



Capital Project Summary

Capital Project Number: WS1001

PS Project ID:

Capital Project Title: Ballenger-McKinney WWTP Sludge Management

Region: Adamstown, Frederick, New Market, Urbana,...

Asset Category: Water and Sewer

Est Completion Date: 12/30/2021

Asset Type: Capacity

Year Identified: 2010

Capital Project Status: Open

Capital Project Description:

This project was formally known as "McKinney WWTP Phase 1" and includes the design and construction of the first phase (15 MGD) sludge management improvements in accordance with the Ballenger Creek/McKinney WWTP Facility Plan dated March 2006. The City of Frederick's portion is assumed to be 17% of the project cost. Request is based upon estimates provided in the Facility Plan.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	5,511,168						5,188,248	322,920	
Construction WS County Funded	47,702,819							47,702,819	
Overhead - W/S	360,594							360,594	
Project Management & Inspections	1,526,335							1,526,335	
Total Cost:	55,100,916						5,188,248	49,912,668	

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	45,733,007						4,305,600	41,427,407	
Municipal Contribution	9,367,909						882,648	8,485,261	
Total Cost:	55,100,916						5,188,248	49,912,668	



Capital Project Summary

Capital Project Number: WS1006

PS Project ID: 125003

Capital Project Title: Clover Hill III City Interconnect

Region: Frederick

Asset Category: Water and Sewer

Est Completion Date: 9/30/2014

Asset Type: Maintenance

Year Identified: 2010

Capital Project Status: Open

Capital Project Description:

Design and construction of an 8-inch water connection between the City of Frederick system and the Clover Hill III development. Project includes master water meter, vault, and approximately 110 lf of 8-inch DIP waterline. The project will eliminate the need for nitrate removal system and will increase pressure in the vicinity of the existing water storage tank. An agreement is required between the County and City.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	28,980	28,980							
Construction WS County Funded	259,130	122,130	137,000						
Overhead - W/S	7,762	7,762							
Project Management & Inspections	7,763	7,763							
Total Cost:	303,635	166,635	137,000						

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	303,635	166,635	137,000						
Total Cost:	303,635	166,635	137,000						



Capital Project Summary

Capital Project Number: WS1015

PS Project ID: 204076

Capital Project Title: Discovery Sewer System Upgrades

Region: Walkersville

Asset Category: Water and Sewer

Est Completion Date: 12/31/2014

Asset Type: Maintenance

Year Identified: 2013

Capital Project Status: Open

Capital Project Description:

Project involves additional wet well volume for the Discovery Sewage Pump Station and redirecting the station's force main discharge location in order to reduce flows to certain portions of the existing gravity sewer system.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	22,880	22,000	880						
Construction WS County Funded	119,600	115,000	4,600						
Capitalized Interest Expense	7,800	7,500	300						
Overhead - W/S	5,200	5,000	200						
Project Management & Inspections	10,400	10,000	400						
Total Cost:	165,880	159,500	6,380						

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	158,080	152,000	6,080						
Trf from Cash Fund of Cap Proj	7,800	7,500	300						
Total Cost:	165,880	159,500	6,380						



Capital Project Summary

Capital Project Number: WS1017

Capital Project Title: Water Storage Tank Improvements

Asset Category: Water and Sewer

Asset Type: Maintenance

Capital Project Status: Open

PS Project ID:

Region: New Market, Urbana

Est Completion Date: 10/1/2016

Year Identified: 2015

Capital Project Description:

Project includes installation of mixing and/or aeration systems in three existing water storage tanks to assist in removal of potential disinfection byproducts. Tanks are Monrovia, East County, and Urbana Tank No. 1.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	50,000			50,000					
Construction WS County Funded	175,000				175,000				
Overhead - W/S	15,000				15,000				
Project Management & Inspections	36,000				36,000				
Total Cost:	276,000			50,000	226,000				

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	276,000			50,000	226,000				
Total Cost:	276,000			50,000	226,000				



Capital Project Summary

Capital Project Number: WS1020

PS Project ID: 206102

Capital Project Title: Bush Creek Inteceptor -N Market Extension

Region: New Market

Asset Category: Water and Sewer

Est Completion Date: 12/31/2014

Asset Type: Maintenance

Year Identified: 2011

Capital Project Status: Open

Capital Project Description:

Construction of County portion of the Middle Bush Creek Interceptor sewer from the Monrovia WWTP outfall to the New Market WWTP outfall. Project also includes construction of gravity sewer bypass of the two WWTPs named above.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	40,000		40,000						
Construction WS County Funded	625,000	400,000	225,000						
Total Cost:	665,000	400,000	265,000						

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Trf from System Development	665,000	400,000	265,000						
Total Cost:	665,000	400,000	265,000						



Capital Project Summary

Capital Project Number: WS1021

PS Project ID: 105008

Capital Project Title: Ballenger Zone 2 Water Tank

Region: Frederick

Asset Category: Water and Sewer

Est Completion Date: 12/31/2016

Asset Type: Capacity

Year Identified: 2002

Capital Project Status: Open

Capital Project Description:

Design and Construction of a one million gallon elevated (zone 2) water storage tank on a County site located at the end of Fair Oaks Drive. Associated water main from Hannover to the tank site will be constructed in 2014 under project 105009.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Land	30,600	30,600							
Architect/Engineering	224,700	224,700							
Construction WS County Funded	2,473,445	2,173,445	300,000						
Capitalized Interest Expense	20,000	20,000							
Overhead - W/S	72,500	72,500							
Project Management & Inspections	100,000	100,000							
Total Cost:	2,921,245	2,621,245	300,000						

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	2,773,900	2,473,900	300,000						
Trf from Cash Fund of Cap Proj	147,345	147,345							
Total Cost:	2,921,245	2,621,245	300,000						



Capital Project Summary

Capital Project Number: WS1022

PS Project ID: 012044

Capital Project Title: Lake Linganore Dredging

Region: New Market

Asset Category: Water and Sewer

Est Completion Date: 9/30/2015

Asset Type: Maintenance

Year Identified: 2015

Capital Project Status: Open

Capital Project Description:

Project includes Frederick County portion of costs as stipulated in a yet to be created three-party agreement with Frederick City and Lake Linganore Association. Budget assumes County share at 25%.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	167,000		167,000						
Construction WS County Funded	1,665,000			1,665,000					
Total Cost:	1,832,000		167,000	1,665,000					

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	1,832,000		167,000	1,665,000					
Total Cost:	1,832,000		167,000	1,665,000					



Capital Project Summary

Capital Project Number: WS1023

PS Project ID:

Capital Project Title: Monrovia Water Storage Tank 2

Region: New Market

Asset Category: Water and Sewer

Est Completion Date: 6/29/2018

Asset Type: Capacity

Year Identified: 2015

Capital Project Status: Open

Capital Project Description:

Developer Funded project for design and construction of a new 1.0 MG elevated water storage tank located on the Landsdale or Monrovia Town Center site. Memorandum of Understanding between developer(s) and Frederick County is required.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	253,000			253,000					
Construction WS County Funded	2,500,000				2,500,000				
Overhead - W/S	60,000			60,000					
Project Management & Inspections	140,000				140,000				
Total Cost:	2,953,000			313,000	2,640,000				

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Developer Contributions	2,953,000			313,000	2,640,000				
Total Cost:	2,953,000			313,000	2,640,000				



Capital Project Summary

Capital Project Number: WS1024

PS Project ID: 204081

Capital Project Title: Sewer Flow Metering

**Region: Frederick, Urbana,
Walkersville**

Asset Category: Water and Sewer

Est Completion Date: 11/28/2020

Asset Type: Maintenance

Year Identified: 2015

Capital Project Status: Open

Capital Project Description:

Project includes study, design, and installation of six permanent flow metering stations as specified in the Monocacy Sewershed Wastewater Utility Study Phase II (page 18 & Figure 4-1) in support of a long-term flow monitoring program.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	75,000		75,000						
Construction WS County Funded	240,000			240,000					
Overhead - W/S	15,000		15,000						
Project Management & Inspections	40,000			40,000					
Total Cost:	370,000		90,000	280,000					

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	370,000		90,000	280,000					
Total Cost:	370,000		90,000	280,000					



Capital Project Summary

Capital Project Number: WS1025

PS Project ID: 208031

**Capital Project Title: Point of Rocks WWTP Influent PS
MCC Replacement**

Region: Adamstown

Asset Category: Water and Sewer

Est Completion Date: 2/28/2015

Asset Type: Maintenance

Year Identified: 2015

Capital Project Status: Open

Capital Project Description:

Design-Build project to replace the existing Motor Control Center, pump starters, controller, and associated appurtenances at the Influent Pump Station. Original station was constructed in 1975.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Construction WS County Funded	175,000		175,000						
Overhead - W/S	7,500		7,500						
Project Management & Inspections	15,000		15,000						
Total Cost:	197,500		197,500						

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	197,500		197,500						
Total Cost:	197,500		197,500						



Capital Project Summary

Capital Project Number: WS1026

PS Project ID: 206035

Capital Project Title: Wastewater Pump Station 1B

Region: Frederick

Asset Category: Water and Sewer

Est Completion Date: 12/31/2015

Asset Type: Maintenance

Year Identified: 2014

Capital Project Status: Open

Capital Project Description:

Design and construction of a sewage pump station to convey County flows from the City of Frederick WWTP (or WTP) to the conveyance system draining to the Ballenger-McKinney WWTP. Project includes the pump station, chemical feed system for odor control, and grit removal. County project cost portion is 80% and City is 20%.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	759,000		759,000						
Construction WS County Funded	6,900,000		6,900,000						
Overhead - W/S	137,500		137,500						
Project Management & Inspections	464,000		464,000						
Total Cost:	8,260,500		8,260,500						

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	6,608,400		6,608,400						
Municipal Contribution	1,652,100		1,652,100						
Total Cost:	8,260,500		8,260,500						



Capital Project Summary

Capital Project Number: WS1019

Capital Project Title: White Rock WWTP Replacement

Asset Category: Water and Sewer

Asset Type: Maintenance

Capital Project Status: Open

PS Project ID: 210005

Region: Frederick

Est Completion Date: 4/30/2015

Year Identified: 2002

Capital Project Description:

Study, design and construction of WWTP replacement for White Rock. Study will determine replacement, rehabilitation or interceptor to Tuscarora Creek.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	169,800	169,800							
Construction WS County Funded	793,000	793,000							
Overhead - W/S	21,500	21,500							
Project Management & Inspections	35,000	35,000							
Total Cost:	1,019,300	1,019,300							

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	1,019,300	1,019,300							
Total Cost:	1,019,300	1,019,300							



Capital Project Summary

Capital Project Number: WS1002

PS Project ID:

Capital Project Title: Broadview Acres

Region:

Asset Category: Water and Sewer

Est Completion Date:

Asset Type: Capacity

Year Identified: 2010

Capital Project Status: Open

Capital Project Description:

Design (and construct in outyears) approximately 3,700 feet of gravity sewer lines to serve 52 existing dwellings that could be experiencing septic problems. A sanitary survey, performed by the Health Department, is necessary before beginning this project.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Land	56,554								56,554
Architect/Engineering	101,170								101,170
Construction	548,608								548,608
Overhead - W/S	26,662								26,662
Project Management & Inspections	26,912								26,912
Total Cost:	759,906								759,906

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	759,906								759,906
Total Cost:	759,906								759,906



Capital Project Summary

Capital Project Number: WS1012

PS Project ID:

Capital Project Title: Linganore Interceptor 1 - Lower Reach

Region:

Asset Category: Water and Sewer

Est Completion Date:

Asset Type: Capacity

Year Identified: 2010

Capital Project Status: Open

Capital Project Description:

Existing pipe unable to meet projected build out peak flows without surcharging. Replacement eliminates pipe segments with sags, reverse slopes, and I&I. Projected need between year 2015 and 2025. Information is pursuant to the March 2004 Interceptor Sewer Capacity Analysis prepared by Whitman, Requardt and Associates.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	210,898								210,898
Construction WS County Funded	1,143,783								1,143,783
Overhead - W/S	37,013								37,013
Project Management & Inspections	37,011								37,011
Total Cost:	1,428,705								1,428,705

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	618,391								618,391
Developer Contributions	810,314								810,314
Total Cost:	1,428,705								1,428,705



Capital Project Summary

Capital Project Number: WS1013

PS Project ID:

Capital Project Title: Linganore Interceptor 2 - Upper Reach

Region:

Asset Category: Water and Sewer

Est Completion Date:

Asset Type: Capacity

Year Identified: 2010

Capital Project Status: Open

Capital Project Description:

Interceptor is unable to meet 2025 flows without surcharging. Replacement eliminates existing sewers with reverse slopes and sags, with the new pipe sized for build out flows. Information is pursuant to the March 2004 Interceptor Sewer Capacity Analysis prepared by Whitman, Requardt and Associates.

Cash Requirement Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Architect/Engineering	143,872								143,872
Construction WS County Funded	759,587								759,587
Overhead - W/S	41,792								41,792
Project Management & Inspections	39,396								39,396
Total Cost:	984,647								984,647

Funding Schedule:

Categories	Project Total	Prior Budget	2015	2016	2017	2018	2019	2020	Costs After
Enterprise Fund Bonds	304,911								304,911
Developer Contributions	679,736								679,736
Total Cost:	984,647								984,647