

**PUBLIC UTILITIES
FULLY FUNDED PROJECTS
Capital Improvement Program FY 2012 - FY 2016**

Project Number	Project Name	Total Funds Appropriated	Project Completion Date	Annual Operating Cost
24-13	Asset Management System <i>Establish an asset management system for compliance for the regional consent order and internal auditors.</i>	\$850,000	Dec 2012	\$0
40-12	Basin Cover Replacement, Northwest River WTP <i>Replace original settling basin and media filter protective covers at the Northwest River Water Treatment Plant.</i>	495,000	Dec 2012	0
22-13	Cascade Park & Westgate Phase II <i>Replaces approximately 2000 linear feet of 8 inch gravity sewer and appurtenances on Quail Ave., Partridge Ave., and Kennedy St. to Cascade Blvd.</i>	825,226	Feb 2011	0
02-09	Chesapeake & Albemarle Canal Waterline Relocation <i>As required by the United States Army Corps of Engineers dredging project anticipated to commence the summer of 2004. Easement requires relocation of the waterline at the City's expense.</i>	2,700,000	Aug 2011	0
34-12	Customer Service and Billing Software System <i>Replacement of Customer Service and Billing Software system.</i>	4,500,000	Apr 2012	0
06-10	Force Main Upgrade - Greenbrier Pkwy. <i>Allows flows from Greenbrier pump stations to operate in a loop type system.</i>	302,000	Sep 2011	2,100
36-12	Hanbury Road 12" Water Main <i>Install approximately 920' of 12" water main from Millwood Avenue to Great Bridge Intermediate School.</i>	282,000	Sep 2011	700
29-05	Joliff Road Waterline Phase II <i>This 12 inch and 16 inch water main will improve system hydraulics and fire flow in this area of Western Branch.</i>	653,800	Ongoing	0
31-10	Lake Gaston H ₂ O Protection <i>To allow for purchases of land in the North Landing Watershed.</i>	891,529	Continuous	0
18-89	Lake Gaston Phase VI <i>Lake Gaston Water Treatment Plant refinement and completion.</i>	1,464,306	Continuous	0
38-12	Military Hwy. - 36" Water Main <i>Install approximately 4,200 feet of 36" water main from Enterprise Circle at the terminus of the Lake Gaston 36" water main to Galberry Road.</i>	2,627,000	Jul 2012	3,100
40-13	Murray Drive Whittamore Road Water Project <i>Provide design services and construction for water for neighborhoods in the vicinity of the Battlefield Golf Club.</i>	6,000,000	Feb 2011	17,850
19-13	Northwest River Miscellaneous Modifications <i>Engineering study to identify, prioritize, and perform a variety of improvements to the Northwest River Water Treatment Plant.</i>	3,932,840	Dec 2012	0
48-12	Northwest River Potable Pump Modifications <i>Replace potable water pump drives and motors at the Northwest River Water Treatment Plant.</i>	1,043,000	Dec 2010	0

FULLY FUNDED PROJECTS
Capital Improvement Program FY 2012 - FY 2016

Project Number	Project Name	Total Funds Appropriated	Project Completion Date	Annual Operating Cost
35-12	Northwest River WTP Storm Hardening <i>To provide additional storm protection for critical areas of the Northwest River Water Treatment Plant.</i>	125,000	Dec 2012	0
44-12	Portsmouth Area Expansion <i>Install new water mains and replace substandard water mains and appurtenances at various locations in Deep Creek.</i>	4,600,000	Apr 2011	1,500
29-12	Sewer and Water Renewal Anne Avenue <i>Replace gravity sewer on Anne Avenue between Bainbridge and Southpost.</i>	1,341,576	May 2011	0
07-10	Sewer Renewal - Gregg Street Alleyway <i>Replace approx. 1,830 linear feet of 8" and 10" gravity sewer main and appurtenances in the alleyway between Gregg Street and Jones Street all the way to Great Bridge Boulevard.</i>	497,770	May 2011	0
32-12	Sewer Renewal SSES Phase I <i>Renew or replace sanitary sewer identified as part of SSES and identified as critical.</i>	3,736,789	Jan 2012	0
45-12	South Norfolk Improvements <i>Install new water mains and replace substandard water mains and appurtenances at various locations in South Norfolk.</i>	2,700,000	Continuous	0
23-12	Storm Harden Field Operations Building <i>Retrofit and harden the Public Utilities Maintenance and Operations building which serves as the field operations center for Public Utilities personnel during an emergency such as a hurricane.</i>	4,000,000	Jun 2013	0
54-12	30" Raw Water Main <i>Replace existing 30" raw water main serving the Northwest River Water Treatment Plant.</i>	3,075,000	Dec 2012	0
03-06	Surface Water Membrane Replacement 2 <i>To establish and maintain a designated reserve account to fund membrane replacement at the water treatment plant.</i>	2,594,185	Continuous	0
51-12	Unserved Area - Joliff-MooreJaye <i>Support unserved areas throughout the City as announced in the Cost Sharing Program.</i>	2,833,371	Jan 2011	3,500
47-12	Western Branch Interconnect to LGWTP <i>Improve system hydraulics and reliability with the addition of Lake Gaston Water Treatment Plant.</i>	5,133,000	Mar 2011	3,900
Total		\$57,203,392		\$32,650

Note: Some of the above listed projects are completed but have not been formally closed in the financial records.

Capital Project Detail

Project Name Battlefield to Centerville Water Main Phase 1 **Project Number** 21-14

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** New Facility

Project Description Phase I will consist of a 24-inch water main extension, approximately 4,000 feet, starting from the existing 30-inch water main on Battlefield Boulevard at Hanbury Road and continuing along Etheridge Manor Boulevard to Jule Drive.

Purpose and Need This is the first phase of a project that will provide an additional water main loop in this area. The loop will improve system hydraulics, reliability and fire protection in this area of the city.

Project Start Date Jul 2010 **Target Completion Date** Dec 2013

Project Status Existing **Project Rank** 17

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	450,000	0	0	0	0	0	0	0	450,000
Land	0	0	30,000	0	0	0	30,000	0	30,000
Construction	0	0	2,751,885	0	0	0	2,751,885	0	2,751,885
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	410,072	0	0	0	410,072	0	410,072
Total	\$450,000	\$0	\$3,191,957	\$0	\$0	\$0	\$3,191,957	\$0	\$3,641,957

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	3,191,957
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$3,191,957

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	450,000	0	3,191,957	0	0	0	3,191,957	0	3,641,957
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$450,000	\$0	\$3,191,957	\$0	\$0	\$0	\$3,191,957	\$0	\$3,641,957

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Battlefield to Centerville Water Main Phase 2 **Project Number** 22-14

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** New Facility

Project Description Phase II will consist of a 24-inch water main extension, approximately 4,000 feet, starting from the intersection of Jule Drive and Etheridge Manor Boulevard and continuing along Etheridge Manor Boulevard to Centerville Turnpike.

Purpose and Need This is the second phase of a project that will provide an additional water main loop in this area. The loop will improve system hydraulics, reliability and fire protection in this area of the city.

Project Start Date Jul 2009 **Target Completion Date** Jun 2018

Project Status **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	464,000	0	0	0	0	0	0	0	464,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	4,163,664	4,163,664
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$464,000	\$0	\$0	\$0	\$0	\$0	\$0	\$4,163,664	\$4,627,664

Funding Method(s) for Chesapeake Costs

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

_____ **5 Year Total** _____ **\$0**

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	464,000	0	0	0	0	0	0	0	464,000
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$464,000	\$0	\$464,000						

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

- | | | | | | | |
|----|-------|--------------|-------|-------|------|-------|
| 1. | _____ | Cycle Length | _____ | years | Cost | _____ |
| 2. | _____ | Cycle Length | _____ | years | Cost | _____ |

Capital Project Detail

Project Name Bainbridge Boulevard Elevated Storage Tank Renovation **Project Number** 12-16
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Renovation/Rehabilitation
Project Description Painting, cleaning and repairing of water storage tank.
Purpose and Need To extend the life of this water storage tank.
Project Start Date Jul 2015 **Target Completion Date** Jun 2016
Project Status New **Project Rank** 35

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	127,000	127,000	0	127,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	947,997	947,997	0	947,997
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$0	\$0	\$0	\$1,074,997	\$1,074,997	\$0	\$1,074,997

Funding Method(s) for Chesapeake Costs

1.	Utilities- Fund Balance	1,074,997
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$1,074,997

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	0	0	0	0	1,074,997	1,074,997	0	1,074,997
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$0	\$0	\$0	\$1,074,997	\$1,074,997	\$0	\$1,074,997

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Total Costs	Revenue Generated	Net Impact	Positions Needed	
						Full Time	Part Time
FY 2012	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 20 _____ years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Centerville Turnpike Loop 3 **Project Number** 43-12
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Addition/Expansion
Project Description Install approximately 7,700 feet of 16" water main from Mt. Pleasant Rd. to Elbow Road.
Purpose and Need This project that will provide an additional water main loop in this area. The loop will improve system hydraulics, reliability and fire protection in this area of the city.
Project Start Date Sep 2013 **Target Completion Date** Dec 2014
Project Status **Project Rank** 25

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	913,135	0	0	913,135	0	913,135
Land		0	0	0	0	0	0	0	0
Construction		0	0	1,801,412	0	0	1,801,412	0	1,801,412
Equipment		0	0	0	0	0	0	0	0
Other		0	0	372,202	0	0	372,202	0	372,202
Total		\$0	\$0	\$3,086,749	\$0	\$0	\$3,086,749	\$0	\$3,086,749

Funding Method(s) for Chesapeake Costs

1.	Borrowing Authority-Revenue Supported (future bonds)	3,086,749
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$3,086,749

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	3,086,749	0	0	3,086,749	0	3,086,749
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$3,086,749	\$0	\$0	\$3,086,749	\$0	\$3,086,749

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Conduct Sanitary Sewer Evaluation **Project Number** 27-12
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description To conduct sanitary sewer evaluation study.
Purpose and Need To conduct study and associated activities as required by proposed consent order from DEQ.
Project Start Date Jul 2007 **Target Completion Date** Jan 2014
Project Status Existing **Project Rank** 1

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	7,060,049	0	0	0	0	0	0	0	7,060,049
Land	0	0	0	0	0	0	0	0	0
Construction	655,371	0	0	0	0	0	0	0	655,371
Equipment	0	0	0	0	0	0	0	0	0
Other	700,000	200,000	200,000	500,000	0	0	900,000	0	1,600,000
Total	\$8,415,420	\$200,000	\$200,000	\$500,000	\$0	\$0	\$900,000	\$0	\$9,315,420

Funding Method(s) for Chesapeake Costs

1.	Borrowing Authority-Revenue Supported (future bonds)	900,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$900,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	8,415,420	200,000	200,000	500,000	0	0	900,000	0	9,315,420
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$8,415,420	\$200,000	\$200,000	\$500,000	\$0	\$0	\$900,000	\$0	\$9,315,420

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Deep Creek Pump Station Upgrade **Project Number** 20-14
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Renovation/Rehabilitation
Project Description Install New Pumps, Upgrade Telemetry, Controls and Equipment.
Purpose and Need The Deep Creek Pump Station was placed in service in 1987. Equipment upgrades and replacements are required to provide optimum reliability.
Project Start Date Jun 2011 **Target Completion Date** Dec 2014
Project Status Existing **Project Rank** 27

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	232,127	0	0	0	0	0	0	0	232,127
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	1,110,836	0	0	1,110,836	0	1,110,836
Equipment	0	0	0	767,287	0	0	767,287	0	767,287
Other	0	0	0	0	0	0	0	0	0
Total	\$232,127	\$0	\$0	\$1,878,123	\$0	\$0	\$1,878,123	\$0	\$2,110,250

Funding Method(s) for Chesapeake Costs

1.	Utilities- Fund Balance	1,878,123
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$1,878,123

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	232,127	0	0	1,878,123	0	0	1,878,123	0	2,110,250
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$232,127	\$0	\$0	\$1,878,123	\$0	\$0	\$1,878,123	\$0	\$2,110,250

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 25 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Generator Replacement Program **Project Number** 25-13
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description Replace generators that have reached the end of their useful life.
Purpose and Need Assure that sewer pump stations continue to meet Class I reliability requirements.
Project Start Date Jul 2008 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 15

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment	225,000	75,000	75,000	0	0	0	150,000	0	375,000
Other		0	0	0	0	0	0	0	0
Total	\$225,000	\$75,000	\$75,000	\$0	\$0	\$0	\$150,000	\$0	\$375,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	150,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$150,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	225,000	75,000	75,000	0	0	0	150,000	0	375,000
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total	\$225,000	\$75,000	\$75,000	\$0	\$0	\$0	\$150,000	\$0	\$375,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 20 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Generator Replacement Program, Phase II **Project Number** 25-14
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description Replace generators that have reached the end of their useful life.
Purpose and Need Assure that sewer pump stations continue to meet Class I reliability requirements.
Project Start Date Jul 2013 **Target Completion Date** Jan 2016
Project Status **Project Rank** 33

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment		0	0	0	75,000	75,000	75,000	225,000	375,000
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$75,000	\$75,000	\$75,000	\$225,000	\$375,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	225,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$225,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	75,000	75,000	75,000	225,000	225,000
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$75,000	\$75,000	\$75,000	\$225,000	\$225,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 20 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Great Bridge Boulevard Water Main Phase 1 **Project Number** 23-14

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Addition/Expansion

Project Description Approximately 10,050 linear feet of 20" water main from Bainbridge Boulevard to River Walk Parkway.

Purpose and Need This is the first phase of a project that will provide an additional water main loop in this area. The loop will improve system hydraulics and fire flow in this area.

Project Start Date Jul 2014 **Target Completion Date** Jan 2017

Project Status Existing **Project Rank** 29

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	0	555,000	250,000	805,000	0	805,000
Land		0	0	0	0	0	0	0	0	0
Construction		0	0	0	0	1,250,000	1,650,000	2,900,000	2,000,000	4,900,000
Equipment		0	0	0	0	0	0	0	0	0
Other		0	0	0	0	195,000	100,000	295,000	0	295,000
Total		\$0	\$0	\$0	\$0	\$2,000,000	\$2,000,000	\$4,000,000	\$2,000,000	\$6,000,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|---------------------------------------|--------------------------|
| 1. | Borrowing Authority-Revenue Supported | (future bonds) 4,000,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$4,000,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	0	0	0	2,000,000	2,000,000	4,000,000	0	4,000,000
State		0	0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$0	\$2,000,000	\$2,000,000	\$4,000,000	\$0	\$4,000,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Laboratory Equipment Replacement, Phase I **Project Number** 50-12
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description Establish and maintain a designated reserve account to fund replacement of analytical laboratory equipment at the Northwest River Water Treatment Plant.
Purpose and Need Sophisticated laboratory equipment periodically requires replacement to insure reliable test results and to maintain rigorous laboratory certification standards.
Project Start Date Jul 2011 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 7

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	113,852	100,000	0	0	0	0	100,000	0	213,852
Other	0	0	0	0	0	0	0	0	0
Total	\$113,852	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$0	\$213,852

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	100,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$100,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	113,852	100,000	0	0	0	0	100,000	0	213,852
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$113,852	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$0	\$213,852

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service various years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Laboratory Equipment Replacement, Phase II **Project Number** 18-14
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description Establish and maintain a designated reserve account to fund replacement of analytical laboratory equipment at the Northwest River Water Treatment Plant.
Purpose and Need Sophisticated laboratory equipment periodically requires replacement to insure reliable test results and to maintain rigorous laboratory certification standards.
Project Start Date Jul 2013 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 28

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment		0	0	100,000	0	100,000	200,000	100,000	300,000
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$200,000	\$300,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	200,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$200,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	100,000	0	100,000	200,000	0	200,000
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$0	\$200,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 7 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Lake Gaston WTP Membrane Replacement, Phase I **Project Number** 52-12
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description To establish and maintain a designated reserve account to fund ultra-filtration membrane replacement at the Lake Gaston Water Treatment Plant.
Purpose and Need Ultra-filtration membranes have an expected service life of seven years. Replacement cost is \$200,000 per membrane cassette.
Project Start Date Jul 2010 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 8

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	1,380,000	345,000	0	0	0	0	345,000	0	1,725,000
Other	0	0	0	0	0	0	0	0	0
Total	\$1,380,000	\$345,000	\$0	\$0	\$0	\$0	\$345,000	\$0	\$1,725,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	345,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$345,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	1,380,000	345,000	0	0	0	0	345,000	0	1,725,000
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$1,380,000	\$345,000	\$0	\$0	\$0	\$0	\$345,000	\$0	\$1,725,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 7 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Lake Gaston WTP Membrane Replacement, Phase II **Project Number** 21-13
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description To establish and maintain a designated reserve account to fund ultra-filtration membrane replacement at the Lake Gaston Water Treatment Plant.
Purpose and Need Ultra-filtration membranes have an expected service life of seven years. Replacement cost is \$200,000 per membrane cassette.
Project Start Date Jul 2012 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 22

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	0	0	345,000	345,000	345,000	345,000	1,380,000	345,000	1,725,000
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$345,000	\$345,000	\$345,000	\$345,000	\$1,380,000	\$345,000	\$1,725,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	1,380,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$1,380,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	0	345,000	345,000	345,000	345,000	1,380,000	0	1,380,000
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$345,000	\$345,000	\$345,000	\$345,000	\$1,380,000	\$0	\$1,380,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 7 _____ years

Major Rehabilitations:

1.		Cycle Length _____ years	Cost _____
2.		Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Maintenance & Operations Equipment Replacement **Project Number** 18-15
Improvement Category Public Utilities-Other **Improvement Type** Equipment or System
Project Description Equipment replacement for Maintenance & Operations facility.
Purpose and Need Replace aging and non-replaced yard equipment at the Maintenance & Operations facility to optimize field operations.
Project Start Date Jul 2011 **Target Completion Date** Ongoing
Project Status New **Project Rank** 16

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	0	0	0	0	0	
Land		0	0	0	0	0	0	0	0	
Construction		0	0	0	0	0	0	0	0	
Equipment		0	800,000	750,000	600,000	600,000	600,000	3,350,000	0	
Other		0	0	0	0	0	0	0	0	
Total		\$0	\$800,000	\$750,000	\$600,000	\$600,000	\$600,000	\$3,350,000	\$0	\$3,350,000

Funding Method(s) for Chesapeake Costs

1. Utilities-Fund Balance 3,350,000
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
-
- 5 Year Total** **\$3,350,000**

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	800,000	750,000	600,000	600,000	600,000	3,350,000	0	
State		0	0	0	0	0	0	0	0	
Other Sources		0	0	0	0	0	0	0	0	
Total		\$0	\$800,000	\$750,000	\$600,000	\$600,000	\$600,000	\$3,350,000	\$0	\$3,350,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 10 years

Major Rehabilitations:

1. _____ Cycle Length _____ years Cost _____
2. _____ Cycle Length _____ years Cost _____

Capital Project Detail

Project Name Meter Reading Software **Project Number** 53-12
Improvement Category Public Utilities- Other **Improvement Type** Replacement
Project Description Replace the current meter reading equipment and software used to record customer meter readings and initiate billing.
Purpose and Need The current equipment is obsolete and will not be supported by the vendor. Replacement is needed to ensure Public Utilities maintains the capability to generate timely and accurate customer invoices.
Project Start Date Jul 2007 **Target Completion Date**
Project Status New **Project Rank**
Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	1,316,579	0	0	0	0	0	0	10,000,000	11,316,579
Other	0	0	0	0	0	0	0	0	0
Total	\$1,316,579	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000,000	\$11,316,579

Funding Method(s) for Chesapeake Costs

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

 5 Year Total _____ **\$0**

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	1,316,579	0	0	0	0	0	0	0	1,316,579
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$1,316,579	\$0	\$1,316,579						

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ years

Major Rehabilitations:

- | | | | |
|----|--|--------------------------|------------|
| 1. | | Cycle Length _____ years | Cost _____ |
| 2. | | Cycle Length _____ years | Cost _____ |

Capital Project Detail

Project Name NW River Membrane Replacement - Phase III **Project Number** 01-09
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description To establish and maintain a designated reserve account to fund membrane replacement at the water treatment plant.
Purpose and Need Surface water membranes have an expected service life of seven years. Ground water membranes have an expected useful life of three years. Replacement costs are \$1,050,000 and \$309,000, respectively.
Project Start Date Jul 2010 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 5

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	1,100,000	350,000	350,000	0	0	0	700,000	0	1,800,000
Other	0	0	0	0	0	0	0	0	0
Total	\$1,100,000	\$350,000	\$350,000	\$0	\$0	\$0	\$700,000	\$0	\$1,800,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	700,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$700,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	1,100,000	350,000	350,000	0	0	0	700,000	0	1,800,000
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$1,100,000	\$350,000	\$350,000	\$0	\$0	\$0	\$700,000	\$0	\$1,800,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 5 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name NW River Membrane Replacement - Phase IV **Project Number** 01-14
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description To establish and maintain a designated reserve account to fund membrane replacement at the water treatment plant.
Purpose and Need Surface water membranes have an expected service life of seven years. Ground water membranes have an expected useful life of three years. Replacement costs are \$1,050,000 and \$309,000, respectively.
Project Start Date Jul 2013 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 26
Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	350,000	350,000	350,000	1,050,000	700,000	1,750,000
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$0	\$350,000	\$350,000	\$350,000	\$1,050,000	\$700,000	\$1,750,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	1,050,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$1,050,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	0	0	350,000	350,000	350,000	1,050,000	0	1,050,000
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$0	\$350,000	\$350,000	\$350,000	\$1,050,000	\$0	\$1,050,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 5 _____ years

Major Rehabilitations:

1.		Cycle Length _____ years	Cost _____
2.		Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Pressure Transducer **Project Number** 19-15
Improvement Category Public Utilities-Water Resources **Improvement Type** Equipment or System
Project Description Installation and purchase of pressure transducers for potable water system.
Purpose and Need Provide better water distribution system data that will identify potential deficiencies and allow better system control.
Project Start Date Jul 2011 **Target Completion Date** Jun 2012
Project Status New **Project Rank** 21

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	0	0	0	0	0	
Land		0	0	0	0	0	0	0	0	
Construction		0	50,000	0	0	0	50,000	0	50,000	
Equipment		0	50,000	0	0	0	50,000	0	50,000	
Other		0	0	0	0	0	0	0	0	
Total		\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000

Funding Method(s) for Chesapeake Costs

1. Utilities-Fund Balance 100,000
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
- \$100,000**
- 5 Year Total**

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	100,000	0	0	0	100,000	0	100,000	
State		0	0	0	0	0	0	0	0	
Other Sources		0	0	0	0	0	0	0	0	
Total		\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 5 years

Major Rehabilitations:

1. _____ Cycle Length _____ years Cost _____
2. _____ Cycle Length _____ years Cost _____

Capital Project Detail

Project Name Pump Station and Wet Well Upgrading Phase III **Project Number** 69-12
Improvement Category Public Utilities-Sewer **Improvement Type** Replacement
Project Description Replace worn-out equipment to meet Department of Environmental Quality regulations.
Purpose and Need Equipment in stations has a limited useful life. As a result, it must be periodically replaced to ensure that the facilities remain in operation preventing sewer overflows. Structural repairs to buildings and structures are also required periodically.
Project Start Date Jul 2010 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 11

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment	750,000	300,000	0	0	0	0	300,000	0	1,050,000
Other		0	0	0	0	0	0	0	0
Total	\$750,000	\$300,000	\$0	\$0	\$0	\$0	\$300,000	\$0	\$1,050,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	300,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$300,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	750,000	300,000	0	0	0	0	300,000	0	1,050,000
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total	\$750,000	\$300,000	\$0	\$0	\$0	\$0	\$300,000	\$0	\$1,050,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.	_____	Cycle Length	_____ years	Cost	_____
2.	_____	Cycle Length	_____ years	Cost	_____

Capital Project Detail

Project Name Pump Station and Wet Well Upgrading Phase IV **Project Number** 02-14
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description Replace worn-out equipment to meet Department of Environmental Quality regulations.
Purpose and Need Equipment in stations has a limited useful life. As a result it must be periodically replaced to ensure that the facilities remain in operation preventing sewer overflows. Structural repairs to buildings and structures are also periodically required.
Project Start Date Jul 2012 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 19

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	0	0	0	0	0	
Land		0	0	0	0	0	0	0	0	
Construction		0	0	0	0	0	0	0	0	
Equipment		0	0	300,000	400,000	400,000	400,000	1,500,000	400,000	1,900,000
Other		0	0	0	0	0	0	0	0	
Total		\$0	\$0	\$300,000	\$400,000	\$400,000	\$400,000	\$1,500,000	\$400,000	\$1,900,000

Funding Method(s) for Chesapeake Costs

1. Utilities-Fund Balance 1,500,000
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
-
- 5 Year Total** **\$1,500,000**

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	0	300,000	400,000	400,000	400,000	1,500,000	0	1,500,000
State		0	0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0	0
Total		\$0	\$0	\$300,000	\$400,000	\$400,000	\$400,000	\$1,500,000	\$0	\$1,500,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 10 years

Major Rehabilitations:

1. _____ Cycle Length _____ years Cost _____
2. _____ Cycle Length _____ years Cost _____

Capital Project Detail

Project Name Raw Water Transmission Main **Project Number** 39-12
Improvement Category Public Utilities-Water Resources **Improvement Type** Addition/Expansion
Project Description Installation of approximately 9 miles of 36-inch raw water pipeline and transmission facilities from Red Top in Suffolk to the Lake Gaston Water Treatment Plant. This will allow utilization of Lake Gaston water.
Purpose and Need Meet future water demands.
Project Start Date Feb 2009 **Target Completion Date** Jan 2015
Project Status Existing **Project Rank** 2

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	450,000	250,000	250,000	250,000	0	0	750,000	0	1,200,000
Land	0	0	0	0	0	0	0	0	0
Construction	5,550,000	2,750,000	2,750,000	2,750,000	0	0	8,250,000	0	13,800,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$6,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$0	\$0	\$9,000,000	\$0	\$15,000,000

Funding Method(s) for Chesapeake Costs

1.	Borrowing Authority-Revenue Supported (future bonds)	9,000,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$9,000,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	6,000,000	3,000,000	3,000,000	3,000,000	0	0	9,000,000	0	15,000,000
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$6,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$0	\$0	\$9,000,000	\$0	\$15,000,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Red Top Tank and Raw Water Pump Station. **Project Number** 17-14
Improvement Category Public Utilities-Water Resources **Improvement Type** Addition/Expansion
Project Description Installation of a raw water tank and pump station to allow utilization of Lake Gaston Water.
Purpose and Need Meet future water demands.
Project Start Date Jul 2013 **Target Completion Date** Jan 2015
Project Status Existing **Project Rank** 3

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	5,796,370	0	5,796,370	0	5,796,370
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$5,796,370	\$0	\$5,796,370	\$0	\$5,796,370

Funding Method(s) for Chesapeake Costs

1.	Borrowing Authority-Revenue Supported (future bonds)	5,796,370
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$5,796,370

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	5,796,370	0	5,796,370	0	5,796,370
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$5,796,370	\$0	\$5,796,370	\$0	\$5,796,370

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.	_____	Cycle Length	_____ years	Cost	_____
2.	_____	Cycle Length	_____ years	Cost	_____

Capital Project Detail

Project Name Sewer Management Operations and Maintenance **Project Number** 13-16
Improvement Category Public Utilities-Sewer **Improvement Type** Replacement
Project Description Compliance with Management, Operation, and Maintenance (MOM) aspects of the Virginia Department of Environmental Quality Consent Order.
Purpose and Need Prevent sanitary sewer overflows by improving the capability of the City's sewer force main and gravity piping systems (including manholes) along with upgrades to pump station facilities.
Project Start Date Jul 2013 **Target Completion Date** Ongoing
Project Status New **Project Rank** 36

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	150,000	150,000	225,000	525,000	1,950,000	2,475,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	850,000	850,000	1,275,000	2,975,000	11,050,000	14,025,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$1,500,000	\$3,500,000	\$13,000,000	\$16,500,000

Funding Method(s) for Chesapeake Costs

1.	Borrowing Authority-Revenue Supported (future bonds)	3,500,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$3,500,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	0	0	1,000,000	1,000,000	1,500,000	3,500,000	0	3,500,000
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$1,500,000	\$3,500,000	\$0	\$3,500,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Sewer Renewal - Manhole Inserts **Project Number** 30-12
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description To purchase and install manhole inserts.
Purpose and Need Several times in the past we have purchased and installed inserts to reduce inflow into sewer systems. This is a continuation of this program. This will facilitate compliance with the proposed DEQ Consent Order.
Project Start Date Jul 2007 **Target Completion Date** Jan 2013
Project Status **Project Rank** 20

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment	124,963	75,000	0	0	0	0	75,000	0	199,963
Other		0	0	0	0	0	0	0	0
Total	\$124,963	\$75,000	\$0	\$0	\$0	\$0	\$75,000	\$0	\$199,963

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	75,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$75,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	124,963	75,000	0	0	0	0	75,000	0	199,963
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total	\$124,963	\$75,000	\$0	\$0	\$0	\$0	\$75,000	\$0	\$199,963

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 30 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Sewer Renewal - Manhole Inserts Phase II **Project Number** 03-14

Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation

Project Description To purchase and install manhole inserts.

Purpose and Need Several times in the past we have purchased and installed inserts to reduce inflow into sewer systems. This is a continuation of this program. This will facilitate compliance with the proposed DEQ Consent Order.

Project Start Date Jul 2012 **Target Completion Date** Ongoing

Project Status Existing **Project Rank** 30

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment		0	100,000	100,000	100,000	100,000	400,000	100,000	500,000
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000	\$500,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	400,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$400,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	100,000	100,000	100,000	100,000	400,000	0
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000	\$0

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 30 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Sewer Renewal - SSES Phase II **Project Number** 33-12
Improvement Category Public Utilities-Sewer **Improvement Type** Replacement
Project Description Replace the force main systems in several city sewer pump station areas. Projects include the Volvo Parkway Force Main Repair and the Indian River Force Main Upgrade.
Purpose and Need Prevent sanitary sewer overflows by improving the capability of the city's sewer pump station force main systems.
Project Start Date Jul 2011 **Target Completion Date** Jun 2013
Project Status Existing **Project Rank** 9

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	202,000	0	0	0	0	202,000	0	202,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	1,981,742	0	0	0	0	1,981,742	0	1,981,742
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$2,183,742	\$0	\$0	\$0	\$0	\$2,183,742	\$0	\$2,183,742

Funding Method(s) for Chesapeake Costs

1.	Borrowing Authority-Revenue Supported	(future bonds)	2,183,742
2.			
3.			
4.			
5.			
6.			
5 Year Total			\$2,183,742

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	2,183,742	0	0	0	0	2,183,742	0	2,183,742
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$0	\$2,183,742	\$0	\$0	\$0	\$0	\$2,183,742	\$0	\$2,183,742

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Sewer Renewal - SSES Phase III **Project Number** 23-13

Improvement Category Public Utilities-Sewer **Improvement Type** Replacement

Project Description Sanitary Sewer Renewal Phase III projects include : Crestwood Sewer (Phase I, II, and III); Pump Station #3 Service Area Gravity Renewal (Phase I and II); Manhole Rehabilitation; Elbyrne Drive Sewer; Melton Street Sewer Renewal; Raleigh Place Sewer; Westwood and Restart Avenue Sewer; Chesapeake Avenue; Liberty Street; Orville Avenue Alleyway; 18th Street; and Sewer Gravity associated with HRSD Gravity along Bainbridge.

Purpose and Need Sections of the sanitary sewer system are in need of replacement or repair, of which will prevent sewer overflows, and provide customers with reliable service.

Project Start Date Jan 2012 **Target Completion Date** Ongoing

Project Status Existing **Project Rank** 4

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	716,000	1,388,000	242,000	647,000	2,993,000	1,372,000	4,365,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	2,763,966	2,522,303	3,105,524	6,312,559	14,704,352	9,185,390	23,889,742
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$3,479,966	\$3,910,303	\$3,347,524	\$6,959,559	\$17,697,352	\$10,557,390	\$28,254,742

Funding Method(s) for Chesapeake Costs

- | | | |
|----|---------------------------------------|---------------------------|
| 1. | Borrowing Authority-Revenue Supported | (future bonds) 17,697,352 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |

5 Year Total \$17,697,352

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	0	3,479,966	3,910,303	3,347,524	6,959,559	17,697,352	10,557,390	28,254,742
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$3,479,966	\$3,910,303	\$3,347,524	\$6,959,559	\$17,697,352	\$10,557,390	\$28,254,742

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Sewer System Repairs **Project Number** 31-12
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description Funding for minor unanticipated sewer line and manhole replacement.
Purpose and Need To replace sewer lines not currently identified that may occur as the result of problems experienced with leaks, cave-ins, or other operational issues.
Project Start Date Jul 2007 **Target Completion Date** Jun 2013
Project Status Existing **Project Rank** 12

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction	1,446,100	250,000	0	0	0	0	250,000	0	1,696,100
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total	\$1,446,100	\$250,000	\$0	\$0	\$0	\$0	\$250,000	\$0	\$1,696,100

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|------------------------|------------------|
| 1. | Utilities-Fund Balance | 250,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$250,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	1,446,100	250,000	0	0	0	0	250,000	0	1,696,100
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total	\$1,446,100	\$250,000	\$0	\$0	\$0	\$0	\$250,000	\$0	\$1,696,100

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Sewer System Repairs Phase II **Project Number** 04-14
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description Funding for minor unanticipated sewer line and manhole replacement.
Purpose and Need To replace sewer lines not currently identified that may occur as the result of problems experienced with leaks, cave-ins, or other operational issues.
Project Start Date Jul 2012 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 31

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	250,000	250,000	250,000	250,000	1,000,000	1,250,000
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$250,000	\$250,000	\$250,000	\$250,000	\$1,000,000	\$1,250,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	1,000,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$1,000,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	250,000	250,000	250,000	250,000	1,000,000	1,000,000
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$250,000	\$250,000	\$250,000	\$250,000	\$1,000,000	\$1,000,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 30 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Telemetry Upgrade Phase II **Project Number** 16-14
Improvement Category Public Utilities-Sewer **Improvement Type** Replacement
Project Description Replace radio equipment with 800 MHz units.
Purpose and Need Upgrade telemetry to facilitate monitoring of system operation.
Project Start Date Jul 2013 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 24

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	50,000	50,000	50,000	150,000	250,000
Equipment		0	0	0	100,000	100,000	100,000	300,000	500,000
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$150,000	\$150,000	\$150,000	\$450,000	\$750,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	450,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$450,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	150,000	150,000	150,000	450,000	750,000
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$150,000	\$150,000	\$150,000	\$450,000	\$750,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Violet St. Pump Station Emergency Generator **Project Number** 19-14

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Equipment or System

Project Description Install an emergency generator with switchgear at the Violet St. Water Pump Station in South Norfolk.

Purpose and Need The Violet St. Pump Station is the only water pumping station which serves the South Norfolk water service area. Backup power is essential for maintaining a reliable water supply in this service district.

Project Start Date May 2011 **Target Completion Date** Jun 2012

Project Status Existing **Project Rank** 6

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	50,000	0	0	0	0	0	0	0	50,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	300,000	0	0	0	0	300,000	0	300,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$50,000	\$300,000	\$0	\$0	\$0	\$0	\$300,000	\$0	\$350,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	300,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$300,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	50,000	300,000	0	0	0	0	300,000	0	350,000
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$50,000	\$300,000	\$0	\$0	\$0	\$0	\$300,000	\$0	\$350,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 20 years

Major Rehabilitations:

1.		Cycle Length		Cost	
2.		Cycle Length		Cost	

Capital Project Detail

Project Name Water Renewals - Waterline Upgrading **Project Number** 71-12
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description To replace water mains and appurtenances with adequate sizes and proper materials throughout various locations within the city.
Purpose and Need These improvements are necessary to replace water mains and appurtenances to provide fire protection and increase flows and pressures creating reliable flow patterns in the system to meet peak demands.
Project Start Date Jul 2010 **Target Completion Date** Jun 2014
Project Status Existing **Project Rank** 10

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction	855,558	550,000	625,000	0	0	0	1,175,000	0	2,030,558
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total	\$855,558	\$550,000	\$625,000	\$0	\$0	\$0	\$1,175,000	\$0	\$2,030,558

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	1,175,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$1,175,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	855,558	550,000	625,000	0	0	0	1,175,000	0	2,030,558
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total	\$855,558	\$550,000	\$625,000	\$0	\$0	\$0	\$1,175,000	\$0	\$2,030,558

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Water Renewals- Water Line Upgrading Phase II **Project Number** 14-16
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description To replace water mains and appurtenances with adequate sizes and proper materials throughout various locations within the city.
Purpose and Need These improvements are necessary to replace water mains and appurtenances to provide fire protection and increase flows and pressures creating reliable flow patterns in the system to meet peak demands.
Project Start Date Jul 2012 **Target Completion Date** Jun 2012
Project Status New **Project Rank** 23

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	0	0	0	0	0	
Land		0	0	0	0	0	0	0	0	
Construction		0	0	750,000	750,000	1,000,000	2,500,000	0	2,500,000	
Equipment		0	0	0	0	0	0	0	0	
Other		0	0	0	0	0	0	0	0	
Total		\$0	\$0	\$0	\$750,000	\$750,000	\$1,000,000	\$2,500,000	\$0	\$2,500,000

Funding Method(s) for Chesapeake Costs

1. Utilities-Fund Balance 2,500,000
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
- \$2,500,000**
- 5 Year Total**

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	0	0	750,000	750,000	1,000,000	2,500,000	0	2,500,000
State		0	0	0	0	0	0	0	0	
Other Sources		0	0	0	0	0	0	0	0	
Total		\$0	\$0	\$0	\$750,000	\$750,000	\$1,000,000	\$2,500,000	\$0	\$2,500,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1. _____ Cycle Length _____ years Cost _____
2. _____ Cycle Length _____ years Cost _____

Capital Project Detail

Project Name Water System Renewal **Project Number** 24-12
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Renovation/Rehabilitation
Project Description Funding for minor unanticipated water line replacement.
Purpose and Need To replace small water lines and antiquated appurtenances not currently identified that may occur as the result of problems experienced with leaks or other operational issues.
Project Start Date Sep 2010 **Target Completion Date** Jun 2013
Project Status Existing **Project Rank** 14

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction	693,000	200,000	0	0	0	0	200,000	0	893,000
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total	\$693,000	\$200,000	\$0	\$0	\$0	\$0	\$200,000	\$0	\$893,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	200,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$200,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	693,000	200,000	0	0	0	0	200,000	0	893,000
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total	\$693,000	\$200,000	\$0	\$0	\$0	\$0	\$200,000	\$0	\$893,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Water System Renewal, Phase II **Project Number** 21-15
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Renovation/Rehabilitation
Project Description Funding for minor unanticipated water line replacement.
Purpose and Need To replace small water lines and antiquated appurtenances not currently identified that may occur as the result of problems experienced with leaks or other operational issues.
Project Start Date Jul 2012 **Target Completion Date** Ongoing
Project Status Existing **Project Rank** 32

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	0	0	0	0	0	
Land		0	0	0	0	0	0	0	0	
Construction		0	0	150,000	200,000	200,000	200,000	750,000	200,000	950,000
Equipment		0	0	0	0	0	0	0	0	
Other		0	0	0	0	0	0	0	0	
Total		\$0	\$0	\$150,000	\$200,000	\$200,000	\$200,000	\$750,000	\$200,000	\$950,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Fund Balance	750,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$750,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	0	150,000	200,000	200,000	200,000	750,000	0	750,000
State		0	0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0	0
Total		\$0	\$0	\$150,000	\$200,000	\$200,000	\$200,000	\$750,000	\$0	\$750,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name	Waters Road Water Main	Project Number	15-16
Improvement Category	Public Utilities-Water Distribution/Treatment	Improvement Type	New Facility
Project Description	Install approximately 2,500 feet of 10-inch water main along Waters Road from Old Vintage Road northeastward to 1105 Waters Road.		
Purpose and Need	This water main will complete a loop between Cedar Road and Johnstown Road. This project will improve the water system reliability, pressures, and fire flow in the area.		
Project Start Date	Jul 2015	Target Completion Date	Jun 2016
Project Status	New	Project Rank	34

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	300,000	300,000	0	300,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	798,000	798,000	0	798,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	100,234	100,234	0	100,234
Total	\$0	\$0	\$0	\$0	\$0	\$1,198,234	\$1,198,234	\$0	\$1,198,234

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|--------------------------|
| 1. | Borrowing Authority- Revenue Supported | (future bonds) 1,198,234 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$1,198,234 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	0	0	0	0	1,198,234	1,198,234	0	1,198,234
State	0	0	0	0	0	0	0	0	0
Other Sources	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$0	\$0	\$0	\$1,198,234	\$1,198,234	\$0	\$1,198,234

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Western Branch Ground Storage Tank Renovation **Project Number** 24-14
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Renovation/Rehabilitation
Project Description Painting, cleaning, and repairing of water storage tank.
Purpose and Need To extend the life of this water storage tank.
Project Start Date Jul 2013 **Target Completion Date** Jun 2017
Project Status Existing **Project Rank**
Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	1,074,997	1,074,997
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$0	\$0	\$0	\$1,074,997	\$1,074,997

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	0
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$0

Cost to All Organizations

Funding Sources	Previous Funding	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	0	0	0	0	0
State		0	0	0	0	0	0	0	0
Other Sources		0	0	0	0	0	0	0	0
Total		\$0	\$0						

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 _____ years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____