Number	Update Code			,							Program Costs Staff	
A-102.00	Change	Revis	ed:					- #			Other Facility Costs Maintenance	
3. Project Name: Engineering Supp	ort Program				5	Agency:	W	SSC			Debt Service	6104 21
4. Program: Sanitation	6. Planning Area:	Bi-Co	unty								Total Costs	6104 21
											Impact on Water or Sewer Rate	12¢ 21
В.	I	Expenditu	re Sched	ule (000's	s)						F. Approval and Expenditure Data (000's	s)
	(8) (9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond		, 
Cost Elements	Total FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First in Capital Program	FY 87
Planning, Design & Supervision											Date First Approved	FY 87
Land											Initial Cost Estimate	
Site Improvements & Utilities											Cost Estimate Last FY	106,000
Construction	108,000	17,000	91,000	18,000	17,000	14,000	14,000	14,000	14,000		Present Cost Estimate	108,000
Other											Approved Request, Last FY	17,000
Total	108,000	17,000	91,000	18,000	17,000	14,000	14,000	14,000	14,000		Total Expenditures & Encumbrances	
С.		Funding	Schedul	e (000's)				11		I	Approval Request FY 16	18,000
WSSC Bonds	80,000	13,000		14,000	13,000	10,000	10,000	10,000	10,000			
Water Operating Funds	14,000	2,000	12,000	2,000	2,000	2,000	2,000	2,000	2,000		Supplemental Approval Request Current FY (15)	
Sewer Operating Funds	14,000	2,000	12,000	2,000	2,000	2,000	2,000	2,000	2,000			
DESCRIPTION         The Engineering Support Prograthe extensive water and sewer in EXPENDITURES FOR ENGINE         JUSTIFICATION         Plans & Studies         Asset Management Implementa         Specific Data         ESP projects may be identified in Teams for engineering support.         As such, ESP projects are diver processes, satisfy regulatory reciproposed "major projects" which serve new development.         Cost Change         Increased FY'15 - FY'17 costs means for engineering         STATUS         Not Applicable         OTHER         The project scope has remained support.	tion Plan, Sterns & Support services a se in scope and typ quirements, improve , by law, must be p eflect funding for R	ARE EXF Wheler (A wheler (A ent Plans of inically inclue e safety ar rogramme GH Buildir	upport fac PECTED T April 2008) or result fr orm of pla ude work i ind security ed in the V ng Electric s provides	ilities that O CONTI om direct nning, den needed to /, or rehat VSSC Six- al Upgrad	requests NUE IND sign, and upgrade oilitate agi -Year Cap le projects funding le	from the construct operating ing faciliti bital Impro	Utility Ser -Y. Utility Ser ion to me efficiency es. The E ovements	vices and et a wide y, modify a ESP does Program	Production range of in existing not incluce or project	vSSC. on needs. de ts to	% Project Completion:       On-Going         Est. Completion Date:       On-Going         H. Map       Map Reference Code:         MAP NOT APPLICA	BLE

A. Identification and Coding Information	2. Date: October 1, 2014	7. Pre PDF Pg.No.: 8. Req.	Adeq. Pub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact
1. Project Number Agency Number Update Code A-103.00 Change	Revised:			Program Costs Staff Other
3. Project Name: Energy Performance Program     4. Program: Sanitation 6. Planning Area	:: Bi-County	5.Agency: WSSC		Facility Costs         Maintenance            Debt Service         2627            Total Costs         2627            Impact on Water or Sewer Rate         5¢
В.	Expenditure Schedule (000's)			F. Approval and Expenditure Data (000's)
(8) (9) Thr Cost Elements Total FY '	u Estimate Total Year 1	(13) (14) (15) (16) ear 2 Year 3 Year 4 Year 5 Y '17 FY '18 FY '19 FY '20	(17) (18) Year 6 Beyond FY '21 6 Years	Date First in Capital Program FY 03
Planning, Design & Supervision 8,895 6,5	45 60 <b>1,490</b> 560	660 70 100	100 800	Date First Approved FY 03
Land				Initial Cost Estimate 22,200
Site Improvements & Utilities				Cost Estimate Last FY 41,655
Construction 31,990 25,4	90 <b>6,500</b>	2,000 3,500 1,000		Present Cost Estimate 41,745
Other 860	<b>780</b> 50	260 350 100 10	10 80	Approved Request, Last FY 435
Total 41,745 32,0	35 60 8,770 610	2,920 3,920 1,100 110	110 880	Total Expenditures & Encumbrances 32,035
<b>C</b> .	Funding Schedule (000's)			Approval Request FY 16 610
WSSC Bonds 39,240 31,5	70 <b>7,670</b> 550	2,560 3,560 1,000		Supplemental Approval Request
Contribution/Other 1,165 4	65 <b>700</b>	300 300 100		Current FY (15)
Water Operating Funds 404	60 <b>212</b> 60	60 60 16	16 132	
Sewer Operating Funds 936	188	94	94 748	G. Status Information Land Status: No land or R/W involved

#### D. Description & Justification

#### DESCRIPTION

This program provides for the engineering audit, design, construction, and monitoring and verification necessary to replace and upgrade energy consuming equipment and systems at all major Commission facilities. All projects included in the program will provide a reduction in energy and energy-related costs (electricity, fuel oil, natural gas, or other fuel). The program will maintain or enhance existing operating conditions and reliability while continuing to meet all permit requirements and ensuring a continued commitment to environmental stewardship at WSSC sites. Energy conservation measures may include, but are not limited to, the replacement or upgrade of water and wastewater process equipment, aeration equipment, piping, valves and motors, sludge dewatering/thickening equipment, grit removal, effluent disinfection systems, wastewater pumps, water pump/valve/motor replacement and rebuild, pump instrumentation, flow metering, power measurement, incinerator upgrades, peak shaving and backup power generation systems, variable speed drives, HVAC equipment/systems, and lighting. A baseline is established for each energy conservation measures to identify energy usage and costs before the energy conservation measures (equipment upgrades) are implemented. After all construction is completed and accepted by the WSSC, the combined baseline for all energy conservation measures will be compared annually to the actual energy savings to quantify the savings. The program will be completed in several phases. Additional details on each phase are included in the "Specific Data" section below.

#### **JUSTIFICATION**

#### Plans & Studies

Stearns & Wheler, Western Branch Study BNR Modifications (Cyclical Aeration) (June 1996); Water Environment Federation, Energy Conservation for Wastewater Treatment Facilities (1997); EMA, WSSC Operations Branch Competitiveness Assessment (January 1997); EMA, WSSC Adopt Best Practices Report, Competitive Action Plan, TPO Work Team (June 1999); Stearns & Wheler, Western Branch Aeration Study (July 2000); O'Brien & Gere Study, Potomac Filtration Plant Water Quality and Electric Reliability; Energy Information Administration (Department of Energy), Annual Energy Outlook 2002 with Projections to 2020 (December 2001); American Water Works Association Research Foundation, Best Practices for Energy Management; In-house Study (April 2002); The Khepra Group, Potomac Water Filtration Plant Pump Systems Evaluation (May 2008); Whitman, Requardt & Associates/Shah Associates, Solar Photovoltaic Concept Study for Potomac WFP and Western Branch WWTP (May 2010).

#### Specific Data

Phases I-A and I-B of the Energy Performance Program were awarded to Constellation Energy Projects and Services (CEPS) in March 2001. Phase I-A included detailed engineering audits, supply analysis, engineering, and planning of equipment and operations

H. Map Map Reference Code:

Not Applicable

(See "Specific Data" for details.)

% Project Completion:

Est. Completion Date:

## **MAP NOT APPLICABLE**

#### Agency Number: A - 103.00 Project Name: Energy Performance Program

upgrades to develop an energy efficient and guaranteed savings program Commission-wide. The Phase II-A implementation project, awarded in December 2002 and completed in May 2006, included detailed design, construction, maintenance, savings monitoring, and energy/energy-related savings guarantee at the Western Branch, Parkway, Piscataway, and Damascus WWTPs and the RGH Office Building.

The Phase II-B implementation project was awarded to CEPS in August 2006, and included detailed design, construction, maintenance, savings monitoring, and energy/energy-related savings guarantee for incinerator upgrades at the Western Branch WWTP, backup/peak-shaving engine-generation system at the Seneca WWTP, and the addition of smaller, more efficient pumps at the Anacostia No. 2 WWPS to handle average dry daily flows. The construction of the Seneca and Anacostia components were completed in October 2008. Incinerator upgrades at the Western Branch WWTP were completed in January 2011.

Projects included in Phases II-A and II-B are guaranteed by CEPS to reduce energy-related costs. The guaranteed reduction includes annual avoided energy costs as well as operations and maintenance, chemicals, and biosolids disposal cost savings. CEPS will pay the WSSC for any yearly shortfall if the total guaranteed savings figure is not achieved. If the actual savings exceed the guaranteed amount, the WSSC retains the savings on a yearly basis. The energy guarantee for Phase II-A and Phase II-B work can be applied up to 15 years as prescribed by the State of Maryland. The energy savings for projects completed under Phase II-A have surpassed the contract's guaranteed amount of \$700,000 per year.

Phase II-C, awarded in March 2004, includes the supply of electricity generation and transmission for a period of 15 years. Phase II-C was amended in December 2006 to include 33% of generation from renewable wind power at a fixed price for a 10-year period under a Power Purchase Agreement (PPA), starting in 2008. Phase II-C, including the amendment for wind energy, does not involve any capital funds.

Phase I-D, awarded to Energy Systems Group (ESG) in March 2009, provided for instrumentation, pump replacement, pump rebuild, and valve and piping modifications at the Raw Water Pumping and Main Zone Pumping Stations located within the Potomac Water Filtration Plant (WFP). After performing an initial engineering analysis and additional pump tests, the Commission accepted ESG's Phase II-D proposal in December 2010 for the rehabilitation of 5 raw water (RW) pumps and 1 Main Zone (MZ) pump, reconditioning of electric motors for the 6 pumps, new instrumentation for all the RW, MZ, and High Zone (HZ) pumps, commissioning, training, energy savings guarantee, and monitoring and verification of energy savings for 10 years. Phase II-D total program cost (over 10 years) will be 100% paid from guaranteed energy savings, avoid future capital expenditures, and improve plant reliability. Construction was completed in April 2013. PEPCO contributed \$465,000 in capital rebates over the two-year construction period as part of its Commercial & Industrial Energy Efficiency Program. The remaining pumps in the Main and High Zones Pumping Stations (as well as in the Raw Water Zone Pumping Station) are 30-50 years old and will have reached the end of their useful life in the next 5-10 years. New instrumentation included in Phase II-D (power monitors to measure amperage, voltage, power factor, kW, and discharge pressure transmitters for the RW pumps and differential pressure transmitters for the MZ and HZ pumps) will more accurately monitor and track pump efficiency and reliability data.

Phase II-E provides for the supply of on-site generated photo-voltaic (PV) solar power at a rate competitive with conventional or "brown" power. A Solar PV Study completed in May 2010 concluded that the optimum form of constructing a Solar PV System at WSSC sites was through a Power Purchase Agreement (PPA), similar to our existing Wind Farm Agreement. Under this arrangement, the WSSC negotiated a long-term (20 year) agreement with solar power provider Washington Gas Energy Systems to buy electricity at a fixed rate/kWh with a possible annual escalation. Renewable Energy Credits (RECs) are transferred to the solar provider (as part of the fixed electricity price) to generate the revenue required for the solar provider to offer a low enough rate to the WSSC that would be competitive (lower than brown power). Under the agreement, the entire capital cost of the Solar PV System is the responsibility of the solar provider. The contract was awarded to Standard Solar and Washington Gas Energy Services in October 2012. Construction of the solar arrays at Seneca and Western Branch was completed in September 2013, and both solar sites became operational on October 1, 2013.

Phase I-F will provide for detailed engineering audits, supply analysis, engineering, and planning of equipment and operations upgrades to develop an energy-efficient and guaranteed savings program for energy efficient HVAC and lighting upgrades at field offices, upgrades to water distribution and wastewater pumps, and additional upgrades at water and wastewater treatment plants. A Phase I-F ESCO contract was awarded in January 2014. It is anticipated that the site visits, analysis, and preparation of a Phase II-F proposal will take approximately 18 months. We project that Phase II-F will be awarded during the summer of 2015, with detailed design/construction lasting approximately 24 months. If the Commission elects to proceed with Phase II-F, we expect energy efficient rebates from BGE, Pepco, and SMECO of approximately \$700,000 to subsidize the total construction cost of the project.

#### Agency Number: A - 103.00

#### Project Name: Energy Performance Program

#### Cost Change

The overall project costs were increased based upon revised estimates for Phase II-F.

STATUS Not Applicable (WSSC Contract Nos. AM3614E03, CD3614A03, CD3614B03, CD3614C03, CD3614D03, CD3614G03, CD3614H03, CP3614F03).

#### **OTHER**

The project scope has remained the same. Expenditures shown for Planning, Design & Supervision include operating cost estimates for annual maintenance, warranty, performance bond, and monitoring and verification (M&V). The annual maintenance and M&V costs are estimated to continue for a period not exceeding 15 years. Portions of the program have been financed by low interest loans through the Maryland Department of the Environment's Water Quality Administration State Revolving Loan Program.

#### COORDINATION

Montgomery County Government (including coordination with the County's ICEUM Committee), Prince George's County Government and WSSC Projects W-73.18, Power Reliability and Arc Flash Implementation and W-73.19, Potomac WFP Outdoor Substation No. 2 Replacement.

A. Identification and Coding Inform	mation		2. Da	te: Octo	ber 1, 201	4 7	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	b. Fac.	E. Annual Operating Budget Impact (000's)	FY of Impact	
1. Project Number Agency Number			Revis		, .							Program Costs Staff		
A-104.00	Change	;	Revis	eu.								Other		
3. Project Name: Entrepreneurial P	rojects					5	5.Agency:	W:	SSC			Debt Service		
4. Program: Sanitation	6. Planning	g Area:										Total Costs Impact on Water or Sewer Rate		
													•	
В.	(2)	1	1	Ire Sched	-	-					((0))	F. Approval and Expenditure Data (000's)		
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 05	
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 06	
Planning, Design & Supervision												Initial Cost Estimate	3,900	
Land														
Site Improvements & Utilities												Cost Estimate Last FY	41,905	
Construction	41,303	2,945		7,215	2,125	535	455		3,625	200	27,969	Present Cost Estimate	45,139	
Other	3,836		317	722	212	54	46		362	20	2,797	Approved Request, Last FY	5,785	
Total	45,139	2,945	3,491	7,937	2,337	589	501	303	3,987	220	30,766	Total Expenditures & Encumbrances	2,945	
С.			Funding	g Schedul	le (000's)							Approval Request FY 16	2,337	
Contribution/Other	45,139	2,945	3,491	7,937	2,337	589	501	303	3,987	220	30,766	Supplemental Approval Request		
D. Description & Justification		•				· · · · · · · · · · · · · · · · · · ·				•		Current FY (15)		
DESCRIPTION														
	DESCRIPTION This project represents a consolidation of capital projects that generate additional revenues through the sale of products, services,													
	and/or real property as part of an overall strategy to hold down rates for existing customers. Project currently reflects the Joint Base at Not applicable													
contract term.	20600-04-0	J-8250. E	zpenaitui	res for ren	iewai and	replacem	ent are e	xpected to	continue	e for the e	ntire	% Project Completion: C-14%		
contract term.												Est. Completion Date: FY 2054 (See "Other" for	details.)	
JUSTIFICATION												H. Map Map Reference Code:		
Plans & Studies														
"Replace/Add Water Mains and														
1221 Sanitary Sewer Main Stud Renewals and Replacements P														
Resolution Number 2003-1657							in Fine,	пс. (Зер		500), 993,	30			
Specific Data														
Under the terms of the contract,														
(ending in June 2054); impleme standard through a Renewals a								C standar	ds; and th	ien mainta	ain that			
Cost Change		EIIIEIIIS F		ulation		illact perio	<i>.</i>							
The expenditure schedule has t	been undat	ted based	upon mo	re detaile	d construe	ction cost	estimate	s.				MAP NOT APPLICABLE		
STATUS Under Construction (WSS	•								54030A05	5 FS403	1A05			
FS4032A05 , FS4087A05 FS5294G11 , FS5294H11	, FS4974A	409 , FS4	974Z09,	FS5294B	11, FS52	94C11, F	S5294D	11 , FS52	94E11,F	S5294F1	1,			
	,1002041	111,105	234311,1	002041(1	1,10023	J∓L I I , I €	5525421	1, 20004	12).					
OTHER The project scope has remained	d the same	The co	ntract valu	ie mav be	adjusted	periodica	Illy to acc	ount for in	Inflation an	d change	h			
conditions. All expenditures wil	l be reimbu	ursed in fu	ull by JBA	B. Drinkir	ng water s	upply and	wastewa	ater treatm	nent will c	ontinue to	be			
supplied to JBAB by the District	of Columb	oia Water	and Sewe	er Authorit	ty. The pi	roject esti	mated co	mpletion	date refer	s to the le	ngth of			
the contract - 50 years.														
COORDINATION				<b>F P</b>										
District of Columbia Water & Se	ewer Autho	nty and E	solling Air	Force Bas	se (Chang	jea to Joir	n Base A	macostia I	∃oiiing).					

A. Identification and Coding Inform			2. Da	te: Octo	ber 1, 201	4 7	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (0	DO's) FY of Impact
1. Project Number Agency Number			Revis									Program Costs Staff	
A-105.00	Change			eu.								Other Facility Costs Maintenance	
3. Project Name: Water Storage Fa	cility Reha	bilitation	Program			5	5.Agency:	W	SSC			Debt Service	2808 22
4. Program: Sanitation	6. Planning	g Area:	Bi-Co	ounty								Impact on Water or Sewer Rate	2808 22 6¢ 22
													0¢ 22
В.	(1)		Expenditu		•			(1-)		( <b>1</b> -1)		F. Approval and Expenditure Data (000	's)
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program	FY 09
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years	Date First Approved	FY 09
Planning, Design & Supervision												Initial Cost Estimate	18,000
Land												Cost Estimate Last FY	35,000
Site Improvements & Utilities	05.000		5 000		<b>-</b> 000	<del>-</del> 000	5 000	5 000	5 000	E 000			
Construction	35,000		5,000	30,000	5,000	5,000	5,000	5,000	5,000	5,000		Present Cost Estimate	35,000
Other												Approved Request, Last FY	5,000
Total	35,000		5,000	30,000	5,000	5,000	5,000	5,000	5,000	5,000		Total Expenditures & Encumbrances	
С.		1		Schedu	、 <i>,</i>		I	1		I		Approval Request FY 16	5,000
WSSC Bonds	35,000		5,000	30,000	5,000	5,000	5,000	5,000	5,000	5,000		Supplemental Approval Request	
D. Description & Justification												Current FY (15)	
DESCRIPTION													
The Water Storage Facility Reh	abilitation I	Program	provides f	or the con	nprehensi	ve rehabi	litation of	the Comr	nission's	59 water	storage	G. Status Information	
facilities located throughout the	WSSC ser	rvice area	a holding 2	200 million	i gallons o	of finished	drinking	water. Th	e Prograi	m provide	es for	Land Status: Not applicable	
structural metal and concrete fo										noval, seo	curity	% Project Completion: On-Going	
upgrades, advanced mixing sys	tems to im	prove wa	iter quality	, and altitu	ude valve	vault and	supply p	ipe replac	ements.			Est. Completion Date: On-Going	
EXPENDITURES FOR WATER	STORAG	E REHA	BILITATO	N ARE EX	PECTED	TO CON	TINUE IN	IDEFINITI	ELY.			H. Map Map Reference Code:	
JUSTIFICATION													
JUSTIFICATION													
Specific Data													
Currently, there are more than 2													
accumulated significant layers of													
to be completely removed and o this extra work every third re-co	ating to ext	tend the s	nt techniq service life	e of the str	ucture. T	odav's co	cases. In ating svs	tems shou	inended p uld extend	the leng	th of		
service between coatings from t	the current	10 years	to somev	where betw	veen 15 to	20 years	6. 6.					MAP NOT APPLICA	BLE
Cost Change													
Not applicable.													
STATUS Not Applicable													
OTHER													
The project scope has remained								0	0		0,		
issues. The Program plan for F Woodside, Air Park, St. Barnab										i vista, in	ortri		
		5 /	- ,		<b>U</b>								

A. Identification and Coding Inform			2. Da	te: Octo	ber 1, 201	4 7	7. Pre PD	F Pg.No.:	8. Req. A	Adeq. Pu	ub. Fac.	E. Annual Operating Budget Impact (000's) FY of Impact	act
1. Project Number Agency Number	Update	Code	Bovia	od:	,							Program Costs Staff	
A-106.00	Change		Revis	eu.								Other Facility Costs Maintenance	
3. Project Name: Asset Managemer	nt Program	I				Ę	5.Agency	: W	SSC			Debt Service	20
4. Program: Sanitation	6. Planning	g Area:	Bi-Co	ounty								Increase on Water on Course Date	20
												Impact on water or Sewer Rate	20
В.		E	Expenditu	ire Sched	ule (000':	s)					- <u>-</u>	F. Approval and Expenditure Data (000's)	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program FY 1	0
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years		_
Planning, Design & Supervision	13,798	9,912	1,300	2,586	1,500	1,086						Date First Approved FY 0	-
Land												Initial Cost Estimate 6,900	)
Site Improvements & Utilities												Cost Estimate Last FY 19,724	1
Construction												Present Cost Estimate 14,382	2
Other	584		195		Approved Request, Last FY 1,320	С							
Total	14,382	9,912	1,495		Total Expenditures & Encumbrances 9,913	3							
C.	1 1			Approval Request FY 16 1,725									
WSSC Bonds	7,044	4,362											
Water Operating Funds	3,669	2,775		Supplemental Approval Request Current FY (15)									
Sewer Operating Funds	3,669	2,775	299	595	345	250							
												G. Status Information	
D. Description & Justification DESCRIPTION												Land Status: Not Applicable	
	hing on A	nant Man	agomont	Stratogy	nd the de	volonmor	at of Acor	t Managa	mont Dian	o which		% Project Completion: P-60%	
This project provides for establis identify and examine overall infra												Est. Completion Date: FY 2017	
(treatment, transmission, distribution	ution, colle	ction, pu	mping, an	d storage	); building	s and gro	unds; an	d informat	ion techno	logy ass	ets	H. Map Map Reference Code:	
(SCADA system, security servic													
structures). The Plans will examproject will build on previous effort							capacity	needs, an	d regulator	y needs	. The		
		laress pa		mponente		works.							
JUSTIFICATION													
Plans & Studies													
Phase 1 High Level Utility Wide	Master Pla	an Report	ts (Decen	ber 2007)	), Asset In	nplement	ation Pla	n (April 20	08).				
Cost Change	4						· I'I					MAP NOT APPLICABLE	
The cost has decreased as the a performed in-house.	asset man	agement	processe	s and pro	cedures a	re institut	ionalized	and work	is progres	sively			
STATUS Planning (WSSC Contract	Nos. BM4	626A07	, CM4626	A07).									
OTHER													
The project scope has remained													
outside support will continue to o													
Track 2, completed in April 2008 March 2011, developed 6 Asset													
Phase 3 started in June 2012 an													
COORDINATION													
Montgomery County Governmer		•		ty Governi	ment.								
<b>NOTE</b> This project supports 100%	% System	Improver	nent.										

1. Project Number Agency Number Adjency Number Adj	A. Identification and Coding Inforr	nation		2. Da	te: Octo	ber 1, 201	4	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (00	0's) FY of Impac
A. Projeci Nuive       Projeci Nui		Update	Code			,	Ē						1 10914111 00313	
<ul> <li>9. Project Name: Specially Value Value Rehabilitation Program</li> <li>9. Program: Sanitation</li> <li>9. Program: Sanitation</li> <li>9. Program: Bic County</li> <li>9. Expenditure Schedule (000°s)</li> <li>9. Ex</li></ul>	A-107.00	Change		Revis	eu.									
P. Contruction       C + handling role:       Declaring       Provide       <	3. Project Name: Specialty Valve Va	ault Rehab	ilitation P	rogram			ţ	5.Agency:	W	SSC			Debt Service	1567 22
Content       Profile	4. Program: Sanitation	6. Planning	g Area:	Bi-Co	ounty									
(i)       (i)       (i)       (ii)       (iii)       (iiii)       (iiii)       (iii)       (iii	В.		E	Expenditu	ire Schec	lule (000'	s)						F. Approval and Expenditure Data (000	's)
Coald Elements       Total       P114       P118       P118       P118       P121		(8)												•
Initial code       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100	Cost Elements	Total												
Unit of the provements & Utilities         Image	Planning, Design & Supervision	5,103	2,589	790	1,724	500	500	400	260	50	14			FY 11
Construction       26,553       2.666       6.74       17,45       6.20       6.010       2.000       1.500       940       501         Other       2,641       7.53       1,888       670       651       2.40       176       99       52         Total       34,303       5.253       8.287       20,763       7,370       7,161       2.640       1,936       1,089       567         C.       Funding Schedule (000%)          Approval Request, Last FY       7,335         D. Description & Justification       Description & Justification (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000	Land												Initial Cost Estimate	17,560
Other       2.641       753       1.888       670       661       240       176       99       52         Total       34.033       5.253       8.287       20.763       7.370       7.161       2.640       1.936       1.089       567         C.       Funding Schedule (000°s)       Use Schools       34.033       5.253       8.287       20.763       7.370       7.161       2.640       1.936       1.089       567         D. Description & Justiffcation       Description & Justiffcation       Description School (1000°)       Use program includes valves ranging in set from 8-inches to 60-inches in diameler. The program will systematically evaluate the condition of individual installations, some of which were constructed as early as the 1930's, and upgrade or operations.       C.       Status Information         JUSTIFICATION       Pass & Studies       Candidate PRV set were originally identified in an October 26, 2005, memo from Jeff Asner to Karen Wright, and a subsequent May 7, 2007, memo from Karen Wright to Thomas Heikkinen. Originally, there were 23 candidate valuts within the Program as identified by the Systems Control Group: PRV Vault Rehabilitation Evaluation Study', EBA Engineering, Inc. (September 2010).       Map       Map Reference Code:         WIEI FICATION       The facilities included in this program are in need of rehabilitation due to factors such as: location within heavily traveled roadways, ag deterioration, and obsolescence. The highest priority valves in construction or desig	Site Improvements & Utilities												Cost Estimate Last FY	25,290
Total       34,303       5,253       8,287       20,763       7,370       7,161       2,640       1,936       1,089       567         C.       Funding Schedule (000's)       Image: Complex comp	Construction	26,559	2,664	6,744	17,151	6,200	6,010	2,000	1,500	940	501		Present Cost Estimate	34,303
C.       Funding Schedule (000°s)         WSSC Bonds       34,303       5.253       8.287       20,763       7.370       7.161       2.640       1.936       1.089       567         D. Description & Justification       Discription & Justification       Comparison       Comparis	Other	2,641		753	1,888	670	651	240	176	99	52		Approved Request, Last FY	7,359
C.       Funding Schedule (000's)         WSSC Bonds       34,303       5,253       8,287       20,763       7,370       7,161       2,640       1,936       1,089       567         D. Description & Justification       Discription & Justification       Compare the paramic design, and construction of improvements and replacement of Specially Valves and their associated vaults, including pressure reducing valves, ranging in size from 3-hinches to 60-hinches in diameter. The program will improve reliability and increase the efficiency of system cogram includes valves tanging in size from 3-hinches to 60-hinches in diameter. The program will improve reliability and increase the efficiency of system cogram will improve reliability and increase the efficiency of system cogram will improve reliability and increase the efficiency of system cogram will improve reliability and increase the efficiency of system cognation.       C. Status Information         JUSTIFICATION       Plans & Studies       Candidate PRVs were originally identified in an October 26, 2005, memo from Jeff Asner to Karen Wright, and a subsequent May 7, 2007, memo from Agren Wright to Thomas Heikkinen. Originally, there were 20 candidate vaults within this Program as identified by the System control Group on a 60-inch diameter water main and is in a construction on tale PVY source and balance Prove and adeption of adeption increase of the abilitizent Care Code:         USTIFICATION       Plans & Studies       Constinuent of the abilitizent Care Code and t	Total	34,303	5,253	8,287	20,763	7,370	7,161	2,640	1,936	1,089	567		Total Expenditures & Encumbrances	5,253
WSSC Bonds       34,303       5.263       8.287       20,763       7,370       7,161       2,640       1,936       1,089       667         D. Description & Justification DESCRIPTION       Supplemental Approval Request       Supplemental Approval Request       Supplemental Approval Request         This program provides for the planning, design, and construction of improvements and replacement of Specialty Valves and their distribution system. The program vill evaluate the condition of individual installations, some of which were constructed as early as the 1930's, and upgrade or relocate the structures and equipment as necessary. This program will improve reliability and increase the efficiency of system operations.       G. Status Information Land & R/W to be acquired % Project Completion. C-39% Est. Completion Date: On-Going         JUSTIFICATION Plans & Studies Candidate PRVs were originally identified in an October 26, 2005, memo from Jeff Asner to Karen Wright, and a subsequent May 7, 2007, memo from Karen Wright to Thomas Heikkinen. Originally, there were 23 candidate vaults within this Program as identified by the Systems Control Group; "PRV Vault Rehabilitation Evaluation Study", EEA Engineering, Inc. (September 2010). Specific Data       Map Reference Code:         The facilities included in this program are in need of rehabilitation due to factors such as: location within heavily traveled roadways, age deterioration, and obsolescence. The highest priority valves in construction or dising are: (1) Adelphi Road PRV - this facility is being coordinated with work on the 30-inch diameter PRV valut and shared PRV valut from 1955 is being coordinated with work on the 30-inch diameter PRV Vauut to Misue 40-inch diameter PRV vauut from 1955 is be	C			Funding	1 Schedu	le (000's)			I					7,370
D. Description & Justification         DESCRIPTION         This program provides for the planning, design, and construction of improvements and replacement of Specialty Valves and their associated valuts, including pressure reducing valves, pressure relief valves, altitude and metering valves, throughout the water distribution system. The program includes valves ranging in size from 8-inches to 60-inches in diameter. The program will suprove the condition of individual installations, some of which were constructed as early as the 1930's, and upgrade or relocate the structures and equipment as necessary. This program will improve reliability and increase the efficiency of system operations.       Suprime FY (15)         JUSTIFICATION       Plans & Studies       Candidate PRVs were originally identified in an October 26, 2005, memo from Jeff Asner to Karen Wright, and a subsequent May 7, 2007, memo from Karen Wright to Thomas Hekkinen. Originally, there were 23 candidate vaults within this Program as identified by the Systems Control Group; "PRV Vault Rehabilitation Evaluation Study", EBA Engineering, Inc. (September 2010).       Specific Data         The facilities included in this program are in need of rehabilitation due to factors such as: location within heavily traveled roadways, age deterioration, and obsolescence. The highest priority valves in construction or design are: (1) Adelphi Road PRV - this facility is to increase reflects updated estimates for design and construction costs. The new valve valut smill miprove operational flexibility: and reliability at the Central Avenue Supply and Throttling Valves - this project modifies the valves and piping on 60-inch and reliability at the Central Avenue Supply and Throttling Valves. The new valve vaults will improve operational flexibility and reliability at the Central Avenue Supply and Th		34.303	5.253	-		r	7.161	2.640	1.936	1.089	567			.,
Bit Section provides for the planning, design, and construction of improvements and replacement of Specialty Valves and their associated valuts, including pressure relief valves, pressure relief valves, altitude and metering valves, throughout the water distribution system. The program includes valves pressure relief valves, altitude and metering valves, throughout the water or relocate the structures and equipment as necessary. This program will improve reliability and increase the efficiency of system operations. <b>G. Status Information</b> Land & RW to be acquired % Project Completion: C.39%         Est Completion Date: On-Going         H. Map         Map Reference Code:          JUSTIFICATION          Plans & Studies         Candidate PRVs were originally identified in an October 26, 2005, memo from Jeff Asner to Karen Wright, and a subsequent May 7, 2007, memo from Karen Wright to Thomas Heikkinen. Originally, there were 23 candidate valuts within this Program as identified by         the Systems Control Group; "PRV Vault Rehabilitation Evaluation Study", EBA Engineering, Inc. (September 2010).         Specific Data         The facilities included in this program are in need of rehabilitation due to factors such as: location within heavily traveled roadways, age deterioration, and obsidescence. The highest princip valves in construction or design are: (1) Adelphi Road PRV - this facility is         being coordinated with work on the 30-inch diameter water main and is in extremely poor condition. The new valut will meet current is         tand ards and began construction in PRV - work to this 24-inch diameter PRV valut (Tm 1955 is         being coordinated with work on the 30-inch diameter PRV- audit construction in alter PTV Sand will         improve operational flexibility; (3) Central Avenue Supply and Throtting Valves - this project monifies the valves and piping on 60-inch         and A-inch diamet			-,	-, -		1	, -		,	,				
This program provides for the planning, design, and construction of improvements and replacement of Specialty Valves and their associated vaults, including pressure reducing valves, pressure relief valves, altitude and metaing valves, throughout the water distribution system. The program milluges valves anging in size from 8-inches to 60-inches in diameter. The program will upgrade or relocate the structures and equipment as necessary. This program will improve reliability and increase the efficiency of system       G. Status Information         JUSTIFICATION       Plans & Studies       Candidate PRVs were originally identified in an October 26, 2005, memo from Jeff Asner to Karen Wright, and a subsequent May 7, 2007, memo from Karen Wright to Thomas Heakkinen. Onginally, there were 23 candidate vaults within this Program as identified by the Systems Control Group; "PRV Vault Rehabilitation Evaluation Study", EBA Engineering, Inc. (September 2010).       H. Map       Map Reference Code:         Specific Data       The facilities included in this program are in need of rehabilitation due to factors such as: location within heavily traveled roadways, age deterioration, and obsolescence. The highest priority valves in construction on the 24-inch diameter Privater main and is in extremely poor condition. The new vault will meet current standards and begin construction in the avolutes will improve operational flexibility. (3) Central Avenue Supply and Throtting Valves - this project modifies the valves and piping on 60-inch and reliability at the Central Avenue Water Pumping Station.       MAP NOT APPLICABLE         Cost increase reflects updated estimates for design and construction costs. The most significant cost increase comes from the replacement of more valve values at the Central Avenue pumping Station.       But4396806, MV5237C11,	•													
Candidate PRVs were originally identified in an October 26, 2005, memo from Jeff Asner to Karen Wright, and a subsequent May 7, 2007, memo from Karen Wright to Thomas Heikkinen. Originally, there were 23 candidate vaults within this Program as identified by the Systems Control Group; "PRV Vault Rehabilitation Evaluation Study", EBA Engineering, Inc. (September 2010). Specific Data The facilities included in this program are in need of rehabilitation due to factors such as: location within heavily traveled roadways, age deterioration, and obsolescence. The highest priority valves in construction or design are: (1) Adelphi Road PRV - this facility is located in a major roadway on a 60-inch diameter water main and is in extremely poor condition. The new vault will meet current standards and began construction in FY 14, (2) Old Baltimore Avenue PRV - work on this 24-inch diameter PRV vault from 1955 is being coordinated with work on the 30-inch diameter Prince George's PRV Vault and should start construction in late FY'15 and will improve operational flexibility; (3) Central Avenue Supply and Throttling Valves - this project modifies the valves and piping on 60-inch and 84-inch diameter Pumping Station. The new valve vaults will improve operational flexibility and reliability at the Central Avenue Water Pumping Station. The new valve vaults will improve operational flexibility and reliability at the Central Avenue water of the entral Avenue pumping station. The new valve valuts will improve operational flexibility and reliability at the Central Avenue pumping station than originally anticipated. STATUS Under Construction (WSSC Contract Nos. BL4830A08, BL4830B08, BM4396B06, MV5237C11, MV5237D11, MV5237E11). OTHER	relocate the structures and equipoperations.													
age deterioration, and obsolescence. The highest priority valves in construction or design are: (1) Adelphi Road PRV - this facility is located in a major roadway on a 60-inch diameter water main and is in extremely poor condition. The new vault will meet current standards and began construction in FY' 14; (2) Old Baltimore Avenue PRV - work on this 24-inch diameter PRV vault from 1955 is being coordinated with work on the 30-inch diameter Prince George's PRV Vault and should start construction in late FY'15 and will improve operational flexibility; (3) Central Avenue Supply and Throttling Valves - this project modifies the valves and piping on 60-inch and 84-inch diameter mains at the Central Avenue Pumping Station. The new valve vaults will improve operational flexibility and reliability at the Central Avenue Water Pumping Station. The new valve vaults will improve operational flexibility and reliability at the Central Avenue Water Pumping Station. The new talve vaults will improve operational flexibility and reliability at the Central Avenue pumping station than originally anticipated. <b>STATUS</b> Under Construction (WSSC Contract Nos. BL4830A08 , BL4830B08 , BM4396B06 , MV5237C11 , MV5237D11 , MV5237E11). <b>OTHER</b>	Candidate PRVs were originally 2007, memo from Karen Wright the Systems Control Group; "PR	to Thomas	s Heikkin	en. Origir	nally, there	e were 23	candidat	e vaults w	ithin this	Program a				
Cost Change Cost increase reflects updated estimates for design and construction costs. The most significant cost increase comes from the replacement of more valve vaults at the Central Avenue pumping station than originally anticipated. STATUS Under Construction (WSSC Contract Nos. BL4830A08 , BL4830B08 , BM4396B06 , MV5237C11 , MV5237D11 , MV5237E11). OTHER	Specific Data The facilities included in this program are in need of rehabilitation due to factors such as: location within heavily traveled roadways, age deterioration, and obsolescence. The highest priority valves in construction or design are: (1) Adelphi Road PRV - this facility is located in a major roadway on a 60-inch diameter water main and is in extremely poor condition. The new valut will meet current standards and began construction in FY' 14; (2) Old Baltimore Avenue PRV - work on this 24-inch diameter PRV vault from 1955 is being coordinated with work on the 30-inch diameter Prince George's PRV Vault and should start construction in late FY'15 and will improve operational flexibility; (3) Central Avenue Supply and Throttling Valves - this project modifies the valves and piping on 60-inch and 84-inch diameter mains at the Central Avenue Pumping Station. The new valve vaults will improve operational flexibility and													
Cost increase reflects updated estimates for design and construction costs. The most significant cost increase comes from the replacement of more valve vaults at the Central Avenue pumping station than originally anticipated. <u>STATUS</u> Under Construction (WSSC Contract Nos. BL4830A08, BL4830B08, BM4396B06, MV5237C11, MV5237D11, MV5237E11). <u>OTHER</u>														
OTHER	Cost increase reflects updated e									se comes	from the			
				•				•		5237D11	, MV5237	'E11).		
	OTHER													
		I the same	. Land a	nd rights-	of-way co	osts are in	cluded in	WSSC P	roject W-2	202.00.				

A. Identification and Coding Inform	nation		2. Da	te: Octol	ber 1, 201	14	7. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (000	)'s) FY of Im	npact
1. Project Number Agency Number	Update	Code			, .							Program Costs Staff		
A-109.00	Change	;	Revis	eu.					·			Other Facility Costs Maintenance		
3. Project Name: Advanced Metering	g Infrastru	cture				į	5.Agency:	W	SSC			Debt Service	6156	20
4. Program: Sanitation	6. Planning	g Area:										Total Costs	6156	20
												Impact on Water or Sewer Rate	12¢	20
В.		E	Expenditu	ire Sched	ule (000':	s)						F. Approval and Expenditure Data (000's	(ئ	
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Boyond			10
Cost Elements	Total	FY '14	FY '15	6 Years	FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	Beyond 6 Years	Date First in Capital Program	FY	
Planning, Design & Supervision	5,075	75	1,750	3,250	950	600	600	600	500			Date First Approved	FY	13
Land												Initial Cost Estimate	86,00	00
Site Improvements & Utilities												Cost Estimate Last FY	89,50	00
Construction	83,550	800	750	82,000		12,750	25,500	25,500	18,250			Present Cost Estimate	89,50	00
Other	875		25	850	10	134	260	260	186			Approved Request, Last FY	96	60
Total	89,500	875	2,525	86,100	960	13,484	26,360	26,360	18,936			Total Expenditures & Encumbrances	87	75
C.			Funding	Schedul	e (000's)				I			Approval Request FY 16	96	30
WSSC Bonds	89,500	875	-		960	1	26,360	26,360	18,936			Supplemental Approval Request		
D. Description & Justification	WSSC Bonds 89,500 875 2,525 86,100 960 13,484 26,360 26,360 18,936 Supplement													
DESCRIPTION														
This project provides for the imp	lementatio	on of a sv	stem-wide	automate	ed meter	reading ir	ofrastructu	ire system	n (System	) All me	ters will	G. Status Information		
receive new Meter Interface Unit												Land Status: Not determined		
readings will be collected remote	ely by eithe	er a mobil	e system	or a fixed	network	communio	cations sy	vstem.	-	-		% Project Completion: P-15%		
		Est. Completion Date: FY 2020												
												H. Map Map Reference Code:		
Plans & Studies	Donort Mo	toring Co	nuisso In	. (1000);	An <b>F</b> aana	mia Eval	uction of		VEEC M	rib <i>u</i> n Llor	rington			
Dial Outbound AMR Trial Final F (1992); Cost of Meter Reading S														
Industrial Meters (2002); Radio F	Frequency	Solution	for Meter	Reading (	(2003); AI	MR Phase	e I (July 2	005); Cus	tomer Ca	re Team				
Departmental Action Item #20 - /	AMR Insta	allation (20	007); Adv	anced Me	tering Infr	rastructure	e Study, F	R.W. Beck	(March 2	:011).				
Specific Data						<i>.</i> .			.,					
The System will be required to o underground vault settings, and											em			
Cost Change					ing moto					all off off off				
Not applicable.													-	
STATUS Planning												MAP NOT AVAILABLE	-	
OTHER												I PERSONAL PROPERTY AND A		
The project scope has remained											esults			
include: Monthly billing based of														
payments, help customers devel consumption due to leaks are ac														
leaks before they get high consu														
sophisticated rate structures; An	alysis of ir	ndividual	consumpt	ion patteri	ns to dete	ect meters	s suspecte	ed of wear	ring out, o	r perform	meter			
sizing analysis to ensure that lar														
conservation enforcement during detect and reduce non-revenue														
Information System (CSIS) is co														
COORDINATION														
Montgomery County Governmer	nt and Prin	nce Georg	e's Count	y Governr	nent.									

A. Identification and Coding Information	2. Da	te: Octobe	er 1. 2014	1 ⁷	'. Pre PD	F Pg.No.:	8. Req.	Adeq. Pu	ıb. Fac.	E. Annual Operating Budget Impact (000's) FY of Impa		
1. Project Number Agency Number Update C	ode			- 						Program Costs Staff		
S-300.01 Change	Revis	eu.								Other Facility Costs Maintenance		
3. Project Name: D'Arcy Park North Relief Sewe	er			5	Agency:	W	SSC			Debt Service            Total Costs         20         1		
4. Program: <b>Sanitation</b> 6. Planning <i>i</i>	Area: Suitla	Ind-District	Heights 8	& Vicinity	P.A. 75A	<b>N</b>				Impact on Water or Sewer Rate		
В.	Expenditu	ire Schedu	le (000's)	)						F. Approval and Expenditure Data (000's)		
(8)	(9) (10) Thru Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5	(17) Year 6	(18) Beyond	Date First in Capital Program FY 14		
	FY '14 FY '15		FY '16	FY '17	FY '18	FY '19	FY '20	FY '21	6 Years			
Planning, Design & Supervision 261	90 88	83	43	40						Date First Approved FY 14		
Land										Initial Cost Estimate 824		
Site Improvements & Utilities										Cost Estimate Last FY 849		
Construction 489	125	364	182	182						Present Cost Estimate 849		
Other 99	32	67	34	33						Approved Request, Last FY 261		
Total 849	90 245	514	259	255						Total Expenditures & Encumbrances 90		
C.	Funding	g Schedule	(000's)							Approval Request FY 16 259		
Contribution/Other 849	90 245	514	259	255						Supplemental Approval Request		
D. Description & Justification										Current FY (15)		
D. Description & Justification DEscription & Justification DESCRIPTION This project provides for the planning, design, and construction of 1,110 feet of 12-inch diameter (non-SDC eligible) PVC relief sewer to provide service to D'Arcy Park North. Service Area Western Branch Drainage Basin Capacity 1.6 mgd UJSTIFICATION Plans & Studies D'Arcy Park North Hydraulic Planning Analysis, (September 2008) Cost Change Not applicable. STATUS Planning (WSSC Contract No. DA4850208, ). OTHER The project scope has remained the same. The expenditures and schedule projections shown in Block B are planning level estimates and may change depending upon site-specific conditions and design constraints. Expenditures shown in prior years are for the Hydraulic Planning Analysis costs for the project. Estimated completion date is developer dependent. No WSSC rate supported debt may be used for this project. COORDINATION Prince George's County Department of Environmental Resources and Local Community Civic Associations.												

Appendices

## WASHINGTON SUBURBAN SANITARY COMMISSION

- SUBJECT: A RESOLUTION modifying the System Development Charge (SDC) to help finance the capital costs of expanding and augmenting water and sewerage systems to accommodate service to subscribers in the Washington Suburban Sanitary District (WSSD) and to provide a financing mechanism to aid the Washington Suburban Sanitary Commission (Commission) in paying for the capital projects thereof by providing methods and procedures by which the SDC is to be implemented and/or collected.
- WHEREAS, the Maryland General Assembly enacted House Bill 883, Chapter 559, Laws of Maryland 1993, System Development Charge legislation during its 1993 Session, a bill which provides the enabling authority for the Montgomery and Prince George's County Councils to establish a fee which will be paid by applicants for new service; and
- WHEREAS, the Maryland General Assembly enacted House Bill 832, Chapter 713, Laws of Maryland 1998, System Development Charge legislation during its 1998 Session, a bill which, among other things, alters the schedule for the payment of the System Development Charge to the Commission for certain properties; establishes a new maximum System Development Charge per fixture unit; allows for and limits the amount of certain exemptions; establishes a maximum System Development Charge based on the number of toilets per dwelling; authorizes a change in the maximum System Development Charge for certain residential units based on the number of toilets per dwelling; and
- WHEREAS, the Maryland General Assembly enacted House Bill 636, Chapter 124, Laws of Maryland 2013, System Development Charge legislation during its 2013 session, a bill which allows partial exemptions to certain properties used primarily for recreational and educational programs and services to youth; and
- WHEREAS, the Commission owns and operates various water treatment and sewage treatment disposal plants and facilities within the WSSD and utilizes and has an equity share in sewage treatment plants operated by other jurisdictions to treat sewage generated in portions of the WSSD; and
- WHEREAS, it is necessary that the Commission, with the advice and consent of the local governing bodies within the WSSD, develop alternative funding to cover the costs of providing quality water and sewer service in the WSSD and to similarly accommodate new growth therein as authorized by the County Governments; and

- WHEREAS, the System Development Charge is a component of the Commission's Fiscal Year 2016 capital and operating budgets prepared pursuant to §17-202, Division II of the Public Utilities Article, Annotated Code of Maryland; and
- WHEREAS, the Commission last modified the System Development Charge effective July 1, 2014 by Commission Resolution No. 2014-2012; and
- WHEREAS, for all of the foregoing reasons it is necessary or desirable to continue the imposition of a System Development Charge fee; and
- WHEREAS, Chapter 713, 1998 Laws of Maryland provides that the Montgomery and Prince George's County Councils may adopt and the Commission may implement a System Development Charge not to exceed \$200.00 per fixture unit or, for residential properties with five or fewer toilets, not to exceed certain enumerated amounts based on the number of toilets per dwelling unit, effective July 1, 1998; and
- WHEREAS, Chapter 713, 1998 Laws of Maryland further provides that on July 1, 1999 and each July 1 of each succeeding year, the maximum charge may be changed by an amount equal to the prior calendar year's change in the consumer price index published by the Bureau of Labor Statistics of the United States Department of Labor for urban wage earners and clerical workers for all items for the Washington, D.C. metropolitan area; and
- WHEREAS, the consumer price index published by the Bureau of Labor Statistics of the United States Department of Labor for urban wage earners and clerical workers for all items for the Washington, D.C. metropolitan area increased 1.0% from November 2013 to November 2014; and
- WHEREAS, the Commission recommends keeping the System Development Charge rates unchanged for FY'16. However, the Commission recommends increasing the maximum allowable charge by 1.0% from FY'15 limits in order to maintain future rate flexibility to address future potential growth funding gaps; and
- WHEREAS, the County Councils of Prince George's County and Montgomery County have approved the modifications to the System Development Charge set forth below.
- **NOW, THEREFORE, BE IT RESOLVED** THIS 17th day of June, 2015, that the Commission hereby adopts the approved System Development Charge fee schedule as set forth herein. For the purposes of this Resolution, the following definitions apply:

## Definitions:

- 1) <u>Apartment Unit</u> means one of several single family residential units within one building that is not a "multi-unit dwelling." An "apartment unit" must contain at least one full bath and kitchen, but not more than two toilets. An "apartment unit" typically includes, but is not limited to, an individual dwelling unit in a garden, medium or high-rise type residential building.
- 2) <u>Biotechnology Research and Development or Manufacturing</u> means any development as jointly defined and approved by the Montgomery and Prince George's County Councils as eligible for a waived System Development Charge, more particularly described in Schedule C, attached.
- 3) <u>Drainage Charge</u> is the portion of the System Development Charge applicable to drainage fixture units for apartments and residential properties having five or fewer toilets.
- 4) <u>Drainage Fixture Unit Value</u> is a measure of the probable discharge into the drainage system by a particular plumbing fixture in terms of volume rate of discharge and duration of a single drainage operation and the time between successive operations.
- 5) <u>Dwelling Unit</u> means a single-family housing unit used as a residence, including trailers and mobile homes.
- 6) <u>Elderly Housing</u> means residential units as jointly defined and approved by the Montgomery and Prince George's County Councils as eligible for a waived System Development Charge, more particularly described in Schedule D, attached.
- 7) <u>Hookup</u> means the joining of the on-site water and/or sewer line(s) to the Commission's service connection or the installation of plumbing fixtures in a building served by the Commission's water and/or sewer facilities.
- 8) <u>Multi-Unit Dwelling</u> means a building that will accommodate several housing units on a lateral basis; namely, semi-attached houses, row houses, or townhouses used as residences.
- 9) <u>New Service</u> means:
  - a) the first-time hook-up of a property to the Commission's water and/or sewer system; or
  - b) a new connection or increased water meter size for a property previously or currently served by the Commission if the new connection or increased meter size is needed because of a change in the use of the property or an increase in demand for service at the property.
- 10) <u>Non-Residential Unit</u> is a structure not otherwise defined as a Residential Unit, generally commercial or industrial in nature. Examples may include shopping

malls, non-residential townhouses, warehouses, industrial buildings, restaurants, schools, dormitories, hospitals, hotels, motels, nursing homes, office buildings, churches, theaters, and similar commercial or industrial buildings.

- 11) <u>Property Used Primarily for Recreational and Educational Programs and</u> <u>Services to Youth</u> means real property, owned in fee simple, by a Community Based Organization that is exempt from taxation under § 501(c)(3) of the Internal Revenue Code; and as more fully jointly defined and approved by the Montgomery and Prince George's County Councils as eligible for a System Development Charge exemption, more particularly described in Schedule F, attached.
- 12) <u>Public Sponsored or Affordable Housing</u> means units as jointly defined and approved by the Montgomery and Prince George's County Councils as eligible for a waived System Development Charge, more particularly described in Schedule A, attached.
- 13) <u>Residential Unit</u> means any housing unit defined in Paragraphs 1, 5, and 8 above used as a residence.
- 14) <u>Revitalization</u> means any development as jointly defined and approved by the Montgomery and Prince George's County Councils as eligible for a waived System Development Charge, more particularly described in Schedule B, attached.
- 15) <u>System Development Charge</u> means that charge imposed by the Commission pursuant to the provisions of §25-403, Division II of the Public Utilities Article, Annotated Code of Maryland. (Maximum allowable System Development Charge is the maximum charge authorized by law, but not necessarily imposed in a given year.)
- 16) <u>Toilet</u> is a water closet as set forth in the WSSC Plumbing and Fuel Gas Code; and
- 17) <u>Water Supply Charge</u> is the portion of the System Development Charge applicable to water supply fixture units for apartments and residential properties having five or fewer toilets; and
- 18) <u>Water Supply Fixture Unit Value</u> is a measure of the probable hydraulic demand on the water supply by a particular plumbing fixture in terms of volume rate of supply and duration of a single supply operation and the time between successive operations; and

**BE IT FURTHER RESOLVED**, that the System Development Charge rates for FY'16 shall be as follows:

Preventi Tuno	FY'15 Charge	Maximum Allowable Charge	
Property Type	Charge	Allowable Charge	
Apartment Unit			
Water	\$896	\$1,269	
Sewer	1,140	1,618	
1-2 Toilets / Residential			
Water	1,344	1,906	
Sewer	1,710	2,422	
3-4 Toilets / Residential			
Water	2,240	3,176	
Sewer	2,850	4,040	
5 Toilets / Residential	·		
Water	3,135	4,445	
Sewer	3,991	5,658	
6 or More Toilets / Residential*			
Water	88	125	
Sewer	115	164	
Non-Residential*			
Water	88	125	
Sewer	115	164	
*Per Fixture Unit			

(The System Development Charge for non-residential properties and dwelling units or multi-unit dwellings with more than five toilets shall be based on the number of plumbing fixtures and the assigned values for those fixtures as set forth in the WSSC Plumbing and Fuel Gas Code.); and

- **BE IT FURTHER RESOLVED**, that the System Development Charge, as established herein, shall be paid to the Commission at the time of application for plumbing permit to install fixtures or hookup(s) to the Commission's water and/or sewage system(s) except that an applicant for a plumbing permit for a residential unit may pay the System Development Charge in two payments as follows:
  - 1) One-half at the time of Plumbing Permit Application;
  - 2) The remaining one-half within 12 months after the first payment or prior to the transfer of title to the property, whichever occurs first.

At the time of the first payment, the applicant for the plumbing permit for a residential unit shall deposit with the Commission security for the second payment in an amount and form established and approved by the Commission; and

- **BE IT FURTHER RESOLVED**, that the fees established herein shall be in addition to, and not a substitution for, any other fees, rates, charges, or assessments allowed by law; and
- **BE IT FURTHER RESOLVED**, that the System Development Charge shall be waived for any public sponsored or affordable housing as defined in Schedule A; and
- **BE IT FURTHER RESOLVED**, that the System Development Charge shall, subject to the below provisions of this Resolution No. 2015-2084, be waived for Revitalization projects as defined in Schedule B; and
- **BE IT FURTHER RESOLVED**, that the System Development Charge partial exemptions for Elderly Housing are established by Schedule E; and
- **BE IT FURTHER RESOLVED**, that the System Development charge, subject to the below provisions of this Resolution No. 2015-2084, be waived, up to \$80,000, for Properties Used Primarily for Recreational and Educational Programs and Service to Youth as defined in Schedule F; and
- **BE IT FURTHER RESOLVED**, that the System Development Charge partial exemptions for Biotechnology Research and Development or Manufacturing shall be \$18 per water supply fixture with an assigned fixture unit value of 1 and \$25 per drainage fixture with an assigned drainage fixture unit value of 1, or \$43 per combined fixture unit value; and
- **BE IT FURTHER RESOLVED**, that the County Councils of Prince George's and Montgomery Counties may adopt implementing resolutions for System Development Charge partial exemptions for Biotechnology Research and Development or Manufacturing, Elderly Housing, and Property Used Primarily for Recreational and Educational Programs and Services to Youth as defined in Schedules C, D, and F and the System Development Charge full exemption for Revitalization as defined in Schedule B. The amount of the aforementioned full and partial exemptions authorized by this Resolution No. 2015-2084 for individual properties or projects may be limited by the provisions of the aforementioned Council resolutions. In addition, the aforementioned full and partial exemptions authorized by this Resolution No. 2015-2084, except those granted for affordable housing (as defined on Schedule A), shall not take effect unless and until the Council for the County in which the exempted project is located adopts the said implementing resolution; and
- **BE IT FURTHER RESOLVED**, that nothing herein shall be construed as creating a contract between the Commission and the applicant for service, and that the providing of water and/or sewer service to an applicant's property shall be subject

to intervention of other governmental authority; the duly adopted policies of Montgomery and Prince George's Counties, and the Commission's ability to otherwise provide such service; and

- **BE IT FURTHER RESOLVED**, that Commission Resolution No. 2014-2012 adopted June 18, 2014 on the same subject matter be, and the same is hereby superseded by this Commission Resolution No. 2015-2084; and
- **BE IT FURTHER RESOLVED**, that the System Development Charge established herein shall take effect on July 1, 2015.

A True Copy

Attest:

Sheila R. Finlayson, Esq., Corporate Secretary

## **SCHEDULE A**

"Public sponsored or affordable housing" means:

- 1) any dwelling unit built or financed under a government program, regulation, or binding agreement that limits for at least 10 years the price or rent charged for the unit in order to make the unit affordable to households earning less than 80% of the area median income, adjusted for family size;
- 2) any Moderately Priced Dwelling Unit built under Chapter 25A of the Montgomery County Code or Subtitles 13 and 27 of the Prince George's County Code;
- 3) any Productivity Housing Unit, as defined in Section 25B-17 (k) of the Montgomery County Code;
- 4) any unit in an Opportunity Housing Project built under Sections 56-28 through 56-32 of the Montgomery County Code or Subtitle 13, Division 8, of the Prince George's County Code, which is reserved for occupancy only by persons with low or moderate incomes (as defined in applicable provisions of State and County Law);
- 5) any dwelling unit constructed pursuant to the Capturing Housing Opportunities in Communities Everywhere (CHOICE) Program in Prince George's County which is reserved for occupancy only by persons with low or moderate incomes (as defined in applicable provisions of State and County Law).

## **SCHEDULE B**

- 1) "Revitalization" means a project located in one of the following geographic areas and meeting any additional criteria that may be adopted by the respective county council or applicable municipal council:
  - a) any state-designated revitalization area as defined by the Maryland Department of Housing and Community Development (DHCD).
  - b) any state-designated enterprise zone as defined by the Maryland Department of Business and Economic Development (DBED).
  - c) any federally-designated economic development district as defined by the U.S. Department of Commerce, Economic Development Administration (EDA).
  - d) any federally-designated empowerment zone and developable sites as defined by the U.S. Department of Housing and Urban Development (HUD).
  - e) any Transit District Overlay Zone (T-D-O Zone) as defined by Subtitle 27, Part 10A, Division 1, of the Prince George's County Code.
  - f) any Prince George's County designated revitalization area as defined in Subtitle 10 of the Prince George's County Code.
  - g) any state-designated Neighborhood Business Development Program, as defined in Subtitle 2, of Title 4, of Article 83B, of the Annotated Code of Maryland.
  - h) any Montgomery County designated neighborhoods, as determined by the Montgomery County Executive and County Council, as a revitalization neighborhood for activities that will act to preserve, stabilize, and enhance the social, physical, and economic conditions of the neighborhood. Activities may include concentrated housing code inspections and enforcement, housing rehabilitation, social service programs, public infrastructure improvements, and private and/or public capital investment.

# APPENDIX A

## **SCHEDULE C**

"Biotechnology Research and Development or Manufacturing" means:

Any activity that substantially involves research, development, or manufacturing of:

- a. Biologically-active molecules;
- b. Devices that employ or affect biological processes; or
- c. Devices and software for production or management of specific biological information.

## SCHEDULE D

"Elderly Housing" include the following types of housing:

As defined in the Prince George's County Zoning Ordinance:

## Sec. 27-107.01. Definitions

(a) Terms in the Zoning Ordinance are defined as follows:

	(20.1) (54) (151.1)	Assisted Living Facility Congregate Living Facility Mixed Retirement Development	
Sec. 27-352.01	Elde	rly Housing (one-family attached dwellings)	
Sec. 27-374	Medical / residential campus		
Sec. 27-395	Plan	ned retirement community	

OR

As defined in the Montgomery County Zoning Ordinance:

Sec. 59-G-2.35	Housing and related facilities for elderly or handicapped persons
Sec. 59-G-2.35.1	Life Care (continuing care) facility
Sec. 59-C-7.4	Housing constructed in a planned retirement community zone

OR

As defined in a municipal zoning ordinance in a municipality having separate zoning powers and that is found by the Director of the Department of Housing and Community Affairs to be equivalent to the definition for the county in which the municipality is located. The review of equivalency should be based upon age of occupants and the inclusion of assisted living dwelling units.

## SCHEDULE E

Maximum "elderly housing" exemptions are as follows:

1.	Apartment unit	\$436.00
2.	Dwelling unit or housing unit within a multi-unit dwelling with one or two toilets	\$654.00
3.	Dwelling unit or housing unit within a multi-unit dwelling with three or four toilets	\$1,090.00
4.	Dwelling unit or housing unit with a multi-unit dwelling with five toilets	\$1,526.00
5. exen	For other housing that meets the elderly housing option criteria	Not more than \$43 per combined fixture unit value

## SCHEDULE F

1. "Property Used Primarily for Recreational and Educational Programs and Services to Youth" means:

Real property, owned in fee simple, by a Community Based Organization, located within the Washington Suburban Sanitary District, which is used to advance the mission and purpose of providing recreational and educational program and services to youth in Prince George's and/or Montgomery County.

2. "Community Based Organization" means:

A not-for-profit entity duly incorporated in or authorized to do business by the State of Maryland and in good standing under the laws of the State of Maryland, which has as its primary mission and purpose to provide recreational and educational programs and services to youth in Prince George's and/or Montgomery County.

3. "Exempt From Taxation" means:

A not-for-profit, charitable or educational organization as determined by the Internal Revenue Service, under Section 501(c) (3) of the Internal Revenue Code.

## STANDARD PROCEDURES OF THE WASHINGTON SUBURBAN SANITARY COMMISSION

DRIGINATOR Joseph F. McNerney Customer Affairs Bureau Director	SPNUMBER CUS 98-01 Supersedus CUS 94-06 & CUS 93-02	APPROVE BY/DATE	EFFECTIVE DATE July 1, 1998	PAGE 1 OF 7		
SUBJECT. SYSTEM DEVELOPMENT CHARGE LEVY AND COLLECTION						

#### PURPOSE

- 1.1 To document the levy, collection and deposit of the System Development Charge (SDC) in accordance with Article 29, §6-113 of the <u>Annotated Code of</u> <u>Maryland</u> and WSSC's Resolution No. 98-1555.
- 1.2 Define terms and phrases referencing SDC as commonly used in the issuance of plumbing permits.

#### DEFINITIONS.

- 2.1 <u>ADARTMENT Unit</u> means one of several single family housing units within one building and not specifically classified as a multi-unit dwelling, e.g., individual dwelling units in garden, medium and high-rise type residential buildings.
- 2.2 <u>Base SDC Fee</u> is the WSSC approved dollar charge for a plumbing fixture having a Drainage Fixture Unit Value and/or a Water Supply Fixture Unit Value of one for non-residential properties or residential units with more than five toilets. The Base SDC Fee for residential units with five or fewer toilets is the WSSC approved dollar charge based upon the unit's number of toilets
- 2.3 <u>Drainage Fixture Unit Value</u> is a measure of the probable discharge into the drainage system by a particular plumbing fixture in terms of volume rate of discharge and duration of a single drainage operation and the time pariod between successive operations.
- 2.4 <u>Dwelling Unit</u> means a single family housing unit used as a residence, including trailers and mobile homes.
- 2.5 <u>Hookun</u> means the joining of a property's on-site water and/or sewer line(s) to the Commission's service connection or the installation of plumbing fixtures in a building served by the Commission's water and/or sewer facilities.
- 2.6 <u>Multi-Dnit Dwelling</u> means a building that will accommodate several housing units on a lateral basis; namely, semi-attached houses, row bouses or townhouses used as residences.

2.7 <u>New Service</u> means:

SP NUMBER CUS 98-01'

## WSSC STANDARD PROCEDURES

#### PAGE 2 OF 7

- the first-time hook-up of a property to the Commission's water and/or sewer system; or
- (b) a new connection or increased water meter size for a property, previously or currently served by the Commission, if the new connection or increased meter size is needed because of a change in the use of the property or an increase in demand for service at the property.
- 2.8 <u>Non-Residential Unit</u> is a structure not otherwise defined as a Residential Unit, generally commercial or industrial in nature. Examples may include Shopping Malls, non-Residential Townhouses, Warehouses, Industrial Buildings, Restaurants, Schools, Dormitories, Hospitals, Hotels, Motels, Nursing Homes, Office Buildings, Churches, Theaters and similar commercial or industrial buildings.
- 2:3 <u>Plumbing Permit</u> is the approved instrument, resulting from an application filed by a Registered Master Plumber, which allows for hookup of fixtures or ousite piping to the Commission's water and/or sever systems.
- 2.10 <u>Property</u> means an improvement(s) or building(s) on a lot or parcel of land containing plumbing fixtures described in terms of Drainage Fixture Unit Values or Water Supply Fixture Unit Values.
- 2.11 Public Sponsored and Affordable Housing means:

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- (1) any dwelling unit built or financed under a government program, regulation, or binding agreement that limits for at least 10 years the price or zent charged for the unit in order to make the unit affordable to households earning less than 80% of the area median income, adjusted for family size;
- (2) any Moderately Priced Dwelling Unit built under Chapter 25A of the Montgoingry County Code or Subtitles 13 and 27 of the Prince George's County Code;
- (3) any Productivity Housing Unit, as defined in Section 25B-17(m) of the Multgomery County Code;
- (4) any unit in an Opportunity Housing Project built under Sections 56-28 through 56-32 of the Montgomery County Code or Subtitle 13, Division 8, of the Prince George's County Code, which is reserved for occupancy only by persons with low or moderate incomes (as defined in applicable provisions of State and County Law);
- (5) any dwelling unit constructed pursuant to the Capturing Rousing Opportunities in Communities Everywhere (CHOICE) Program in Frince George's County which is reserved for occupancy only by persons with low or moderate incomes (as defined in applicable provisions of State and . County Law).

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2:12 <u>Residential Unit</u> means any housing unit defined in Paragraphs 2.1, 2.4, and 2.5 above used as a residence.

## SP NUMBER COS 98-01

## WSSC STANDARD PROCEDURES

## PAGE 3 OF 7

- 2.13 <u>Residential Applicant</u> means a builder on whose bahalf a Registered Master Plumber applies for and receives from the Commission plumbing permits for construction of new residential units.
- 2.14 <u>SDC Sewer Charge</u> is the product of a fixture's Drainage Fixture Unit Value and its associated Base SDC Fee for non-residential properties or dwelling and multi-unit housing units with more than five toilets. For residential properties with five or fewer toilets, the SDC Sewer Charge is the Commission approved drainage portion of the Base SDC Fee.
- 2.15 <u>SDC Water Charge</u> is the product of a fixture's Water Supply Fixture Unit Value and its associated Base SDC Fee for non-residential properties or dwelling and multi-unit housing units with more than five toilets. For residential properties with five or fewer toilets, the SDC Water Charge is the Commission approved water supply portion of the Base SDC Fee.
- 2.16 <u>Sub-District Charge</u> means that charge established by the Commission pursuant to the provisions of §6-103, Article 29, <u>Annotated Code of Marvland</u>.
- 2.17 <u>Toilet</u> means a water closet, as set forth in the WSSD Plumbing and Gasfitting Regulations.
- 2.15 <u>Nater Supply Fixture Unit Value</u> is a measure of the probable hydraulic demand on the water supply by a particular plumbing fixture in terms of volume rate of supply and duration of a single supply operation and the time period between successive operations.

#### <u>GENERAL</u>

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- SDC is a fee established pursuant to provisions of Article 29, § 6-113 of the <u>Annotated</u> Code of <u>Maryland</u>, to help finance the capital cost of upgrading existing plants and facilities as well as the construction of new capital projects attributable to the addition of new service.
- 3.2 The Base SDC Fee level is established by Commission Resolution representing a formal adoption of the fee level mutually agreed upon by the Montgomery and Prince George's County Councils.
  - The SDC fee for a non-residential property or a dwalling unit or housing unit within multi-unit dwalling with more than five toilets is determined by the type and number of fixtures, existing and/or proposed, for which hookup to the WSSC's water and/or sewarage system(s) is proposed. The SDC levy is the sum of SDC Water Charges and SDC Sewar Charges, prevailing at the time of application for hook-up, which are associated with the individual fixtures proposed for hookup.

3.4 The SDC fee for a residential unit with five or fewer collets is determined by the number of toilets, existing and/or proposed, for which hookup to the WSSC's water and/or sewerage system(s) is proposed. The SDC lavy is the sum

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## WSSC STANDARD PROCEDURES

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of SDC Water Charges and SDC Sewar Charges, prevailing at the time of application for hook-up, which are associated with the number of toilets proposed for hookup.

- 3.5 Except as provided by Section 3.9, a property's calculated SDC fee is oayable in full and shall accompany the application for plumbing permit for hookup of a property's fixtures to the WSSC system. Any "credit" pursuant to WSSC, Standard. Procedure CDS 94-03, entitled SDC DEVELOPER CREDITS AND REIMBURSEMENTS, may be substituted as payment, on a dollar for dollar basis, as therein described. Collected SDC fees shall be deposited in established revenue. accounts and reconciled through the Service Applications & Records Section's remittance-processing system.
- 3.6 When a request is made to add a fixture(s) to a plumbing permit which has been issued under a previous SDC rate structure and which has not received final inspection approval, the additional SDC shall be calculated and collected based upon the fixture unit rate in effect at the time of request, except that the total SDC for a residential unit permit with five or less toilets shall not exceed the current Base SDC fee for such a unit.
- 3.7 When an application is made to add a toilet(s) to an existing dwelling or housing unit within an existing multi-unit dwelling, the resulting permit may be subject to a SDC fee only if the unit was previously assessed a SDC fee or an increase is required in the size of the unit's connection or meter. In either situation, a SDC fee will be actually assessed only if the number of toilets is being increased from one toilet based rate category to the next. For housing units with five or fewer toilets, the SDC fee assessed will be equal to the difference in the SDC base charge currently applicable to the number of existing toilets and that applicable to the total number of existing and proposed toilets is the SDC fee assessed for existing housing units with more than five toilets is the sum of the SDC Base faces at the current SDC rate structure for all added fixtures.
- 3.8 When an application is made to add fixtures to a Non-residential Unit, the resulting permit may be subject to a SpC fee only if the unit was previously assessed a SDC fee or an increase is required in the size of the unit's connection or meter. In either situation, the SDC fee assessed is the sum of the SDC Base fees at the current SDC rate structure for all added fixtures.
- 3.9 A residential applicant who elects to delay paying a portion of the system development charge shall pay one half the charge at the time of filing application for plumbing permit. The remaining one half of the system development charge for each residential unit shall be paid to the Commission within 12 months after the first payment or prior to the transfer of title to the property, whichever occurs first. A residential applicant must provide security for the remaining one half of the system development charge at the time of filing the plumbing permit application in one of the following forms:

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- (a). An irrevocable letter of credit that is automatically renewed from a bank that is rated "C" or better by Thomson BankWatch.
- (b) financial guaranty bond in form a substantially similar to the form attached here as Appendix "A." The bond shall be executed by the applicant and a corporate bonding company licensed to transact such business in the State of Maryland and named on the current list of "surety companies acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. The expense of this bond shall be paid-by the applicant. If at any time the surety on any such bond is declared bankrupt or loses its right to do business in the State of Maryland or is removed from the list of surety companies accepted on Federal bonds, the applicant shall within ten days after notice from the Commission to do so, substitute an acceptable bond in such forms and sum and signed by such other surety or sureties as may be satisfactory to the Commission:

For the residential applicant who certifies that he or she applies for four or fewer parmits for the construction of residential units within the same calendar year, the General Counsel is hereby authorized to accept other forms of security proposed by the applicant and that in the judgment of the General Counsel will protect the Commission's inferests in the same manner as the letter of credit and financial guaranty bond described above.

3.10 Fixtures verified by WSSC inspection prior to removal may result in credits toward SDC in a replacement structure. Following written application by a Registered Master Plumber, Postcard Permit inspections to confirm fixtures prior to removal will be the basis for calculating any SDC credit. No credit writhmassalide (RevSlubs)

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will be afforded for rough-in piping or fixtures removed prior to inspection. SDC credit under this paragraph may only be obtained by submitting the <u>original</u> Master Plumber's copy of the approved Postcard Permit document at the time of application for hook-up of the replacement or remodeled structure. Credit obtained under this provision may only be used toward the remodeling of the existing structure or the redevelopment of a property from which the original fixtures were removed.

#### EXEMPTIONS

- 4.1 Additional fixtures installed in a structure or building are exempt from the levy of an SDC fee only if inspection of the initial hookup of the building or structure's plumbing to the WSSC's system(s) was approved under a permit issued as a result of an application filed before July 19, 1993, and the change in fixtures does not require an increase in the property's connection(s) or mater size.
- 4.2 The hook-up of a residential unit which is certified by Montgomery or Prince George's County as being a Public Sponsored or Affordable Rousing Doit, as ... defined by Commission Resolution No. 98-1555, shall be exempted from any SDC fee.
- 4:3 The initial hook-up of a residential unit to the Commission's water and/or sewerage system will be exempted from the levy of any SDC fee if the unit existed and was served by a private well and/or septic system on or before July 16, 1993, and the applicable WSSC water or sewer main was in service or its construction was the subject of "Formal Notice To Proceed" (to the WSSC contractor) on or before the same July 16, 1993.

REFUNDS 3**3(3)** 

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5.1 In the event a permit to install plumbing fixtures expires or is canceled pursuant to provisions of Section 206.2 of the Plumbing and Gasfitting Regulations, all SDC fees paid in association with the application for plumbing permit to hook-up may be refunded, provided Code Enforcement Section's inspection records confirm that no work covered by the permit has been accomplished. Such refunds will be made to the original SDC payer at the time of application.

5.2 SDC payments for fixtures represented on an application, but not installed, may be refunded to the original payer provided a written request for refund is filed with the Service Applications & Records Section <u>prior</u> to a request for final inspection. Upon confirmation by the Code Enforcement Section that the, fixtures or related rough-in work referenced in the written request have not been installed, the fixtures will be deleted from the parmit database. Yecord and SDC refund action will be initiated.

5.3 The reimbursement of SDC payments to comply with credit requirements set forth in Article 29, §6-113.(e) of the <u>Annotated Code of Marvland</u> shall be connected use [Rev21331]

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accomplished as specified by WSSC Standard Procedure CUS 94-D3, entitled SDC CREDITS AND REIMEDREMENT,

5.4 A request for full or partial refund of previously remitted 9DC which has been denied may be appealed under provisions of Article 29, §6-111 of the <u>Appotated Code of Maryland</u>.

#### AUTHORITY CLAUSE

The General Counsel certifies that the statutory authority for adoption of this Standard. Procedure is Article 29, 35 6-113 and 9-101 of the <u>Annotated Code of</u> <u>Maryland</u>.

#### Distribution List

#### MASTER VOLUME LIST:

General Manager's Office Internal Audit Office Sepretary's Office Human Resources Division

#### Other Distribution:

Commissioner's Office Administration Branch Operations Branch General Counsel's Office Budget and Financial Planning Office Construction Bureau. Customer Affairs Bureau. Finance Bureau. Customer Services Division Financial Operations Division Regulatory Compliance Division Code Enforcement Section General Accounting Section Service Applications & Records Section

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APPENDIX "A"

FINANCIAL GUARANTY BOND

Plumbing	Permit	Number	
Bond Num	per		
Date Bon	Execut	ted	

KNOW ALL MEN BY THESE PRESENTS:

(here insert the address of the Applicant) as Principal, hereinafter called "Applicant", and

(here insert the legal name of the Surety)

(here insert the address of the Surety)

as Surety, hereinafter called "Surety", are held and firmly bound unto the WASHINGTON SUBURBAN SANITARY COMMISSION, Laurel, Maryland, a public and governmental corporate agency of the State of Maryland, as Obligee, hereinafter called the "Commission", in

the amount of

______ dollars (\$______), being 50 percent of the System Development Charge of the herein-mentioned application, for the payment whereof Applicant and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

WHEREAS, the Applicant has applied for a plumbing permit to install fixtures or hookup a residential property to the Commission's water and/or sewerage system(s) under Plumbing Permit No. ______ and has promised to pay the full system development charge within 12

months of the date of the application or prior to the transfer of title to the property, whichever occurs first.

NOW, THEREFORE, the condition of this obligation is such that if the Applicant shall promptly and faithfully pay the system development charge in a timely manner, then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Commission.

Whenever Applicant shall be, and declared by Commission to be, in default in payment of the system development charge, the Commission having performed Commission's obligations thereunder, the Surety shall promptly pay the amount owed by the Applicant to the Commission.

Any suit under this bond must be instituted before the expiration of eighteen (18) months from the date payment is due. No right of action shall accrue on this bond to or for the use of any person or corporation other than the Commission or its successors and assigns.

The bond is executed in two (2) counterparts, each of which. shall, without proof or accounting for the other counterpart, be deemed an original thereof.

		2.5C
Signed a	and sealed this	day of/
·		
ATTEST:	6	Applicant Name
	By:	3
	11	(Title)
		(Surety Name)
	ВУ: _	(Title)
to be executed officials, th: shall be deem following is a joint venture.	d, or caused to be is performance bond ed an original on t applicable if appli .)	rties hereto have executed, or caused executed by their duly authorized i in () copies each of which the date first above written. (The leant is corporation or incorporated
A Corpor	ation	
By:	(Title)	Date:
	Title)	8
Attest:	Secretary of	Corporation
Certifica	ate as to Corporati	ion (Corporate Seal)
I, Secretary of t	he Corporation nam	, certify that I am ed as Applicant herein, that
		who signed this e Applicant was then
Bond was duly	signed and sealed : ts governing body,	of said nature thereto is genuine; that the in behalf of said Corporation by and is within the scope of its .
<u>n</u>		$\Theta_{n}^{(2)} = \frac{1}{2}$
Secretar	y of Corporation	and the second se
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(The following is applicable if Applicant is individual, partnership or unincorporated joint venture.)

Signed and Sealed in the full names of all partners and all members of Joint Ventures.

(Seal)

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(Seal)

(Print) Name (Signature) Address (Print) Name (Signature)

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Address

(Print) Name (Signature)

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(Print) Name (Signature)

Address

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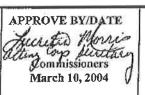
## APPENDIX B PAGE 1 OF 10

# STANDARD PROCEDURES OF THE WASHINGTON SUBURBAN SANITARY COMMISSION

**ORIGINATOR & POSITION** 

Richard Shagogue, Team Chief Engineering & Construction Team ENG 04-01 Supercedes CUS 94-03

SP NUMBER



EFFECTIVE DATE PAGE 1 OF 8 March 24, 2004

## SUBJECT:

SDC APPLICANT CREDITS AND REIMBURSEMENTS

# PURPOSE

- 1.0 Define procedures for the issuance of a System Development Charge (SDC) Credit earned through private design and construction to serve the Applicant's property. These procedures pertain only to either an approved Capital Improvement Program (CIP) Project or a project that provides only local service, is 2,000 feet or less in length, is either a sewer main 15 inches or greater in diameter, or water main 16 inches or greater in diameter and is built to avoid unnecessary and uneconomical duplication when a major project is constructed.
- 1.1 Describe how the SDC Credit due an Applicant will be determined.
- 1.2 Describe when SDC credit and reimbursement will occur.

# DEFINITIONS

- 2.0 <u>Systems Development Charge (SDC)</u> A fee paid to the WSSC at the time of application for a plumbing permit intended to cover the cost of building CIP Projects needed to accommodate growth.
- 2.1 <u>Applicant</u> Any firm, corporation, partnership, joint venture, municipality, agency, person or persons whom WSSC has authorized to design and construct a Qualified Project eligible for SDC credit or whom WSSC has required to provide eligible private funding of the Commission's costs to design and construct such a Project.
- 2.2 System Extension Permit (SEP) A permit/agreement made between the WSSC and an Applicant pursuant to the "Development Services Process Manual" adopted by the Commission, effective July 1, 2000, and subsequent adopted revisions. <u>A qualified project built under a System Extension Permit issued without a signed accompanying SDC Credit Agreement is not eligible for SDC applicant credits or reimbursement.</u>
- 2.3 <u>Memorandum of Understanding (MOU)</u> An agreement made pursuant to provisions of Standard Procedure # PD-93-06 entitled "Procedure for Developing a Memorandum of

# SP NUMBER ENG 04-01 PAGE 2 OF 8

## WSSC STANDARD PROCEDURES

Understanding for the Construction of WSSC Systems by Others" between the WSSC and an Applicant which covers the Applicant's design and construction of a CIP Project and which identifies the estimated total Applicant costs eligible for SDC credit and/or reimbursement. <u>A qualified project built without a signed MOU is not eligible for SDC applicant credits or reimbursement.</u>

- 2.4 Qualified Project Any CIP facility, CIP line, sewer main 15 inches or greater, or water main 16 inches or greater in diameter necessary to serve the Applicant's property, which is designed and constructed by and at the sole expense of an Applicant pursuant to an MOU or SEP or other agreement. Also, any CIP project which is constructed by WSSC that the Applicant is required to provide eligible private funding of WSSC design and construction costs.
- 2.5 <u>Qualified Properties</u> The specific properties located within the geographic area which WSSC identifies as served by the Qualified Project, as defined in Section 3.2.
- 2.6 <u>Eligible Private Funding</u> Payment required by and made to WSSC by an Applicant to cover WSSC costs to design and construct a CIP Project needed to accommodate growth.
- 2.7 <u>SDC Credit</u> A dollar value which is credited to an Applicant against SDC payable in connection with Qualified Properties and which equals the total eligible costs as defined in Section 3.6 incurred by the Applicant in the Applicant's design and construction of a Qualified Project or the amount of eligible private funding made by the Applicant to cover WSSC costs to design and construct a Qualified Project. An Applicant who designs a Qualified Project must also construct that Project in order to be eligible to receive SDC Credits.
- 2.8 <u>SDC Credit Agreement</u> An agreement that summarizes the eligible costs considered for SDC Credit (as described in Section3.6). The SDC Credit Agreement is appended to an SEP. The credit agreement is included in the MOU as Attachment A.
- 2.9 <u>SDC Ledger</u> The record of SDC credit authorized for an Applicant and the amount(s) of SDC credit issued or reimbursed to the Applicant for fixtures covered by plumbing permits obtained in the course of developing Qualified Properties associated with a Oualified Project.
- 2.10 <u>Credit Voucher</u> The document (Attachment "B"), executed by the Applicant, which serves as the instrument to obtain SDC credit associated with an application for permit to install plumbing fixtures. Each Credit Voucher may apply only to a single application for plumbing permit and shall:
  - identify the Qualified Project from which credit is derived; and
  - specify the Qualified Property for which the credit is requested; and
  - be signed by the Applicant or its authorized agent, be duly notarized; and
  - show the amount to be credited in lieu of SDC payment
- 2.11 <u>Qualified Project Scope</u> The specific scope of the qualified project. For pipelines built under an SEP, the specific scope will be included with the SDC Credit Agreement, and

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will include pipeline lengths and diameters, valves, vaults and any other appurtenant structures. For facility projects, the specific scope of work will be included with the MOU.

## PROCEDURES

- 3.0 An Applicant shall declare a desire to design and construct a Qualified Project eligible for SDC credit either as an element of its request for a Hydraulic Planning Analysis filed with the Development Services Group or in a written response to the Letter of Findings prepared by the Development Services Group. For projects that were previously authorized, but have not yet been issued an SEP or MOU, the Applicant may request an authorization amendment to allow the Applicant to design and construct a Qualified Project eligible for SDC credit.
- 3.1 The Applicant agrees to pay WSSC all review fees normally due WSSC. Letters of credit are not acceptable in lieu of fees.
- 3.2 When an Applicant has requested that it be permitted to design and construct a CIP Project, the Development Services Group shall prepare a map during its hydraulic planning analysis that identifies the Qualified Properties to be served by the CIP Project which the Applicant has requested to design and construct. SDC Credit will only be issued to properties within the geographic boundaries identified in the map as Qualified Properties. A copy of the prepared map will be sent to the Applicant.
- 3.3 If WSSC either authorizes the Applicant to design and construct a Qualified Project or requires eligible private funding from the Applicant of WSSC's design and construction costs, then the properties identified as served by the Project will receive credit and/or be subject to SDC Payments which may be reimbursed to the Applicant up to the total eligible amount. The Permit Services Unit will establish an Applicant's SDC Ledger following either 1) execution of a MOU or SEP covering Applicant design and construction of the Qualified Project or 2) WSSC receipt of eligible private funding of the Qualified Project from the Applicant. Prior to establishing the Applicant's SDC Ledger, the Permit Services Unit requires a map identifying all Qualified Properties to be served by the Qualified Project from the Development Services Group. <u>Please note that for pipeline jobs, the Applicant will not receive SDC credit or reimbursement unless the SDC credit agreement is signed before the SEP is issued.</u>
- 3.4 The SDC Ledger will reflect the total amount of SDC credit/reimbursement that the Applicant is eligible to receive. If the Applicant is designing and constructing the Qualified Project, the Ledger will initially reflect the Applicant's SDC credit based upon the estimated total eligible costs agreed upon in the MOU or SEP. The Applicant's initial Ledger credit amount will be adjusted to reflect the actual total eligible costs for the Qualified Project, as determined by the WSSC's Internal Audit Manager (as discussed in Sections 3.5, 3.6, 3.7, 3.8 and 3.12), after the Qualified Project has been accepted and placed in service by WSSC. If WSSC is designing and constructing a Qualified Project, the Ledger will reflect the total amount of eligible private funding received from the Applicant.

3.5 SDC credits may not exceed 50% of the estimated total eligible project cost (not to

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## WSSC STANDARD PROCEDURES

include contingency for increase in scope items (see Section 3.8)) until such time as final audit is completed and the actual total eligible project cost is determined. Once the actual total eligible project cost is determined, SDC credits are available up to the eligible project cost and quarterly refunds (based upon SDC collected for qualified properties) will commence. Prior to the final audit, the Credit Voucher is the only method of reimbursement to the Applicant.

Following WSSC receipt of eligible private funding, SDC credits against the ledger amount may be granted. However in the SDC credits toward the private funding may not exceed 50% of the total estimated project cost.

3.6 When an Applicant is designing and constructing a Qualified Project, SDC Credit is the total eligible Project cost incurred and paid by the Applicant. The SDC Credit is subject to the general guidelines that (1) eligible costs will be the types of costs that WSSC would have incurred had WSSC designed and constructed the Qualified Project, and (2) the SDC Credit will not exceed the maximum amount mutually agreed upon in the SDC Credit Agreement. Eligible costs must be directly allocable to the Qualified Project. Examples include, but are not limited to

Engineering Costs: design, reprographics, survey (topo), soil borings, As-built drawing preparation, and bonding fees.

Permits Costs: Costs for permits that WSSC would have had to acquire had WSSC built the project.

**WSSC Fees for Pipelines:** Fees for extra WSSC reviews or re-testing will be considered only if non-eligible portions of the job do not require extra reviews or re-testing. Unless mentioned otherwise, fees will be allocated to the Qualified Project based on estimated costs and overall water and sewer project cost for the project number.

WSSC Fees for Facilities: All WSSC direct costs and overhead associated with the qualified project as stated in the MOU.

Construction Costs: Contractors bid price, survey (stake out), Geotech (compaction testing), off-site restoration, and construction management.

Interest Costs: Interest costs for funds used during design and construction, at an average interest rate not to exceed the rate paid by WSSC on short-term construction notes outstanding during the period beginning with the date of WSSC signature on the SEP or MOU agreement and ending when the Qualified Project is substantially complete.

**Off-Property Rights of Way:** Acquisition costs are eligible up to amount appraised by WSSC for purchase of off-Applicant's property right-of-way and construction strips, plus up to 25 percent of the appraised amount for direct costs associated with purchase of off-site rights-of-way and construction strips.

3.7 Examples of costs that are not eligible include, but are not limited to

Area wide planning not directly related to the Qualified Project;

Attomeys fees

## SP NUMBER ENG 04-01 PAGE 5 OF 8

#### WSSC STANDARD PROCEDURES

The WSSC Hydraulic Review Fee

Costs for negotiation of SDC Credit Agreement or MOU;

Bonus payments or acceleration costs paid to the contractor for completion of construction;

Third party inspection costs for facility projects;

Applicant's overhead costs not directly attributable to the Qualified Project;

Costs outside the scope of the Qualified Project;

Permit costs associated with a development rather than the Qualified Project;

Site acquisition costs beyond what WSSC would have paid;

Facilities capital cost of money;

Fines and penalties;

Maintenance Costs;

Maintenance Bond Costs that are beyond both two years after substantial completion and beyond one year after release of service or final acceptance.

Grading of rights of way;

Sediment control for grading;

Clearing and grubbing for public rights-of-way in which the Qualified Project will be installed;

Federal and state income taxes;

Administrative or Management Fees not directly associated with the Qualified Project; and

Personal injury compensation or damages.

- 3.8 The maximum SDC reimbursement shall not exceed 110 percent of the contractor bid price plus other eligible costs.
- 3.9 The SDC Credit Agreement will not provide payment to the Applicant for costs the Applicant did not incur or for costs reimbursed to the Applicant from other sources. The SDC Credit Agreement will not provide any premiums for expedited work.
- 3.10 Prior to SDC Credit Agreement or MOU approval, the WSSC project manager for the project is responsible to have components of the SDC Credit Agreement or MOU

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## WSSC STANDARD PROCEDURES

reviewed by other offices. The Contract Technical Services Unit should review the Applicant's construction costs using a copy of the signed plans. Internal Audit is to review any item that the WSSC project manager proposes which is contrary to items 3.6 or 3.7. Other appropriate WSSC offices should be consulted such as the Land Acquisition Unit for additional land acquisition costs and the Planning Group for planning costs.

- 3.11 For Qualified Projects, the SEP or MOU agreements should indicate that the Maintenance Bond should remain in effect at least two years beyond the date of substantial completion for SEP projects or at least one year beyond the date of final acceptance for MOU projects. The Applicant will submit a written request for audit to WSSC's Internal Audit Manager, after the Qualified Project built by the Applicant has been released for service (pipelines) or finally accepted (facilities). Along with the request, the Applicant must submit an itemized listing of eligible Qualified Project costs, incurred and paid, supporting the total amount of SDC Credit claimed. It should be emphasized that the Applicant should retain all the contracts, invoices and payments for WSSC Internal Audit to inspect and review to determine the SDC credits.
- 3.12 In compliance with Article 29 § 6-113(e)(4), of the Annotated Code of Maryland, WSSC's Internal Audit Manager shall review and approve the costs incurred by the Applicant. The Internal Audit Manager will strive to initiate the audit within 90 days of the Applicant's request, if the request includes the required itemized cost listing. The Internal Audit Report will be the formal document that communicates the final results of the audit to WSSC and the Applicant. When an audit is complete, prior to the final Internal Audit Report, the Internal Audit Manager will issue to the Applicant an unsigned DISCUSSION DRAFT to allow the Applicant an opportunity to discuss with Internal Audit any concerns the Applicant has with the proposed SDC Credit. Subsequently, the Internal Audit Manager will issue to the Applicant its final Report on the SDC Credit to be provided the Applicant.
- SDC credits against an Applicant's SDC Credit balance will be issued by WSSC upon 3.13 receipt of a complete and fully executed Credit Voucher submitted at the time of plumbing permit application. The application must be made in connection with a Qualified Property served by the Qualified Project (being) built by the Applicant. Also, the amount specified in the Credit Voucher shall not exceed the calculated SDC for plumbing fixtures covered by the permit application. Credit Vouchers reflecting and specifying an amount in excess of calculated SDC for the requested permit will not be accepted. The plumbing permit will be issued after verification that a sufficient credit balance remains to cover the Credit Voucher Amount. Insofar as possible, Credit Vouchers will be considered on a "first come-first served" basis. For a plumbing permit application accompanied by a Credit Voucher for which an Applicant's credit balance has been exhausted, the credit voucher and the associated application will be returned to the applicant. WSSC is not responsible for managing or assisting the Applicant in managing the issuance of Credit Vouchers. Managing the issuance of Credit Vouchers is not an eligible cost for reimbursement.

3.14 In the event an issued Plumbing Permit expires or is cancelled by the owner or

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## WSSC STANDARD PROCEDURES

plumber, no SDC reimbursement to the Applicant will be approved for that permit. In such cases, any Credit Voucher will be voided and the credit amount added to the Applicant's outstanding Ledger balance.

- 3.15 In conformance with Section 3.18, SDC payments received in association with applications for plumbing permits for Qualified Properties will be identified as eligible for reimbursement (after the Internal Audit Report has been completed see Section 3.12) to the Applicant who has constructed the Qualified Projects serving those Qualified Properties.
- 3.16 For those situations where more than one Qualified Project serves a Qualified Property, SDC reimbursement payments shall be made in proportional shares to the Applicants who have built or funded the Qualified Projects. A proportional share is calculated based upon a Qualified Project's actual eligible costs or funding expressed as a percentage of the sum of all actual eligible costs and/or funding of Qualified Projects serving the Qualified Property.
- 3.17 At the conclusion of each calendar quarter, the Permit Services Unit will determine the total SDC receipts eligible for reimbursement made for each previously identified Qualified Property. Only those SDC receipts filed in association with plumbing permits under which all covered work has received an approved final inspection are eligible for reimbursement.
- 3.18 Based upon the quarterly reconciliation, the Permit Services Unit will prepare and forward to the Accounting Group a Payment Request to be made to the appropriate Applicant in an amount equal to the sum of qualifying SDC receipts not yet reimbursed, and a memorandum recommending reimbursement of SDC receipts and identifying the maximum amount recoverable. The memorandum shall be accompanied by a statement detailing eligible plumbing permits.
- 3.19 Following review of the recommended reimbursement, the Accounting Group will forward the Payment Request and supporting documentation to the Disbursements Group which will issue payment to the Applicant.
- 3.20 When an Applicant has designed and constructed a Qualified Project, the sum of SDC Credits and Reimbursements pursuant to this procedure will be made only to the maximum determined by the Internal Audit Report and only to the Applicant identified in the MOU or SEP.
- 3.21 The Applicant may issue credit vouchers to multiple builders to facilitate construction of residential or non-residential structures within the Qualified Property and reimbursement of Qualified Project costs. If the Applicant wishes to transfer its right and title to any remaining SDC credit from a Qualified Project, the Applicant shall notify the Permit Services Unit of the requested transfer. Such notification shall be in writing and shall identify the single entity to receive the entire remaining balance of SDC credit from a Qualified Project. The Permit Services Unit will acknowledge the credit transfer and forward the written request for inclusion in the Qualified Project's MOU or SEP as an amendment. Thereafter, all Qualified Property SDC credits or reimbursements will be issued to the last designated entity in the MOU or SEP as amended.
- 3.22 Notwithstanding any other provision of this Procedure, SDC Credit or reimbursements

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## WSSC STANDARD PROCEDURES

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for costs identified in Section 3.3 of this Procedure are limited to SDC transactions for Qualified Properties served by the Qualified Project within a twenty-year period, or until the sum of credits and reimbursements equals the total approved SDC Credit. The twenty-year period will commence for SEP, MOU, or eligible funding projects on the day of release for service. At the conclusion of the twenty-year period, the Permit Services Unit will close the SDC Reimbursement Ledger and will provide written notification of exhaustion or termination of the SDC Credit to the last designated recipient.

#### AUTHORITY

The General Counsel certifies that this Standard Procedure was adopted pursuant to the authority of Sections 6-113 and 9-101 of Article 29 of the Annotated Code of Maryland.

#### **Distribution List:**

#### MASTER VOLUME LIST:

General Manager's Office Internal Audit Office Secretary's Office Human Resources Group

#### **Other Distribution:**

Commissioner's Office Engineering and Construction Team Public Communications Internal Audit Customer Care Team Rate Stabilization and Debt Reduction Team General Counsel's Office **Development Services Group** Project Delivery Group Regulatory Services Group Planning Group Systems Inspection Group Customer Relations Group Permit Services Unit Accounting Group Budget Group **Disbursements** Group

# ATTACHMENT A

# SDC CREDITS ESTIMATE

ESTIMATED AMOUNT

Design			
Permits			
Administration			
Interest			
WSSC's Fees	8		
Construction Costs			

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# TOTAL ESTIMATED ELIGIBLE COSTS

# ATTACHMENT B WASHINGTON SUBURBAN SANITARY COMMISSION

# System Development Charge Credit Voucher

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I, hereby affirm under penalty of perju	ary that I am the Developer
or its authorized agent, entitled to an SDC credit pursuant to an a	
Permit or Memorandum of Understanding for	, a Qualified
Project. Pursuant to the current	
(WSSC Contract No. & C.I.P No.)	
WSSC Standard Operating Procedure, I hereby request that \$	be charged against the
remaining eligible SDC credit balance for the specified Qualified I	Project. The above credit
amount shall be applied against SDC due in connection with an applied	cation for plumbing permit
to install fixtures in an improvement on property described as:	
which is a "Qualified Property" se	erved by the above named
"Qualified Project."	
I agree to indemnify and hold harmless the Washington Suburban Sanit this request is presented and its agents and employees, from and ag- losses and expenses, including reasonable attorneys' fees, arising complying with this request.	ainst all claims, damages,
(Developer's Signature)	
Subscribed and sworn to before me this day of	, 20
(Notary Public)	
(Name Printed)	
My Commission Expires	
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## STANDARD PROCEDURES

OF

# THE WASHINGTON SUBURBAN SANITARY COMMISSION

	and the second se	L'AND THE AVERATE A	EFFECTIVE DATE	PAGE 1
ORIGINATOR	E	APPROVED BY/DATE DIT	July 1, 1993	
Water Resources Planning Section	PD 93-01	Cortez A. White General Manager	10TA T' T222	

SUBJECT

PROCEDURE FOR DETERMINING PERCENT GROWTH FOR CIP PROJECTS

#### FURPOSE AND APPLICABILITY I.

The purpose of this procedure is to establish a method for determining what proportion of certain WSSC CIP projects is for growth. This procedure applies after June 30, 1993: 1) to projects which are added to the CIP; and 2) to any revisions of projects already programmed which change the amount of system capacity added by the projects.

# II. PROCEDURE AND METHODOLOGY

The Water Resources Planning Section will determine the percent growth for all applicable CIP Projects using the following methodology.

The method involves the following three steps:

Test for 100% Growth Step 1.

If flows/demands remained at June 1993 levels, would a project still be required?

> No  $\implies$  Growth = 100% Yes -> Continue to Step 2

Test for 0% Growth Step 2.

Does the project improve or replace components of an existing facility without increasing the capacity of any of the components?

> Yes and Growth = 0% No -> Continue to Step 3

Determine Percent Growth Step 3.

Laws

- Identify system capacity added by the project. Identify and subtract June 30, 1993 capacity deficit, if any. 2
- Divide result by total project design capacity. 3.

APPENDIX C PAGE 2 OF 3

WSSC STANDARD PROCEDURES

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Notes:

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- 1. For most water and wastewater facilities, there is a straight-forward relationship between demand, capacity requirements, and facility size. For water transmission mains, however, the relationship is more complicated. There are many factors other than size which must be considered to determine capacity. These factors include length, the size and number of interconnections and the allowable energy differential between the points connected by the transmission system. Capacity analysis of a transmission network normally requires computer modeling. Previous water system analyses will be used to the extent they are applicable: however, where no previous analysis exists, computer modeling will be required.
- 2. If an existing facility with available system capacity is being replaced by a new project which increases total system capacity, the available capacity in the existing facility is lost or wasted. In such cases, existing available capacity will be treated as a negative deficit in Step 3, part 2.

Examples:

10/11 1-1-000

- An existing sewer has a safe capacity of 20 mgd. The June 30, 1993 peak flow is 17 mgd. A proposed parallel sewer will add 10 mgd of capacity for growth. Since the existing sewer can handle the June 30, 1993 flows the project is 100% for growth. (Step 1)
- 2. An existing sever has a safe capacity of 20 mgd; its maximum capacity before overflow is 27 mgd. The June 30, 1993 peak flow is 21 mgd. A proposed parallel sever will add 10 mgd of capacity for growth. Since the existing sever can handle the June 30, 1993 flows, the project is 100% for growth. (Step 1)
- 3. An existing pumping station has 1 mgd of capacity. The June 30, 1993 flow is 0.8 mgd. A proposed replacement pumping station will have a total capacity of 1.5 mgd. The existing pumping station is old, and a rehab project would be needed if the new pumping station were not built. Therefore, the station is not 100% for growth. (Step 1) It adds capacity, so it is not 0% growth. (Step 2) The percent for growth is calculated as follows: 0.5 mgd [the capacity added by the new pumping station] plus 0.2 mgd [the amount of lost available capacity] divided by 1.5 mgd [the total capacity of the new pumping station] = 47%. (Step 3)

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WSSC STANDARD PROCEDURES

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4. An existing pumping station in good condition has 1 mgd of capacity. The June 30, 1993 flow is 0.8 mgd. A proposed replacement pumping station, located downstream to increase the service area, will have a total capacity of 1.5 mgd. The proposed pumping station is 100% for growth. (Step 1)

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A pressure zone has a 1 mg storage deficit based on June 30, 1993 demands. When we finally get agreement to build a 3 mg tank in the zone, the deficit has risen to 2 mg. The tank is 66.7% for growth. [3 mg added - 1 mg deficit]/3 mg total capacity = 67.7%. (Step 3)

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	TOTAL	FY	FY	TOTAL	FY	FY	FY	FY	FY	FY	BEYOND
PROGRAM NAME	COST	2014	2015	6 YEARS	2016	2017	2018	2019	2020	2021	6 YEARS
MONTGOMERY COUNTY WATER PROJECTS											
Total Project Costs *	\$17,704	\$5,700	\$3,410	\$8,594	\$3,312	\$1,350	\$2,819	\$1,113	\$0	\$0	\$0
SDC Eligible Costs	\$17,704	\$5,700	\$3,410	\$8,594	\$3,312	\$1,350	\$2,819	\$1,113	\$0	\$0	\$0
BI-COUNTY WATER PROJECTS											
Total Project Costs *	\$149,934	\$133,789	\$13,599	\$2,546	\$2,248	\$225	\$25	\$20	\$18	\$10	\$0
SDC Eligible Costs	\$144,965	\$133,089	\$10,168	\$1,708	\$1,708	\$0	\$0	\$0	\$0	\$0	\$0
PRINCE GEORGE'S COUNTY WATER PROJECTS											
Total Project Costs *	\$221,968	\$22,875	\$23,285	\$175,507	\$39,399	\$47,695	\$44,114	\$27,591	\$11,104	\$5,604	\$301
SDC Eligible Costs	\$181,960	\$16,773	\$16,779	\$148,107	\$29,502	\$41,415	\$37,738	\$22,744	\$11,104	\$5,604	\$301
TOTAL WATER PROJECT COSTS	\$389,606	\$162,364	\$40,294	\$186,647	\$44,959	\$49,270	\$46,958	\$28,724	\$11,122	\$5,614	\$301
TOTAL WATER SDC ELIGIBLE COSTS	\$344,629	\$155,562	\$30,357	\$158,409	\$34,522	\$42,765	\$40,557	\$23,857	\$11,104	\$5,604	\$301
MONTGOMERY COUNTY SEWERAGE PROJECTS											
Total Project Costs *	\$58,695	\$30,386	\$8,821	\$19,488	\$9,421	\$7,410	\$2,611	\$46	\$0	\$0	\$0
SDC Eligible Costs	\$58,695	\$30,386	\$8,821	\$19,488	\$9,421	\$7,410	\$2,611	\$46	\$0	\$0	\$0
BI-COUNTY SEWERAGE PROJECTS											
Total Project Costs *	\$424	\$0	\$300	\$124	\$112	\$12	\$0	\$0	\$0	\$0	\$0
SDC Eligible Costs	\$356	\$0	\$249	\$107	\$95	\$12	\$0	\$0	\$0	\$0	\$0
PRINCE GEORGE'S COUNTY SEWERAGE PROJECTS											
Total Project Costs *	\$187,283	\$22,705	\$54,068	\$109,992	\$64,189	\$36,674	\$8,172	\$697	\$130	\$130	\$518
SDC Eligible Costs	\$157,466	\$19,222	\$45,411	\$92,315	\$53,782	\$30,745	\$6,905	\$623	\$130	\$130	\$518
TOTAL SEWERAGE PROJECT COSTS	\$246,402	\$53,091	\$63,189	\$129,604	\$73,722	\$44,096	\$10,783	\$743	\$130	\$130	\$518
TOTAL SEWERAGE SDC ELIGIBLE COSTS	\$216,517	\$49,608	\$54,481	\$111,910	\$63,298	\$38,167	\$9,516	\$669	\$130	\$130	\$518
TOTAL PROJECT COSTS	\$636,008	\$215,455	\$103,483	\$316,251	\$118,681	\$93,366	\$57,741	\$29,467	\$11,252	\$5,744	\$819
TOTAL SDC ELIGIBLE COSTS	\$561,146	\$205,170	\$84,838	\$270,319	\$97,820	\$80,932	\$50,073	\$24,526	\$11,234	\$5,734	\$819

* Total Project Costs – This is the total cost for all projects needed to support growth. SDC Eligible Costs – That portion of Total Project Costs specifically for growth. (i.e. if a project supports 50% Growth and 50% System Improvements, SDC Eligible Costs refer only to the 50% Growth portion).

project <u>Number</u>	PROJECT NAME	TOTAL <u>COST</u>	FY <u>2014</u>	FY <u>2015</u>	TOTAL <u>6 YEARS</u>	FY <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>		BEYOND <u>6 YEARS</u>
	WATER PROJECTS											
<u>BI-COUN</u> W-127.01	I <u>Y PROJECTS</u> BI-COUNTY WATER TUNNEL TOTAL GROWTH COSTS	\$144,258 143,558	\$133,789 133,089	\$9,346 9,346	\$1,123 1,123	\$1,123 1,123	\$0 0	\$0 0	\$0 0	\$0 0	\$0 0	\$0 0
W-202.00	LAND & RIGHTS-OF-WAY ACQUISITION - BI-COUNTY	5,676	0	4,253	1,423	1,125	225	25	20	18	10	0
	TOTAL GROWTH COSTS	1,407	0	822	585	585	0	0	0	0	0	0
	AL BI-COUNTY WATER PROJECTS AL BI-COUNTY SDC ELIGIBLE COSTS		\$133,789 \$133,089	\$13,599 \$10,168	\$2,546 \$1,708	\$2,248 \$1,708	\$225 \$0	\$25 \$0	\$20 \$0	\$18 \$0	\$10 \$0	\$0 \$0
<u>MONTGO</u> W-46.14	MERY COUNTY PROJECTS CLARKSBURG AREA STAGE 3 WATER MAIN, PARTS 1, 2, & 3 TOTAL GROWTH COSTS	\$5,900 5,900	\$2,832 2,832	\$805 805	\$2,263 2,263	\$1,751 1,751	\$446 446	\$66 66	\$0 0	\$0 0	\$0 0	\$0 0
W-46.15	CLARKSBURG ELEVATED WATER STORAGE FACILITY	4,836	232	472	4,132	127	222	2,670	1,113	0	0	0
	TOTAL GROWTH COSTS	4,836	232	472	4,132	127	222	2,670	1,113	0	0	0
W-46.18	NEWCUT ROAD WATER MAIN, PART 2	1,555	1,204	213	138	138	0	0	0	0	0	0
	TOTAL GROWTH COSTS	1,555	1,204	213	138	138	0	0	0	0	0	0
W-46.24	CLARKSBURG AREA STAGE 3 WATER MAIN, PART 4	3,789	1,432	495	1,862	1,149	630	83	0	0	0	0
	TOTAL GROWTH COSTS	3,789	1,432	495	1,862	1,149	630	83	0	0	0	0
W-46.25	CLARKSBURG AREA STAGE 3 WATER MAIN, PART 5	1,624	0	1,425	199	147	52	0	0	0	0	0
	TOTAL GROWTH COSTS	1,624	0	1,425	199	147	52	0	0	0	0	0
	AL MONTGOMERY COUNTY WATER PROJECTS	\$17,704	\$5,700	\$3,410	\$8,594	\$3,312	\$1,350	\$2,819	\$1,113	\$0	\$0	\$0
	AL MONTGOMERY COUNTY SDC ELIGIBLE COSTS	\$17,704	\$5,700	\$3,410	\$8,594	\$3,312	\$1,350	\$2,819	\$1,113	\$0	\$0	\$0

PROJECT <u>NUMBER</u>	PROJECT NAME	TOTAL <u>COST</u>	FY <u>2014</u>	FY <u>2015</u>	TOTAL <u>6 YEARS</u>	FY <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>		Beyond <u>6 years</u>
<u>PRINCE G</u> W-34.02	EORGE'S COUNTY PROJECTS OLD BRANCH AVENUE WATER MAIN TOTAL GROWTH COSTS	\$15,218 7,609	\$1,324 662	\$340 170	13,554 6,777	\$268 134	\$3,160 1,580	\$6,592 3,296	\$3,534 1,767	\$0 0	\$0 0	\$0 0
W-34.03	WATER TRANSMISSION IMPROVEMENTS 385B PRESSURE ZONE	34,670	458	440	33,772	440	220	5,528	11,028	11,028	5,528	0
	TOTAL GROWTH COSTS	34,670	458	440	33,772	440	220	5,528	11,028	11,028	5,528	0
W-34.04	BRANCH AVENUE WATER TRANSMISSION IMPROVEMENTS	57,360	1,930	2,530	52,900	12,305	17,365	17,365	5,865	0	0	0
	TOTAL GROWTH COSTS	57,360	1,930	2,530	52,900	12,305	17,365	17,365	5,865	0	0	0
W-62.05	CLINTON ZONE WATER STORAGE FACILITY IMPLEMENTATION TOTAL GROWTH COSTS	12,027 12,027	884 884	440 440	10,703 10,703	275 275	3,630 3,630	5,093 5,093	1,705 1,705	0 0	0 0	0 0
W-65.10	ST. BARNABAS ELEVATED TANK REPLACEMENT	11,284	510	172	10,602	8,682	1,920	0	0	0	0	0
	TOTAL GROWTH COSTS	5,642	255	86	5,301	4,341	960	0	0	0	0	0
W-84.02	RITCHIE MARLBORO ROAD TRANSMISSION MAIN & PRV	12,791	497	770	11,524	440	4,428	4,428	2,228	0	0	0
	TOTAL GROWTH COSTS	12,791	497	770	11,524	440	4,428	4,428	2,228	0	0	0
W-111.05	HILLMEADE ROAD WATER MAIN	5,490	858	12	4,620	2,310	2,310	0	0	0	0	0
	TOTAL GROWTH COSTS	5,490	858	12	4,620	2,310	2,310	0	0	0	0	0
W-119.01	JOHN HANSON HIGHWAY WATER MAIN, PART 1	8,373	1,708	460	6,205	1,493	4,712	0	0	0	0	0
	TOTAL GROWTH COSTS	8,373	1,708	460	6,205	1,493	4,712	0	0	0	0	0
W-123.20	OAK GROVE/LEELAND ROADS WATER MAIN, PART 2	12,828	6,410	2,820	3,598	2,322	1,276	0	0	0	0	0
	TOTAL GROWTH COSTS	6,414	3,205	1,410	1,799	1,161	638	0	0	0	0	0
W-129.12	CHURCH ROAD WATER MAIN, PART 2	827	188	445	194	194	0	0	0	0	0	0
	TOTAL GROWTH COSTS	827	188	445	194	194	0	0	0	0	0	0
W-137.02	SOUTH POTOMAC SUPPLY IMPROVEMENT	25,606	1,513	5,335	18,758	6,304	6,294	3,080	3,080	0	0	0
	TOTAL GROWTH COSTS	12,626	1,513	4,730	6,383	3,191	3,192	0	0	0	0	0

Project <u>Number</u>	PROJECT NAME	TOTAL <u>COST</u>		FY <u>2015</u>	TOTAL <u>6 YEARS</u>	FY <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	BEYOND <u>6 YEARS</u>
<u>PRINCE 0</u> W-147.00	SEORGE'S COUNTY PROJECTS (CONTINUED) COLLINGTON ELEVATED WATER STORAGE FACILITY TOTAL GROWTH COSTS	\$14,726 7,363	\$3,960 1,980	\$8,470 4,235	\$2,296 1,148	\$2,296 1,148	\$0 0	\$0 0	\$0 0	\$0 0	\$0 0	\$0 0
W-197.00	DSP & CONCEPTUAL DESIGN WATER PROJECTS	10,768	2,635	1,051	6,781	2,070	2,380	2,028	151	76	76	301
	TOTAL GROWTH COSTS	10,768	2,635	1,051	6,781	2,070	2,380	2,028	151	76	76	301
	AL PRINCE GEORGE'S COUNTY WATER PROJECTS	\$221,968	\$22,875	\$23,285	\$175,507	\$39,399	\$47,695	\$44,114	\$27,591	\$11,104	\$5,604	\$301
	AL PRINCE GEORGE'S COUNTY SDC ELIGIBLE COSTS	\$181,960	\$16,773	\$16,779	\$148,107	\$29,502	\$41,415	\$37,738	\$22,744	\$11,104	\$5,604	\$301
	ATER PROJECTS COSTS ATER SDC ELIGIBLE COSTS		\$162,364 \$155,562	\$40,294 \$30,357	186,647 158,409	\$44,959 \$34,522	\$49,270 \$42,765	\$46,958 \$40,557	\$28,724 \$23,857	\$11,122 \$11,104	\$5,614 \$5,604	\$301 \$301
BI-COUN	SEWERAGE PROJECTS											
S-203.00	LAND & RIGHTS-OF-WAY ACQUISITION - BI-COUNTY	\$424	\$0	\$300	\$124	\$112	\$12	\$0	\$0	\$0	\$0	\$0
	TOTAL GROWTH COSTS	356	0	249	107	95	12	0	0	0	0	0
	AL BI-COUNTY SEWERAGE PROJECTS	\$424	\$0	\$300	\$124	\$112	\$12	\$0	\$0	\$0	\$0	\$0
	AL BI-COUNTY SDC ELIGIBLE COSTS	\$356	\$0	\$249	\$107	\$95	\$12	\$0	\$0	\$0	\$0	\$0
<u>MONTGO</u> S-25.03	MERY COUNTY PROJECTS TWINBROOK COMMONS SEWER TOTAL GROWTH COSTS	\$1,004 1,004	\$607 607	\$59 59	\$338 338	\$159 159	\$87 87	\$46 46	\$46 46	\$0 0	\$0 0	\$0 0
S-25.04	MID-PIKE PLAZA SEWER MAIN, PHASE 1	3,874	3,693	144	37	37	0	0	0	0	0	0
	TOTAL GROWTH COSTS	3,874	3,693	144	37	37	0	0	0	0	0	0
S-25.05	MID-PIKE PLAZA SEWER MAIN, PHASE 2	6,094	119	1,434	4,541	3,107	1,434	0	0	0	0	0
	TOTAL GROWTH COSTS	6,094	119	1,434	4,541	3,107	1,434	0	0	0	0	0

PROJECT <u>NUMBER</u>	PROJECT NAME	TOTAL <u>COST</u>	FY <u>2014</u>	FY <u>2015</u>	TOTAL <u>6 YEARS</u>	FY <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>		BEYOND <u>6 YEARS</u>
<u>MONTGO</u> S-38.01	MERY COUNTY PROJECTS (CONTINUED) PRESERVE AT ROCK CREEK WASTEWATER PUMPING STATION TOTAL GROWTH COSTS	\$1,967 1,967	\$91 91	\$848 848	\$1,028 1,028	\$680 680	\$348 348	\$0 0	\$0 0	\$0 0	\$0 0	\$0 0
S-38.02	PRESERVE AT ROCK CREEK WWPS FORCE MAIN	\$391	\$108	\$133	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL GROWTH COSTS	391	108	133	150	150	0	0	0	0	0	0
S-53.22	SENECA WWTP EXPANSION, PART 2	28,990	24,604	4,364	22	22	0	0	0	0	0	0
	TOTAL GROWTH COSTS	28,990	24,604	4,364	22	22	0	0	0	0	0	0
S-84.47	CLARKSBURG TRIANGLE OUTFALL SEWER, PART 2	2,539	1,126	782	631	555	76	0	0	0	0	0
	TOTAL GROWTH COSTS	2,539	1,126	782	631	555	76	0	0	0	0	0
S-84.60	CABIN BRANCH WASTEWATER PUMPING STATION	2,342	12	13	2,317	449	1,566	302	0	0	0	0
	TOTAL GROWTH COSTS	2,342	12	13	2,317	449	1,566	302	0	0	0	0
S-84.61	CABIN BRANCH WWPS FORCE MAIN	424	0	17	407	143	240	24	0	0	0	0
	TOTAL GROWTH COSTS	424	0	17	407	143	240	24	0	0	0	0
S-84.65	TAPESTRY WASTEWATER PUMPING STATION	683	7	231	445	223	222	0	0	0	0	0
	TOTAL GROWTH COSTS	683	7	231	445	223	222	0	0	0	0	0
S-84.66	TAPESTRY WWPS FORCE MAIN	134	8	45	81	46	35	0	0	0	0	0
	TOTAL GROWTH COSTS	134	8	45	81	46	35	0	0	0	0	0
S-85.21	SHADY GROVE STATION SEWER AUGMENTATION	2,254	11	305	1,938	1,188	750	0	0	0	0	0
	TOTAL GROWTH COSTS	2,254	11	305	1,938	1,188	750	0	0	0	0	0
S-103.16	CABIN JOHN TRUNK SEWER RELIEF	7,999	0	446	7,553	2,662	2,652	2,239	0	0	0	0
	TOTAL GROWTH COSTS	7,999	0	446	7,553	2,662	2,652	2,239	0	0	0	0
	AL MONTGOMERY COUNTY SEWERAGE PROJECTS	\$58,695	\$30,386	\$8,821	\$19,488	\$9,421	\$7,410	\$2,611	\$46	\$0	\$0	\$0
	AL MONTGOMERY COUNTY SDC ELIGIBLE COSTS	\$58,695	\$30,386	\$8,821	\$19,488	\$9,421	\$7,410	\$2,611	\$46	\$0	\$0	\$0

Project	PROJECT NAME	TOTAL	FY	FY	TOTAL	FY	FY	FY	FY	FY	FY	BEYOND
<u>Number</u>		<u>COST</u>	<u>2014</u>	<u>2015</u>	<u>6 YEARS</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>6 YEARS</u>
<u>PRINCE G</u> S-43.02	EORGE'S COUNTY PROJECTS BROAD CREEK WWPS AUGMENTATION TOTAL GROWTH COSTS	\$175,400 145,583	\$20,488 17,005	\$50,925 42,268	\$103,987 \$86,310	\$61,215 50,808	\$34,879 28,950	\$7,455 6,188	\$438 364	\$0 0	\$0 0	\$0 0
S-187.00	DSP & CONCEPTUAL DESIGN SEWER PROJECTS	11,883	2,217	3,143	6,005	2,974	1,795	717	259	130	130	518
	TOTAL GROWTH COSTS	11,883	2,217	3,143	6,005	2,974	1,795	717	259	130	130	518
	L PRINCE GEORGE'S COUNTY SEWERAGE PROJECTS	\$187,283	\$22,705	\$54,068	\$109,992	\$64,189	\$36,674	\$8,172	\$697	\$130	\$130	\$518
	L PRINCE GEORGE'S COUNTY SDC ELIGIBLE COSTS	\$157,466	\$19,222	\$45,411	\$92,315	\$53,782	\$30,745	\$6,905	\$623	\$130	\$130	\$518
	EWERAGE PROJECTS COSTS	\$246,402	\$53,091	\$63,189	\$129,604	\$73,722	\$44,096	\$10,783	\$743	\$130	\$130	\$518
	EWERAGE SDC ELIGIBLE COSTS	\$216,517	\$49,608	\$54,481	\$111,910	\$63,298	\$38,167	\$9,516	\$669	\$130	\$130	\$518
	ROJECT COSTS DC ELIGIBLE COSTS	\$636,008 \$561,146	+=	\$103,483 \$84,838	316,251 270,319	\$118,681 \$97,820	\$93,366 \$80,932	\$57,741 \$50,073	\$29,467 \$24,526	\$11,252 \$11,234	\$5,744 \$5,734	\$819 \$819