



Cecil County Wastewater Rate Model
Developed by: Municipal and Financial Services Group
Last Update: 3/7/2013
By: MRM

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SCHEDULE 1 - CONTROL PANEL

Fiscal Year: July 1 to June 30th

Legend: Actual Forecast

WASTEWATER

	Base Year	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	
Source	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	
Inflation Rate	Industry Estimate	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	
Customer Growth Rate	DPW Development Projections	0.67%	12.71%	1.19%	5.20%	3.53%	4.17%	5.63%	7.78%	4.00%	3.39%	3.28%
Production Growth Rate	DPW Development Projections	0.67%	12.71%	1.19%	5.20%	3.53%	4.17%	5.63%	7.78%	4.00%	3.39%	3.28%
Debt Financing Terms												
County Bonds												
Interest Rate on Borrowings	Industry Estimate	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Debt Admin Cost (% of principal)	Industry Estimate	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Debt Maturity (years)	Industry Estimate	20	20	20	20	20	20	20	20	20	20	20
State Borrowing												
Interest Rate on Borrowings	Industry Estimate	1.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Debt Admin Cost (% of principal)	Industry Estimate	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Debt Maturity (years)	Industry Estimate	20	20	20	20	20	20	20	20	20	20	20
Interst Rate Earned on Investments	Industry Estimate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%

SCHEDULE 3 - EXISTING DEBT SERVICE

	Funding Type					Interest Rate	Date of Issue/ Maturity							
	Wastewater			Septage				FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18
	Non-Growth User Rate	Growth Major Facilities Fee	Benefit Assessment	Non-Growth Hauling Fees	Growth Major Facilities Fee									
FUND 605 WASTEWATER SERVICES														
1991 MWQFA Charles Mnr San Sew B	50%	50%	0%	0%	0%	4.450%	1992							
GO Bond Maryland Water Quality Financing Administration Charlestown Manor Sewer							2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest							19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Principal								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Principal Balance								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Non-Growth								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Growth								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Principal Non-Growth								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Principal Growth								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2002 MWQFA CH WWTP Upgrade Exp	40%	40%	20%	0%	0%	2.000%	2002							
GO Bond Sanitary District Bond, Series 2002							2023	\$ 26,517	\$ 24,540	\$ 22,523	\$ 20,466	\$ 18,368	\$ 16,228	\$ 14,045
Interest							21	\$ 98,854	\$ 100,831	\$ 102,848	\$ 104,905	\$ 107,003	\$ 109,143	\$ 111,326
Principal								\$ 125,371	\$ 125,371	\$ 125,371	\$ 125,371	\$ 125,371	\$ 125,371	\$ 125,371
Total								\$ 1,226,990	\$ 1,126,158	\$ 1,023,310	\$ 918,405	\$ 811,402	\$ 702,259	\$ 590,932
Principal Balance								\$ 10,607	\$ 9,816	\$ 9,009	\$ 8,186	\$ 7,347	\$ 6,491	\$ 5,618
Interest Non-Growth								\$ 15,910	\$ 14,724	\$ 13,514	\$ 12,280	\$ 11,021	\$ 9,737	\$ 8,427
Interest Growth								\$ 39,542	\$ 40,333	\$ 41,139	\$ 41,962	\$ 42,801	\$ 43,657	\$ 44,530
Principal Non-Growth								\$ 59,313	\$ 60,499	\$ 61,709	\$ 62,943	\$ 64,202	\$ 65,486	\$ 66,796
Principal Growth														
2002B MWQFA NE River WWTP/BNR Upgr	100%	0%	0%	0%	0%	1.900%	2002							
GO Bond Sanitary District Bond, Series 2002B							2024	\$ 79,046	\$ 73,144	\$ 67,130	\$ 61,002	\$ 54,757	\$ 48,393	\$ 41,909
Interest							22	\$ 310,633	\$ 316,535	\$ 322,549	\$ 328,678	\$ 334,923	\$ 341,286	\$ 347,770
Principal								\$ 389,679	\$ 389,679	\$ 389,679	\$ 389,679	\$ 389,679	\$ 389,679	\$ 389,679
Total								\$ 3,849,699	\$ 3,533,164	\$ 3,210,614	\$ 2,881,937	\$ 2,547,014	\$ 2,205,728	\$ 1,857,958
Principal Balance								\$ 79,046	\$ 73,144	\$ 67,130	\$ 61,002	\$ 54,757	\$ 48,393	\$ 41,909
Interest Non-Growth								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Growth								\$ 310,633	\$ 316,535	\$ 322,549	\$ 328,678	\$ 334,923	\$ 341,286	\$ 347,770
Principal Non-Growth								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Principal Growth								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2003A USDA CH UPGR	40%	40%	20%	0%	0%	4.252%	2003							
GO Bond Sanitary District Bond, Series 2003A							2043	\$ 32,606	\$ 32,112	\$ 31,596	\$ 31,058	\$ 30,497	\$ 29,912	\$ 29,301
Interest							40	\$ 11,438	\$ 11,932	\$ 12,448	\$ 12,986	\$ 13,547	\$ 14,132	\$ 14,743
Principal								\$ 44,044	\$ 44,044	\$ 44,044	\$ 44,044	\$ 44,044	\$ 44,044	\$ 44,044
Total								\$ 759,569	\$ 747,637	\$ 735,189	\$ 722,203	\$ 708,657	\$ 694,525	\$ 679,782
Principal Balance								\$ 13,042	\$ 12,845	\$ 12,638	\$ 12,423	\$ 12,199	\$ 11,965	\$ 11,721
Interest Non-Growth								\$ 19,564	\$ 19,267	\$ 18,958	\$ 18,635	\$ 18,298	\$ 17,947	\$ 17,581
Interest Growth								\$ 4,575	\$ 4,773	\$ 4,979	\$ 5,194	\$ 5,419	\$ 5,653	\$ 5,897
Principal Non-Growth								\$ 6,863	\$ 7,159	\$ 7,469	\$ 7,791	\$ 8,128	\$ 8,479	\$ 8,846
Principal Growth														

SCHEDULE 3 - EXISTING DEBT SERVICE

	Funding Type					Interest Rate	Date of Issue/ Maturity										
	Wastewater			Septage				FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18			
	Non-Growth User Rate	Growth Major Facilities Fee	Benefit Assessment	Non-Growth Hauling Fees	Growth Major Facilities Fee												
2003B	MWQFA NE & RTE 272 SEWERS	40%	40%	20%	0%	0%	1.200%	2004									
GO Bond	Sanitary District Bond, Series 2003B							2023									
	Interest							19	\$ 20,642	\$ 19,033	\$ 17,404	\$ 15,755	\$ 14,087	\$ 12,399	\$ 10,690		
	Principal								\$ 134,134	\$ 135,743	\$ 137,372	\$ 139,021	\$ 140,689	\$ 142,377	\$ 144,086		
	Total								\$ 154,776	\$ 154,776	\$ 154,776	\$ 154,776	\$ 154,776	\$ 154,776	\$ 154,776		
	Principal Balance								\$ 1,586,070	\$ 1,450,327	\$ 1,312,955	\$ 1,173,934	\$ 1,033,245	\$ 890,868	\$ 746,782		
	Interest Non-Growth								\$ 8,257	\$ 7,613	\$ 6,962	\$ 6,302	\$ 5,635	\$ 4,960	\$ 4,276		
	Interest Growth								\$ 12,385	\$ 11,420	\$ 10,442	\$ 9,453	\$ 8,452	\$ 7,439	\$ 6,414		
	Principal Non-Growth								\$ 53,653	\$ 54,297	\$ 54,949	\$ 55,608	\$ 56,276	\$ 56,951	\$ 57,634		
	Principal Growth								\$ 80,480	\$ 81,446	\$ 82,423	\$ 83,412	\$ 84,413	\$ 85,426	\$ 86,451		
2004A	USDA Carpenter Pt Sewer	0%	55%	45%	0%	0%	4.577%	2004									
GO Bond	Sanitary District Bond, Series 2004A							2044									
	Interest							40	\$ 65,942	\$ 65,040	\$ 64,096	\$ 63,109	\$ 62,078	\$ 60,998	\$ 59,870		
	Principal								\$ 19,714	\$ 20,616	\$ 21,560	\$ 22,547	\$ 23,578	\$ 24,658	\$ 25,786		
	Total								\$ 85,656	\$ 85,656	\$ 85,656	\$ 85,656	\$ 85,656	\$ 85,656	\$ 85,656		
	Principal Balance								\$ 1,452,984	\$ 1,432,367	\$ 1,410,807	\$ 1,388,261	\$ 1,364,682	\$ 1,340,025	\$ 1,314,239		
	Interest Non-Growth								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
	Interest Growth								\$ 65,942	\$ 65,040	\$ 64,096	\$ 63,109	\$ 62,078	\$ 60,998	\$ 59,870		
	Principal Non-Growth								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
	Principal Growth								\$ 19,714	\$ 20,616	\$ 21,560	\$ 22,547	\$ 23,578	\$ 24,658	\$ 25,786		
2004B	MWQFA Meadowview WWTP Replacement	40%	40%	20%	0%	0%	1.100%	2004									
GO Bond	Sanitary District Bond, Series 2004B							2025									
	Interest							21	\$ 65,860	\$ 61,435	\$ 56,962	\$ 52,439	\$ 47,867	\$ 43,244	\$ 38,571		
	Principal								\$ 402,252	\$ 406,677	\$ 411,150	\$ 415,673	\$ 420,245	\$ 424,868	\$ 429,541		
	Total								\$ 468,112	\$ 468,112	\$ 468,112	\$ 468,112	\$ 468,112	\$ 468,112	\$ 468,112		
	Principal Balance								\$ 5,585,021	\$ 5,178,344	\$ 4,767,194	\$ 4,351,522	\$ 3,931,276	\$ 3,506,409	\$ 3,076,867		
	Interest Non-Growth								\$ 26,344	\$ 24,574	\$ 22,785	\$ 20,976	\$ 19,147	\$ 17,298	\$ 15,428		
	Interest Growth								\$ 39,516	\$ 36,861	\$ 34,177	\$ 31,463	\$ 28,720	\$ 25,946	\$ 23,142		
	Principal Non-Growth								\$ 160,901	\$ 162,671	\$ 164,460	\$ 166,269	\$ 168,098	\$ 169,947	\$ 171,817		
	Principal Growth								\$ 241,351	\$ 244,006	\$ 246,690	\$ 249,404	\$ 252,147	\$ 254,921	\$ 257,725		
2007	Public Improvement Bond (portion of Fund 605)	50%	50%	0%	0%	0%											
GO Bond																	
	Interest								\$ 233,436	\$ 221,136	\$ 208,414	\$ 196,586	\$ 185,653	\$ 174,303	\$ 162,515		
	Principal								\$ 241,521	\$ 250,467	\$ 258,418	\$ 268,357	\$ 278,296	\$ 289,229	\$ 300,162		
	Total								\$ 474,957	\$ 471,603	\$ 466,832	\$ 464,943	\$ 463,949	\$ 463,532	\$ 462,677		
	Principal Balance								\$ 5,450,629	\$ 5,200,162	\$ 4,941,744	\$ 4,673,387	\$ 4,395,091	\$ 4,105,862	\$ 3,805,700		
	Interest Non-Growth								\$ 116,718	\$ 110,568	\$ 104,207	\$ 98,293	\$ 92,827	\$ 87,151	\$ 81,258		
	Interest Growth								\$ 116,718	\$ 110,568	\$ 104,207	\$ 98,293	\$ 92,827	\$ 87,151	\$ 81,258		
	Principal Non-Growth								\$ 120,761	\$ 125,233	\$ 129,209	\$ 134,179	\$ 139,148	\$ 144,615	\$ 150,081		
	Principal Growth								\$ 120,761	\$ 125,233	\$ 129,209	\$ 134,179	\$ 139,148	\$ 144,615	\$ 150,081		
2008A	WQFA Washington St. Pump & Carpenter's Point	30%	50%	20%	0%	0%	1.000%	2008									
GO Bond	Sanitary District Bond, Series 2008A							2027									
	Interest							19	\$ 23,077	\$ 20,660	\$ 19,309	\$ 17,945	\$ 16,568	\$ 15,176	\$ 13,771		
	Principal								\$ 133,720	\$ 135,058	\$ 136,408	\$ 137,772	\$ 139,150	\$ 140,542	\$ 141,947		
	Total								\$ 156,798	\$ 155,718	\$ 155,718	\$ 155,718	\$ 155,718	\$ 155,718	\$ 155,718		
	Principal Balance								\$ 2,066,001	\$ 1,930,943	\$ 1,794,535	\$ 1,656,763	\$ 1,517,613	\$ 1,377,071	\$ 1,235,124		
	Interest Non-Growth								\$ 6,923	\$ 6,198	\$ 5,793	\$ 5,384	\$ 4,970	\$ 4,553	\$ 4,131		
	Interest Growth								\$ 16,154	\$ 14,462	\$ 13,517	\$ 12,562	\$ 11,597	\$ 10,623	\$ 9,639		
	Principal Non-Growth								\$ 40,116	\$ 40,517	\$ 40,922	\$ 41,332	\$ 41,745	\$ 42,162	\$ 42,584		
	Principal Growth								\$ 93,604	\$ 94,540	\$ 95,486	\$ 96,441	\$ 97,405	\$ 98,379	\$ 99,363		

SCHEDULE 3 - EXISTING DEBT SERVICE

	Funding Type					Interest Rate	Date of Issue/ Maturity										
	Wastewater			Septage				FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18			
	Non-Growth User Rate	Growth Major Facilities Fee	Benefit Assessment	Non-Growth Hauling Fees	Growth Major Facilities Fee												
2008B	WQFA Septage	0%	0%	0%	100%	0%	2008										
GO Bond	Sanitary District Bond, Series 2008B						2028										
	Interest						20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Principal							\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
	Total							\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
	Principal Balance							\$ 640,000	\$ 600,000	\$ 560,000	\$ 520,000	\$ 480,000	\$ 440,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000
	Interest Non-Growth							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Interest Growth							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Principal Non-Growth							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Principal Growth							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2009	Public Improvement (portion of Fund 605)	35%	65%	0%	0%	0%	2009										
GO	Consolidated G.O. Public Improvement Bonds of 2009						2028										
	Interest						19	\$ 129,957	\$ 124,406	\$ 118,855	\$ 113,304	\$ 107,753	\$ 101,277	\$ 93,875	\$ 93,875	\$ 93,875	\$ 93,875
	Principal							\$ 185,033	\$ 185,033	\$ 185,033	\$ 185,033	\$ 185,033	\$ 185,033	\$ 185,033	\$ 185,033	\$ 185,033	\$ 185,033
	Total							\$ 314,990	\$ 309,439	\$ 303,888	\$ 298,337	\$ 292,786	\$ 286,310	\$ 278,909	\$ 278,909	\$ 278,909	\$ 278,909
	Principal Balance							\$ 3,144,900	\$ 2,959,866	\$ 2,774,833	\$ 2,589,800	\$ 2,404,766	\$ 2,219,733	\$ 2,034,699	\$ 2,034,699	\$ 2,034,699	\$ 2,034,699
	Interest Non-Growth							\$ 45,485	\$ 43,542	\$ 41,599	\$ 39,656	\$ 37,713	\$ 35,447	\$ 32,856	\$ 32,856	\$ 32,856	\$ 32,856
	Interest Growth							\$ 84,472	\$ 80,864	\$ 77,256	\$ 73,647	\$ 70,039	\$ 65,830	\$ 61,019	\$ 61,019	\$ 61,019	\$ 61,019
	Principal Non-Growth							\$ 64,762	\$ 64,762	\$ 64,762	\$ 64,762	\$ 64,762	\$ 64,762	\$ 64,762	\$ 64,762	\$ 64,762	\$ 64,762
	Principal Growth							\$ 120,272	\$ 120,272	\$ 120,272	\$ 120,272	\$ 120,272	\$ 120,272	\$ 120,272	\$ 120,272	\$ 120,272	\$ 120,272
2010A	San Dist MWQFA - Carpenter's Point Sewer Phase	30%	50%	20%	0%	0%	2010										
GO	Sanitary District Bond, Series 2010A						2030										
	Interest						20	\$ -	\$ 11,956	\$ 11,347	\$ 10,731	\$ 10,109	\$ 9,481	\$ 8,847	\$ 8,847	\$ 8,847	\$ 8,847
	Principal							\$ 60,957	\$ 61,566	\$ 62,182	\$ 62,804	\$ 63,432	\$ 64,066	\$ 64,066	\$ 64,066	\$ 64,066	\$ 64,066
	Total							\$ 72,913	\$ 72,913	\$ 72,913	\$ 72,913	\$ 72,913	\$ 72,913	\$ 72,913	\$ 72,913	\$ 72,913	\$ 72,913
	Principal Balance							\$ 1,195,647	\$ 1,134,690	\$ 1,073,124	\$ 1,010,943	\$ 948,139	\$ 884,707	\$ 820,642	\$ 820,642	\$ 820,642	\$ 820,642
	Interest Non-Growth							\$ -	\$ 3,587	\$ 3,404	\$ 3,219	\$ 3,033	\$ 2,844	\$ 2,654	\$ 2,654	\$ 2,654	\$ 2,654
	Interest Growth							\$ -	\$ 8,370	\$ 7,943	\$ 7,512	\$ 7,077	\$ 6,637	\$ 6,193	\$ 6,193	\$ 6,193	\$ 6,193
	Principal Non-Growth							\$ -	\$ 18,287	\$ 18,470	\$ 18,655	\$ 18,841	\$ 19,029	\$ 19,220	\$ 19,220	\$ 19,220	\$ 19,220
	Principal Growth							\$ -	\$ 42,670	\$ 43,096	\$ 43,527	\$ 43,963	\$ 44,402	\$ 44,846	\$ 44,846	\$ 44,846	\$ 44,846
2012	Public Improvement Bond & Refunding (BAB) (Fund 605 portion only)	50%	50%	0%	0%	0%	2013										
GO	Consolidated G.O. Public Improvement Bonds of 2013						2033										
	Interest						20	\$ -	\$ 57,553	\$ 52,188	\$ 49,212	\$ 46,236	\$ 43,260	\$ 40,284	\$ 40,284	\$ 40,284	\$ 40,284
	Principal							\$ -	\$ -	\$ 74,401	\$ 74,401	\$ 74,401	\$ 74,401	\$ 74,401	\$ 74,401	\$ 74,401	\$ 74,401
	Total							\$ -	\$ 57,553	\$ 126,589	\$ 123,613	\$ 120,637	\$ 117,661	\$ 114,685	\$ 114,685	\$ 114,685	\$ 114,685
	Principal Balance							\$ 1,483,000	\$ 1,483,000	\$ 1,408,599	\$ 1,334,198	\$ 1,259,797	\$ 1,185,396	\$ 1,110,995	\$ 1,110,995	\$ 1,110,995	\$ 1,110,995
	Interest Non-Growth							\$ -	\$ 28,777	\$ 26,094	\$ 24,606	\$ 23,118	\$ 21,630	\$ 20,142	\$ 20,142	\$ 20,142	\$ 20,142
	Interest Growth							\$ -	\$ 28,777	\$ 26,094	\$ 24,606	\$ 23,118	\$ 21,630	\$ 20,142	\$ 20,142	\$ 20,142	\$ 20,142
	Principal Non-Growth							\$ -	\$ -	\$ 37,201	\$ 37,201	\$ 37,201	\$ 37,201	\$ 37,201	\$ 37,201	\$ 37,201	\$ 37,201
	Principal Growth							\$ -	\$ -	\$ 37,201	\$ 37,201	\$ 37,201	\$ 37,201	\$ 37,201	\$ 37,201	\$ 37,201	\$ 37,201
	TOTAL WASTEWATER SERVICES DEBT SERVICE	39%	41%	13%	8%	0%											
	Interest Non-Growth							\$ 306,422	\$ 320,664	\$ 299,621	\$ 280,048	\$ 260,746	\$ 240,732	\$ 219,993	\$ 219,993	\$ 219,993	\$ 219,993
	Interest Growth							\$ 370,661	\$ 390,351	\$ 370,203	\$ 351,561	\$ 333,227	\$ 313,940	\$ 293,685	\$ 293,685	\$ 293,685	\$ 293,685
	Principal Non-Growth							\$ 794,943	\$ 827,408	\$ 878,640	\$ 893,838	\$ 909,212	\$ 925,263	\$ 941,496	\$ 941,496	\$ 941,496	\$ 941,496
	Principal Growth							\$ 742,358	\$ 796,442	\$ 845,114	\$ 857,716	\$ 870,457	\$ 883,838	\$ 897,366	\$ 897,366	\$ 897,366	\$ 897,366
	Outstanding Principal Non-Growth							\$ 13,853,725	\$ 13,058,782	\$ 12,231,374	\$ 11,352,735	\$ 10,458,896	\$ 9,549,684	\$ 8,624,421	\$ 8,624,421	\$ 8,624,421	\$ 8,624,421
	Outstanding Principal Growth							\$ 15,484,083	\$ 14,741,726	\$ 13,945,284	\$ 13,100,170	\$ 12,242,455	\$ 11,371,998	\$ 10,488,160	\$ 10,488,160	\$ 10,488,160	\$ 10,488,160
	Total Non-Growth Wastewater Services Annual Debt Service							\$ 1,101,365	\$ 1,148,071	\$ 1,178,261	\$ 1,173,886	\$ 1,169,958	\$ 1,165,995	\$ 1,161,489	\$ 1,161,489	\$ 1,161,489	\$ 1,161,489
	Total Growth Wastewater Services Annual Debt Service							\$ 1,113,019	\$ 1,186,793	\$ 1,215,317	\$ 1,209,277	\$ 1,203,684	\$ 1,197,777	\$ 1,191,051	\$ 1,191,051	\$ 1,191,051	\$ 1,191,051
	<i>Total Non-Growth Septage Services Annual Debt Service</i>							\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
	<i>Total Growth Septage Services Annual Debt Service</i>							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total Debt Service							\$ 2,254,384	\$ 2,374,864	\$ 2,433,578	\$ 2,423,163	\$ 2,413,642	\$ 2,403,772	\$ 2,392,540	\$ 2,392,540	\$ 2,392,540	\$ 2,392,540

Source: WasteWaterDebtService.xlsx

SCHEDULE 4 - CAPITAL IMPROVEMENT PROJECTS

Priority	Number	Description	Project Type	Asset Type		Funding Type					Prior Through FY 12	Projected FY 10	Projected FY 11	Projected FY 12	Budget FY 13	Projected FY 14	Projected FY 15	Projected FY 16	Projected FY 17	Projected FY 18	Projected FY 19	Projected FY 20	Total FY 13-20
						Wastewater			Septage														
						Non-Growth User Rate	Growth Major Facilities Fee	Growth Benefit Assessment	Non-Growth Hauling Fees	Growth Major Facilities Fee													
12	55043	Backup Power Generator at Septage Acceptance Station	ME			0%	0%	0%	100%	0%	100,000											-	
		County Paygo	ME			0%	0%	0%	100%	0%												-	
		County Bonds	ME			0%	0%	0%	100%	0%												-	
		State (Loans)	ME			0%	0%	0%	100%	0%												-	
		Federal (Grants)	ME			0%	0%	0%	100%	0%												-	
		Other	ME			0%	0%	0%	100%	0%												-	
12	55043	Backup Power Generator at Septage Acceptance Station	ME	0%	0%	100%	0%	0%	0%	100%	0%	100,000	-	-	-	-	-	-	-	-	-	-	-
24	55044	Construct Port Deposit to NERAWWTP	SL			10%	90%	0%	0%	0%												-	
		County Paygo	SL			10%	90%	0%	0%	0%												-	
		County Bonds	SL			10%	90%	0%	0%	0%												-	
		State (Loans)	SL			10%	90%	0%	0%	0%					900,000			12,800,000				13,700,000	
		Federal (Grants)	SL			10%	90%	0%	0%	0%												-	
		Other	SL			10%	90%	0%	0%	0%												-	
24	55044	Construct Port Deposit to NERAWWTP	SL	0%	0%	50%	50%	10%	90%	0%	0%	-	-	-	-	900,000	-	12,800,000	-	-	-	13,700,000	

SCHEDULE 4 - CAPITAL IMPROVEMENT PROJECTS

Priority	Number	Description	Project Type	Asset Type		Funding Type					Prior Through FY 12	Projected FY 10	Projected FY 11	Projected FY 12	Budget FY 13	Projected FY 14	Projected FY 15	Projected FY 16	Projected FY 17	Projected FY 18	Projected FY 19	Projected FY 20	Total FY 13-20
						Wastewater			Septage														
						Non-Growth User Rate	Growth Major Facilities Fee	Benefit Assessment	Non-Growth Hauling Fees	Growth Major Facilities Fee													
		County Paygo	ME			100%	0%	0%	0%	0%						100,000						100,000	
		County Bonds	ME			100%	0%	0%	0%	0%						400,000						400,000	
		State (Loans)	ME			100%	0%	0%	0%	0%												-	
		Federal (Grants)	ME			100%	0%	0%	0%	0%												-	
		Other	ME			100%	0%	0%	0%	0%												-	
30	55059	Upgrade Mechanics Valley Road Pump Station	ME	0%	0%	100%	0%	0%	0%	0%						100,000	400,000					500,000	
10	55060	Repair Carpenters Point Area Sewer Trenches	SL			100%	0%	0%	0%	0%				479,582								479,582	
		County Paygo	SL			100%	0%	0%	0%	0%				20,418								20,418	
		County Bonds	SL			100%	0%	0%	0%	0%												-	
		State (Loans)	SL			100%	0%	0%	0%	0%												-	
		Federal (Grants)	SL			100%	0%	0%	0%	0%												-	
		Other	SL			100%	0%	0%	0%	0%												-	
10	55060	Repair Carpenters Point Area Sewer Trenches	SL	0%	0%	0%	100%	0%	0%	0%				500,000								500,000	
11	55061	Inflow & Infiltration - Port Deposit	TP			100%	0%	0%	0%	0%				100,000	220,000	600,000	550,000	545,000				2,015,000	
		County Paygo	TP			100%	0%	0%	0%	0%												-	
		County Bonds	TP			100%	0%	0%	0%	0%												-	
		State (Loans)	TP			100%	0%	0%	0%	0%												-	
		Federal (Grants)	TP			100%	0%	0%	0%	0%												-	
		Other	TP			100%	0%	0%	0%	0%												-	
11	55061	Inflow & Infiltration - Port Deposit	TP	0%	0%	100%	0%	0%	0%	0%				100,000	220,000	600,000	550,000	545,000				2,015,000	
17	55062	I&I Meadowview, Cherry Hill, Highlands	SL			100%	0%	0%	0%	0%				100,000	100,000				500,000			700,000	
		County Paygo	SL			100%	0%	0%	0%	0%												-	
		County Bonds	SL			100%	0%	0%	0%	0%												-	
		State (Loans)	SL			100%	0%	0%	0%	0%												-	
		Federal (Grants)	SL			100%	0%	0%	0%	0%												-	
		Other	SL			100%	0%	0%	0%	0%												-	
17	55062	I&I Meadowview, Cherry Hill, Highlands	SL	0%	0%	0%	100%	0%	0%	0%				100,000	100,000				500,000			700,000	
7	55064	Construct Elkton West Sanitary Sewer Sub.	TP			0%	100%	0%	0%	0%				300,000	8,300,000	3,000,000		2,000,000				13,300,000	
		County Paygo	TP			0%	100%	0%	0%	0%												-	
		County Bonds	TP			0%	100%	0%	0%	0%												-	
		State (Loans)	TP			0%	100%	0%	0%	0%												-	
		Federal (Grants)	TP			0%	100%	0%	0%	0%												-	
		Other	TP			0%	100%	0%	0%	0%												-	
7	55064	Construct Elkton West Sanitary Sewer Sub.	TP	0%	0%	100%	0%	0%	0%	0%				300,000	8,300,000	3,000,000		2,000,000				13,600,000	
14	55065	Upgrade Meadowview Sewer Collection System, Ph. 4 and 5	SL			100%	0%	0%	0%	0%					200,000	50,000						250,000	
		County Paygo	SL			100%	0%	0%	0%	0%						1,000,000						1,000,000	
		County Bonds	SL			100%	0%	0%	0%	0%												-	
		State (Loans)	SL			100%	0%	0%	0%	0%												-	
		Federal (Grants)	SL			100%	0%	0%	0%	0%												-	
		Other	SL			100%	0%	0%	0%	0%												-	
14	55065	Upgrade Meadowview Sewer Collection System, Ph. 4 and 5	SL	0%	0%	0%	100%	0%	0%	0%					200,000	1,050,000						1,250,000	
31	55066	Replace CSX Sewer Line at Red Toad Road	SL			100%	0%	0%	0%	0%							105,000					105,000	
		County Paygo	SL			100%	0%	0%	0%	0%												-	
		County Bonds	SL			100%	0%	0%	0%	0%												150,000	
		State (Loans)	SL			100%	0%	0%	0%	0%												150,000	
		Federal (Grants)	SL			100%	0%	0%	0%	0%												-	
		Other	SL			100%	0%	0%	0%	0%												-	
31	55066	Replace CSX Sewer Line at Red Toad Road	SL	0%	0%	0%	50%	0%	0%	0%							105,000	300,000				405,000	
19	55067	Construct Cherry Hill to Meadowview Sewer Intercept	SL			0%	100%	0%	0%	0%								800,000	6,000,000			6,800,000	
		County Paygo	SL			0%	100%	0%	0%	0%												-	
		County Bonds	SL			0%	100%	0%	0%	0%												-	
		State (Loans)	SL			0%	100%	0%	0%	0%												-	
		Federal (Grants)	SL			0%	100%	0%	0%	0%												-	
		Other	SL			0%	100%	0%	0%	0%												-	
19	55067	Construct Cherry Hill to Meadowview Sewer Intercept	SL	0%	0%	50%	50%	0%	100%	0%									800,000	6,000,000		6,800,000	
1	55068	Replace Backup Generator at NERAWWTP	TP			100%	0%	0%	0%	0%				118,956								118,956	
		County Paygo	TP			100%	0%	0%	0%	0%												-	
		County Bonds	TP			100%	0%	0%	0%	0%												173,427	
		State (Loans)	TP			100%	0%	0%	0%	0%												-	
		Federal (Grants)	TP			100%	0%	0%	0%	0%												-	
		Other	TP			100%	0%	0%	0%	0%												-	
1	55068	Replace Backup Generator at NERAWWTP	TP	0%	0%	100%	0%	0%	0%	0%				292,383								292,383	
NA		Capital Investment in System for Years Beyond FY 15	SL			100%	0%	0%	0%	0%												-	
		County Paygo	SL			100%	0%	0%	0%	0%												-	
		County Bonds	SL			100%	0%	0%	0%	0%												-	
		State (Loans)	SL			100%	0%	0%	0%	0%												-	
		Federal (Grants)	SL			100%	0%	0%	0%	0%												-	
		Other	SL			100%	0%	0%	0%	0%												-	
NA		Capital Investment in System for Years Beyond FY 15	SL	0%	0%	0%	100%	0%	0%	0%												-	
		County Paygo	SL			100%	0%	0%	0%	0%												-	
		County Bonds	SL			100%	0%	0%	0%	0%												-	
		State (Loans)	SL			100%	0%	0%	0%	0%												-	
		Federal (Grants)	SL			100%	0%	0%	0%	0%												-	
		Other	SL			100%	0%	0%	0%	0%												-	
Total Wastewater Capital Improvements						31%	34%	29%	6%	0%	\$17,791,862	\$-	\$-	\$-	\$4,904,383	\$35,520,000	\$17,476,534	\$7,850,000	\$27,295,000	\$15,375,000	\$12,100,000	\$-	120,520,917

SCHEDULE 4 - CAPITAL IMPROVEMENT PROJECTS

Priority	Number	Description	Project Type	Asset Type	Funding Type					Prior Through FY 12	Projected FY 10	Projected FY 11	Projected FY 12	Budget FY 13	Projected FY 14	Projected FY 15	Projected FY 16	Projected FY 17	Projected FY 18	Projected FY 19	Projected FY 20	Total FY 13-20
					Wastewater			Septage														
					Non-Growth User Rate	Growth Major Facilities Fee	Benefit Assessment	Non-Growth Hauling Fees	Growth Major Facilities Fee													
		County Paygo							8,714,123	-	-	-	1,660,538	520,000	1,635,000	3,950,000	2,745,000	875,000	1,100,000	-	12,485,538	
		County Bonds							1,850,000	-	-	-	743,845	10,800,000	4,000,000	2,900,000	10,650,000	14,500,000	500,000	-	44,093,845	
		State (Loans)							3,835,666	-	-	-	-	17,700,000	11,841,534	1,000,000	13,900,000	-	10,500,000	-	54,941,534	
		Federal (Grants)							3,392,073	-	-	-	-	-	-	-	-	-	-	-	-	
		Other							-	-	-	-	2,500,000	6,500,000	-	-	-	-	-	-	9,000,000	
Capital Projects by Project Type																						
Non-Growth																						
		Treatment Plants	TP						440,000	-	-	-	2,120,883	11,375,000	6,370,767	4,050,000	545,000	-	-	-	24,461,650	
		Pump Stations	PS						700,000	-	-	-	-	-	12,000	140,000	-	-	-	-	152,000	
		Machinery & Equipment	ME						-	-	-	-	-	225,000	1,150,000	-	-	-	-	-	1,375,000	
		Sewer Lines	SL						6,005,612	-	-	-	600,000	2,175,000	1,140,000	105,000	1,580,000	500,000	-	-	6,100,000	
		Subtotal Non-Growth							\$ 7,145,612	\$ -	\$ -	\$ -	\$ 2,720,883	\$13,550,000	\$ 7,747,767	\$ 5,445,000	\$ 2,125,000	\$ 500,000	\$ -	\$ -	\$ 32,088,650	
Growth																						
		Treatment Plants	TP						1,760,000	-	-	-	1,894,800	19,240,000	7,406,614	550,000	2,950,000	200,000	-	-	32,241,414	
		Pump Stations	PS						-	-	-	-	-	-	18,000	210,000	-	-	-	-	228,000	
		Machinery & Equipment	ME						-	-	-	-	-	-	-	-	-	-	-	-	-	
		Sewer Lines	SL						4,961,250	-	-	-	-	625,000	1,180,000	1,615,000	21,620,000	14,543,750	3,025,000	-	42,608,750	
		Subtotal Growth							\$ 6,721,250	\$ -	\$ -	\$ -	\$ 1,894,800	\$19,865,000	\$ 8,604,614	\$ 2,375,000	\$24,570,000	\$14,743,750	\$ 3,025,000	\$ -	\$ 75,078,164	
		Total Capital Projects by Project Type							\$13,866,862	\$ -	\$ -	\$ -	\$ 4,615,683	\$33,415,000	\$16,352,381	\$ 7,820,000	\$26,695,000	\$15,243,750	\$ 3,025,000	\$ -	\$ 107,166,814	
Capital Projects by Asset Type																						
Non-Growth																						
		Autos	AU						-	-	-	-	-	-	-	-	-	-	-	-	-	
		Buildings	BL						45,643	-	-	-	-	-	-	-	-	-	-	-	-	
		Machinery & Equipment	ME						1,257,857	-	-	-	2,120,883	12,125,000	6,652,767	5,340,000	1,185,000	-	-	-	27,423,650	
		Sewer Lines	SL						5,842,112	-	-	-	600,000	1,425,000	1,095,000	52,500	790,000	500,000	-	-	4,462,500	
		Subtotal Non-Growth							\$ 7,145,612	\$ -	\$ -	\$ -	\$ 2,720,883	\$13,550,000	\$ 7,747,767	\$ 5,392,500	\$ 1,975,000	\$ 500,000	\$ -	\$ -	\$ 31,886,150	
Growth																						
		Autos	AU						-	-	-	-	-	-	-	-	-	-	-	-	-	
		Buildings	BL						182,573	-	-	-	-	-	-	-	-	-	-	167,288	-	
		Machinery & Equipment	ME						1,631,927	-	-	-	1,894,800	19,490,000	7,830,977	686,011	8,662,016	3,209,211	501,864	-	42,274,880	
		Sewer Lines	SL						4,906,750	-	-	-	-	375,000	773,636	1,688,989	15,907,984	11,534,539	2,355,848	-	32,635,996	
		Subtotal Growth							\$ 6,721,250	\$ -	\$ -	\$ -	\$ 1,894,800	\$19,865,000	\$ 8,604,614	\$ 2,375,000	\$24,570,000	\$14,743,750	\$ 3,025,000	\$ -	\$ 75,078,164	
		Total Capital Projects by Asset Type							\$13,866,862	\$ -	\$ -	\$ -	\$ 4,615,683	\$33,415,000	\$16,352,381	\$ 7,767,500	\$26,545,000	\$15,243,750	\$ 3,025,000	\$ -	\$ 106,964,314	
Capital Projects by Funding Type																						
Non-Growth																						
		County Paygo							4,571,566	-	-	-	1,167,038	520,000	1,187,000	1,545,000	545,000	500,000	-	-	5,464,038	
		County Bonds							490,000	-	-	-	303,845	1,875,000	1,000,000	2,900,000	150,000	-	-	-	6,228,845	
		State (Loans)							2,084,046	-	-	-	-	7,905,000	5,560,767	1,000,000	1,430,000	-	-	-	15,895,767	
		Federal (Grants)							-	-	-	-	-	-	-	-	-	-	-	-	-	
		Other							-	-	-	-	1,250,000	3,250,000	-	-	-	-	-	-	4,500,000	
		Subtotal Non-Growth							\$ 7,145,612	\$ -	\$ -	\$ -	\$ 2,720,883	\$13,550,000	\$ 7,747,767	\$ 5,445,000	\$ 2,125,000	\$ 500,000	\$ -	\$ -	\$ 32,088,650	
Growth																						
		County Paygo							2,532,219	-	-	-	454,800	-	418,000	1,600,000	243,750	275,000	-	-	5,366,550	
		County Bonds							1,360,000	-	-	-	440,000	8,925,000	3,000,000	-	10,500,000	14,500,000	125,000	-	37,490,000	
		State (Loans)							963,391	-	-	-	-	8,340,000	5,186,614	-	12,470,000	-	2,625,000	-	28,621,614	
		Federal (Grants)							1,865,640	-	-	-	-	-	-	-	-	-	-	-	-	
		Other							-	-	-	-	1,000,000	2,600,000	-	-	-	-	-	-	3,600,000	
		Subtotal Growth							\$ 6,721,250	\$ -	\$ -	\$ -	\$ 1,894,800	\$19,865,000	\$ 8,604,614	\$ 2,375,000	\$24,570,000	\$14,743,750	\$ 3,025,000	\$ -	\$ 75,078,164	
		Total Capital Projects by Funding Type							\$13,866,862	\$ -	\$ -	\$ -	\$ 4,615,683	\$33,415,000	\$16,352,381	\$ 7,820,000	\$26,695,000	\$15,243,750	\$ 3,025,000	\$ -	\$ 107,166,814	

SCHEDULE 4 - CAPITAL IMPROVEMENT PROJECTS

Priority	Number	Description	Project Type	Asset Type	Funding Type						Prior Through FY 12	Projected FY 10	Projected FY 11	Projected FY 12	Budget FY 13	Projected FY 14	Projected FY 15	Projected FY 16	Projected FY 17	Projected FY 18	Projected FY 19	Projected FY 20	Total FY 13-20
					Wastewater			Septage															
					Non-Growth User Rate	Growth Major Facilities Fee	Benefit Assessment	Non-Growth Hauling Fees	Growth Major Facilities Fee														
FOR MAJOR FACILITIES FEES																							
		Wastewater Growth Treatment Plants																					
		County Paygo	TP						400,000	-	-	-	454,800	-	30,000	550,000	-	200,000	-	-	1,234,800		
		County Bonds	TP						1,360,000	-	-	-	440,000	8,300,000	3,000,000	-	2,000,000	-	-	-	13,740,000		
		State (Loans)	TP						-	-	-	-	-	8,340,000	4,376,614	-	950,000	-	-	-	13,666,614		
		Federal (Grants)	TP						-	-	-	-	-	-	-	-	-	-	-	-	-		
		Other	TP						-	-	-	-	1,000,000	2,600,000	-	-	-	-	-	-	3,600,000		
		Subtotal Wastewater Growth Treatment Plants							\$ 1,760,000	\$ -	\$ -	\$ -	\$ 1,894,800	\$19,240,000	\$ 7,406,614	\$ 550,000	\$ 2,950,000	\$ 200,000	\$ -	\$ -	\$ 32,241,414		
		Wastewater Growth Sewer Lines																					
		County Paygo	SL						2,132,219	-	-	-	-	-	370,000	1,615,000	1,600,000	43,750	275,000	-	3,903,750		
		County Bonds	SL						-	-	-	-	-	625,000	-	8,500,000	14,500,000	125,000	-	-	23,750,000		
		State (Loans)	SL						963,391	-	-	-	-	-	810,000	-	11,520,000	-	2,625,000	-	14,955,000		
		Federal (Grants)	SL						1,865,640	-	-	-	-	-	-	-	-	-	-	-	-		
		Other	SL						-	-	-	-	-	-	-	-	-	-	-	-	-		
		Subtotal Wastewater Growth Sewer Lines							\$ 4,961,250	\$ -	\$ -	\$ -	\$ -	\$ 625,000	\$ 1,180,000	\$ 1,615,000	\$21,620,000	\$14,543,750	\$ 3,025,000	\$ -	\$ 42,608,750		
		Wastewater Growth Pump Stations																					
		County Paygo	PS						-	-	-	-	-	-	18,000	210,000	-	-	-	-	228,000		
		County Bonds	PS						-	-	-	-	-	-	-	-	-	-	-	-	-		
		State (Loans)	PS						-	-	-	-	-	-	-	-	-	-	-	-	-		
		Federal (Grants)	PS						-	-	-	-	-	-	-	-	-	-	-	-	-		
		Other	PS						-	-	-	-	-	-	-	-	-	-	-	-	-		
		Subtotal Wastewater Growth Pump Stations							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,000	\$ 210,000	\$ -	\$ -	\$ -	\$ -	\$ 228,000		
		Wastewater Growth Machinery & Equipment																					
		County Paygo	ME						-	-	-	-	-	-	-	-	-	-	-	-	-		
		County Bonds	ME						-	-	-	-	-	-	-	-	-	-	-	-	-		
		State (Loans)	ME						-	-	-	-	-	-	-	-	-	-	-	-	-		
		Federal (Grants)	ME						-	-	-	-	-	-	-	-	-	-	-	-	-		
		Other	ME						-	-	-	-	-	-	-	-	-	-	-	-	-		
		Subtotal Wastewater Growth Machinery & Equipment							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
		Septage Growth																					
		County Paygo							-	-	-	-	-	-	-	-	-	-	-	-	-		
		County Bonds							-	-	-	-	-	-	-	-	-	-	-	-	-		
		State (Loans)							-	-	-	-	-	-	-	-	-	-	-	-	-		
		Federal (Grants)							-	-	-	-	-	-	-	-	-	-	-	-	-		
		Other							-	-	-	-	-	-	-	-	-	-	-	-	-		
		Subtotal Septage Growth							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
FOR BENEFIT ASSESSMENT FEES																							
		Wastewater Growth																					
		County Paygo							1,510,338	-	-	-	-	-	30,000	30,000	600,000	131,250	825,000	-	1,616,250		
		County Bonds							-	-	-	-	-	-	-	-	-	-	375,000	-	375,000		
		State (Loans)							788,229	-	-	-	-	-	-	-	-	-	7,875,000	-	7,875,000		
		Federal (Grants)							1,526,433	-	-	-	-	-	-	-	-	-	-	-	-		
		Other							-	-	-	-	-	-	-	-	-	-	-	-	-		
		Subtotal Wastewater Growth							\$ 3,825,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,000	\$ 30,000	\$ 600,000	\$ 131,250	\$ 9,075,000	\$ -	\$ 9,866,250		
FOR SEPTIC HAULING FEES																							
		Septage Non-Growth																					
		County Paygo							100,000	-	-	-	38,700	-	-	-	-	-	-	-	38,700		
		County Bonds							-	-	-	-	-	-	-	-	-	-	-	-	-		
		State (Loans)							-	-	-	-	-	1,455,000	1,094,153	-	-	-	-	-	2,549,153		
		Federal (Grants)							-	-	-	-	-	-	-	-	-	-	-	-	-		
		Other							-	-	-	-	250,000	650,000	-	-	-	-	-	-	900,000		
		Subtotal Septage Non-Growth							\$ 100,000	\$ -	\$ -	\$ -	\$ 288,700	\$ 2,105,000	\$ 1,094,153	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,487,853		

Source: 2014 Requested CIP 1-23-2013 with Detail.pdf, page 117-150

SCHEDULE 5A - PROJECTED DEBT SERVICE - NON-GROWTH

WASTEWATER	Total	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
COUNTY BONDS												
Non-Growth Projected Debt	\$ 6,228,845	\$ -	\$ -	\$ -	\$ 303,845	\$ 1,875,000	\$ 1,000,000	\$ 2,900,000	\$ 150,000	\$ -	\$ -	\$ -
Bond Issue Timing	\$ 6,228,845	\$ -	\$ -	\$ -	\$ 2,178,845	\$ 3,900,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -
Administrative Costs (% of debt service)		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Administrative Costs Subtotal	\$ -	\$ -	\$ -	\$ -	\$ 108,942	\$ -	\$ 195,000	\$ -	\$ 7,500	\$ -	\$ -	\$ -
Total Debt	\$ -	\$ -	\$ -	\$ -	\$ 2,287,787	\$ -	\$ 4,095,000	\$ -	\$ 157,500	\$ -	\$ -	\$ -
Debt Service												
Interest Rate		4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Period (years)		20	20	20	20	20	20	20	20	20	20	20
Total Debt Service by Fiscal Year*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 168,339	\$ -	\$ 301,317	\$ -	\$ 11,589	\$ -	\$ -

*Payments start the year following debt issuance

Wastewater Non-Growth Debt Service Payment Schedule

Payment	FY 10	\$ -	-	-	-	-	-	-	-	-	-	-
Interest		\$ -	-	-	-	-	-	-	-	-	-	-
Principal		\$ -	-	-	-	-	-	-	-	-	-	-
Balance		\$ -	-	-	-	-	-	-	-	-	-	-
Payment	FY 11		\$ -	-	-	-	-	-	-	-	-	-
Interest			\$ -	-	-	-	-	-	-	-	-	-
Principal			\$ -	-	-	-	-	-	-	-	-	-
Balance			\$ -	-	-	-	-	-	-	-	-	-
Payment	FY 12			\$ -	-	-	-	-	-	-	-	-
Interest				\$ -	-	-	-	-	-	-	-	-
Principal				\$ -	-	-	-	-	-	-	-	-
Balance				\$ -	-	-	-	-	-	-	-	-
Payment	FY 13				\$ -	-	-	-	-	-	-	-
Interest					\$ -	-	-	-	-	-	-	-
Principal					\$ -	-	-	-	-	-	-	-
Balance					\$ -	-	-	-	-	-	-	-
Payment	FY 14					\$ 168,339	168,339	168,339	168,339	168,339	168,339	168,339
Interest						\$ 91,511	88,438	85,242	81,918	78,462	74,867	71,128
Principal						\$ 76,828	79,901	83,097	86,421	89,878	93,473	97,212
Balance						\$ 2,210,959	2,131,058	2,047,961	1,961,540	1,871,663	1,778,190	1,680,978
Payment	FY 15						\$ -	-	-	-	-	-
Interest							\$ -	-	-	-	-	-
Principal							\$ -	-	-	-	-	-
Balance							\$ -	-	-	-	-	-
Payment	FY 16							\$ 301,317	301,317	301,317	301,317	301,317
Interest								\$ 163,800	158,299	152,579	146,629	140,442
Principal								\$ 137,517	143,018	148,739	154,688	160,876
Balance								\$ 3,957,483	3,814,465	3,665,726	3,511,038	3,350,162
Payment	FY 17								\$ -	-	-	-
Interest									\$ -	-	-	-
Principal									\$ -	-	-	-
Balance									\$ -	-	-	-
Payment	FY 18								\$ 11,589	11,589	11,589	11,589
Interest									\$ 6,300	6,088	5,868	5,648
Principal									\$ 5,289	5,501	5,721	5,941
Balance									\$ 152,211	146,710	140,989	135,288
Payment	FY 19									\$ -	-	-
Interest										\$ -	-	-
Principal										\$ -	-	-
Balance										\$ -	-	-
Payment	FY 20										\$ -	-
Interest											\$ -	-
Principal											\$ -	-
Balance											\$ -	-

Total Non-Growth Wastewater Projected Annual Debt Service

Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 168,339	\$ 168,339	\$ 469,657	\$ 469,657	\$ 481,246	\$ 481,246	\$ 481,246
Interest	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 91,511	\$ 88,438	\$ 249,042	\$ 240,218	\$ 237,340	\$ 227,584	\$ 217,438
Principal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 76,828	\$ 79,901	\$ 220,614	\$ 229,439	\$ 243,906	\$ 253,662	\$ 263,808
Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,210,959	\$ 2,131,058	\$ 6,005,444	\$ 5,776,005	\$ 5,689,600	\$ 5,435,938	\$ 5,172,129

SCHEDULE 5A - PROJECTED DEBT SERVICE - NON-GROWTH

WASTEWATER	Total	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
STATE BORROWING												
Non-Growth Projected Debt	\$ 15,895,767	\$ -	\$ -	\$ -	\$ -	\$ 7,905,000	\$ 5,560,767	\$ 1,000,000	\$ 1,430,000	\$ -	\$ -	\$ -
Bond Issue Timing	\$ 15,895,767	\$ -	\$ -	\$ -	\$ 7,905,000	\$ -	\$ 6,560,767	\$ -	\$ 1,430,000	\$ -	\$ -	\$ -
Administrative Costs (% of debt service)		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Administrative Costs Subtotal	\$ -	\$ -	\$ -	\$ -	\$ 395,250	\$ -	\$ 328,038	\$ -	\$ 71,500	\$ -	\$ -	\$ -
Total Debt	\$ -	\$ -	\$ -	\$ -	\$ 8,300,250	\$ -	\$ 6,888,805	\$ -	\$ 1,501,500	\$ -	\$ -	\$ -
Debt Service												
Interest Rate		1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Period (years)		20	20	20	20	20	20	20	20	20	20	20
Total Debt Service by Fiscal Year*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 507,616	\$ -	\$ 421,297	\$ -	\$ 91,827	\$ -	\$ -

*Payments start the year following debt issuance

Wastewater Non-Growth Debt Service Payment Schedule

Payment	FY 10	\$ -	-	-	-	-	-	-	-	-	-	-
Interest		\$ -	-	-	-	-	-	-	-	-	-	-
Principal		\$ -	-	-	-	-	-	-	-	-	-	-
Balance		\$ -	-	-	-	-	-	-	-	-	-	-
Payment	FY 11		\$ -	-	-	-	-	-	-	-	-	-
Interest			\$ -	-	-	-	-	-	-	-	-	-
Principal			\$ -	-	-	-	-	-	-	-	-	-
Balance			\$ -	-	-	-	-	-	-	-	-	-
Payment	FY 12			\$ -	-	-	-	-	-	-	-	-
Interest				\$ -	-	-	-	-	-	-	-	-
Principal				\$ -	-	-	-	-	-	-	-	-
Balance				\$ -	-	-	-	-	-	-	-	-
Payment	FY 13				\$ -	-	-	-	-	-	-	-
Interest					\$ -	-	-	-	-	-	-	-
Principal					\$ -	-	-	-	-	-	-	-
Balance					\$ -	-	-	-	-	-	-	-
Payment	FY 14					\$ 507,616	507,616	507,616	507,616	507,616	507,616	507,616
Interest						\$ 166,005	159,173	152,204	145,096	137,845	130,450	122,907
Principal						\$ 341,611	348,443	355,412	362,520	369,771	377,166	384,710
Balance						\$ 7,958,639	7,610,196	7,254,784	6,892,263	6,522,492	6,145,326	5,760,617
Payment	FY 15						\$ -	-	-	-	-	-
Interest							\$ -	-	-	-	-	-
Principal							\$ -	-	-	-	-	-
Balance							\$ -	-	-	-	-	-
Payment	FY 16							\$ 421,297	421,297	421,297	421,297	421,297
Interest								\$ 137,776	132,106	126,322	120,422	114,405
Principal								\$ 283,521	289,191	294,975	300,874	306,892
Balance								\$ 6,605,285	6,316,094	6,021,119	5,720,244	5,413,353
Payment	FY 17								\$ -	-	-	-
Interest									\$ -	-	-	-
Principal									\$ -	-	-	-
Balance									\$ -	-	-	-
Payment	FY 18								\$ 91,827	91,827	91,827	91,827
Interest									\$ 30,030	28,794	27,533	26,485
Principal									\$ 61,797	63,033	64,293	64,293
Balance									\$ 1,439,703	1,376,670	1,312,377	1,248,346
Payment	FY 19									\$ -	-	-
Interest										\$ -	-	-
Principal										\$ -	-	-
Balance										\$ -	-	-
Payment	FY 20											\$ -
Interest												\$ -
Principal												\$ -
Balance												\$ -

Total Non-Growth Wastewater Projected Annual Debt Service

Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 507,616	\$ 507,616	\$ 928,913	\$ 928,913	\$ 1,020,740	\$ 1,020,740	\$ 1,020,740
Interest	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 166,005	\$ 159,173	\$ 289,980	\$ 277,201	\$ 294,197	\$ 279,666	\$ 264,845
Principal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 341,611	\$ 348,443	\$ 638,933	\$ 651,711	\$ 726,542	\$ 741,073	\$ 755,895
Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,958,639	\$ 7,610,196	\$ 13,860,068	\$ 13,208,357	\$ 13,983,314	\$ 13,242,241	\$ 12,486,346

SCHEDULE 5B - PROJECTED DEBT SERVICE - GROWTH

WASTEWATER	Total	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
COUNTY BONDS												
Growth Projected Debt	\$ 37,490,000	\$ -	\$ -	\$ -	\$ 440,000	\$ 8,925,000	\$ 3,000,000	\$ -	\$ 10,500,000	\$ 14,500,000	\$ 125,000	\$ -
Bond Issue Timing	\$ 37,490,000	\$ -	\$ -	\$ -	\$ 9,365,000	\$ 3,000,000	\$ -	\$ 25,000,000	\$ -	\$ 125,000	\$ -	\$ -
Administrative Costs (% of principal)		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Administrative Costs Subtotal	\$ -	\$ -	\$ -	\$ -	\$ 468,250	\$ -	\$ 150,000	\$ -	\$ 1,250,000	\$ -	\$ 6,250	\$ -
Total Principal	\$ -	\$ -	\$ -	\$ -	\$ 9,833,250	\$ -	\$ 3,150,000	\$ -	\$ 26,250,000	\$ -	\$ 131,250	\$ -
Debt Service												
Interest Rate		4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Period (years)		20	20	20	20	20	20	20	20	20	20	20
Total Debt Service by Fiscal Year*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 723,548	\$ -	\$ 231,783	\$ -	\$ 1,931,521	\$ -	\$ 9,658

*Payments start the year following debt issuance

Wastewater Growth Debt Service Payment Schedule

Payment	FY 10	\$ -	-	-	-	-	-	-	-	-	-	-
Interest		\$ -	-	-	-	-	-	-	-	-	-	-
Principal		\$ -	-	-	-	-	-	-	-	-	-	-
Balance		\$ -	-	-	-	-	-	-	-	-	-	-
Payment	FY 11		\$ -	-	-	-	-	-	-	-	-	-
Interest			\$ -	-	-	-	-	-	-	-	-	-
Principal			\$ -	-	-	-	-	-	-	-	-	-
Balance			\$ -	-	-	-	-	-	-	-	-	-
Payment	FY 12			\$ -	-	-	-	-	-	-	-	-
Interest				\$ -	-	-	-	-	-	-	-	-
Principal				\$ -	-	-	-	-	-	-	-	-
Balance				\$ -	-	-	-	-	-	-	-	-
Payment	FY 13				\$ -	-	-	-	-	-	-	-
Interest					\$ -	-	-	-	-	-	-	-
Principal					\$ -	-	-	-	-	-	-	-
Balance					\$ -	-	-	-	-	-	-	-
Payment	FY 14					\$ 723,548	723,548	723,548	723,548	723,548	723,548	723,548
Interest						\$ 393,330	380,121	366,384	352,098	337,240	321,787	305,717
Principal						\$ 330,218	343,426	357,164	371,450	386,308	401,760	417,831
Balance						\$ 9,503,032	9,159,606	8,802,442	8,430,992	8,044,684	7,642,924	7,225,093
Payment	FY 15						\$ -	-	-	-	-	-
Interest							\$ -	-	-	-	-	-
Principal							\$ -	-	-	-	-	-
Balance							\$ -	-	-	-	-	-
Payment	FY 16							\$ 231,783	231,783	231,783	231,783	231,783
Interest								\$ 126,000	121,769	117,368	112,792	108,032
Principal								\$ 105,783	110,014	114,414	118,991	123,751
Balance								\$ 3,044,217	2,934,204	2,819,789	2,700,798	2,577,048
Payment	FY 17								\$ -	-	-	-
Interest									\$ -	-	-	-
Principal									\$ -	-	-	-
Balance									\$ -	-	-	-
Payment	FY 18								\$ 1,931,521	1,931,521	1,931,521	1,931,521
Interest									\$ 1,050,000	1,014,739	978,068	945,453
Principal									\$ 881,521	916,782	953,453	986,068
Balance									\$ 25,368,479	24,451,697	23,498,244	22,544,711
Payment	FY 19									\$ -	-	-
Interest										\$ -	-	-
Principal										\$ -	-	-
Balance										\$ -	-	-
Payment	FY 20											\$ 9,658
Interest												\$ 5,250
Principal												\$ 4,408
Balance												\$ 126,842

Total Growth Wastewater Projected Annual Debt Service

Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 723,548	\$ 723,548	\$ 955,330	\$ 955,330	\$ 2,886,851	\$ 2,886,851	\$ 2,896,509
Interest	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 393,330	\$ 380,121	\$ 492,384	\$ 473,866	\$ 1,504,608	\$ 1,449,318	\$ 1,397,067
Principal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 330,218	\$ 343,426	\$ 462,946	\$ 481,464	\$ 1,382,243	\$ 1,437,533	\$ 1,499,442
Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,503,032	\$ 9,159,606	\$ 11,846,660	\$ 11,365,196	\$ 36,232,953	\$ 34,795,419	\$ 33,427,227

SCHEDULE 5B - PROJECTED DEBT SERVICE - GROWTH

WASTEWATER	Total	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
STATE BORROWING												
Growth Projected Debt	\$ 28,621,614	\$ -	\$ -	\$ -	\$ -	\$ 8,340,000	\$ 5,186,614	\$ -	\$ 12,470,000	\$ -	\$ 2,625,000	\$ -
Bond Issue Timing	\$ 28,621,614	\$ -	\$ -	\$ -	\$ 8,340,000	\$ 5,186,614	\$ -	\$ 12,470,000	\$ -	\$ 2,625,000	\$ -	\$ -
Administrative Costs (% of principal)		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Administrative Costs Subtotal	\$ -	\$ -	\$ -	\$ -	\$ 417,000	\$ -	\$ 259,331	\$ -	\$ 623,500	\$ -	\$ 131,250	\$ -
Total Principal	\$ -	\$ -	\$ -	\$ -	\$ 8,757,000	\$ -	\$ 5,445,944	\$ -	\$ 13,093,500	\$ -	\$ 2,756,250	\$ -
Debt Service												
Interest Rate		1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Period (years)		20	20	20	20	20	20	20	20	20	20	20
Total Debt Service by Fiscal Year*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 535,549	\$ -	\$ 333,056	\$ -	\$ 800,755	\$ -	\$ 168,563

*Payments start the year following debt issuance

Wastewater Growth Debt Service Payment Schedule

Payment	FY 10	\$ -	-	-	-	-	-	-	-	-	-	-
Interest		\$ -	-	-	-	-	-	-	-	-	-	-
Principal		\$ -	-	-	-	-	-	-	-	-	-	-
Balance		\$ -	-	-	-	-	-	-	-	-	-	-
Payment	FY 11		\$ -	-	-	-	-	-	-	-	-	-
Interest			\$ -	-	-	-	-	-	-	-	-	-
Principal			\$ -	-	-	-	-	-	-	-	-	-
Balance			\$ -	-	-	-	-	-	-	-	-	-
Payment	FY 12			\$ -	-	-	-	-	-	-	-	-
Interest				\$ -	-	-	-	-	-	-	-	-
Principal				\$ -	-	-	-	-	-	-	-	-
Balance				\$ -	-	-	-	-	-	-	-	-
Payment	FY 13				\$ -	-	-	-	-	-	-	-
Interest					\$ -	-	-	-	-	-	-	-
Principal					\$ -	-	-	-	-	-	-	-
Balance					\$ -	-	-	-	-	-	-	-
Payment	FY 14					\$ 535,549	535,549	535,549	535,549	535,549	535,549	535,549
Interest						\$ 175,140	167,932	160,579	153,080	145,431	137,628	129,670
Principal						\$ 360,409	367,618	374,970	382,469	390,119	397,921	405,880
Balance						\$ 8,396,591	8,028,973	7,654,003	7,271,534	6,881,415	6,483,494	6,077,615
Payment	FY 15						\$ -	-	-	-	-	-
Interest							\$ -	-	-	-	-	-
Principal							\$ -	-	-	-	-	-
Balance							\$ -	-	-	-	-	-
Payment	FY 16							\$ 333,056	333,056	333,056	333,056	333,056
Interest								\$ 108,919	104,436	99,864	95,200	90,443
Principal								\$ 224,137	228,620	233,192	237,856	242,613
Balance								\$ 5,221,807	4,993,187	4,759,995	4,522,139	4,279,525
Payment	FY 17								\$ -	-	-	-
Interest									\$ -	-	-	-
Principal									\$ -	-	-	-
Balance									\$ -	-	-	-
Payment	FY 18								\$ 800,755	800,755	800,755	800,755
Interest									\$ 261,870	251,092	240,099	240,099
Principal									\$ 538,885	549,663	560,656	560,656
Balance									\$ 12,554,615	12,004,951	11,444,295	11,444,295
Payment	FY 19									\$ -	-	-
Interest										\$ -	-	-
Principal										\$ -	-	-
Balance										\$ -	-	-
Payment	FY 20											\$ 168,563
Interest												\$ 55,125
Principal												\$ 113,438
Balance												\$ 2,642,812

Total Growth Wastewater Projected Annual Debt Service

Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 535,549	\$ 535,549	\$ 868,605	\$ 868,605	\$ 1,669,361	\$ 1,669,361	\$ 1,837,924
Interest	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 175,140	\$ 167,932	\$ 269,498	\$ 257,516	\$ 507,164	\$ 483,920	\$ 515,337
Principal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 360,409	\$ 367,618	\$ 599,107	\$ 611,089	\$ 1,162,197	\$ 1,185,440	\$ 1,322,587
Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,396,591	\$ 8,028,973	\$ 12,875,810	\$ 12,264,721	\$ 24,196,024	\$ 23,010,584	\$ 24,444,246

SCHEDULE 6 - OPERATING AND MAINTENANCE RESERVE

WASTEWATER	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Wastewater O&M Expenses	2,127,138	2,570,261	2,930,859	2,784,509	2,840,470	2,866,856	3,140,541	2,981,927	3,130,520	3,334,440
Number of Days of O&M Expenses	90	90	90	90	90	90	90	90	90	90
Target Balance	524,500	633,763	722,678	686,591	700,390	706,896	774,380	735,270	771,909	822,191
Beginning Cash Balance (includes Capital Cash)	4,670,911	1,396,445	4,296,716	4,803,695	5,734,300	6,848,061	6,711,481	11,741,885	12,520,700	14,077,442
Wastewater O&M Reserve Contribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Less Reserve Withdrawal										

SCHEDULE 7 - REPAIR, RENEWAL AND REPLACEMENT RESERVE (3R RESERVE)

	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
WASTEWATER											
Planned Reinvestment											
Buildings	-	-	-	-	-	-	-	-	-	-	-
Machinery & Equipment	-	-	-	2,120,883	12,125,000	6,652,767	5,340,000	1,185,000	-	-	-
Sewer Lines	-	-	-	600,000	1,425,000	1,095,000	52,500	790,000	500,000	-	-
Total Planned Reinvestment	\$ -	\$ -	\$ -	\$ 2,720,883	\$ 13,550,000	\$ 7,747,767	\$ 5,392,500	\$ 1,975,000	\$ 500,000	\$ -	\$ -
Replacement Cost											
Buildings	19,979,268	19,979,268	19,979,268	19,979,268	19,979,268	19,979,268	19,979,268	19,979,268	19,979,268	19,979,268	19,979,268
Machinery & Equipment	33,267,712	33,267,712	33,267,712	33,267,712	35,388,595	47,513,595	54,166,362	59,506,362	60,691,362	60,691,362	60,691,362
Sewer Lines	45,034,896	45,034,896	45,034,896	45,034,896	45,634,896	47,059,896	48,154,896	48,207,396	48,997,396	49,497,396	49,497,396
Total Replacement Cost	\$ 98,281,875	\$ 98,281,875	\$ 98,281,875	\$ 98,281,875	\$ 101,002,758	\$ 114,552,758	\$ 122,300,525	\$ 127,693,025	\$ 129,668,025	\$ 130,168,025	\$ 130,168,025
Required Reinvestment											
Buildings	BL	50	2.00%	399,585	399,585	399,585	399,585	399,585	399,585	399,585	399,585
Machinery & Equipment	ME	15	6.67%	2,217,847	2,217,847	2,217,847	2,359,240	3,167,573	3,611,091	3,967,091	4,046,091
Sewer Lines	SL	50	2.00%	900,698	900,698	900,698	912,698	941,198	963,098	964,148	979,948
Total Required Reinvestment				\$ 3,518,131	\$ 3,518,131	\$ 3,518,131	\$ 3,671,523	\$ 4,508,356	\$ 4,973,774	\$ 5,330,824	\$ 5,435,624
				<i>Source: CAFR June 30, 2009, pg 41</i>							
Required Reinvestment less Planned Reinvestment											
Buildings	\$ 399,585	\$ 399,585	\$ 399,585	\$ 399,585	\$ 399,585	\$ 399,585	\$ 399,585	\$ 399,585	\$ 399,585	\$ 399,585	\$ 399,585
Machinery & Equipment	\$ 2,217,847	\$ 2,217,847	\$ 96,964	\$ 96,964	\$ (9,765,760)	\$ (3,485,194)	\$ (1,728,909)	\$ 2,782,091	\$ 4,046,091	\$ 4,046,091	\$ 4,046,091
Sewer Lines	\$ 900,698	\$ 900,698	\$ 300,698	\$ 300,698	\$ (512,302)	\$ (153,802)	\$ 910,598	\$ 174,148	\$ 479,948	\$ 989,948	\$ 989,948
Total Required Reinvestment less Planned Reinvestment	\$ 3,518,131	\$ 3,518,131	\$ 797,248	\$ 797,248	\$ (9,878,477)	\$ (3,239,411)	\$ (418,726)	\$ 3,355,824	\$ 4,925,624	\$ 5,435,624	\$ 5,435,624
Recommended "3R" Reserve Contribution - Wastewater Assets	\$ 1,344,959	\$ 1,344,959	\$ 1,344,959	\$ 1,344,959	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Phase-In of 3R Reserve	0%	0%	0%	0%	20%	40%	60%	80%	100%	100%	100%
Recommended 3R Reserve Contribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Beginning Reserve	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Plus Reserve Contribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Less Reserve Withdrawal											
Ending Reserve	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Percent of System Asset Cost Accumulated	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

SCHEDULE 8A - PRODUCTION-CUSTOMERS
 Source: consumption & revenue.xlsx; Rate Study - Craig.xls

Num	Location	Code	FY 08				Total	FY 09				Total	FY 10				Total	FY 11				Total	FY 12				Total	FY 09 Average	FY 12 Average	
			2007 Q3	2007 Q4	2008 Q1	2008 Q2		2008 Q3	2008 Q4	2009 Q1	2009 Q2		2009 Q3	2009 Q4	2010 Q1	2010 Q2		2010 Q3	2010 Q4	2011 Q1	2011 Q2		2011 Q3	2011 Q4	2012 Q1	2012 Q2				2012 Q3
ACCOUNTS																														
	Residential 0-10,000 Gallons		1,528	1,595	1,747	1,517	1,517	1,744	1,615	1,779	1,684	1,684	1,650	1,672	1,689	1,684	1,684	2,082	2,062	2,080	2,095	2,095	2,126	2,117	2,119	2,102	2,102	1,863	1,974	
	Residential 10,001-99,999,999 Gallons		1,734	1,744	1,607	1,878	1,878	1,669	1,806	1,648	1,785	1,785	1,855	1,773	1,791	1,786	1,786	1,931	1,927	1,939	1,955	1,955	1,983	1,977	1,986	1,970	1,970	1,974	1,974	
	Residential Subtotal		3,262	3,339	3,354	3,395	3,395	3,413	3,421	3,427	3,469	3,469	3,505	3,445	3,479	3,471	3,471	4,014	3,989	4,019	4,050	4,050	4,108	4,094	4,105	4,072	4,072	3,837	3,948	
	Commercial 0-10,000 Gallons		53	54	61	53	53	57	50	67	67	67	62	67	67	67	67	72	72	72	73	73	74	74	74	74	74	74	74	
	Commercial 10,001-99,999,999 Gallons		117	119	123	125	125	119	125	110	121	121	121	119	120	121	121	121	131	131	131	132	132	134	134	135	133	133	134	
	Commercial Subtotal		170	173	184	178	178	176	175	177	188	188	183	187	188	188	188	203	203	204	206	206	209	208	209	207	207	208	208	
	Flat Rate Subtotal		1,265	1,298	1,324	1,344	1,344	1,351	1,362	1,371	1,385	1,385	1,377	1,388	1,405	1,417	1,417	1,431	1,458	1,464	1,465	1,465	1,485	1,491	1,498	1,510	1,510	1,512	1,512	
	Total Accounts		4,697	4,810	4,862	4,917	4,917	4,940	4,958	4,975	5,042	5,042	5,063	5,020	5,073	5,076	5,076	5,648	5,650	5,687	5,721	5,721	5,802	5,793	5,812	5,789	5,789	5,789	5,857	
	USAGE (Gallons)																													
	Residential 0-10,000 Gallons		8,162,668	8,379,702	9,202,080	7,925,148	33,669,598	9,215,225	8,532,026	9,230,436	8,777,409	35,755,096	8,778,180	9,926,851	10,279,290	10,893,710	39,878,031	14,693,130	12,668,808	11,125,789	12,133,515	50,621,242	14,338,971	10,194,752	9,386,986	11,770,962	45,091,671	12,763,772	8,938,774	11,422,918
	Residential 10,001-99,999,999 Gallons		33,064,693	32,241,627	30,150,802	34,861,553	130,318,670	32,849,192	33,640,580	30,094,690	31,745,874	128,327,336	35,464,452	34,343,695	35,659,820	37,410,327	142,878,114	45,602,441	40,463,399	33,925,922	37,476,116	157,467,878	48,813,079	34,494,182	31,418,183	39,911,957	155,117,490	43,054,072	32,081,834	38,784,350
	Residential Subtotal		41,227,361	40,621,329	39,352,882	42,786,701	163,988,268	42,064,417	42,172,606	39,325,126	40,523,283	164,082,432	44,242,632	44,270,455	45,939,110	48,303,947	182,756,145	60,295,571	53,132,207	45,051,711	49,609,631	208,099,120	63,152,049	44,688,933	41,305,169	51,682,920	200,829,071	55,817,845	41,020,608	50,207,268
	Commercial 0-10,000 Gallons		172,040	168,860	191,820	152,390	685,110	151,400	138,327	219,219	216,536	725,482	180,633	175,808	183,981	187,381	727,803	216,066	199,458	156,650	176,331	748,505	238,097	165,074	155,127	192,284	750,582	204,031	181,371	187,646
	Commercial 10,001-99,999,999 Gallons		47,496,923	33,218,628	32,175,263	42,293,919	155,184,713	43,439,881	34,080,270	32,167,065	38,070,305	147,757,521	39,103,475	35,806,404	37,471,132	38,163,431	150,544,442	44,068,839	40,623,273	31,904,995	35,912,941	152,446,647	48,492,663	33,620,301	31,594,471	39,162,114	153,869,640	41,554,087	36,499,380	38,217,410
	Commercial Subtotal		47,668,963	33,387,488	32,367,083	42,446,309	155,869,843	43,591,281	34,218,597	32,386,284	38,286,841	148,483,003	39,284,108	35,982,212	37,651,113	38,350,811	151,272,244	44,221,905	40,822,731	32,061,245	36,089,271	153,195,152	48,730,760	33,785,466	31,749,598	39,354,398	153,620,222	41,758,718	37,120,751	38,405,055
	Total Usage		88,896,324	74,008,812	71,719,965	85,233,010	319,858,111	85,655,698	76,391,203	71,711,410	78,807,124	312,565,435	83,526,740	80,252,667	83,594,224	86,654,759	334,028,389	104,517,476	93,954,938	77,112,956	85,698,902	361,284,272	111,882,809	78,474,399	73,054,767	91,037,318	354,449,293	97,576,563	78,141,359	88,612,323
	Residential Revenue		\$ 295,386	\$ 294,451	\$ 290,963	\$ 305,693	\$ 1,186,493	\$ 307,267	\$ 304,220	\$ 292,575	\$ 296,841	\$ 1,200,904	\$ 317,503	\$ 312,000	\$ 321,055	\$ 331,497	\$ 1,282,055	\$ 405,855	\$ 373,224	\$ 334,383	\$ 356,971	\$ 1,470,434	\$ 591,381	\$ 469,764	\$ 448,262	\$ 514,232	\$ 2,023,639	\$ 520,586	\$ 388,903	\$ 59,247
	Commercial Revenue		\$ 293,444	\$ 206,265	\$ 200,318	\$ 261,654	\$ 961,682	\$ 268,900	\$ 211,285	\$ 200,634	\$ 236,703	\$ 917,524	\$ 242,510	\$ 222,842	\$ 233,054	\$ 237,273	\$ 935,879	\$ 273,303	\$ 252,625	\$ 199,381	\$ 221,910	\$ 949,220	\$ 415,556	\$ 290,017	\$ 272,945	\$ 336,766	\$ 1,315,284	\$ 356,976	\$ 43,748	\$ 142,008
	Flat Rate Revenue		\$ 115,937	\$ 118,962	\$ 121,345	\$ 123,178	\$ 479,421	\$ 123,819	\$ 124,827	\$ 125,652	\$ 126,935	\$ 501,234	\$ 126,202	\$ 127,210	\$ 128,768	\$ 129,868	\$ 512,049	\$ 131,151	\$ 133,626	\$ 134,176	\$ 134,267	\$ 533,220	\$ 188,001	\$ 188,761	\$ 189,647	\$ 191,166	\$ 757,574	\$ 191,419	\$ 191,419	\$ 110,311
	Calculated Total						\$ 2,627,596				\$ 2,619,662					\$ 2,729,983				\$ 2,952,873						\$ 4,096,497				
	Actual Total						\$ 2,627,819				\$ 2,627,138					\$ 2,627,138					\$ 2,952,873						\$ 4,096,497			
	Difference						\$ -222,223				\$ 527,524					\$ 102,845					\$ 138,624						\$ 138,624			

SCHEDULE 8A - PRODUCTION-CUSTOMERS

Source: consumption & revenues.xlsx; Rate Study - Craig.xls

Nm	Location	Code	FY 08					FY 09					FY 10					FY 11					FY 12					FY 13 2012.03	FY 09 Average	FY 12 Average	
			2007.03	2007.04	2008.01	2008.02	Total	2008.03	2008.04	2009.01	2009.02	Total	2009.03	2009.04	2010.01	2010.02	Total	2010.03	2010.04	2011.01	2011.02	Total	2011.03	2011.04	2012.01	2012.02	Total				
METERED ACCOUNTS																															
Residential																															
0-10,000 Gallons																															
1	Wawa Rt 40 & Mech. Valley		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	Town of North East		987	1,053	1,174	1,009	1,009	1,237	1,069	1,201	1,165	1,165	1,083	1,157	1,168	1,165	1,165	1,260	1,257	1,265	1,276	1,276	1,293	1,290	1,295	1,285	1,285	1,289	-	-	
3	North East Pump Station		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	Burns Foods & Performance Food Group	2MSR04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	Stonegate Apartments		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	Meadowview Commercial Sewer	2MSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	Meadowview Sewer, Winding Brook, West Creek, Persimmon Creek	2MSR01	426	425	444	402	402	411	432	450	398	398	428	395	399	398	398	430	429	432	436	436	442	441	443	439	439	440	-	-	
14	Port Deposit Sewer	2PDS01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	261	245	252	251	251	256	252	247	244	244	-	-	-	
8	North East Commercial	2INDSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	Highland Sewer	2HSR01	33	30	31	33	33	22	20	27	28	28	39	28	28	28	28	30	30	30	31	31	31	31	31	31	31	31	31	31	31
10	Harborview Sewer	2HRB01	48	49	55	41	41	34	44	51	51	51	45	51	51	51	51	55	55	55	56	56	57	56	57	56	56	56	56	56	56
13	CHARLESTOWN SEWER	2CSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Trinity Woods, Charlestown	2CSR02	33	38	40	27	27	31	42	37	30	30	42	30	30	30	30	32	32	33	33	33	33	33	33	33	33	33	33	33	33
12	Cherry Hill Metered Sewer	2CHS01	1	-	3	5	5	9	8	13	12	12	13	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13
0-10,000 Gallons Metered Accounts Subtotal			1,528	1,595	1,747	1,517	1,517	1,744	1,615	1,779	1,684	1,684	1,650	1,672	1,689	1,684	1,684	2,082	2,062	2,080	2,095	2,095	2,126	2,117	2,119	2,102	2,102	1,863	-	-	
10,001-99,999,999 Gallons																															
1	Wawa Rt 40 & Mech. Valley		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Town of North East		1,070	1,058	946	1,154	1,154	937	1,110	985	1,059	1,059	1,166	1,051	1,062	1,059	1,059	1,145	1,143	1,150	1,159	1,159	1,176	1,173	1,177	1,168	1,168	1,171	-	-	
3	North East Pump Station		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Burns Foods & Performance Food Group	2MSR04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Stonegate Apartments		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Meadowview Commercial Sewer	2MSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Meadowview Sewer, Winding Brook, West Creek, Persimmon Creek	2MSR01	440	460	442	485	485	475	455	433	487	487	462	484	488	487	487	527	525	529	533	533	541	539	541	537	537	539	-	-	
14	Port Deposit Sewer	2PDS01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	North East Commercial	2INDSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Highland Sewer	2HSR01	88	93	91	88	88	100	102	95	94	94	83	93	94	94	94	102	101	102	103	103	104	104	105	104	104	104	104	104	104
10	Harborview Sewer	2HRB01	65	66	61	72	72	80	72	64	64	64	71	64	64	64	64	69	69	69	70	70	71	71	71	71	71	71	71	71	71
13	CHARLESTOWN SEWER	2CSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Trinity Woods, Charlestown	2CSR02	71	66	65	77	77	75	63	66	74	74	63	73	74	74	74	80	80	80	81	81	82	82	82	82	82	82	82	82	82
12	Cherry Hill Metered Sewer	2CHS01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,001-99,999,999 Gallons Metered Accounts Subtotal			1,734	1,744	1,607	1,878	1,878	1,669	1,806	1,648	1,785	1,785	1,855	1,773	1,791	1,786	1,786	1,931	1,927	1,939	1,955	1,955	1,983	1,977	1,986	1,970	1,970	1,974	-	-	

SCHEDULE 8A - PRODUCTION-CUSTOMERS

Source: consumption & revenues.xlsx; Rate Study - Craig.M

Num	Location	Code	FY 08					FY 09					FY 10					FY 11					FY 12					FY 13 2012.03	FY 09 Average	FY 12 Average
			2007 Q3	2007 Q4	2008 Q1	2008 Q2	Total	2008 Q3	2008 Q4	2009 Q1	2009 Q2	Total	2009 Q3	2009 Q4	2010 Q1	2010 Q2	Total	2010 Q3	2010 Q4	2011 Q1	2011 Q2	Total	2011 Q3	2011 Q4	2012 Q1	2012 Q2	Total			
Commercial																														
0-10,000 Gallons																														
1	Wawa Rt 40 & Mech. Valley		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	Town of North East		48	47	53	43	43	47	43	58	51	51	51	51	51	55	55	55	56	56	56	57	56	57	56	56	56	56	56	
3	North East Pump Station		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	Burns Foods & Performance Food Group	2MSR04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	Stonegate Apartments		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
6	Meadowview Commercial Sewer	2MSR01	5	7	7	7	7	7	4	7	10	10	5	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11		
7	Meadowview Sewer, Winding Brook, West Creek, Persimmon Creek	2MSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
14	Port Deposit Sewer	2PDS01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
8	North East Commercial	2NISE	-	-	1	3	3	3	3	2	6	6	4	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7		
9	Highland Sewer	2HSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
10	Harborview Sewer	2HR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
13	CHARLESTOWN SEWER	2CSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
11	Trinity Woods, Charlestown	2CSR02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
12	Cherry Hill Metered Sewer	2CHS01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
0-10,000 Gallons Metered Accounts Subtotal			53	54	61	53	53	57	50	67	67	67	62	67	67	67	67	72	72	73	73	73	74	74	74	74	74	74		
10,001-99,999,999 Gallons																														
1	Wawa Rt 40 & Mech. Valley		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2	Town of North East		90	94	89	99	99	93	95	83	93	93	92	92	93	93	93	101	100	101	102	102	103	103	103	103	103	103		
3	North East Pump Station		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
4	Burns Foods & Performance Food Group	2MSR04	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
5	Stonegate Apartments		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6		
6	Meadowview Commercial Sewer	2MSR01	17	15	21	15	15	18	15	16	16	16	17	16	16	16	16	17	17	17	18	18	18	18	18	18	18			
7	Meadowview Sewer, Winding Brook, West Creek, Persimmon Creek	2MSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
14	Port Deposit Sewer	2PDS01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
8	North East Commercial	2NISE	1	1	4	2	2	2	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
9	Highland Sewer	2HSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10	Harborview Sewer	2HR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
13	CHARLESTOWN SEWER	2CSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11	Trinity Woods, Charlestown	2CSR02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
12	Cherry Hill Metered Sewer	2CHS01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10,001-99,999,999 Gallons Metered Accounts Subtotal			117	119	123	125	125	119	125	110	121	121	119	120	121	121	121	131	131	131	132	132	134	134	135	133	133			

SCHEDULE 8A - PRODUCTION-CUSTOMERS

Source: consumption & revenues.xlsx; Rate Study - Craig.Ms

Num	Location	Code	FY 08				Total	FY 09				Total	FY 10				Total	FY 11				Total	FY 12				Total	FY 09 Average	FY 12 Average
			2007 Q3	2007 Q4	2008 Q1	2008 Q2		2008 Q3	2008 Q4	2009 Q1	2009 Q2		2009 Q3	2009 Q4	2010 Q1	2010 Q2		2010 Q3	2010 Q4	2011 Q1	2011 Q2		2011 Q3	2011 Q4	2012 Q1	2012 Q2			
Total			3,432	3,512	3,538	3,573	3,573	3,589	3,596	3,604	3,657	3,657	3,686	3,631	3,667	3,658	3,658	3,955	3,946	3,970	4,004	4,004	4,060	4,049	4,066	4,034	4,034	4,045	
FLAT RATE ACCOUNTS																													
1	Carpenters Point	2CPS	166	185	204	213	213	231	230	233	247	247	244	247	249	249	249	256	275	276	274	274	277	275	276	277	277	275	
2																													
12	CHARLESTOWN CROSSING - FLAT RATE	2SCHAR																											
3	North East & Bayview	2SEW01	50	52	52	51	51	50	51	51	49	49	50	7	7	7	7	7	7	7	6	6	7	6	6	6	6	6	
11	SEWER 02 - FLAT RATE	2SEW02																											
4	North East & Bayview	2SEW03	705	716	725	735	735	734	738	745	746	746	742	747	759	776	776	782	788	797	793	793	802	806	807	810	810	811	
5	Cherry Hill	2SEW04	193	193	191	193	193	184	192	191	192	192	191	206	191	190	190	190	192	190	191	191	192	191	191	198	198	196	
6	North East & Bayview	2SEW05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
7	North East & Bayview	2SEW06	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
8	Cherry Hill	2SEW07	20	21	21	21	21	21	21	21	21	21	21	7	21	19	19	19	19	20	20	20	21	21	21	21	21	21	
9	North East & Bayview	2SEW09	123	122	123	123	123	123	122	122	122	122	121	123	125	123	123	123	123	120	122	122	124	125	125	123	123	124	
10	North East & Bayview	2SEW10																											
Flat Rate Accounts Total			1,265	1,298	1,324	1,344	1,344	1,351	1,362	1,371	1,385	1,385	1,377	1,388	1,405	1,417	1,417	1,431	1,458	1,464	1,465	1,465	1,485	1,491	1,498	1,510	1,510	1,512	

SCHEDULE 8A - PRODUCTION-CUSTOMERS

Source: consumption & revenue.xlsx; Rate Study - Craig.xls

Num	Location	Code	FY 08					FY 09					FY 10					FY 11					FY 12					FY 13	FY 09	FY 12
			2007 Q3	2007 Q4	2008 Q1	2008 Q2	Total	2008 Q3	2008 Q4	2009 Q1	2009 Q2	Total	2009 Q3	2009 Q4	2010 Q1	2010 Q2	Total	2010 Q3	2010 Q4	2011 Q1	2011 Q2	Total	2011 Q3	2011 Q4	2012 Q1	2012 Q2	Total			
USAGE																														
Residential																														
0-10,000 Gallons																														
1	Wawa Rt 40 & Mech. Valley		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	Town of North East		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3	North East Pump Station		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	Burns Foods & Performance Food Group	2MSR04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	Stonegate Apartments		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
6	Meadowview Commercial Sewer	2MSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
7	Meadowview Sewer, Winding Brook, West Creek, Persimmon Creek	2MSR01	2,283,617	2,316,909	2,451,240	2,263,960	9,315,726	2,366,830	2,379,100	2,559,030	2,143,185	9,448,145	2,425,580	2,289,590	2,396,038	2,440,306	9,551,514	3,123,868	2,815,158	2,301,094	2,560,296	10,800,415	3,100,795	2,149,808	2,020,264	2,504,166	9,775,032	2,657,155	1,061,480	
14	Port Deposit Sewer	2PDS01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
8	North East Commercial	2INDSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9	Highland Sewer	2HSR01	201,300	182,600	203,200	243,300	830,400	159,300	150,700	184,800	206,700	701,500	297,800	169,996	177,900	181,186	826,882	231,939	209,018	170,850	190,095	801,903	230,226	159,618	149,999	185,928	725,771	197,287	297,287	
10	Harborview Sewer	2HR01	244,000	265,400	284,400	227,996	1,021,796	213,500	237,700	288,900	288,600	1,028,700	265,700	249,287	266,877	265,697	1,041,561	340,122	306,510	250,540	278,761	1,175,933	337,610	234,068	219,963	272,650	1,064,291	289,307	197,287	
13	CHARLESTOWN SEWER	2CSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
11	Trinity Woods, Charlestown	2CSR02	232,700	243,900	278,400	159,000	914,000	177,700	296,600	235,500	191,600	901,400	278,300	218,438	228,594	232,817	988,150	298,032	268,580	218,576	244,265	1,030,413	295,831	205,102	192,743	278,910	932,587	253,506	166,683	
12	Cherry Hill Metered Sewer	2CHS01	2,700	-	4,100	23,646	30,446	35,900	27,622	40,894	59,300	163,716	37,300	39,674	41,518	42,283	160,677	54,130	48,781	39,873	44,364	187,148	53,730	37,252	35,007	43,392	169,380	46,043	46,043	
0-10,000 Gallons Usage Subtotal			8,162,668	8,379,702	9,202,080	7,925,148	33,669,598	9,215,225	8,532,026	9,230,436	8,777,409	35,755,096	8,778,180	9,926,851	10,279,290	10,893,710	39,878,031	14,693,130	12,668,808	11,125,789	12,133,515	50,621,242	14,338,971	10,194,752	9,386,986	11,770,962	45,691,671	12,763,772	12,763,772	
10,001-99,999,999 Gallons																														
1	Wawa Rt 40 & Mech. Valley		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	Town of North East		20,715,507	19,527,573	18,862,506	22,210,531	81,316,117	18,467,858	21,698,312	18,934,414	19,108,274	78,208,858	23,161,902	18,952,524	19,833,674	20,200,111	82,148,211	23,292,529	21,502,119	16,887,275	19,008,914	80,690,838	25,667,430	17,795,456	16,723,125	20,728,720	80,914,730	21,995,121	21,995,121	
3	North East Pump Station		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	Burns Foods & Performance Food Group	2MSR04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	Stonegate Apartments		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	Meadowview Commercial Sewer	2MSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	Meadowview Sewer, Winding Brook, West Creek, Persimmon Creek	2MSR01	8,242,451	8,631,774	7,596,942	8,448,128	32,919,295	9,030,228	7,738,968	7,325,576	8,556,700	32,651,472	8,269,900	7,912,503	8,280,375	8,433,359	32,896,136	9,724,415	8,976,935	7,050,281	7,936,045	33,687,675	10,715,914	7,429,437	6,981,749	8,654,048	33,781,148	9,182,759	2,729,520	
14	Port Deposit Sewer	2PDS01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
8	North East Commercial	2INDSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	Highland Sewer	2HSR01	1,423,375	1,466,475	1,407,900	1,408,700	5,706,450	1,869,500	1,624,100	1,433,100	1,476,100	6,402,800	1,302,100	1,551,605	1,623,742	1,653,742	6,131,189	1,906,912	1,760,335	1,382,527	1,556,221	6,605,995	2,101,340	1,456,878	1,369,988	1,697,018	6,624,324	1,800,696	1,800,696	
10	Harborview Sewer	2HR01	1,115,360	1,242,500	1,002,200	1,277,600	4,637,660	1,447,000	1,399,500	1,061,900	1,020,200	4,928,600	1,246,800	1,194,538	1,249,887	1,272,979	4,964,025	1,467,859	1,355,030	1,064,210	1,197,912	5,085,010	1,617,521	1,121,442	1,053,965	1,306,292	5,099,120	1,386,098	1,386,098	
13	CHARLESTOWN SEWER	2CSR01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
11	Trinity Woods, Charlestown	2CSR02	1,568,000	1,359,000	1,247,100	1,488,900	5,663,000	1,980,800	1,115,000	1,256,000	1,457,000	5,808,800	1,318,000	1,407,659	1,473,105	1,500,321	5,699,085	1,730,004	1,597,025	1,254,267	1,411,848	5,993,144	1,906,395	1,321,720	1,242,075	1,539,582	6,009,773	1,633,642	1,633,642	
12	Cherry Hill Metered Sewer	2CHS01	-	14,300	81,154	27,694	76,148	53,806	64,700	83,700	124,600	326,806	165,750	79,196	82,878	86,409	412,532	97,331	89,849	70,566	79,431	317,177	107,255	74,361	69,480	86,618	338,118	91,010	91,010	
10,001-99,999,999 Gallons Usage Subtotal			33,064,693	32,241,622	30,150,802	34,861,553	130,318,670	32,849,192	33,640,590	30,094,690	31,742,874	128,357,336	35,664,452	34,343,605	35,659,820	37,410,237	142,878,114	45,602,441	40,463,399	33,925,922	37,476,116	147,148,797	48,813,079	34,494,182	31,918,183	39,911,957	146,573,562	43,054,073	43,054,073	

SCHEDULE 9 - INVESTMENTS

	Revised FY 08	Revised FY 09	Revised FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
WASTEWATER													
Wastewater Fund (allocated cash)			8,292,707	4,670,911	1,396,445	2,715,059	1,964,534	1,706,488	1,212,332	72,544	283,994	1,052,860	2,624,770
Interest Rate				1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Interest Income	\$ -	\$ -	\$ -	\$ 46,709	\$ 13,964	\$ 27,151	\$ 19,645	\$ 17,065	\$ 12,123	\$ 725	\$ 2,840	\$ 10,529	\$ 26,248

SCHEDULE 10 - MISCELLANEOUS REVENUES

Source: Fund 605 Revenues 2010 - 2013.pdf

Dept #	Account #	Revenue	Actual FY 08	Actual FY 09	Actual FY 10	Actual FY 11	Actual FY 12	Revised FY 13	Forecast FY 14	Forecast FY 15	Forecast FY 16	Forecast FY 17	Forecast FY 18	Forecast FY 19	Forecast FY 20
60500000 WASTEWATER - REVENUE															
	319110	Interest - 1% Monthly	\$ 19,273	\$ 24,213	\$ 24,472	\$ 29,969	\$ 37,300	\$ 13,000	13,459	14,020	14,810	15,963	16,601	17,165	17,728
	319113	Interest - Blue Sqr E	\$ 134	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	-	-	-
	319120	Delinquent Penalties	\$ 100	\$ 175	\$ 200	\$ 200	\$ 150	\$ 100	104	108	114	123	128	132	136
	322210	Septic Hauler Permi	\$ 600	\$ 700	\$ 865	\$ 1,100	\$ 50	\$ 800	828	863	911	982	1,022	1,056	1,091
	332270	FEMA Disaster	\$ -	\$ -	\$ -	\$ -	\$ 105,420	\$ -	-	-	-	-	-	-	-
	332270	FEMA Disaster	\$ -	\$ -	\$ -	\$ -	\$ 105,420	\$ -	-	-	-	-	-	-	-
	332950	CSSC - Regional BRAC	\$ -	\$ 299,338	\$ -	\$ -	\$ -	\$ -	-	-	-	-	-	-	-
	344230	Septic Hauler Fees	\$ 138,754	\$ 206,700	\$ 199,567	\$ 188,466	\$ 224,983	\$ 200,000	207,061	215,698	227,849	245,583	255,402	264,072	272,742
	344240	Water Plant Operation Fee	\$ -	\$ -	\$ -	\$ -	\$ 38,643	\$ -	-	-	-	-	-	-	-
	344241	Wwater Plant Operat	\$ -	\$ 14,400	\$ 71,778	\$ 4,019	\$ -	\$ -	-	-	-	-	-	-	-
	348010	Miscellaneous Servi	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	-	-	-
	361010	Interest Earnings Bonds 20	\$ -	\$ -	\$ -	\$ 180	\$ 1,623	\$ -	-	-	-	-	-	-	-
	361017	Interest Earnings B	\$ 107,472	\$ 64,697	\$ 3,655	\$ -	\$ -	\$ -	-	-	-	-	-	-	-
	361019	Interest Earnings -	\$ -	\$ 5,719	\$ 8,898	\$ 5,339	\$ -	\$ -	-	-	-	-	-	-	-
	361020	Interest Earnings Bonds 20	\$ -	\$ -	\$ -	\$ -	\$ 475	\$ -	-	-	-	-	-	-	-
	361910	Int Earn - Benefit	\$ 13,721	\$ 11,803	\$ 9,810	\$ 7,376	\$ 6,718	\$ 7,000	7,247	7,549	7,975	8,595	8,939	9,243	9,546
	361911	Int Earn - Connecti	\$ 100	\$ 162	\$ 207	\$ 184	\$ 254	\$ -	-	-	-	-	-	-	-
	365050	Miscellaneous Revenue	\$ -	\$ -	\$ -	\$ 15,428	\$ 10,264	\$ 12,000	12,424	12,942	13,671	14,735	15,324	15,844	16,365
	369110	Recyclables	\$ -	\$ -	\$ -	\$ -	\$ 673	\$ -	-	-	-	-	-	-	-
Wastewater - Revenue Total			\$ 280,404	\$ 627,907	\$ 319,452	\$ 252,260	\$ 531,973	\$ 232,900	\$ 241,122	\$ 251,180	\$ 265,330	\$ 285,981	\$ 297,416	\$ 307,512	\$ 317,608

SCHEDULE 11 - REVENUE REQUIREMENT

WASTEWATER	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20									
<u>Operating Costs</u>																				
Operating & Maintenance Expenses	2,369,057	2,127,138	2,570,261	2,930,859	2,784,509	2,840,470	2,866,856	3,140,541	2,981,927	3,130,520	3,334,440									
Operating Reserve Contribution	-	-	-	-	-	-	-	-	-	-	-									
Operating Costs Subtotal	2,369,057	2,127,138	2,570,261	2,930,859	2,784,509	2,840,470	2,866,856	3,140,541	2,981,927	3,130,520	3,334,440									
<u>Capital Costs</u>																				
Existing Debt Service	1,120,781	1,114,918	1,101,365	1,148,071	1,178,261	1,173,886	1,169,958	1,165,995	1,161,489	1,157,577	1,154,075									
Cash Funded Capital Projects	-	-	-	1,167,038	520,000	1,187,000	1,545,000	545,000	500,000	-	-									
Projected Debt Service	-	-	-	-	675,955	675,955	1,398,569	1,398,569	1,501,985	1,501,985	1,501,985									
3R Reserve Contribution	-	-	-	-	-	-	-	-	-	-	-									
Cumulative Capital Cash Flow Shortfall	-	-	-	-	-	-	-	-	-	-	-									
Capital Costs Subtotal	1,120,781	1,114,918	1,101,365	2,315,109	2,374,216	3,036,841	4,113,528	3,109,564	3,163,474	2,659,562	2,656,061									
Total Revenue Requirement	3,489,838	3,242,056	3,671,626	5,245,968	5,158,725	5,877,312	6,980,384	6,250,105	6,145,401	5,790,083	5,990,501									
Less: Miscellaneous Other Revenues	(319,452)	(252,260)	(531,973)	(232,900)	(241,122)	(251,180)	(265,330)	(285,981)	(297,416)	(307,512)	(317,608)									
Net Revenue Requirement	\$ 3,170,386	\$ 2,989,796	\$ 3,139,653	\$ 5,013,068	\$ 4,917,603	\$ 5,626,132	\$ 6,715,054	\$ 5,964,123	\$ 5,847,985	\$ 5,482,571	\$ 5,672,892									
Surplus/ (Shortfall) [from Previous Year Revenue Requirement]	\$	180,590	\$ (149,857)	\$ (1,873,415)	\$	95,465	\$ (708,529)	\$ (1,088,922)	\$	750,930	\$	116,139	\$	365,414	\$	(190,322)				
Annual Required Increase [from Previous Year Revenue Requirement]		0.00%	5.01%	59.67%		0.00%	14.41%	19.35%		0.00%	0.00%		0.00%	0.00%		3.47%				
Every 1% is = to	\$	29,898	\$	31,397	\$	50,131	\$	49,176	\$	56,261	\$	67,151	\$	59,641	\$	58,480	\$	54,826	\$	56,729
Projected Sewer Charges	\$ 3,073,663	\$ 3,448,010	\$ 4,326,164	\$ 4,606,399	\$ 4,769,022	\$ 4,967,952	\$ 5,247,815	\$ 5,656,265	\$ 5,882,424	\$ 6,082,111	\$ 6,281,797									
Projected Revenue with Existing Rates	\$	3,448,010	\$	4,326,164	\$	4,606,399	\$	4,769,022	\$	4,967,952	\$	5,247,815	\$	5,656,265	\$	5,882,424	\$	6,082,111	\$	6,281,797
Surplus / (Shortfall)	\$	458,214	\$	1,186,510	\$	(406,669)	\$	(148,581)	\$	(658,179)	\$	(1,467,238)	\$	(307,859)	\$	34,439	\$	599,540	\$	608,905
Cumulative Surplus / (Shortfall)	\$	458,214	\$	1,644,725	\$	1,238,055	\$	1,089,475	\$	431,295	\$	(1,035,943)	\$	(1,343,802)	\$	(1,309,362)	\$	(709,822)	\$	(100,917)
Breakeven Rate Increase (over current rates)		0.00%	0.00%	8.83%		3.12%	13.25%	27.96%		5.44%	0.00%		0.00%	0.00%		0.00%				
Cumulative Required Increase (if do nothing)		0.00%	0.00%	0.00%		0.00%	0.00%	19.74%		23.76%	22.26%		11.67%	1.61%						
Projected Revenue with Existing Rates	\$	3,464,229	\$	3,124,337	\$	3,280,938	\$	5,238,656	\$	5,138,895	\$	5,879,307	\$	7,017,231	\$	6,232,509	\$	6,111,144	\$	5,729,286
Breakeven Rate Increase		-13.29%	4.50%	4.50%		4.50%	4.50%	10.13%		0.00%	0.00%		8.83%							

SCHEDULE 12 - FY 09 RATE RECONCILIATION

FY 09

Sewer Charges \$ 2,827,138

ACCOUNTS

Residential 0-10,000 Gallons 1,684
 Residential 10,001-99,999,999 Gallons 1,785
Residential Subtotal 3,469

Commercial 0-10,000 Gallons 67
 Commercial 10,001-99,999,999 Gallons 121
Commercial Subtotal 188

Flat Rate Subtotal 1,385

Total Accounts 5,042

USAGE (1,000 Gallons)

Residential 0-10,000 Gallons 35,755
 Residential 10,001-99,999,999 Gallons 128,327
Residential Subtotal 164,082

Commercial 0-10,000 Gallons 725
 Commercial 10,001-99,999,999 Gallons 147,758
Commercial Subtotal 148,483

Total Usage 312,565

\$ 9.04

BILLS

Residential 0-10,000 Gallons 6,822
 Residential 10,001-99,999,999 Gallons 6,908
Residential Subtotal 13,730

Commercial 0-10,000 Gallons 241
 Commercial 10,001-99,999,999 Gallons 475
Commercial Subtotal 716

Flat Rate Subtotal 5,469

Total Bills 19,915

Residential - Average Quarterly Customers and Usage - FY09 (1,000 gallons)

From	To	Users	Usage	Allocated Usage	% Users	% Allocated
-	10,000	1,706	8,939	26,209	50%	64%
Over	10,000	1,727	32,082	14,812	50%	36%
Total		3,433	41,021	41,021	100%	100%

11.95

Commercial - Average Quarterly Customers and Usage - FY09 (1,000 gallons)

From	To	Users	Usage	Allocated Usage	% Users	% Allocated
-	10,000	60	181	1,369	34%	4%
Over	10,000	119	36,939	35,752	66%	96%
Total		179	37,121	37,121	100%	100%

207.38

Alternative A - Quarterly Minimum Charge with Unit Rate [Current Rate Structure]

	Differential	FY 09		Calc less Actual	% Difference
		Actual	Proposed		
Metered					
Minimum Charge (10,000 gallons included)	10	\$ 61.10	\$ 65.94	\$ 4.84	7.92%
Bills		14,446	14,446	-	0.00%
Cost Allocated		\$ 882,651	\$ 952,556	\$ 69,906	7.92%
Included Usage		110,311	110,311		
Volume Charge (Over 10,000 gallons)	1	\$ 6.11	\$ 6.59	\$ 0.48	7.92%
Production		202,255	202,255	-	0.00%
Cost Allocated		\$ 1,235,777	\$ 1,333,651	\$ 97,873	7.92%
Non-Metered					
Minimum Charge (based on 15,000 gallons)	15	\$ 91.65	\$ 98.91	\$ 7.26	7.92%
Bills		5,469	5,469	-	0.00%
Cost Allocated		\$ 501,234	\$ 540,931	\$ 39,698	7.92%
Usage (1,000 Gallons)		202,255	202,255		
Projected Revenue - Fixed Charges		\$ 1,383,884	\$ 1,493,488	\$ 109,603	7.92%
Projected Revenue - Volume Charges		\$ 1,235,777	\$ 1,333,651	\$ 97,873	7.92%
Total Revenue - Minimum and Volume Charges		\$ 2,619,662	\$ 2,827,138	\$ 207,477	7.92%

SCHEDULE 13 - RATE ANALYSIS

	FY 10	FY 11
Net Revenue Requirement	\$ 3,170,386	\$ 2,989,796
Sewer Charges	\$ 3,073,663	
Projected Revenue with Current Rates		\$ 3,333,776
Breakeven Rate Increase		-10.32%

ACCOUNTS

Residential 0-10,000 Gallons	1,684	2,095
Residential 10,001-99,999,999 Gallons	1,786	1,955
Residential Subtotal	3,471	4,050
Commercial 0-10,000 Gallons	67	73
Commercial 10,001-99,999,999 Gallons	121	132
Commercial Subtotal	188	206
Flat Rate Subtotal	1,417	1,465
Total Accounts	5,076	5,721

USAGE (1,000 Gallons)

Residential 0-10,000 Gallons	39,878	50,621
Residential 10,001-99,999,999 Gallons	142,878	147,149
Residential Subtotal	182,756	197,770
Commercial 0-10,000 Gallons	728	749
Commercial 10,001-99,999,999 Gallons	150,544	152,447
Commercial Subtotal	151,272	153,195
Total Metered Usage	334,028	350,965
Total Billed Usage	363,482	386,321

ELUs

Residential	4,888	5,515
Commercial	2,873	3,137
Total ELUs	7,761	8,652

Unit Rate

\$ 9.49	\$ 8.52
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Residential Average Quarterly Usage (1,000 gallons)	13	12
Commercial Average Quarterly Usage (1,000 gallons)	201	186
All Average Quarterly Usage (1,000 gallons)	23	21
Commercial to Residential Equivalent	15	15

Residential - Average Quarterly Customers and Usage - FY09 (1,000 gallons)

From	To	Users	Usage	Allocated Usage	% Users	% Allocated
-	10,000	1,684	8,939	26,789	49%	65%
Over	10,000	1,785	32,082	14,232	51%	35%
Total		3,469	41,021	41,021	100%	100%

Residential Average Quarterly Usage 11.82

Commercial - Average Quarterly Customers and Usage - FY09 (1,000 gallons)

From	To	Users	Usage	Allocated Usage	% Users	% Allocated
-	10,000	67	181	1,391	36%	4%
Over	10,000	121	36,939	35,729	64%	96%
Total		188	37,121	37,121	100%	100%

Commercial Average Quarterly Usage 197.45

Current Rate Design - Quarterly Minimum Charge with Unit Rate [Current Rate Structure]

	Differential	FY 10		FY 11		Prop less Actual	% Difference
		Actual	Proposed	Proposed	Proposed		
Metered							
Minimum Charge (10,000 gallons included)	10	\$ 70.30	\$ 63.05	\$ 63.05	\$ 7.25	(7.25)	-10.32%
Annual Bills			17,024				
Cost Allocated			\$ 1,073,302				
Included Usage			170,240				
Volume Charge (per 1,000 gallons, over 10,000 gallons)	1	\$ 7.03	\$ 6.30	\$ 6.30	\$ 0.73	(0.73)	-10.32%
Production (1,000 gallons)			216,081				
Cost Allocated			\$ 1,362,315				
Non-Metered							
Minimum Charge (based on 15,000 gallons)	15	\$ 105.45	\$ 94.57	\$ 94.57	\$ 10.88	(10.88)	-10.32%
Annual Bills			5,860				
Cost Allocated			\$ 554,178				
Usage (1,000 Gallons)			386,321				
Projected Revenue - Fixed Charges			\$ 1,627,481				
Projected Revenue - Volume Charges			\$ 1,362,315				
Total Revenue - Minimum and Volume Charges			\$ 2,989,796				

Alternative Rate Design - Quarterly Flat Rate per ELU

	FY 10	FY 11	Prop less Actual	% Difference
	Actual	Proposed		
Quarterly Flat Rate per ELU	\$ 70.30	\$ 86.39	\$ 16.09	22.88%
Annual ELUs		8,652		
Cost Allocated		\$ 747,449		
Total Revenue		\$ 747,449		

SCHEDULE 14 - RATE PROJECTIONS

WASTEWATER	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Net Revenue Requirement	\$ 3,170,386	\$ 2,989,796	\$ 3,139,653	\$ 5,013,068	\$ 4,917,603	\$ 5,626,132	\$ 6,715,054	\$ 5,964,123	\$ 5,847,985	\$ 5,482,571	\$ 5,672,892
ACCOUNTS											
Residential 0-10,000 Gallons	1,684	2,095	2,102	2,211	2,289	2,384	2,519	2,715	2,823	2,919	3,015
Residential 10,001-99,999,999 Gallons	1,786	1,955	1,970	2,072	2,146	2,235	2,361	2,545	2,647	2,736	2,826
Residential Subtotal	3,471	4,050	4,072	4,283	4,435	4,620	4,880	5,260	5,470	5,656	5,841
Commercial 0-10,000 Gallons	67	73	74	78	80	84	89	95	99	103	106
Commercial 10,001-99,999,999 Gallons	121	132	133	140	145	151	160	172	179	185	191
Commercial Subtotal	188	206	207	218	226	235	249	268	279	288	298
Flat Rate Subtotal	1,417	1,465	1,510	1,589	1,645	1,713	1,810	1,951	2,029	2,097	2,166
Total Accounts	5,076	5,721	5,789	6,090	6,305	6,568	6,938	7,478	7,777	8,041	8,305
USAGE (1,000 Gallons)											
Residential 0-10,000 Gallons	39,878	50,621	45,692	48,067	49,764	51,840	54,761	59,023	61,383	63,466	65,550
Residential 10,001-99,999,999 Gallons	142,878	147,149	146,574	154,195	159,639	166,298	175,666	189,338	196,909	203,593	210,278
Residential Subtotal	182,756	197,770	192,266	202,262	209,403	218,138	230,426	248,361	258,292	267,060	275,828
Commercial 0-10,000 Gallons	728	749	751	790	817	852	900	970	1,008	1,043	1,077
Commercial 10,001-99,999,999 Gallons	150,544	152,447	152,870	160,818	166,496	173,441	183,211	197,471	205,367	212,338	219,309
Commercial Subtotal	151,272	153,195	153,620	161,608	167,313	174,292	184,111	198,440	206,375	213,381	220,386
Total Metered Usage	334,028	350,965	345,886	363,870	376,716	392,430	414,537	446,802	464,666	480,440	496,214
Total Billed Usage	363,482	386,321	386,464	406,558	420,911	438,469	463,169	499,219	519,180	536,804	554,428
ELUs											
Residential	4,888	5,515	5,582	5,872	6,079	6,333	6,689	7,210	7,498	7,753	8,007
Commercial	2,873	3,137	3,253	3,422	3,543	3,691	3,899	4,202	4,370	4,519	4,667
Total ELUs	7,761	8,652	8,835	9,294	9,622	10,024	10,588	11,412	11,869	12,272	12,675
Unit Rate (per 1,000 gallons)	\$ 8.52	\$ 9.08	\$ 13.78	\$ 13.05	\$ 14.34	\$ 16.20	\$ 13.35	\$ 12.59	\$ 11.41	\$ 11.43	
% Change		6.6%	51.8%	-5.2%	9.8%	13.0%	-17.6%	-5.7%	-9.3%	0.2%	

SCHEDULE 14 - RATE PROJECTIONS

WASTEWATER	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	
Current Rate Design - Quarterly Minimum Charge with Unit Rate [Current Rate Structure]												
Breakeven Rates												
Metered												
Minimum Charge (10,000 gallons included)	Differential 10.0	\$ 70.30	\$ 70.30	\$ 84.40	\$ 84.40	\$ 94.64	\$ 103.95	\$ 117.45	\$ 96.78	\$ 91.25	\$ 82.74	\$ 82.89
Volume Charge (per 1,000 gallons, over 10,000 g)	Differential 1.0	\$ 7.03	\$ 7.03	\$ 8.44	\$ 8.44	\$ 9.46	\$ 10.39	\$ 11.74	\$ 9.68	\$ 9.12	\$ 8.27	\$ 8.29
	% Change		0.0%	20.1%	0.0%	12.1%	9.8%	13.0%	-17.6%	-5.7%	-9.3%	0.2%
Non-Metered												
Minimum Charge (based on 15,000 gallons)	Differential 15.0	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 141.97	\$ 155.92	\$ 176.17	\$ 145.17	\$ 136.87	\$ 124.11	\$ 124.33
	% Change		0.0%	20.0%	0.0%	12.2%	9.8%	13.0%	-17.6%	-5.7%	-9.3%	0.2%
User Defined Rates												
Metered												
Minimum Charge (10,000 gallons included)		\$ 70.30	\$ 70.30	\$ 84.40	\$ 84.40	\$ 89.30	\$ 94.50	\$ 97.30	\$ 100.20	\$ 103.20	\$ 106.30	\$ 109.50
Volume Charge (per 1,000 gallons, over 10,000 gallons)		\$ 7.03	\$ 7.03	\$ 8.44	\$ 8.44	\$ 8.93	\$ 9.45	\$ 9.73	\$ 10.02	\$ 10.32	\$ 10.63	\$ 10.95
						5.8%	5.8%	3.0%	3.0%	3.0%	3.0%	3.0%
Non-Metered												
Minimum Charge (based on 15,000 gallons)		\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25
						5.9%	5.8%	3.0%	3.0%	3.0%	3.0%	3.0%
User Defined Revenue			\$ 4,026,058	\$ 4,235,393	\$ 4,639,911	\$ 5,114,910	\$ 5,563,143	\$ 6,174,848	\$ 6,614,011	\$ 7,043,952	\$ 7,494,227	
Net Revenue Requirement			\$ 3,139,653	\$ 5,013,068	\$ 4,917,603	\$ 5,626,132	\$ 6,715,054	\$ 5,964,123	\$ 5,847,985	\$ 5,482,571	\$ 5,672,892	
Annual Surplus / (Shortfall)			\$ 886,404	\$ (777,675)	\$ (277,692)	\$ (511,221)	\$ (1,151,911)	\$ 210,724	\$ 766,026	\$ 1,561,382	\$ 1,821,335	
Cumulative Surplus / (Shortfall)			\$ 886,404	\$ 108,729	\$ (168,963)	\$ (680,184)	\$ (1,832,094)	\$ (1,621,370)	\$ (855,344)	\$ 706,037	\$ 2,527,372	
Ending Cash Balance		\$ 1,396,445	\$ 2,715,059	\$ 1,964,534	\$ 1,706,488	\$ 1,212,332	\$ 72,544	\$ 283,994	\$ 1,052,860	\$ 2,624,770	\$ 4,472,352	
Target Cash Balance		\$ 524,500	\$ 633,763	\$ 722,678	\$ 686,591	\$ 700,390	\$ 706,896	\$ 774,380	\$ 735,270	\$ 771,909	\$ 822,191	
											Difference from	
Scenario Analysis (Hard Entered Values)											2018 Ending Cash	
Breakeven											\$1 Mil.	
1 Year											\$ (1,000,000)	
5 Year Equal											\$ (1,000,000)	
2-3 Year Equal (with \$8,000 FY14 & \$9,500 FY 15 MFF)						6.3%	6.3%	3.0%	3.0%	3.0%	\$ 1,003,672	
2-3 Year Equal (with \$16,100 MFF)						5.8%	5.8%	3.0%	3.0%	3.0%	\$ 1,052,860	
Alternative Rate Design - Quarterly Flat Rate per ELU												
Breakeven Rates												
Quarterly Flat Rate per ELU		\$ 113.93	\$ 113.93	\$ 113.93	\$ 120.55	\$ 127.57	\$ 131.35	\$ 135.27	\$ 139.31	\$ 143.50	\$ 147.82	
User Defined Rates												
Quarterly Flat Rate per ELU		\$ 113.93	\$ 113.93	\$ 113.93	\$ 120.55	\$ 127.57	\$ 131.35	\$ 135.27	\$ 139.31	\$ 143.50	\$ 147.82	
					5.82%	5.82%	2.96%	2.98%	2.99%	3.00%	3.01%	
User Defined Revenue		\$ 4,026,058	\$ 4,235,393	\$ 4,639,911	\$ 5,114,910	\$ 5,563,143	\$ 6,174,848	\$ 6,614,011	\$ 7,043,952	\$ 7,494,227		
Net Revenue Requirement		\$ 3,139,653	\$ 5,013,068	\$ 4,917,603	\$ 5,626,132	\$ 6,715,054	\$ 5,964,123	\$ 5,847,985	\$ 5,482,571	\$ 5,672,892		
Annual Surplus / (Shortfall)		\$ 886,404	\$ (777,675)	\$ (277,692)	\$ (511,221)	\$ (1,151,911)	\$ 210,724	\$ 766,026	\$ 1,561,382	\$ 1,821,335		
Cumulative Surplus / (Shortfall)		\$ 886,404	\$ 108,729	\$ (168,963)	\$ (680,184)	\$ (1,832,094)	\$ (1,621,370)	\$ (855,344)	\$ 706,037	\$ 2,527,372		

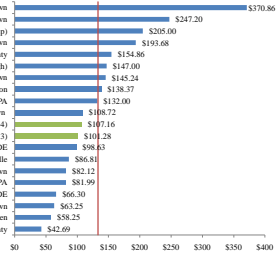
SCHEDULE 15A - SAMPLE BILLS

		FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	\$ Change FY 11	% Change FY 11
Current Rate Design - Quarterly Minimum Charge with Unit Rate [Current Rate Structure]														
Metered														
	Minimum Charge (10,000 gallons included)	\$ 70.30	\$ 70.30	\$ 84.40	\$ 84.40	\$ 89.30	\$ 94.50	\$ 97.30	\$ 100.20	\$ 103.20	\$ 106.30	\$ 109.50	\$ -	0.0%
	Volume Charge (per 1,000 gallons, over 10,000 gallons)	\$ 7.03	\$ 7.03	\$ 8.44	\$ 8.44	\$ 8.93	\$ 9.45	\$ 9.73	\$ 10.02	\$ 10.32	\$ 10.63	\$ 10.95	\$ -	0.0%
Non-Metered														
	Minimum Charge (based on 15,000 gallons)	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
Quarterly Usage (gallons)														
	User													
	Metered 3,000	\$ 70.30	\$ 70.30	\$ 84.40	\$ 84.40	\$ 89.30	\$ 94.50	\$ 97.30	\$ 100.20	\$ 103.20	\$ 106.30	\$ 109.50	\$ -	0.0%
	Metered 6,000	\$ 70.30	\$ 70.30	\$ 84.40	\$ 84.40	\$ 89.30	\$ 94.50	\$ 97.30	\$ 100.20	\$ 103.20	\$ 106.30	\$ 109.50	\$ -	0.0%
Res Avg	Metered 12,000	\$ 84.36	\$ 84.36	\$ 101.28	\$ 101.28	\$ 107.16	\$ 113.40	\$ 116.76	\$ 120.24	\$ 123.84	\$ 127.56	\$ 131.40	\$ -	0.0%
	Metered 18,000	\$ 126.54	\$ 126.54	\$ 151.92	\$ 151.92	\$ 160.74	\$ 170.10	\$ 175.14	\$ 180.36	\$ 185.76	\$ 191.34	\$ 197.10	\$ -	0.0%
All Avg	Metered 21,000	\$ 147.63	\$ 147.63	\$ 177.24	\$ 177.24	\$ 187.53	\$ 198.45	\$ 204.33	\$ 210.42	\$ 216.72	\$ 223.23	\$ 229.95	\$ -	0.0%
	Metered 60,000	\$ 421.80	\$ 421.80	\$ 506.40	\$ 506.40	\$ 535.80	\$ 567.00	\$ 583.80	\$ 601.20	\$ 619.20	\$ 637.80	\$ 657.00	\$ -	0.0%
	Metered 100,000	\$ 703.00	\$ 703.00	\$ 844.00	\$ 844.00	\$ 893.00	\$ 945.00	\$ 973.00	\$ 1,002.00	\$ 1,032.00	\$ 1,063.00	\$ 1,095.00	\$ -	0.0%
Com Avg	Metered 200,000	\$ 1,406.00	\$ 1,406.00	\$ 1,688.00	\$ 1,688.00	\$ 1,786.00	\$ 1,890.00	\$ 1,946.00	\$ 2,004.00	\$ 2,064.00	\$ 2,126.00	\$ 2,190.00	\$ -	0.0%
	Metered 400,000	\$ 2,812.00	\$ 2,812.00	\$ 3,376.00	\$ 3,376.00	\$ 3,572.00	\$ 3,780.00	\$ 3,892.00	\$ 4,008.00	\$ 4,128.00	\$ 4,252.00	\$ 4,380.00	\$ -	0.0%
	Metered 800,000	\$ 5,624.00	\$ 5,624.00	\$ 6,752.00	\$ 6,752.00	\$ 7,144.00	\$ 7,560.00	\$ 7,784.00	\$ 8,016.00	\$ 8,256.00	\$ 8,504.00	\$ 8,760.00	\$ -	0.0%
	Non-Metered 3,000	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
	Non-Metered 6,000	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
	Non-Metered 12,000	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
	Non-Metered 18,000	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
	Non-Metered 21,000	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
	Non-Metered 60,000	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
	Non-Metered 100,000	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
	Non-Metered 200,000	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
	Non-Metered 400,000	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
	Non-Metered 800,000	\$ 105.45	\$ 105.45	\$ 126.54	\$ 126.54	\$ 133.95	\$ 141.75	\$ 145.95	\$ 150.30	\$ 154.80	\$ 159.45	\$ 164.25	\$ -	0.0%
Alternative Rate Design - Quarterly Flat Rate per ELU														
Quarterly Flat Rate per ELU			\$ -	\$ 114.00	\$ 114.00	\$ 121.00	\$ 128.00	\$ 131.00	\$ 135.00	\$ 139.00	\$ 143.00	\$ 148.00		
Estimated Annual Usage (gallons) ELUs														
	User													
	Residential 12,000	1.00	\$ 70.30	\$ -	\$ 114.00	\$ 114.00	\$ 121.00	\$ 128.00	\$ 131.00	\$ 135.00	\$ 139.00	\$ 143.00	\$ 148.00	\$ (70.30) -100.0%
	Residential 24,000	1.00	\$ 70.30	\$ -	\$ 114.00	\$ 114.00	\$ 121.00	\$ 128.00	\$ 131.00	\$ 135.00	\$ 139.00	\$ 143.00	\$ 148.00	\$ (70.30) -100.0%
Res Avg	Residential 48,000	1.00	\$ 84.36	\$ -	\$ 114.00	\$ 114.00	\$ 121.00	\$ 128.00	\$ 131.00	\$ 135.00	\$ 139.00	\$ 143.00	\$ 148.00	\$ (84.36) -100.0%
	Residential 72,000	1.00	\$ 126.54	\$ -	\$ 114.00	\$ 114.00	\$ 121.00	\$ 128.00	\$ 131.00	\$ 135.00	\$ 139.00	\$ 143.00	\$ 148.00	\$ (126.54) -100.0%
All Avg	Residential 84,000	1.00	\$ 147.63	\$ -	\$ 114.00	\$ 114.00	\$ 121.00	\$ 128.00	\$ 131.00	\$ 135.00	\$ 139.00	\$ 143.00	\$ 148.00	\$ (147.63) -100.0%
	Commercial 240,000	5.00	\$ 421.80	\$ -	\$ 570.00	\$ 570.00	\$ 605.00	\$ 640.00	\$ 655.00	\$ 675.00	\$ 695.00	\$ 715.00	\$ 740.00	\$ (421.80) -100.0%
	Commercial 400,000	8.00	\$ 703.00	\$ -	\$ 912.00	\$ 912.00	\$ 968.00	\$ 1,024.00	\$ 1,048.00	\$ 1,080.00	\$ 1,112.00	\$ 1,144.00	\$ 1,184.00	\$ (703.00) -100.0%
Com Avg	Commercial 800,000	16.00	\$ 1,406.00	\$ -	\$ 1,824.00	\$ 1,824.00	\$ 1,936.00	\$ 2,048.00	\$ 2,096.00	\$ 2,160.00	\$ 2,224.00	\$ 2,288.00	\$ 2,368.00	\$ (1,406.00) -100.0%
	Commercial 1,600,000	33.00	\$ 2,812.00	\$ -	\$ 3,762.00	\$ 3,762.00	\$ 3,993.00	\$ 4,224.00	\$ 4,323.00	\$ 4,455.00	\$ 4,587.00	\$ 4,719.00	\$ 4,884.00	\$ (2,812.00) -100.0%
	Commercial 3,200,000	66.00	\$ 5,624.00	\$ -	\$ 7,524.00	\$ 7,524.00	\$ 7,986.00	\$ 8,448.00	\$ 8,646.00	\$ 8,910.00	\$ 9,174.00	\$ 9,438.00	\$ 9,768.00	\$ (5,624.00) -100.0%

SCHEDULE 15B - WASTEWATER RATE SURVEY

Provider	Bill Frequency	Base Charge	Volume Rate /			Rate Usage	Rates		Web site contact / Rate Information	Major Facility Fee (Connection Charge)	Name	Comments	Connection Charge Web site contact / Rate Information
			1,000 gallons	1,000 gallons	1,000 gallons		12,000	200,000					
Cecil County Existing (FY 13)	Quarterly	\$ 84.40	\$ 8.44	> 10,000	10,000	\$ 101.28	\$ 1,688.00	http://www.ccg.org/dept_finance/WaterandWastewater.cfm	\$ 8,000				
Cecil County Proposed (FY 14)	Quarterly	\$ 89.30	\$ 8.93	> 10,000	10,000	\$ 107.16	\$ 1,786.00	Schedule 15A - Sample Bills	\$ 16,100				
Cecilton	Quarterly	\$ 62.42	\$ 10.85	> 5,000	5,000	\$ 138.37	\$ 2,178.17	Called - 410-275-2692	\$ 9,525				
Charlestown	Quarterly	\$ 63.25	\$ 5.30	> 15,000	15,000	\$ 63.25	\$ 1,043.75	http://www.charlestownmd.org/utilities.html	\$ 6,000				
Chesapeake City - In-Town	Quarterly	\$ 165.00	\$ 6.85	All Usage	-	\$ 247.20	\$ 1,535.00	http://www.chesapeakecityandgovutilities.com	\$ 9,000				
Chesapeake City - Out-Town	Quarterly	\$ 247.50	\$ 10.28	All Usage	-	\$ 370.86	\$ 2,303.50	http://www.chesapeakecityandgovutilities.com	\$ 9,000				
Elkton In-Town	Quarterly	\$ 81.54	\$ 9.16	9.52 \$	10.00	9,000	\$ 108.72	http://www.elkton.org/dept_finance/index.cfm	\$ 10,000	Major Facilities Charge		http://www.elkton.org/Title%2013.pdf	
Elkton Out-of-Town	Quarterly	\$ 145.26	\$ 16.14	16.94 \$	17.78	9,000	\$ 193.68	http://www.elkton.org/dept_finance/index.cfm	\$ 10,000	Major Facilities Charge		http://www.elkton.org/Title%2013.pdf	
Perryville	Quarterly	\$ 28.38	\$ 6.15	> 2,500	2,500	\$ 86.81	\$ 1,243.01	http://www.perryvillemd.org/water_sewer.html	\$ 5,000	Connection Fee	varies by meter size	http://www.perryvillemd.org/documents/ApplicationsforSanitaryPermit.pdf	
Rising Sun - In-Town	Quarterly	\$ 19.00	\$ 5.26	> 25,000	25,000	\$ 283.75	\$ 1,560.00	http://www.risingmsd.org/egov/docs/130827651_72143.pdf	\$ 8,000	Sewer Capital Improvement Fee	per 250 gpd flow	http://www.risingmsd.org/egov/docs/122078388_201202.pdf	
Rising Sun - Outside Town	Quarterly	\$ 19.00	\$ 10.52	> 15,000	15,000	\$ 145.24	\$ 2,123.00	http://www.risingmsd.org/egov/docs/130827651_72143.pdf	\$ 8,000	Sewer Capital Improvement Fee	per 250 gpd flow	http://www.risingmsd.org/egov/docs/122078388_201202.pdf	
Aberdeen	Quarterly	\$ 17.02	\$ 4.85	> 3,500	3,500	\$ 58.25	\$ 970.05	http://www.aberdeen.md.us/storage/temp/FY%202014%20Budget.pdf	\$ 5,400	Sanitary Sewer Area Connection Ch	per 250 gpd flow	http://www.aberdeen.md.us/storage/temp/FY%202014%20Budget.pdf	
Harford County	Quarterly	\$ 5.61	\$ 3.09	3.69	Excess Tiers	32,000	\$ 42.69	http://harfordcountymd.granicus.com/MetaViewer.php?meta_id=609	\$ 6,661	Area Charge, Seacharge and System Allocation Fee	den fee, increase 6% each July 1st based on property use	http://www.harfordcountymd.gov/dpw/w/download/1484.pdf	
Kent County	Quarterly	\$ 154.86	\$ 154.86	All Usage	-	\$ 154.86	\$ 154.86	http://www.kentcountymd.gov/water/pdfs/rates.pdf	\$ 11,800	Allocation Fee	based on property use	http://www.kentcountymd.gov/water/pdf/allocationfees.pdf	
Kent County, DE	Quarterly	\$ 70.55	\$ 2.34	All Usage	-	\$ 98.63	\$ 538.55	http://www.co.kent.de.us/Departments-PublicWorks/documents/WEI	\$ 3,528	County + District Impact Fees for 2012		http://www.kentcountymd.gov/water/pdf/allocationfees.pdf	
Newark, DE	Quarterly	\$ -	\$ 5.52	All Usage	-	\$ 66.30	\$ 1,104.97	http://www.2.ncde.org/finance/Documents/BillingDocuments/Freque	varies	Capital Recovery Fee	per gpd	http://www.2.ncde.org/specifiers/FAQ/default.aspx	
New Castle County, DE	Monthly	\$ 26.00	\$ 6.90	> 2,000	2,000	\$ 147.00	\$ 1,444.20	http://www.west-chester.com/pdfs/2013-sewer.pdf	\$ 2,332	Tapping Fee		http://ecode360.com/documents/626996	
Chester County, PA (West Chester Borough)	Quarterly	\$ 81.99	\$ 81.99	> 5,000	5,000	\$ 132.00	\$ 2,200.00	http://www.las.org/casioneer-services/rates-and-fees/residential	\$ 750	Tapping Fee	capacity and collection components	http://ecode360.com/documents/LA2735/Part%201%20Appendix%20B.pdf#search=connection	
Lancaster County, PA	Quarterly	\$ 55.00	\$ 11.00	> 5,000	5,000	\$ 132.00	\$ 2,200.00	http://www.oxfordsewer.org/pages/rates.htm	\$ 3,000	Connection Fee		http://westmanheimpa.com/uploads/Files/PDF%20for%20Utilities%20	
Oxford, PA	Quarterly	\$ 165.00	\$ 2.00	\$ 10.00	\$ 12.50	000, Over 20,000	\$ 205.00	\$ 2,535.00					

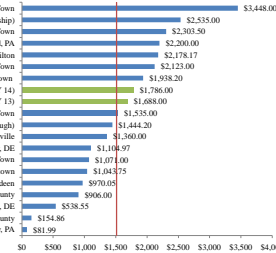
Average \$133.16



Average \$133.16

Cecil County Existing (FY 13)	Quarterly	\$ 84.40	\$ 8.44	> 10,000	10,000	\$ 101.28	\$ 1,688.00	http://www.ccg.org/dept_finance/WaterandWastewater.cfm	\$ 8,000			
Cecil County Proposed (FY 14)	Quarterly	\$ 89.30	\$ 8.93	> 10,000	10,000	\$ 107.16	\$ 1,786.00	Schedule 15A - Sample Bills	\$ 16,100			
Cecilton	Quarterly	\$ 62.42	\$ 10.85	> 5,000	5,000	\$ 138.37	\$ 2,178.17	Called - 410-275-2692	\$ 9,525			
Charlestown	Quarterly	\$ 63.25	\$ 5.30	> 15,000	15,000	\$ 63.25	\$ 1,043.75	http://www.charlestownmd.org/utilities.html	\$ 6,000			
Chesapeake City - In-Town	Quarterly	\$ 165.00	\$ 6.85	All Usage	-	\$ 247.20	\$ 1,535.00	http://www.chesapeakecityandgovutilities.com	\$ 9,000			
Chesapeake City - Out-Town	Quarterly	\$ 247.50	\$ 10.28	All Usage	-	\$ 370.86	\$ 2,303.50	http://www.chesapeakecityandgovutilities.com	\$ 9,000			
Elkton In-Town	Quarterly	\$ 81.54	\$ 9.16	9.52 \$	10.00	9,000	\$ 108.72	http://www.elkton.org/dept_finance/index.cfm	\$ 10,000	Major Facilities Charge		http://www.elkton.org/Title%2013.pdf
Elkton Out-of-Town	Quarterly	\$ 145.26	\$ 16.14	16.94 \$	17.78	9,000	\$ 193.68	http://www.elkton.org/dept_finance/index.cfm	\$ 10,000	Major Facilities Charge		http://www.elkton.org/Title%2013.pdf
Perryville	Quarterly	\$ 28.38	\$ 6.15	> 2,500	2,500	\$ 86.81	\$ 1,243.01	http://www.perryvillemd.org/water_sewer.html	\$ 5,000	Connection Fee	varies by meter size	http://www.perryvillemd.org/documents/ApplicationsforSanitaryPermit.pdf
Rising Sun - In-Town	Quarterly	\$ 19.00	\$ 5.26	> 25,000	25,000	\$ 283.75	\$ 1,560.00	http://www.risingmsd.org/egov/docs/130827651_72143.pdf	\$ 8,000	Sewer Capital Improvement Fee	per 250 gpd flow	http://www.risingmsd.org/egov/docs/122078388_201202.pdf
Rising Sun - Outside Town	Quarterly	\$ 19.00	\$ 10.52	> 15,000	15,000	\$ 145.24	\$ 2,123.00	http://www.risingmsd.org/egov/docs/130827651_72143.pdf	\$ 8,000	Sewer Capital Improvement Fee	per 250 gpd flow	http://www.risingmsd.org/egov/docs/122078388_201202.pdf
Aberdeen	Quarterly	\$ 17.02	\$ 4.85	> 3,500	3,500	\$ 58.25	\$ 970.05	http://www.aberdeen.md.us/storage/temp/FY%202014%20Budget.pdf	\$ 5,400	Sanitary Sewer Area Connection Ch	per 250 gpd flow	http://www.aberdeen.md.us/storage/temp/FY%202014%20Budget.pdf
Harford County	Quarterly	\$ 168.00	\$ 3.09	3.69	Excess Tiers	21,000,000	\$ 205.08	http://harfordcountymd.granicus.com/MetaViewer.php?meta_id=609	\$ 4,614	Area Charge, Seacharge and System Allocation Fee	den fee, increase 6% each July 1st based on property use	http://www.harfordcountymd.gov/dpw/w/download/1484.pdf
Kent County	Quarterly	\$ 154.86	\$ 154.86	All Usage	-	\$ 154.86	\$ 154.86	http://www.kentcountymd.gov/water/pdfs/rates.pdf	\$ 11,800	Allocation Fee	based on property use	http://www.kentcountymd.gov/water/pdf/allocationfees.pdf
Kent County, DE	Quarterly	\$ 70.55	\$ 2.34	All Usage	-	\$ 98.63	\$ 538.55	http://www.co.kent.de.us/Departments-PublicWorks/documents/WEI	\$ 3,528	County + District Impact Fees for 2012		http://www.kentcountymd.gov/water/pdf/allocationfees.pdf
Newark, DE	Quarterly	\$ -	\$ 5.52	All Usage	-	\$ 66.30	\$ 1,104.97	http://www.2.ncde.org/finance/Documents/BillingDocuments/Freque	varies	Capital Recovery Fee	per gpd	http://www.2.ncde.org/specifiers/FAQ/default.aspx
New Castle County, DE	Monthly	\$ 26.00	\$ 6.90	> 2,000	2,000	\$ 147.00	\$ 1,444.20	http://www.west-chester.com/pdfs/2013-sewer.pdf	\$ 2,332	Tapping Fee		http://ecode360.com/documents/626996
Chester County, PA (West Chester Borough)	Quarterly	\$ 81.99	\$ 81.99	> 5,000	5,000	\$ 132.00	\$ 2,200.00	http://www.las.org/casioneer-services/rates-and-fees/residential	\$ 750	Tapping Fee	capacity and collection components	http://ecode360.com/documents/LA2735/Part%201%20Appendix%20B.pdf#search=connection
Lancaster County, PA	Quarterly	\$ 55.00	\$ 11.00	> 5,000	5,000	\$ 132.00	\$ 2,200.00	http://www.oxfordsewer.org/pages/rates.htm	\$ 3,000	Connection Fee		http://westmanheimpa.com/uploads/Files/PDF%20for%20Utilities%20
Oxford, PA	Quarterly	\$ 165.00	\$ 2.00	\$ 10.00	\$ 12.50	000, Over 20,000	\$ 205.00	\$ 2,535.00				

Average \$151.70



Average \$151.70

SCHEDULE 16 - OPERATING CASH FLOW

WASTEWATER	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
<u>Revenues</u>										
Usage Charges (User Defined Rates - Current Rate Design)	-	4,026,058	4,235,393	4,639,911	5,114,910	5,563,143	6,174,848	6,614,011	7,043,952	7,494,227
Misc. Other Revenues	252,260	531,973	232,900	241,122	251,180	265,330	285,981	297,416	307,512	317,608
Total Revenues	252,260	4,558,031	4,468,293	4,881,033	5,366,091	5,828,473	6,460,829	6,911,427	7,351,465	7,811,835
<u>Expenses</u>										
Operating Expenses	2,127,138	2,570,261	2,930,859	2,784,509	2,840,470	2,866,856	3,140,541	2,981,927	3,130,520	3,334,440
Operating Reserve Contribution	-	-	-	-	-	-	-	-	-	-
Existing Debt Service	1,114,918	1,101,365	1,148,071	1,178,261	1,173,886	1,169,958	1,165,995	1,161,489	1,157,577	1,154,075
Cash Funded Capital Projects	-	-	1,167,038	520,000	1,187,000	1,545,000	545,000	500,000	-	-
Projected Debt Service	-	-	-	675,955	675,955	1,398,569	1,398,569	1,501,985	1,501,985	1,501,985
3R Reserve Contribution	-	-	-	-	-	-	-	-	-	-
Cumulative Capital Cash Flow Shortfall	-	-	-	-	-	-	-	-	-	-
Total Expenses	3,242,056	3,671,626	5,245,968	5,158,725	5,877,312	6,980,384	6,250,105	6,145,401	5,790,083	5,990,501
Net Surplus / (Deficit)	\$ (2,989,796)	\$ 886,404	\$ (777,675)	\$ (277,692)	\$ (511,221)	\$ (1,151,911)	\$ 210,724	\$ 766,026	\$ 1,561,382	\$ 1,821,335

SCHEDULE 17 - FUND BALANCE

WASTEWATER	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	
Cash Balance	<i>Source: Cash Source.xls</i>																			
Beginning Cash Balance	2,362,362	736,100	1,320,927	1,524,451	2,313,616	2,348,075	7,749,508	8,292,707	4,670,911	1,396,445	2,715,059	1,964,534	1,706,488	1,212,332	72,544	283,994	1,052,860	2,624,770	2,624,770	
Operating and Maintenance Reserve Contribution																				
Operating and Maintenance Reserve Withdrawal																				
Operating Cash Flow Surplus / (Shortfall)	1,332,818	1,082,407	3,005,990	(1,337,903)	1,093,932	1,064,319	770,301													
Cash from Capital	(3,012,838)	(520,052)	(2,821,837)	2,102,473	(1,073,678)	4,215,820	(309,485)													
Advances from General Fund				6,937	(6,937)															
Cash from investments	53,758	22,472	19,371	17,658	21,142	121,294	82,381													
Ending Cash Balance	\$ 2,362,362	\$ 736,100	\$ 1,320,927	\$ 1,524,451	\$ 2,313,616	\$ 2,348,075	\$ 7,749,508	\$ 8,292,707	\$ 4,670,911	\$ 1,396,445	\$ 2,715,059	\$ 1,964,534	\$ 1,706,488	\$ 1,212,332	\$ 72,544	\$ 283,994	\$ 1,052,860	\$ 2,624,770	\$ 4,472,352	
			3.1%	1.5%	1.2%	0.9%	5.2%	1.1%												
Capital Cash Balance																				
Beginning Capital Cash Balance												1,581,657	2,839,160	4,027,812	5,635,729	6,638,937	11,457,891	11,467,840	11,452,672	
Capital Cash Flow Surplus / (Shortfall)											1,581,657	1,257,503	1,188,652	1,607,917	1,003,208	4,818,954	9,949	(15,168)	87,194	
Ending Capital Cash Balance									\$ -	\$ -	\$ 1,581,657	\$ 2,839,160	\$ 4,027,812	\$ 5,635,729	\$ 6,638,937	\$ 11,457,891	\$ 11,467,840	\$ 11,452,672	\$ 11,539,866	
3R Reserve																				
Beginning 3R Reserve																				
Restricted 3R Reserve Contribution																				
Restricted 3R Reserve Withdrawal																				
Ending 3R Reserve	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Fund Balance	\$ 4,670,911	\$ 1,396,445	\$ 4,296,716	\$ 4,803,695	\$ 5,734,300	\$ 6,848,061	\$ 6,711,481	\$ 11,741,885	\$ 12,520,700	\$ 14,077,442	\$ 16,012,219									

SCHEDULE 18 - DEBT COVERAGE

WASTEWATER	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Ending Cash Balance	\$ 1,396,445	\$ 2,715,059	\$ 1,964,534	\$ 1,706,488	\$ 1,212,332	\$ 72,544	\$ 283,994	\$ 1,052,860	\$ 2,624,770	\$ 4,472,352
Debt Service										
Existing Debt Service	\$ 1,114,918	\$ 1,101,365	\$ 1,148,071	\$ 1,178,261	\$ 1,173,886	\$ 1,169,958	\$ 1,165,995	\$ 1,161,489	\$ 1,157,577	\$ 1,154,075
Projected Debt Service	\$ -	\$ -	\$ -	\$ 675,955	\$ 675,955	\$ 1,398,569	\$ 1,398,569	\$ 1,501,985	\$ 1,501,985	\$ 1,501,985
Total Debt Service	\$ 1,114,918	\$ 1,101,365	\$ 1,148,071	\$ 1,854,216	\$ 1,849,841	\$ 2,568,528	\$ 2,564,564	\$ 2,663,474	\$ 2,659,562	\$ 2,656,061
Debt Coverage Ratio	1.25	2.47	1.71	0.92	0.66	0.03	0.11	0.40	0.99	1.68

SCHEDULE 19 - WASTEWATER MAJOR FACILITIES FEES

Equivalent Living Unit (ELU) = 220 GPD

System Buy-In Method (Historical Costs)				
		Treatment	Conveyance	Total
Current Capacity (MGD)		3.19	3.19	3.19
Available Capacity (MGD)		1.64	1.64	1.64
Available Capacity (%)		51%	51%	
Trended Net Book Value by System Asset [Wastewater]				
Autos	\$ 213,910	\$ 213,910	\$ -	\$ 213,910
Buildings	\$ 7,856,424	\$ 7,856,424	\$ -	\$ 7,856,424
Land	\$ 447,769	\$ 447,769	\$ -	\$ 447,769
Land Improvements	\$ 954,657	\$ 954,657	\$ -	\$ 954,657
Machinery & Equipment	\$ 19,096,583	\$ 19,096,583	\$ -	\$ 19,096,583
Sewer Lines	\$ 16,713,090	\$ -	\$ 16,713,090	\$ 16,713,090
Total		\$ 28,569,344	\$ 16,713,090	\$ 45,282,434
Total Cost Allocated to Growth		\$ 14,701,775	\$ 8,600,551	\$ 23,302,326
Capacity Available (MGD)		1.64	1.64	1.64
Unit Cost (GPD; in \$)		\$ 8.97	\$ 5.25	\$ 14.22
Major Facility Fee per ELU (220 GPD)		\$ 1,973.39	\$ 1,154.44	\$ 3,127.83
Major Facility Fee per ELU (220 GPD)	ELUs	7,450		\$ 3,200.00

Incremental Method (Future Costs)				
		Treatment	Conveyance	Total
Future Additional Capacity (MGD)		-	-	-
Percent Available for Growth		100%	100%	
Cash Funded Capital Projects (FY 13-FY 18)		\$ 1,234,800	\$ 3,628,750	\$ 4,863,550
Debt Funded Capital Projects				
via County Bonds				
Capital Projects to be Bond Funded	\$ 13,740,000	\$ 23,625,000	\$ 37,365,000	
Administrative Costs (% of principal)	5.0%	\$ 687,000	\$ 1,181,250	\$ 1,868,250
Total Principal	\$ 14,427,000	\$ 24,806,250	\$ 39,233,250	
Interest Rate	4.0%			
Period (years)	20			
Debt Service for County Bonds	\$ 21,231,278	\$ 36,505,746	\$ 57,737,024	
via State Borrowing				
Capital Projects to be Loan Funded	\$ 13,666,614	\$ 12,330,000	\$ 25,996,614	
Administrative Costs (% of principal)	5.0%	\$ 683,331	\$ 616,500	\$ 1,299,831
Total Principal	\$ 14,349,944	\$ 12,946,500	\$ 27,296,444	
Interest Rate	2.0%			
Period (years)	20			
Debt Service for State Borrowing	\$ 17,551,910	\$ 15,835,309	\$ 33,387,219	
Debt Funded Capital Projects (FY 13-FY 18)	\$ 38,783,188	\$ 52,341,055	\$ 91,124,243	
Total Costs	\$ 40,017,988	\$ 55,969,805	\$ 95,987,793	
Capacity Available (MGD)		-	-	-
Unit Cost (GPD; in \$)		\$ -	\$ -	\$ -
Major Facility Fee per ELU (220 GPD)		\$ -	\$ -	\$ -
Major Facility Fee per ELU (220 GPD)	ELUs	-		\$ -

Hybrid Method (Historical and Future Costs)				
		Treatment	Conveyance	Total
Capacity by Asset (MGD)		3.19	3.19	3.19
Percent Available for Growth		51%	51%	
Total Costs	\$ 54,719,763	\$ 64,570,356	\$ 119,290,119	
Capacity Available (MGD)		1.64	1.64	1.64
Unit Cost (GPD; in \$)		\$ 33.39	\$ 39.40	\$ 72.78
Major Facility Fee per ELU (220 GPD)		\$ 7,344.93	\$ 8,667.16	\$ 16,012.10
Major Facility Fee per ELU (220 GPD)	ELUs	7,450		\$ 16,100.00

SCHEDULE 20 - WASTEWATER UNIVERSAL BENEFIT ASSESSMENT FEES

Incremental Method (Future Costs)		
Cash Funded Capital Projects (FY 13-FY 18)	\$	791,250
Debt Funded Capital Projects		
via County Bonds		
Capital Projects to be Bond Funded	\$	-
Administrative Costs (% of principal)	5.0%	\$ -
Total Principal	\$	-
Interest Rate	4.0%	
Period (years)	20	
Debt Service for County Bonds	\$	-
via State Borrowing		
Capital Projects to be Loan Funded	\$	-
Administrative Costs (% of principal)	5.0%	\$ -
Total Principal	\$	-
Interest Rate	2.0%	
Period (years)	20	
Debt Service for State Borrowing	\$	-
Debt Funded Capital Projects (FY 13-FY 18)	\$	-
Total Costs	\$	791,250
Improved/Benefited ELUs		
Unit Cost (per Lot)	\$	-
Payable over 20 Years	\$	-

Payable over 20 Years (unit cost amortized - includes cash fun #DIV/0!

Capital Projects to be Funded by Benefit Assessment Fees	Carpenters Point Sewer	Construct Hances Point Sewer System	Construct Red Point Sewer Collection System	Construct Holloway Beach Sewer	Construct Crystal Beach Sewer Collection System	Construct East Old Philadelphia Road Sewer Collection System	Construct West Old Philadelphia Road Sewer Collection System	Total
County Paygo	-	825,000	-	281,250	-	142,500	367,500	1,616,250
County Bonds	-	-	375,000	-	-	-	-	375,000
State (Loans)	-	6,750,000	1,125,000	-	-	-	-	7,875,000
Federal (Grants)	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
	-	7,575,000	1,500,000	281,250	-	142,500	367,500	
Improved/Benefited ELUs by Project								
Total	-	10,100,000	2,000,000	375,000	-	190,000	490,000	

SCHEDULE 21 - SEPTAGE MAJOR FACILITIES FEES

Incremental Method (Future Costs)		
Cash Funded Capital Projects (FY 13-FY 20)	\$	-
Debt Funded Capital Projects		
via County Bonds		
Capital Projects to be Bond Funded	\$	-
Administrative Costs (% of principal)	5.0%	\$ -
Total Principal	\$	-
Interest Rate	4.0%	
Period (years)	20	
Debt Service for County Bonds	\$	-
via State Borrowing		
Capital Projects to be Loan Funded	\$	-
Administrative Costs (% of principal)	5.0%	\$ -
Total Principal	\$	-
Interest Rate	2.0%	
Period (years)	20	
Debt Service for State Borrowing	\$	-
Debt Funded Capital Projects (FY 13-FY 20)	\$	-
Total Costs	\$	-
Number of Future Septic Users for life of facilities		4,600
Unit Cost (per Septic User)	\$	-
Unit Cost (per Septic User)	\$	-

- Capital Projects to be Funded by Benefit**
- Assessment Fees**
- County Paygo**
- County Bonds**
- State (Loans)**
- Federal (Grants)**
- Other**

Total _____

SCHEDULE 22 - CAPITAL CASH FLOW

WASTEWATER			FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Revenues															
			Fee per ELU Expires by												
Existing Benefit Assessment Fees															
<i>Number of New ELUs</i>															
Carpenters Point			2	2	2	12	12	7	7	7					
Meadowview			23	33	58	101	271	116	116	116					
Cherry Hill			22	15	20	20	20	19	19	19					
Cecil/ Mauldin			44	34	29	49	49	40	40	40					
N.E. Industrial/ Lakeside			88	12	12	12	12	12	12	12					
Benefit Assessment															
Carpenters Point			\$ 8,800	FY 2045	\$ 8,800	8,800	8,800	8,800	8,800	8,800	8,800	8,800	8,800	8,800	8,800
Meadowview			\$ 1,752	FY 2027	\$ 1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752
Cherry Hill			\$ 4,200	FY 2024	\$ 4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200
Cecil/ Mauldin			\$ 1,275	FY 2027	\$ 1,275	1,275	1,275	1,275	1,275	1,275	1,275	1,275	1,275	1,275	1,275
N.E. Industrial/ Lakeside			\$ 1,650	FY 2024	\$ 1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650
Total Existing Benefit Assessment Fees			\$ 351,596		\$ 201,566	\$ 259,991	\$ 448,827	\$ 746,667	\$ 414,263	\$ 414,263	\$ 414,263	\$ 414,263	\$ 414,263	\$ 414,263	\$ 414,263
Wastewater Major Facilities Fees															
<i>Number of New ELUs</i>															
Residential (New)			255	144	171	266	379	240	240	240					
Residential (Existing)			13	17	17	22	22	20	20	20					
Commercial/Industrial			33	54	75	82	139	88	88	88					
<i>Major Facility Fee</i>															
Residential (New)			\$ 8,000	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100
Residential (Existing)			\$ 3,500	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100
Commercial/Industrial			\$ 14,000	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100	\$ 16,100
Total Wastewater Major Facilities Fees			\$ 2,547,500	\$ 3,461,500	\$ 4,234,300	\$ 5,957,000	\$ 8,694,000	\$ 5,586,700	\$ 5,586,700	\$ 5,586,700	\$ 5,586,700	\$ 5,586,700	\$ 5,586,700	\$ 5,586,700	\$ 5,586,700
Wastewater Benefit Assessment Fees															
<i>Number of New ELUs</i>															
Benefit Assessment Fee			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Wastewater Benefit Assessment Fees			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenues			\$ 2,899,096	\$ 3,663,066	\$ 4,494,291	\$ 6,405,827	\$ 9,440,667	\$ 6,000,963	\$ 6,000,963	\$ 6,000,963	\$ 6,000,963	\$ 6,000,963	\$ 6,000,963	\$ 6,000,963	\$ 6,000,963
Expenses															
Existing Debt Service			1,186,793	1,215,317	1,209,277	1,203,684	1,197,777	1,191,051	1,184,919	1,179,336					
Projected Debt Service			-	1,259,097	1,259,097	1,823,936	1,823,936	4,556,212	4,556,212	4,734,433					
Cash Funded Capital Projects			454,800	-	418,000	2,375,000	1,600,000	243,750	275,000	-					
Total Expenses			\$ 1,641,593	\$ 2,474,414	\$ 2,886,374	\$ 5,402,619	\$ 4,621,713	\$ 5,991,013	\$ 6,016,131	\$ 5,913,768					
Capital Cash Flow Surplus / (Shortfall)			\$ 1,257,503	\$ 1,188,652	\$ 1,607,917	\$ 1,003,208	\$ 4,818,954	\$ 9,949	\$ (15,168)	\$ 87,194					
Ending Capital Cash Balance			1,581,657	2,839,160	4,027,812	5,635,729	6,638,937	11,457,891	11,467,840	11,452,672	11,539,866				
Capital Cash Flow Shortfall to be added to User Rate Revenue Requirement			-	-	-	-	-	-	-	-	-	-	-	-	-
Septage Major Facilities Fees															
<i>Number of New Users</i>															
Major Facility Fee			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Septage Major Facilities Fees			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

SCHEDULE 23 - WASTEWATER EXTRA-STRENGTH SURCHARGE RATES

Total Net Required Revenue **FY 14**
\$ 4,917,603

Annual FY 2011 Wastewater Treatment and Laboratory O&M Expenses

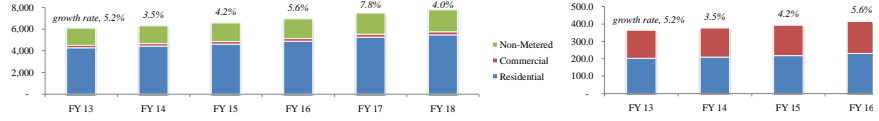
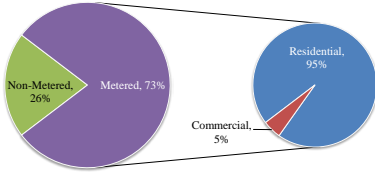
Item	Biochemical Oxygen Demand, 5 day	Total Suspended Solids	Phosphorus (Organic and Inorganic)
	BOD₅	TSS	P
	TA	TB	TC
(1) Allocated Costs			
Projected Annual Plant Influent (FY 2014 gallons)	376,716,203	376,716,203	376,716,203
Average Pollutant Concentration (mg/L)	300	300	6.6
Average Pollutant Concentration (lb/gallon)	0.0025	0.0025	0.0001
(2) Plant Influent Pollutant (pounds per year FY 2011)	943,052	943,052	20,747
Surcharge Unit Rate = (1) / (2) \$ per lb	\$ -	\$ -	\$ -

Concentration	Biochemical Oxygen Demand, 5 day	Total Suspended Solids	Phosphorus (Organic and Inorganic)
	BOD₅	TSS	P
Strong	300	350	20
Medium	200	200	10
Weak	100	100	6

Charge for treatment and disposal is \$45 per 1,000 gallons or \$10.00 per ton.

Customers and Usage

ACCOUNTS	FY 12	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Non-Metered	26%	1,344	1,385	1,417	1,465	1,510	1,589	1,645	1,713	1,810	1,951	2,029	2,097	2,166
Residential	95%	3,395	3,469	3,471	4,050	4,072	4,283	4,435	4,620	4,880	5,260	5,470	5,656	5,841
Commercial	5%	178	188	188	206	207	218	226	235	249	268	279	288	298
Metered	74%	3,573	3,657	3,659	4,256	4,279	4,501	4,660	4,855	5,128	5,527	5,748	5,944	6,139
Total Accounts		4,917	5,042	5,076	5,721	5,789	6,090	6,305	6,568	6,938	7,478	7,777	8,041	8,305
growth rate							5.2%	3.5%	4.2%	5.6%	7.8%	4.0%		
USAGE (Gallons)														
Residential	56%	164.0	164.1	182.8	197.8	192.3	202.3	209.4	218.1	230.4	248.4	258.3	267.1	275.8
Commercial	44%	155.9	148.5	151.3	153.2	153.6	161.6	167.3	174.3	184.1	198.4	206.4	213.4	220.4
Total Usage		319.9	312.6	334.0	351.0	345.9	363.9	376.7	392.4	414.5	446.8	464.7	480.4	496.2
growth rate							5.2%	3.5%	4.2%	5.6%	7.8%	4.0%		

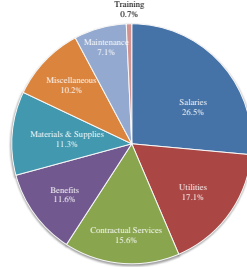


Growth Rates	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
	0.7%	12.7%	1.2%	5.2%	3.5%	4.2%	5.6%	7.8%	4.0%	3.0%	3.3%

O&M Budget

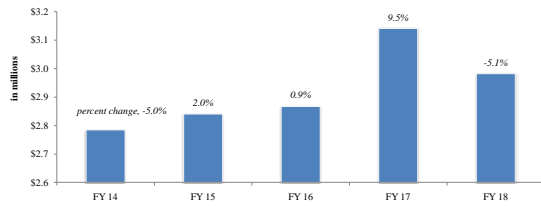
	FY 13
Salaries	\$ 775,405
Utilities	\$ 502,300
Contractual Services	\$ 456,000
Benefits	\$ 340,754
Materials & Supplies	\$ 330,000
Miscellaneous	\$ 298,000
Maintenance	\$ 207,000
Training	\$ 21,400
Total	\$ 2,930,859

Total Operating & Maintenance Expenses FY 13 = \$2.9 million



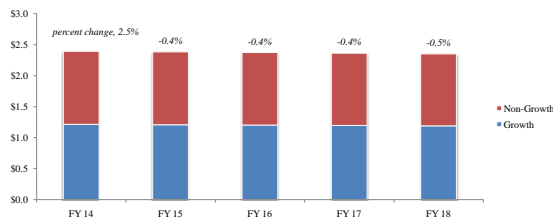
O&M Projections

	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
O&M Direct Expenses	\$ 2,369,057	\$ 2,127,138	\$ 2,570,261	\$ 2,930,859	\$ 2,784,509	\$ 2,840,470	\$ 2,866,856	\$ 3,140,541	\$ 2,981,927	\$ 3,130,520	\$ 3,334,440
Administrative Indirect Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Operating & Maintenance Expenses	\$ 2,369,057	\$ 2,127,138	\$ 2,570,261	\$ 2,930,859	\$ 2,784,509	\$ 2,840,470	\$ 2,866,856	\$ 3,140,541	\$ 2,981,927	\$ 3,130,520	\$ 3,334,440
Wastewater	\$ 2.4	\$ 2.1	\$ 2.6	\$ 2.9	\$ 2.8	\$ 2.8	\$ 2.9	\$ 3.1	\$ 3.0	\$ 3.1	\$ 3.3
percent change		-10.2%	20.8%	14.0%	-5.0%	2.0%	0.9%	9.5%	-5.1%	5.0%	6.5%



Existing Debt Service

	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Non-Growth	\$ 1,120,781	\$ 1,114,918	\$ 1,101,265	\$ 1,148,071	\$ 1,178,261	\$ 1,173,886	\$ 1,169,958	\$ 1,165,995	\$ 1,161,489	\$ 1,157,577	\$ 1,154,075
Growth	\$ 1,134,119	\$ 1,128,237	\$ 1,113,019	\$ 1,186,793	\$ 1,215,317	\$ 1,209,277	\$ 1,203,684	\$ 1,197,777	\$ 1,191,051	\$ 1,184,919	\$ 1,179,336
Non-Growth	\$1.12	\$1.11	\$1.10	\$1.15	\$1.18	\$1.17	\$1.17	\$1.17	\$1.16	\$1.16	\$1.15
Growth	\$1.13	\$1.13	\$1.11	\$1.19	\$1.22	\$1.21	\$1.20	\$1.19	\$1.18	\$1.18	\$1.18
Total	\$2.25	\$2.24	\$2.21	\$2.33	\$2.39	\$2.38	\$2.37	\$2.36	\$2.35	\$2.34	\$2.33
percent change		-0.5%	-1.3%	5.4%	2.5%	-0.4%	-0.4%	-0.4%	-0.5%	-0.4%	-0.4%



Total CIP by Project Type

	FY 11 - FY 20
Treatment Plants	27.9
Pump Stations	0.2
Machinery & Equipment	1.4
Sewer Lines	6.1
Total	\$35.6

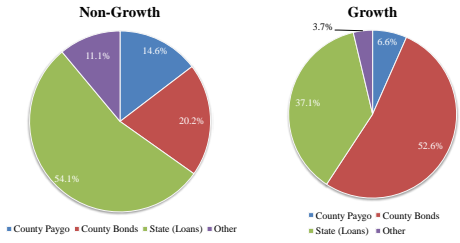
CIP by Project Type

	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 14 to FY 18 Total
Non-Growth										
Treatment Plants	-	-	-	\$2.1	\$11.4	\$6.4	\$4.1	\$0.5	-	\$22.3
Sewer Lines	-	-	-	\$0.6	\$2.2	\$1.1	\$0.1	\$1.6	\$0.5	\$5.5
Pump Stations	-	-	-	-	-	\$0.0	\$0.1	-	-	\$0.2
Machinery & Equipment	-	-	-	-	-	\$0.2	\$1.2	-	-	\$1.4
Total Non-Growth				\$2.7	\$13.6	\$7.7	\$5.4	\$2.1	\$0.5	
Growth										
Treatment Plants	-	-	-	\$1.9	\$19.2	\$7.4	\$0.6	\$3.0	\$0.2	\$30.3
Sewer Lines	-	-	-	-	\$0.6	\$1.2	\$1.6	\$21.6	\$14.5	\$39.6
Pump Stations	-	-	-	-	-	\$0.0	\$0.2	-	-	\$0.2
Machinery & Equipment	-	-	-	-	-	-	-	-	-	-
Total Growth				\$1.9	\$19.9	\$8.6	\$2.4	\$24.6	\$14.7	

*Funding of Balance to Complete from CIP is allocated equally from FY 15 to FY 20

CIP by Funding Source

	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Total
Non-Growth										
County Paygo	-	-	-	\$1.2	\$0.5	\$1.2	\$1.5	\$0.5	\$0.5	\$4.3
County Bonds	-	-	-	\$0.3	\$1.9	\$1.0	\$2.9	\$0.2	-	\$5.9
State (Loans)	-	-	-	-	\$7.9	\$5.6	\$1.0	\$1.4	-	\$15.9
Other	-	-	-	\$1.3	\$3.3	-	-	-	-	\$3.3
Federal (Grants)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	\$2.7	\$13.6	\$7.7	\$5.4	\$2.1	\$0.5	
Growth										
County Paygo	-	-	-	\$0.5	-	\$0.4	\$2.4	\$1.6	\$0.2	\$4.6
County Bonds	-	-	-	\$0.4	\$8.9	\$3.0	-	\$10.5	\$14.5	\$36.9
State (Loans)	-	-	-	-	\$8.3	\$5.2	-	\$12.5	-	\$26.0
Other	-	-	-	\$1.0	\$2.6	-	-	-	-	\$2.6
Federal (Grants)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	\$1.9	\$19.9	\$8.6	\$2.4	\$24.6	\$14.7	



Operating & Maintenance Reserve

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Wastewater O&M Reserve Contribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Beginning Cash Balance (includes Capital Cash)	\$4,670,911	\$1,396,445	\$4,296,716	\$4,803,695	\$5,734,300	\$6,848,061	\$6,711,481	\$11,741,885	\$12,520,700	\$14,077,442
Target Balance	\$524,500	\$633,763	\$722,678	\$686,591	\$700,390	\$706,896	\$774,380	\$735,270	\$771,909	\$822,191

3R Reserve Information

Asset Type	Planned				Required	
	Reinvestment	Replacement Cost	Useful Life	Rate of Reinvestment	Reinvestment	Reinvestment less Planned
Buildings	\$0.0	\$20.0	50	2.00%	\$0.4	\$0.4
Machinery & Equipment	\$0.0	\$33.3	15	6.67%	\$2.2	\$2.2
Sewer Lines	\$0.0	\$45.0	50	2.00%	\$0.9	\$0.9
All Assets	\$0.0	\$98.3			\$3.5	\$3.5

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Required Reinvestment	\$3.5	\$3.5	\$3.5	\$3.7	\$4.5	\$5.0	\$5.3	\$5.4	\$5.4	\$5.4
Planned Reinvestment	-	-	\$2.7	\$13.6	\$7.7	\$5.4	\$2.0	\$0.5	-	-
Required less Planned	\$3.5	\$3.5	\$0.8	\$(9.9)	\$(3.2)	\$(0.4)	\$3.4	\$4.9	\$5.4	\$5.4
Recommended 3R Reserve Contribution	-	-	-	-	-	-	-	-	-	-
Average Net Required Reinvestment Phase in of Contributions	\$1.3	\$1.3	\$1.3	-	-	-	-	-	-	-
Recommended 3R Reserve Contribution	0%	0%	0%	20%	40%	60%	80%	100%	100%	100%



Revenue Requirements - User Rates

	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Operating Costs											
Operating & Maintenance Expenses	2.4	2.1	2.6	2.9	2.8	2.8	2.9	3.1	3.0	3.1	3.3
Operating Reserve Contribution	-	-	-	-	-	-	-	-	-	-	-
Operating Costs Subtotal	\$2.4	\$2.1	\$2.6	\$2.9	\$2.8	\$2.8	\$2.9	\$3.1	\$3.0	\$3.1	\$3.3
Capital Costs											
Existing Debt Service	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Cash Funded Capital Projects	-	-	-	1.2	0.5	1.2	1.5	0.5	0.5	-	-
Projected Debt Service	-	-	-	-	0.7	0.7	1.4	1.4	1.5	1.5	1.5
3R Reserve Contribution	-	-	-	-	-	-	-	-	-	-	-
Cumulative Capital Cash Flow Shortfall	-	-	-	-	-	-	-	-	-	-	-
Capital Costs Subtotal	\$1.1	\$1.1	\$1.1	\$2.3	\$2.4	\$3.0	\$4.1	\$3.1	\$3.2	\$2.7	\$2.7
Total Revenue Requirement	\$3.5	\$3.2	\$3.7	\$5.2	\$5.2	\$5.9	\$7.0	\$6.3	\$6.1	\$5.8	\$6.0
Less: Miscellaneous Other Revenues	(0.3)	(0.3)	(0.5)	(0.2)	(0.2)	(0.3)	(0.3)	(0.3)	(0.3)	(0.3)	(0.3)
Net Revenue Requirement	\$3.2	\$3.0	\$3.1	\$5.0	\$4.9	\$5.6	\$6.7	\$6.0	\$5.8	\$5.5	\$5.7
Projected Revenue with Existing Rates		3.4	4.3	4.6	4.8	5.0	5.2	5.7	5.9	6.1	6.3
Surplus / (Shortfall)		0.5	1.2	(0.4)	(0.1)	(0.7)	(1.5)	(0.3)	0.0	0.6	0.6
Five Year Phased In Rate Increases					5.8%	5.8%	3.0%	3.0%	3.0%		
Breakeven Rate Increase (over current rates)					3.1%	13.2%	28.0%	5.4%	0.0%	0%	0%
Breakeven Rate Increase					12.2%	9.8%	13.0%	0.0%	0.0%		
	3,489,838.35	3,242,056.41	3,671,626.28	5,245,968.34	5,158,725.16	5,877,311.69	6,980,383.62	6,250,104.81	6,145,400.96	5,790,082.80	5,990,500.52

Financial Plan

	FY 14	FY 15	FY 16	FY 17	FY 18
Wastewater System Revenue Increase	5.8%	5.8%	3.0%	3.0%	3.0%

Rates

Current Rate Design - Quarterly Minimum Charge with Unit Rate (Current Rate Structure)

	Current	FY 14	FY 15	FY 16	FY 17	FY 18
Metered						
Minimum Charge (10,000 gallons included)	\$84.40	\$89.30	\$94.50	\$97.30	\$100.20	\$103.20
Volume Charge (per 1,000 gallons, over 10,000)	\$8.44	\$8.93	\$9.45	\$9.73	\$10.02	\$10.32
Non-Metered						
Minimum Charge (based on 15,000 gallons)	\$126.54	\$133.95	\$141.75	\$145.95	\$150.30	\$154.80
Percent Change		5.8%	5.8%	3.0%	3.0%	3.0%
		FY 14	FY 15	FY 16	FY 17	FY 18
Quarterly Flat Rate per ELU		\$121.00	\$128.00	\$131.00	\$135.00	\$139.00
Percent Change		5.8%	5.8%	3.0%	3.0%	3.0%

Sample Bills

Metered Customers

	Quarterly Usage (gallons)	Current	FY 14	FY 15	FY 16	FY 17	FY 18
Res Avg	3,000	\$84.40	\$89.30	\$94.50	\$97.30	\$100.20	\$103.20
	6,000	\$84.40	\$89.30	\$94.50	\$97.30	\$100.20	\$103.20
	12,000	\$101.28	\$107.16	\$113.40	\$116.76	\$120.24	\$123.84
	18,000	\$151.92	\$160.74	\$170.10	\$175.14	\$180.36	\$185.76
All Avg	21,000	\$177.24	\$187.53	\$198.45	\$204.33	\$210.42	\$216.72
	60,000	\$506.40	\$535.80	\$567.00	\$583.80	\$601.20	\$619.20
Com Avg	100,000	\$844.00	\$893.00	\$945.00	\$973.00	\$1,002.00	\$1,032.00
	200,000	\$1,688.00	\$1,786.00	\$1,890.00	\$1,946.00	\$2,004.00	\$2,064.00
	400,000	\$3,376.00	\$3,572.00	\$3,780.00	\$3,892.00	\$4,008.00	\$4,128.00
	800,000	\$6,752.00	\$7,144.00	\$7,560.00	\$7,784.00	\$8,016.00	\$8,256.00

Estimated Annual Usage (gallons)

User	Annual Usage (gallons)	ELUs	Current	FY 11	FY 12	FY 13	FY 14	FY 15
Residential								
Residential	12,000	1	\$70.30	\$0.00	\$114.00	\$114.00	\$121.00	\$128.00
Residential	24,000	1	\$70.30	\$0.00	\$114.00	\$114.00	\$121.00	\$128.00
Res Avg	48,000	1	\$84.36	\$0.00	\$114.00	\$114.00	\$121.00	\$128.00
Residential	72,000	1	\$126.54	\$0.00	\$114.00	\$114.00	\$121.00	\$128.00
Residential	84,000	1	\$147.63	\$0.00	\$114.00	\$114.00	\$121.00	\$128.00
Commercial								
Commercial	240,000	5	\$421.80	\$0.00	\$570.00	\$570.00	\$605.00	\$640.00
Commercial	400,000	8	\$703.00	\$0.00	\$912.00	\$912.00	\$968.00	\$1,024.00
Com Avg	800,000	16	\$1,406.00	\$0.00	\$1,824.00	\$1,824.00	\$1,936.00	\$2,048.00
Commercial	1,600,000	33	\$2,812.00	\$0.00	\$3,762.00	\$3,762.00	\$3,993.00	\$4,224.00
Commercial	3,200,000	66	\$5,624.00	\$0.00	\$7,524.00	\$7,524.00	\$7,986.00	\$8,448.00

Quarterly Usage (gallons)

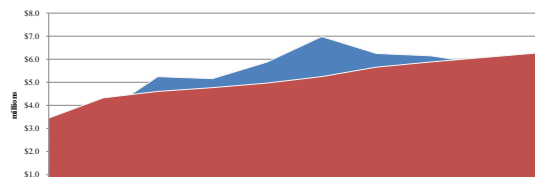
User	Quarterly Usage (gallons)	Estimated Annual Usage (gallons)	Current	Existing FY 11
Residential				
Residential	3,000	12,000	\$70.30	\$70.30
Residential	6,000	24,000	\$70.30	\$70.30
Res Avg	12,000	48,000	\$84.36	\$84.36
Residential	18,000	72,000	\$126.54	\$126.54
Residential	21,000	84,000	\$147.63	\$147.63
Commercial				
Commercial	60,000	240,000	\$421.80	\$421.80
Commercial	100,000	400,000	\$703.00	\$703.00
Com Avg	200,000	800,000	\$1,406.00	\$1,406.00
Commercial	400,000	1,600,000	\$2,812.00	\$2,812.00
Commercial	800,000	3,200,000	\$5,624.00	\$5,624.00

Benefit Assessment Fees

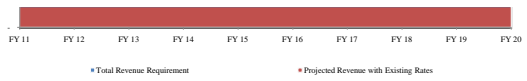
	Project Cost
Collection System	7.6
Hances Point	1.5
Red Point	0.3
Holloway Beach	0.0
Crystal Beach	0.1
East Old Philadelphia Road	0.4
West Old Philadelphia Road	0.4
Total	\$9.9

Capital Cash Flow

	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Revenues											
Existing Benefit Assessment Fees	-	-	-	0.4	0.2	0.3	0.4	0.7	0.4	0.4	0.4
Wastewater Major Facilities Fees	-	-	-	-	-	2.5	4.2	8.7	5.6	5.6	5.6
Total Revenues	-	-	-	\$2.9	\$3.7	\$4.5	\$6.4	\$9.4	\$6.0	\$6.0	\$6.0
Expenses											
Existing Debt Service	-	-	-	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Projected Debt Service	-	-	-	-	-	1.3	1.8	1.8	4.6	4.6	4.7
Cash Funded Capital Projects	-	-	-	0.5	-	0.4	2.4	1.6	0.2	0.3	-
Total Expenses	-	-	-	\$1.6	\$2.5	\$2.9	\$5.4	\$4.6	\$6.0	\$6.0	\$5.9
Capital Cash Flow Surplus / (Shortfall)	-	-	-	\$1.3	\$1.2	\$1.6	\$1.0	\$4.8	\$0.0	\$0.0	\$0.1
Ending Capital Cash Balance	-	-	\$1.6	\$2.8	\$4.0	\$5.6	\$6.6	\$11.5	\$11.5	\$11.5	\$11.5
Capital Cash Flow Shortfall to be added to User Rate Revenue Req	-	-	-	-	-	-	-	-	-	-	-



Cecil County Wastewater Rate Model



Surcharge Rate

Pollutant	Average Pollutant Concentration		
	mg/L	lb/gallon	
Biochemical Oxygen Demand	300.0	0.0025	
Total Suspended Solids	300.0	0.0025	
Phosphorus	6.6	0.0001	
	BOD	TSS	P
Treatment Cost Associated	0	0	0
Plant Influent Pollutant (pounds per year)	943,052	943,052	20,747
Recommended Surcharge Unit Rate (per lb)	\$0.00	\$0.00	\$0.00

Financial Projection

	FY 11	FY 12	FY 13	FY 14	FY 15
Total Revenue Requirement	\$3.24	\$3.67	\$5.25	\$5.16	\$5.88
Less: Miscellaneous Other Revenues	(\$0.25)	(\$0.53)	(\$0.23)	(\$0.24)	(\$0.25)
Net Revenue Requirement	\$2.99	\$3.14	\$5.01	\$4.92	\$5.63
Projected Revenue with Existing Rates	\$3.45	\$4.33	\$4.61	\$4.77	\$4.97
Surplus / (Shortfall)	\$0.46	\$1.19	(\$0.41)	(\$0.15)	(\$0.66)
Breakeven Rate Increase (over current rates)	-13.3%	-27.4%	8.8%	3.1%	13.2%

Financial Projection Scenarios

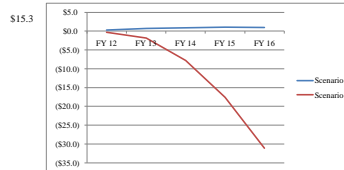
	FY 11	FY 12	FY 13	FY 14	FY 15
Scenario #1 (Indirect Expenses taken out, 50% Reserve)					
Net Revenue Requirement	\$2.99	\$3.14	\$5.01	\$4.92	\$5.63
Projected Revenue with Existing Rates	\$3.45	\$4.33	\$4.61	\$4.77	\$4.97
Surplus / (Shortfall)	\$0.46	\$1.19	(\$0.41)	(\$0.15)	(\$0.66)
Breakeven Rate Increase (over current rates)	-13.3%	-27.4%	8.8%	3.1%	13.2%
Scenario #2 (Indirect Expenses taken out, No Reserve)					
Net Revenue Requirement	\$2.99	\$3.14	\$5.01	\$4.92	\$5.63
Projected Revenue with Existing Rates	\$3.45	\$4.33	\$4.61	\$4.77	\$4.97
Surplus / (Shortfall)	\$0.46	\$1.19	(\$0.41)	(\$0.15)	(\$0.66)
Breakeven Rate Increase (over current rates)	-13.3%	-27.4%	8.8%	3.1%	13.2%

Scenario Analysis

Number of New ELUs		FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Residential (New)	100%	511	255	144	171	266	379	299	264	264
Residential (Existing)	0%	0	0	0	0	0	0	0	0	0
Commercial/Industrial		19	33	54	75	82	139	0	0	0
Scenario:	2	530	288	198	246	348	518	299	264	264

Wastewater Major Facility Fee (per ELU)		FY 12	FY 13	FY 14	FY 15	FY 16
Residential (New)	\$0	\$8,000	\$16,100	\$16,100	\$16,100	\$16,100
Residential (Existing)	\$0	\$3,500	\$16,100	\$16,100	\$16,100	\$16,100
Commercial/Industrial	\$0	\$14,000	\$16,100	\$16,100	\$16,100	\$16,100

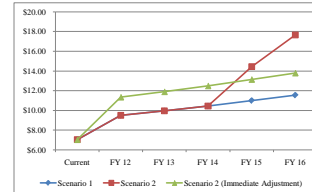
Wastewater Major Facility Fee Revenue	\$0.0	\$2.5	\$3.2	\$4.0	\$5.6
Capital Cash Flow Surplus / (Shortfall)	\$0.0	\$1.3	\$1.2	\$1.6	\$1.0
Cumulative Capital Cash Flow Surplus / (Shortfall)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
User Defined Revenue	\$4.0	\$4.2	\$4.6	\$5.1	\$5.6
Net Revenue Requirement	\$3.1	\$3.0	\$4.9	\$5.6	\$6.7
Annual Surplus / (Shortfall)	\$0.9	(\$0.8)	(\$0.3)	(\$0.5)	(\$1.2)
Cumulative Surplus / (Shortfall)	\$0.9	\$0.1	(\$0.2)	(\$0.7)	(\$1.8)
Operating Cash Flow Surplus / (Shortfall)	\$0.9	(\$0.8)	(\$0.3)	(\$0.5)	(\$1.2)
Ending Cash Balance	\$2.7	\$2.0	\$1.7	\$1.2	\$0.1



Ending Cash Balance: Scenario 1 - Equal MFIs	\$0.3	\$0.7	\$0.9	\$1.1	\$1.0
Ending Cash Balance: Scenario 2 - Different MFIs	(\$0.3)	(\$1.8)	(\$7.8)	(\$17.6)	(\$31.1)
Difference between Scen. 1 and Scen. 2	\$0.6	\$2.6	\$8.7	\$18.7	\$32.0

Change to Scenario 1 and copy paste here
Change to Scenario 2 and copy paste here

S1						
Rate Adjustment	35%	5%	5%	5%	5%	
Ending Cash Balance	\$0.3	\$0.7	\$0.9	\$1.1	\$1.0	
S2-A						
Rate Adjustment	35%	5%	5%	38%	22%	
Ending Cash Balance	\$0.3	\$0.7	\$0.9	\$1.1	\$1.0	
S2-B						
Rate Adjustment	61%	5%	5%	5%	5%	
Ending Cash Balance	\$1.3	\$2.8	\$4.1	\$3.6	\$1.0	
Rate Adjustment						
Scenario 1	35%	5%	5%	5%	5%	
Scenario 2	35%	5%	5%	38%	22%	
Scenario 2 (Immediate Adjustment)	61%	5%	5%	5%	5%	
Volume Charge (per 1,000 gallons)						
Scenario 1	\$7.03	\$9.50	\$9.95	\$10.45	\$11.00	\$11.55
Scenario 2	\$7.03	\$9.50	\$9.95	\$10.45	\$14.45	\$17.65
Scenario 2 (Immediate Adjustment)	\$7.03	\$11.35	\$11.90	\$12.50	\$13.15	\$13.80



Difference in Ending Cash Balance between Scen. 1 and Scen. 2
 Percent of Projected Residential ELUs

	New	Existing	FY 12	FY 13	FY 14	FY 15	FY 16
100%	0%		\$0.0	\$0.0	\$0.0	\$2.2	\$6.2
75%	25%		\$0.0	\$0.0	\$1.4	\$5.5	\$11.8
50%	50%		\$0.0	\$0.0	\$3.0	\$9.0	\$17.7
25%	75%		\$0.1	\$0.8	\$5.4	\$13.4	\$24.4
0%	100%		\$0.6	\$2.6	\$8.7	\$18.7	\$32.0

DEVELOPMENT PROJECTIONS

Projects	FY 10				FY 11								FY 12								FY 13								FY 14								
	2010 Q1		2010 Q2		2010 Q3		2010 Q4		2011 Q1		2011 Q2		2011 Q3		2011 Q4		2012 Q1		2012 Q2		2012 Q3		2012 Q4		2013 Q1		2013 Q2		2013 Q3		2013 Q4		2014 Q1		2014 Q2		
	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH			
RESIDENTIAL																																					
North East Sanitary District																																					
Acorn Crossing (15 single family)																																					
Bayhead Shore Estates (79 single family)	-		-		-		-		8		8		8		8		8		8		8		8		8		7		2		2		2		2		
Bay View Crossing (39 single family)	-		-		-		-		4		4		4		4		4		4		4		4		3												
Bay View Station (7 single family)	-		-		-		-		2		2		2		1																						
Bay View Woods (37 single family)	-		-		4		4		4		4		4		4		4		4		4		1		6		6		6		5						
Bedrock (71 single family)																																					
Candle Light Ridge II (5 single family lots)	5																																				
Chesapeake Club (689 town homes)																																					
Charlestown Crossing (200 SF & 392 TH)					4		4		8		8		8		8		8		8		8		8		8		8		4		4		4		4		
Coolsprings @ Charlestown (216 single family)	-		-		4		4		6		6		6		6		6		6		6		6		6		6		6		6		6		6		
Donna's Village (32 single family)																																					
Elk Nest (27 single family)																																					
Glenmore Retirement Village (127 units)																																					
Harrison Property (2 single family)																																					
Heron Cove (9 SF & 153 TH)																																					
Lee Property (13 single family)																																					
Mews at North East (202 single family)																																					
Montgomery Oaks Sect. II (58 single family)																																					
North Creek Run (71 townhomes)																																					
Northwoods (68 single family)																																					
Paradise Woods (5 single family)																																					
Prelude (4 single family)																																					
Ridgely Forest (80 SF & 557 TH)	8	12	8	12	8	12	8	12	8	12	8	12	8	12	8	12	8	12																			
Saddlebrook (9 single family)					9																																
Sadler Property (8 single family)																																					
Stonebridge (33 single family)																																					
Stoney Run Business Center (15 units)																																					
Valley Stream (5 single family)																																					
Village of Cecil Woods (102 single family)	8		8		8		8		8		8		8		8		8		8		8		6		6		6		6		6		6		6		
Villages of North East (792 townhouses)																																					
Villages of Stoney Run (390 townhouses)																																					
Waverly (14 single family)																																					
Total North East Sanitary District	21	12	16	12	33	16	24	20	48	28	48	36	64	36	67	36	98	36	90	36	78	52	63	52	68	51	57	44	44	44	41	44	32	52	30	52	
Meadowview District																																					
Persimmon Creek 4.5 (48 units)																																					
Aston Pointe Sub. (300 units)																																					
Wohner Property (66 single family)																																					
West Creek (13 apartments)																																					
Total Meadowview District	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	6	-	6	-	6	-	6	-	6	6	6	6	6	6	6	6	6	6	6	6		
Cherry Hill WWTP District																																					
Pines At Cherry Hill (70 townhouses)																																					
Total Cherry Hill WWTP District	-	-	-	-	-	-	-	-	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	6	6	6	6	6	6	6	6	6	6	6		
COMMERCIAL																																					
North East Sanitary District																																					
East Pulaski Plaza (14 units)					2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		
Chesapeake House Service Area (91 units)																																					
Lowe's Store (6 units)																																					
North East Commons (137 units)					2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		
Total North East Sanitary District	-	-	-	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2		
Total New Units per Quarter and Housing Type	21	12	16	12	35	16	26	20	50	34	50	42	66	48	69	48	106	48	97	48	85	64	92	64	103	63	92	56	82	50	54	48	45	52	43	52	
Total New Units per Quarter		33		28		51		46		84		92		114		117		154		145		149		156		166		132		102		97		95			
Total New Units per Fiscal Year																																					
Residential																																					
Residential (New)																																					
Residential (Existing)																																					
Commercial/Industrial																																					

Projects	FY 10					FY 11					FY 12					FY 13				FY 14															
	2010 Q1		2010 Q2		2010 Q3		2010 Q4		2011 Q1		2011 Q2		2011 Q3		2011 Q4		2012 Q1		2012 Q2		2012 Q3		2012 Q4		2013 Q1		2013 Q2		2013 Q3		2013 Q4		2014 Q1		2014 Q2
	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH			

Source: Wastewater Projected Growth Summary (1-25-13).xlsx

Wastewater Growth Projections	Category	FY13	FY14	FY15	FY16	FY17	Total
North East River Advanced Wastewater Treatment Plant	Residential (New)	224	116	121	177	175	813
	Residential (Existing)	11	11	11	16	16	65
	Commercial/Industrial	13	36	47	49	51	196
	Carpenters Point BA	2	2	2	12	12	
	Mauldin Avenue BA	44	34	29	49	49	
NE Industrial/Lakeside BA	88	12	12	12	12		
Meadowview Wastewater Treatment Plant	Residential (New)	13	17	32	70	185	317
	Residential (Existing)	-	2	2	2	2	8
	Commercial/Industrial	10	14	24	29	84	161
	Benefit Assessment	23	33	58	101	271	
Cherry Hill Wastewater Treatment Plant	Residential (New)	18	10	15	15	15	73
	Residential (Existing)	-	1	1	1	1	4
	Commercial/Industrial	4	4	4	4	4	20
	Benefit Assessment	22	15	20	20	20	
Highlands Wastewater Treatment Plant	Residential (New)	-	-	-	-	-	-
	Residential (Existing)	1	1	1	1	1	5
	Commercial/Industrial	3	-	-	-	-	3
Port Deposit Wastewater Treatment Plant	Residential (New)	-	1	3	4	4	12
	Residential (Existing)	-	1	1	1	1	4
	Commercial/Industrial	-	-	-	-	-	-
Harbor View Wastewater Treatment Plant	Residential (New)	-	-	-	-	-	-
	Residential (Existing)	1	1	1	1	1	5
	Commercial/Industrial	3	-	-	-	-	3
Equivalent Living Unit (ELU) Totals	Residential (New)	255	144	171	266	379	1,215
	Residential (Existing)	13	17	17	22	22	91
	Commercial/Industrial	33	54	75	82	139	383

DEVELOPMENT PROJECTIONS

Projects	FY 15								FY 16								FY 17								FY 18							
	2014 Q3		2014 Q4		2015 Q1		2015 Q2		2015 Q3		2015 Q4		2016 Q1		2016 Q2		2016 Q3		2016 Q4		2017 Q1		2017 Q2		2017 Q3		2017 Q4		2018 Q1		2018 Q2	
	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH		
RESIDENTIAL																																
North East Sanitary District																																
Acorn Crossing (15 single family)	3																															
Bayhead Shore Estates (79 single family)																																
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Bay View Station (7 single family)																																
Bay View Woods (37 single family)																																
Bedrock (71 single family)																																
Candle Light Ridge II (5 single family lots)																																
Chesapeake Club (689 town homes)	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8
Charlestown Crossing (200 SF & 392 TH)	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8
Coolsprings @ Charlestown (216 single family)	6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6	
Donna's Village (32 single family)																																
Elk Nest (27 single family)																																
Glenmore Retirement Village (127 units)	6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		1	
Harrison Property (2 single family)																																
Heron Cove (9 SF & 153 TH)		8		8		8		8		8		8		8		8		8		8		8		1								
Lee Property (13 single family)																																
Mews at North East (202 single family)	6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6	
Montgomery Oaks Sect. II (58 single family)																																
North Creek Run (71 townhomes)																																
Northwoods (68 single family)	6		2																													
Paradise Woods (5 single family)																																
Prelude (4 single family)																																
Ridgely Forest (80 SF & 557 TH)		12		12		12		12		12		12		12		12		12		12		12		12		12		12		12		12
Saddlebrook (9 single family)																																
Sadler Property (8 single family)																																
Stonebridge (33 single family)																																
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Valley Stream (5 single family)																																
Village of Cecil Woods (102 single family)																																
Villages of North East (792 townhouses)		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8
Villages of Stoney Run (390 townhouses)		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8
Waverly (14 single family)																																
Total North East Sanitary District	31	52	24	52	22	52	22	52	22	52	22	52	22	52	22	52	22	52	22	52	22	45	22	44	22	44	22	44	17	44		
Meadowview District																																
Persimmon Creek 4.5 (48 units)																																
Aston Pointe Sub. (300 units)	6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6	
Wohner Property (66 single family)																																
West Creek (13 apartments)																																
Total Meadowview District	6	-	6	-	6	-	6	-	6	-	8	-	14	-	14	-	14	-	14	-	14	-	14	-	14	-	14	-	6	-	6	-
Cherry Hill WWTP District																																
Pines At Cherry Hill (70 townhouses)																																
Total Cherry Hill WWTP District	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COMMERCIAL																																
North East Sanitary District																																
East Pulaski Plaza (14 units)																																
Chesapeake House Service Area (91 units)																																
Lowe's Store (6 units)																																
North East Commons (137 units)	7		7		7		7		7		7		7		7		7		4													
Total North East Sanitary District	7	-	7	-	7	-	7	-	7	-	7	-	7	-	7	-	7	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Total New Units per Quarter and Housing Type	44	52	37	52	35	52	35	52	35	52	35	52	35	52	35	52	35	43	52	36	45	36	44	36	44	28	44	23	44	44		
Total New Units per Quarter	96		89		87		87		87		89		95		95		95		95		92		80		80		72					
Total New Units per Fiscal Year																																
Residential																																
Residential (New)																																
Residential (Existing)																																
Commercial/Industrial																																

Projects	FY 15				FY 16				FY 17				FY 18			
	2014 Q3 SF TH	2014 Q4 SF TH	2015 Q1 SF TH	2015 Q2 SF TH	2015 Q3 SF TH	2015 Q4 SF TH	2016 Q1 SF TH	2016 Q2 SF TH	2016 Q3 SF TH	2016 Q4 SF TH	2017 Q1 SF TH	2017 Q2 SF TH	2017 Q3 SF TH	2017 Q4 SF TH	2018 Q1 SF TH	2018 Q2 SF TH
Wastewater Growth Projections																
North East River Advanced Wastewater Treatment Plant																
Meadowview Wastewater Treatment Plant																
Cherry Hill Wastewater Treatment Plant																
Highlands Wastewater Treatment Plant																
Port Deposit Wastewater Treatment Plant																
Harbor View Wastewater Treatment Plant																
Equivalent Living Unit (ELU) Totals																

Source: Wastewater Projected Growth Summary (1-25)

DEVELOPMENT PROJECTIONS

Projects	FY 19								FY 20								FY 21								FY 22											
	2018 Q3		2018 Q4		2019 Q1		2019 Q2		2019 Q3		2019 Q4		2020 Q1		2020 Q2		2020 Q3		2020 Q4		2021 Q1		2021 Q2		2021 Q3		2021 Q4		2022 Q1		2022 Q2					
	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH	SF	TH				
RESIDENTIAL																																				
North East Sanitary District																																				
Acorn Crossing (15 single family)																																				
Bayhead Shore Estates (79 single family)																																				
Bay View Crossing (39 single family)																																				
Bay View Station (7 single family)																																				
Bay View Woods (37 single family)																																				
Bedrock (71 single family)																																				
Candle Light Ridge II (5 single family lots)																																				
Chesapeake Club (689 town homes)	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8		
Charlestown Crossing (200 SF & 392 TH)	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8		
Coolsprings @ Charlestown (216 single family)	6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6			
Donna's Village (32 single family)																																				
Elk Nest (27 single family)																																				
Glenmore Retirement Village (127 units)																																				
Harrison Property (2 single family)																																				
Heron Cove (9 SF & 153 TH)																																				
Lee Property (13 single family)																																				
Mews at North East (202 single family)	6		6		6		6		6		6		6		6		4		4		4		4		4		4		4		4		4		4	
Montgomery Oaks Sect. II (58 single family)																																				
North Creek Run (71 townhomes)																																				
Northwoods (68 single family)																																				
Paradise Woods (5 single family)																																				
Prelude (4 single family)																																				
Ridgely Forest (80 SF & 557 TH)		12		12		12		12		12		12		12		12		12		12		12		12		12		12		12		12		12		
Saddlebrook (9 single family)																																				
Sadler Property (8 single family)																																				
Stonebridge (33 single family)																																				
Stoney Run Business Center (15 units)																																				
Valley Stream (5 single family)																																				
Village of Cecil Woods (102 single family)																																				
Villages of North East (792 townhouses)		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		
Villages of Stoney Run (390 townhouses)		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		
Waverly (14 single family)																																				
Total North East Sanitary District	16	44	16	44	16	44	16	44	16	44	16	44	16	44	10	44	6	44	6	44	6	44	6	44	6	37	6	24	14	24	10	32				
Meadowview District																																				
Persimmon Creek 4.5 (48 units)																																				
Aston Pointe Sub. (300 units)	6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6	
Wohner Property (66 single family)																																				
West Creek (13 apartments)																																				
Total Meadowview District	6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6	
Cherry Hill WWTP District																																				
Pines At Cherry Hill (70 townhouses)																																				
Total Cherry Hill WWTP District	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COMMERCIAL																																				
North East Sanitary District																																				
East Pulaski Plaza (14 units)																																				
Chesapeake House Service Area (91 units)																																				
Lowes Store (6 units)																																				
North East Commons (137 units)																																				
Total North East Sanitary District	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total New Units per Quarter and Housing Type	22	44	22	44	22	44	22	44	22	44	22	44	22	44	16	44	12	44	12	44	12	44	12	44	12	37	12	24	20	24	16	32				
Total New Units per Quarter		66		66		66		66		66		66		66		60		56		56		56		56		49		36		44		48				
Total New Units per Fiscal Year																																				
Residential																																				
Residential (New)																																				
Residential (Existing)																																				
Commercial/Industrial																																				

Projects	FY 19				FY 20				FY 21				FY 22			
	2018 Q3 SF TH	2018 Q4 SF TH	2019 Q1 SF TH	2019 Q2 SF TH	2019 Q3 SF TH	2019 Q4 SF TH	2020 Q1 SF TH	2020 Q2 SF TH	2020 Q3 SF TH	2020 Q4 SF TH	2021 Q1 SF TH	2021 Q2 SF TH	2021 Q3 SF TH	2021 Q4 SF TH	2022 Q1 SF TH	2022 Q2 SF TH
Wastewater Growth Projections																
North East River Advanced Wastewater Treatment Plant																
Meadowview Wastewater Treatment Plant																
Cherry Hill Wastewater Treatment Plant																
Highlands Wastewater Treatment Plant																
Port Deposit Wastewater Treatment Plant																
Harbor View Wastewater Treatment Plant																
Equivalent Living Unit (ELU) Totals																

Source: Wastewater Projected Growth Summary (1-25)

DEVELOPMENT PROJECTIONS

Projects	FY 23								FY 24								FY 25								FY 26				
	2022 Q3 SF	2022 Q3 TH	2022 Q4 SF	2022 Q4 TH	2023 Q1 SF	2023 Q1 TH	2023 Q2 SF	2023 Q2 TH	2023 Q3 SF	2023 Q3 TH	2023 Q4 SF	2023 Q4 TH	2024 Q1 SF	2024 Q1 TH	2024 Q2 SF	2024 Q2 TH	2024 Q3 SF	2024 Q3 TH	2024 Q4 SF	2024 Q4 TH	2025 Q1 SF	2025 Q1 TH	2025 Q2 SF	2025 Q2 TH	2025 Q3 SF	2025 Q3 TH	2025 Q4 SF	2025 Q4 TH	
RESIDENTIAL																													
North East Sanitary District																													
Acorn Crossing (15 single family)																													
Bayhead Shore Estates (79 single family)																													
Bay View Crossing (39 single family)																													
Bay View Station (7 single family)																													
Bay View Woods (37 single family)																													
Bedrock (71 single family)																													
Candle Light Ridge II (5 single family lots)																													
Chesapeake Club (689 town homes)	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-	8	-
Charlestown Crossing (200 SF & 392 TH)	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4	8	4
Coolsprings @ Charlestown (216 single family)	6		6		6		6		6		6		6		6		6		6		6		6		6		6		6
Donna's Village (32 single family)																													
Elk Nest (27 single family)																													
Glenmore Retirement Village (127 units)																													
Harrison Property (2 single family)																													
Heron Cove (9 SF & 153 TH)																													
Lee Property (13 single family)																													
Mews at North East (202 single family)																													
Montgomery Oaks Sect. II (58 single family)																													
North Creek Run (71 townhomes)																													
Northwoods (68 single family)																													
Paradise Woods (5 single family)																													
Prelude (4 single family)																													
Ridgely Forest (80 SF & 557 TH)																													
Saddlebrook (9 single family)																													
Sadler Property (8 single family)																													
Stonebridge (33 single family)																													
Stoney Run Business Center (15 units)																													
Valley Stream (5 single family)																													
Village of Cecil Woods (102 single family)																													
Villages of North East (792 townhouses)		8		8		8		8		8		8		8		8		8		8		8		8		8		8	
Villages of Stoney Run (390 townhouses)		8		8		8		8		8		8		8		8		6		8		8		8		8		8	
Waverly (14 single family)																													
Total North East Sanitary District	10	32	10	32	10	32	10	32	10	32	10	32	10	32	10	32	10	30	10	24	-	8	-	8	-	8	-	8	-
Meadowview District																													
Persimmon Creek 4.5 (48 units)																													
Aston Pointe Sub. (300 units)	6		6		6		6		6		6		6		6														
Wohner Property (66 single family)																													
West Creek (13 apartments)																													
Total Meadowview District	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cherry Hill WWTP District																													
Pines At Cherry Hill (70 townhouses)																													
Total Cherry Hill WWTP District	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COMMERCIAL																													
North East Sanitary District																													
East Pulaski Plaza (14 units)																													
Chesapeake House Service Area (91 units)																													
Lowes Store (6 units)																													
North East Commons (137 units)																													
Total North East Sanitary District	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total New Units per Quarter and Housing Type	16	32	16	32	16	32	16	32	16	32	16	32	16	32	16	32	10	30	10	24	-	8	-	8	-	8	-	8	-
Total New Units per Quarter	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	40	34	34	34	8	8	8	8	8	8	8	8	
Total New Units per Fiscal Year																													
Residential																													
Residential (New)																													
Residential (Existing)																													
Commercial/Industrial																													

Projects	FY 23				FY 24				FY 25				FY 26		
	2022 Q3 SF TH	2022 Q4 SF TH	2023 Q1 SF TH	2023 Q2 SF TH	2023 Q3 SF TH	2023 Q4 SF TH	2024 Q1 SF TH	2024 Q2 SF TH	2024 Q3 SF TH	2024 Q4 SF TH	2025 Q1 SF TH	2025 Q2 SF TH	2025 Q3 SF TH	2025 Q4 SF TH	___
Wastewater Growth Projections															
North East River Advanced Wastewater Treatment Plant															
Meadowview Wastewater Treatment Plant															
Cherry Hill Wastewater Treatment Plant															
Highlands Wastewater Treatment Plant															
Port Deposit Wastewater Treatment Plant															
Harbor View Wastewater Treatment Plant															
Equivalent Living Unit (ELU) Totals															

Source: Wastewater Projected Growth Summary (1-25)

WASTEWATER FLOW AND TREATMENT CAPACITY

Source: Cecil county WWTP Flows.xls

Month	Cecil County WW.T.P. Flows					
	North East River	Cherry Hill	Port Deposit	Highlands	Harborview	Meadowview
Dec - 09	1.389	0.132	0.209	0.067	0.032	0.384
Jan - 10	1.057	0.102	0.150	0.049	0.030	0.350
Feb - 10	1.238	0.111	0.160	0.060	0.028	0.367
March - 10	1.365	0.136	0.151	0.071	0.027	0.388
April - 10	1.086	0.080	0.093	0.051	0.022	0.344
May - 10	0.951	0.091	0.076	0.031	0.019	0.349
June-10	0.864	0.054	0.036	0.023	0.016	0.367
July - 10	0.894	0.054	0.032	0.019	0.018	0.365
Aug - 10	0.849	0.055	0.030	0.020	0.016	0.337
Sept -10	0.854	0.052	0.028	0.026	0.019	0.323
Oct - 10	0.990	0.053	0.055	0.039	0.019	0.349
Nov - 10	0.854	0.054	0.033	0.033	0.018	0.302
Dec - 10	0.842	0.056	0.048	0.035	0.019	0.293
Jan - 11	0.786	0.060	0.038	0.040	0.023	0.302
Feb - 11	1.043	0.073	0.068	0.046	0.028	0.388
March - 11	1.283	0.073	0.117	0.053	0.022	0.350
April - 11	1.117	0.068	0.100	0.065	0.021	0.349
May - 11	0.825	0.060	0.075	0.060	0.017	0.337
June - 11	0.879	0.058	0.057	0.037	0.014	0.332
July - 11	0.825	0.052	0.047	0.034	0.013	0.350
August-11	1.111	0.072	0.064	0.044	0.023	0.379

ERU = 250 GPD

Source: Cecil County Proposed 2010 Comp Plan, Wastewater Assessment, Table 6.5 pg 6-17

	Existing Treatment Capacity ¹		Current Average Daily Flow		Current Available Capacity		Total New Demand through 2030 ²		Total projected demand, 2030		Future Capacity ³		Net Available Projected Capacity, 2030	
	GPD	ERU	GPD	ERU	GPD	ERU	GPD	ERU	GPD	ERU	GPD	ERU	GPD	ERU
Cecilton	100,000	400	60,305	241	39,695	159	63,200	253	123,505	494	100,000	400	(23,505)	(94)
Chesapeake City North*	75,000	300	54,650	219	20,350	81	137,031	548	265,331	1,061	300,000	1,200	34,669	139
Chesapeake City South*	88,000	352	73,650	295	14,350	57								
Elkton*	3,200,000	12,800	1,490,000	5,960	1,710,000	6,840	1,237,500	4,950	2,727,500	10,910	3,200,000	12,800	472,500	1,890
Cherry Hill	250,000	1,000	125,000	500	125,000	500								
Highlands	50,000	200	44,000	176	6,000	24	879,750	3,519	1,508,750	6,035	2,300,000	9,200	791,250	3,165
Meadowview	1,000,000	4,000	460,000	1,840	540,000	2,160								
Perryville*	1,650,000	6,600	720,000	2,880	930,000	3,720	840,000	3,360	1,560,000	6,240	1,650,000	6,600	90,000	360
Port Deposit*	90,000	360	85,000	340	5,000	20	502,000	2,008	587,000	2,348	1,000,000	4,000	413,000	1,652
Rising Sun	275,000	1,100	216,100	864	58,900	236	245,592	982	461,692	1,847	275,000	1,100	(186,692)	(747)
Harbour View	65,000	260	31,000	124	34,000	136	4,950	20	35,950	144	65,000	260	29,050	116
Seneca Point	2,000,000	8,000	1,000,000	4,000	1,000,000	4,000	1,380,000	5,520	2,380,000	9,520	5,000,000	20,000	2,620,000	10,480
Total	8,843,000	35,372	4,359,705	17,439	4,483,295	17,933	5,290,023	21,160	9,649,728	38,599	13,890,000	55,560	4,240,272	16,961

Source: Cecil County Department of Public Utilities, Municipalities. * Indicates municipalities whose Water Resources and/or Municipal Growth Elements provided data. Note that 2008 wastewater flows in municipalities are based on Equivalent Residential Units (ERU), and may not match the housing unit data in Table 2.1 because public sewer service areas are not necessarily coterminous with municipal boundaries, and because ERUs include nonresidential development.

1: Indicates the more restrictive of the WWTP's discharge permit or its physical capacity.
 2: Includes new demand from residential and nonresidential development, as well as system extensions to existing development.

BENEFIT ASSESSMENT RATES

Sanitary District	Benefit Assessment Rate		Connection Fees		Number of Customers	Length of Term in Years	Expiration Date
	Rate per Front Foot	Flat Rate per Lot	Initial Hookup	After Initial Hookup			
1 Charlestown Manor		\$ 275.46			106	17	7/1/2010
2 Cool Springs	\$ 1.02		\$ 325		28	30	7/1/2020
3 Bay View West		\$ 139.16	\$ 325		8	20	7/1/2013
4 Stoney Run	\$ 1.02		\$ 325		31	30	7/1/2020
5 Peninsula Ind	\$ 1.02		\$ 325		79	30	7/1/2020
6 Indian Falls	\$ 1.02		\$ 325		32	30	7/1/2020
7 Bay View	\$ 1.02		\$ 325		71	30	7/1/2020
8 Carpenters Pt. Phase I		\$ 220.00		\$ 8,800	157	40	7/1/2045
9 Carpenters Pt. Phase II		\$ 220.00		\$ 8,800	103	40	7/1/2047
Total/Average	\$ 1.02	\$ 213.66	\$ 325.00	\$ 8,800.00	615	30	

Special Assessments	Dept-Account #	Account #	A/R Accounts:*	Amount:	Term:	1st Tax Bill:	1st Fiscal Year	Last Tax Bill:	Last Fiscal Year	Interest:	First Billing:	Annual Billing:	Actual FY 08	Actual FY 09	Revised FY 10	Difference	Billing Code:	Adopted	Terminated
Cherry Hill Sanitary District	60500000-314120	314120	ST 605-111260 & LT 605-158260	\$ 63,037.00	All data per accounting amou	30 Years	July 1, 1979	FY 1980	July 1, 2008	FY 2009	5.66%	\$ 4,412.59	\$ 4,412.59	\$ -	\$ -	\$ -			
1 Charlestown Manor Sewerage Sanitary District	60500000-314150	314150	ST 605-111290 & LT 605-158290	\$ 332,140.82	All data per accounting amou	17 Years	July 1, 1994	FY 1995	July 1, 2010	FY 2011	4.88%	\$ 29,198.76	\$ 29,198.76	\$ -	\$ -	\$ -			(29,198.76) CM5D
3 Bayview West Sanitary District	60500000-314170	314170	ST 605-111240 & LT 605-158240	\$ 14,534.06	All data per accounting amou	20 Years	July 1, 1994	FY 1995	July 1, 2013	FY 2014	4.46%	\$ 1,113.28	\$ 1,113.28	\$ -	\$ -	\$ -			(1,113.28) BVW5D
7 Bayview Sanitary District	60500000-314220	314220	ST 605-111280 & LT 605-158280	\$ 125,461.90	All data per accounting amou	30 Years	July 1, 1991	FY 1992	July 1, 2020	FY 2021	5.11%	\$ 8,264.10	\$ 8,264.10	\$ -	\$ -	\$ -			(8,264.10) BV5D
5 Peninsula Sanitary District	60500000-314230	314230	ST 605-111290 & LT 605-158290	\$ 66,921.89	All data per accounting amou	30 Years	July 1, 1991	FY 1992	July 1, 2020	FY 2021	5.11%	\$ 4,408.10	\$ 4,408.10	\$ -	\$ -	\$ -			(4,408.10) P5D
6 Indian Falls Sanitary District	60500000-314240	314240	ST 605-111300 & LT 605-158300	\$ 47,739.48	All data per accounting amou	30 Years	July 1, 1991	FY 1992	July 1, 2020	FY 2021	5.11%	\$ 3,144.57	\$ 3,144.57	\$ -	\$ -	\$ -			(3,144.57) IF5D
2 Cool Springs Sanitary District	60500000-314250	314250	ST 605-111310 & LT 605-158310	\$ 24,014.70	All data per accounting amou	30 Years	July 1, 1991	FY 1992	July 1, 2020	FY 2021	5.11%	\$ 1,581.83	\$ 1,581.33	\$ -	\$ -	\$ -			(1,581.33) CS5D
4 Stony Run Sanitary District	60500000-314280	314280	ST 605-111270 & LT 605-158270	\$ 36,209.45	All data per accounting amou	30 Years	July 1, 1991	FY 1992	July 1, 2020	FY 2021	5.11%	\$ 2,385.09	\$ 2,385.09	\$ -	\$ -	\$ -			(2,385.09) SR5D
8 Carpenter's Point Sanitary Subdistrict PH I	60500000-314300	314300	ST 605-111340 & LT 605-158320	\$ 1,390,400.00	All data per accounting amou	40 Years	July 1, 2006	FY 2007	July 1, 2045	FY 2046	NONE	\$ 34,760.00	\$ 34,540.00	\$ 26,400.00	\$ 8,800.00	\$ 17,600.00			(16,340.00) CP5D
9 Carpenter's Point Sanitary Subdistrict PH II	60500000-314301	314301	ST 605-111340 & LT 605-158320		All data per accounting amou	40 Years	July 1, 2009	FY 2010	July 1, 2048	FY 2049	NONE			\$ -	\$ -	\$ 660,000.00			660,000.00 CP5DII
Carpenter's Point Sanitary Subdistrict Fee	60500000-314300		Paid in advance	\$ 8,800.00	New Parcels - paid prior to d	40 Years		FY 2006		FY 2045				\$ -	\$ -	\$ -			
Meadowview WWTP Sanitary Subdistrict Fee	60500000-314310	314310	Paid in advance	\$ 1,752.00	Per equivalent living unit	20+ Years		FY 2006		FY 2027				\$ -	\$ -	\$ 12,273.00			12,273.00
North East Sanitary Subdistrict Fee (Interceptor sewer - Cecil & Mauldin)	60500000-314320	314320	Paid in advance	\$ 1,275.00	Per equivalent living unit	20+ Years		FY 2006		FY 2027				\$ 62,475.00	\$ 91,825.00	\$ 63,625.00			63,625.00
North East Industrial Subdistrict Fee (Lakeside/Rt 272)	60500000-314321	314321	Paid in advance	\$ 1,650.00	Per equivalent living unit	20+ Years		FY 2004		FY 2024				\$ 455,400.00	\$ 9,900.00	\$ 1,650.00			1,650.00
Cherry Hill Sanitary Subdistrict Fee	60500000-314330	314330	Paid in advance	\$ 2,800.00	Per equivalent living unit	20+ Years		FY 2004		FY 2024				\$ 33,600.00	\$ -	\$ -			-
Route 40 East Sanitary Subdistrict Fee	60500000-314335	314335	Paid in advance	\$ 4,400.00	Per equivalent living unit	5+ Years		FY 2008		FY 2012				\$ -	\$ -	\$ 48,400.00			48,400.00

*ST= Short Term, LT = Long Term)

190	O	SL	431	000600	600	Pump Station - Barnes home	9/30/96	SLHY	17	06	\$	750	\$	-	6/30/09	\$	313	\$	438	41.67%	5620	\$	1,144	8570	\$	438	
334	O	SL	435	000599	599	Sewer - West Creek Ext.	Cecil County Wastewater Rate Model	2/28/97	SLHY	17	06	\$	11,140	\$	-	6/30/09	\$	4,642	\$	6,498	41.67%	5826	\$	16,387	8570	\$	6,498
134	O	SL	431	000462	462	Sewer Line		6/30/90	SLHY	10	06	\$	56,007	\$	-	6/30/09	\$	36,405	\$	19,603	65.00%	4732	\$	101,433	8570	\$	19,603
135	O	SL	431	000463	463	Sewer Line		6/30/91	SLHY	11	06	\$	88,178	\$	-	6/30/09	\$	54,376	\$	33,801	61.67%	4835	\$	156,295	8570	\$	33,801
192	O	SL	431	000603	603	Sewer Line - Fineburg Village		8/31/97	SLHY	18	06	\$	55,114	\$	-	6/30/09	\$	21,127	\$	33,987	38.33%	5826	\$	81,073	8570	\$	33,987
229	O	SL	431	001124	1124	Sewer Line - Force Main Sewer System - Mauldin & Cecil		12/31/04	SLHY	34	06	\$	477,430	\$	-	6/30/09	\$	55,088	\$	422,342	11.54%	7115	\$	575,064	8570	\$	422,342
196	O	SL	431	000609	609	Sewer Line - Meadow Run		6/30/99	SLHY	19	06	\$	4,375	\$	-	6/30/09	\$	1,531	\$	2,844	35.00%	6059	\$	6,188	8570	\$	2,844
193	O	SL	431	000604	604	Sewer Line - Meadow Run Sec. 1		4/30/98	SLHY	18	06	\$	68,775	\$	-	6/30/09	\$	26,364	\$	42,411	38.33%	5920	\$	99,561	8570	\$	42,411
200	O	SL	431	000615	615	Sewer Line - Meadow Run Sec. 3		6/19/01	SLHY	21	06	\$	105,100	\$	-	6/30/09	\$	29,778	\$	75,322	28.33%	6343	\$	142,000	8570	\$	75,322
195	O	SL	431	000607	607	Sewer Line - North Winds Sec. 2		6/30/98	SLHY	18	06	\$	33,450	\$	-	6/30/09	\$	12,823	\$	20,628	38.33%	5920	\$	48,423	8570	\$	20,628
154	O	SL	431	000548	548	Susquehanna Pipeline		12/31/95	SLHY	17	06	\$	115,225	\$	-	6/30/08	\$	46,090	\$	69,135	40.00%	5471	\$	180,493	8310	\$	71,298
25	O	AU	431	000190	190	Transfer - International 4900 Truck 1998						\$	(96,960)	\$	-		\$		(96,960)	0.00%	0	\$	-	0	\$	-	
68	O	ME	431	000465	465	Variable speed pumps		6/11/92	SLHY	00	00	\$	28,871	\$	-	6/30/09	\$	28,871	\$	-	100.00%	4985	\$	49,634	8570	\$	-

ENR Construction Cost
Historic Index*

Year	1908	97
	1909	91
	1910	96
	1911	93
	1912	91
	1913	100
	1914	89
	1915	93
	1916	130
	1917	181
	1918	189
	1919	198
	1920	251
	1921	202
	1922	174
	1923	214
	1924	215
	1925	207
	1926	208
	1927	206
	1928	207
	1929	207
	1930	203
	1931	181
	1932	157
	1933	170
	1934	198
	1935	196
	1936	206
	1937	235
	1938	236
	1939	236
	1940	242
	1941	258
	1942	276
	1943	290
	1944	299
	1945	308
	1946	346
	1947	413
	1948	461
	1949	477
	1950	510
	1951	543
	1952	569
	1953	600
	1954	628
	1955	660
	1956	692
	1957	724
	1958	759
	1959	797
	1960	824
	1961	847
	1962	872
	1963	901
	1964	936
	1965	971
	1966	1019
	1967	1074
	1968	1155
	1969	1269
	1970	1381
	1971	1581
	1972	1753
	1973	1895
	1974	2020
	1975	2212
	1976	2401
	1977	2576
	1978	2776
	1979	3003
	1980	3237
	1981	3535
	1982	3825
	1983	4066
	1984	4146
	1985	4195
	1986	4295
	1987	4406
	1988	4519
	1989	4615
	1990	4732
	1991	4835
	1992	4985
	1993	5210
	1994	5408
	1995	5471
	1996	5620
	1997	5826
	1998	5920
	1999	6059
	2000	6221
	2001	6343
	2002	6538
	2003	6694
	2004	7115
	2005	7446
	2006	7751
	2007	7966
	2008	8310
	2009	8570

*HOW ENR BUILDS THE INDEX: 200 hours of common labor at the 20-city average of common labor rates, plus 25 cwt of standard structural steel shapes at the mill price prior to 1996 and the fabricated 20-city price from 1996, plus 1.128 tons of portland cement at the

Legend	
Class	Description
AU	Autos
BL	Buildings
LA	Land
LI	Land Improvements
ME	Machinery & Equipment
SL	Sewer Lines
Department	
Sanitary District Name	
424	Construction Projects - CIP
431	North East
432	Cherry Hill
434	Highlands
435	Meadowview
440	Harborview

Location	(All)
Description	(All)

Row Labels	Values		
	Sum of Basis	Sum of Current Accum	Sum of Net Book Value
AU	375,529	526,660	(151,131)
BL	12,024,108	4,187,596	7,836,513
LA	411,896	313	411,583
LI	1,097,033	142,376	954,657
ME	22,719,569	4,480,717	18,238,852
SL	27,373,861	10,806,779	16,567,082
Grand Total	64,001,997	20,144,441	43,857,556

Pipes - Length (in feet)	Material						Total
	CI	CI/DI	CLAY	PVC	unk	(blank)	
Diameter (inches)							
0				409		38,014	38,423
4				103			103
6	179		1,579	1,382			3,141
8	1,279	125	13,404	301,039	294		316,140
8.25				312			312
10		454	2,238	29,941			32,634
12			1,820	10,134			11,954
14		160		434			593
15			176	4,823			5,000
16				26			26
18				4,500			4,500
21				6,344			6,344
24				9,744			9,744
unk					1,438		1,438
Total	1,458	739	19,217	369,191	1,732	38,014	430,352

Pipes - Count	Material						Total
	CI	CI/DI	CLAY	PVC	unk	(blank)	
Diameter (inches)							
0				1		206	207
4				1			1
6	3		8	9			20
8	4	2	63	1,332	1		1,402
8.25				1			1
10		2	9	121			132
12			7	52			59
14		1		2			3
15			2	25			27
16				1			1
18				30			30
21				21			21
24				54			54
unk					9		9
Total	7	5	89	1,650	10	206	1,967

Wastewater Treatment Plants	
Name	Address
North East River WWTP	
Cherry Hill WWTP	2115 Cherry Hill Road, Elkton
Highlands WWTP	Kirkcaldy Drive, Elkton
Harborview WWTP	79 Dartmouth Road, Chesapeake City
Meadowview WWTP	246 Fletchwood Road, Elkton

Pump Stations		
Number	Name	Address
0	Route 40 Pump Station (new 2009)	2408 Pulaski Hwy, North East
1	Mechanic Valley Pump Station	666 Mechanic Valley Road, North East
2	Cecil Community College Pump Station	1000 North East Road, North East
3	Bay View Pump Station	425 Old Bayview Road, North East
5	Persimmons Creek Pump Station	Persimmon Lane, Elkton
6	DeLaPlaine Pump Station	966 Turkey Point Road, North East
7	Route 279 Pump Station	1585 Elkton/Newark Road, Elkton
8	Carpenters Point Pump Station	Oak Road and Dewberry Lane
9	Greenbank Pump Station	Greenbank Road and Woodall Road
10	North East Isles Pump Station	NE Isles, North East
11	Washington Street Main Pump Station	1 Washington Street, North East
12	Academy Hills Pump Station	35 Somerset Circle, Elkton
13	Church Point Pump Station	29 Church Point Road, North East
14	Cherry Hill Pump Station	45 Cherry Hill Road, Elkton
15	Highlands Pump Station	Ballantyne Drive, Elkton
16	Route 7 Pump Station	1489 W. Old Philadelphia Road, Charlestown
17	Charlestown Main Pump Station	400 Cecil Avenue, Charlestown
18	Avalon Pump Station	24 Louisa Lane, Charlestown
19	Charlestown Manor Pump Station	37 Edgewater Avenue, Charlestown
20	Price Marina Pump Station	524 Water Street, Charlestown
21	Indian Springs Pump Station	Van Weaver Drive, North East
22	Cool Springs at Charlestown Pump Station	Cool Springs Road, North East
23	Ridgely Forest - Corktree Lane Pump Station	34 Corktree Lane, Elkton

Manholes	
Material	Count
Brick	53
Concrete	19
Concrete Block	35
Not Inspected	1
Other	76
Pre Cast	1,671
(Blank)	159
Grand Total	2,014

Grinder Stations	
Address	
121 Kirk Rd - Grinder Station	
143 Greenbank - Grinder Station	
72 Little River Rd Grinder Station	

Force Mains		
Count	Length (in feet)	Length (in miles)
27	65,330	12.37

Cleanouts	
Count	
1,335	

User	Quarterly Usage (gallons)	Estimated Annual Usage (gallons)	ELUs	FY 10		Existing Rate Design	Alternative Rate Design	% Change	
								Existing	Alternative

Current Rate Design - Quarterly Minimum Charge with Unit Rate [Current Rate Structure]

	FY 10	FY 11
Metered		
Minimum Charge (10,000 gallons included)	\$ 70.30	\$ 70.50
Volume Charge (per 1,000 gallons, over 10,000 gallon)	\$ 7.03	\$ 7.05
Non-Metered		
Minimum Charge (based on 15,000 gallons)	\$ 105.45	\$ 105.45

Alternative Rate Design - Quarterly Flat Rate per ELU

	FY 10	FY 11
Quarterly Flat Rate per ELU		\$ -

User	Quarterly Usage (gallons)	Estimated Annual Usage (gallons)	ELUs	FY 10	FY 11	% Change	% Change
Residential	1,000	4,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Residential	2,000	8,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Residential	3,000	12,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Residential	4,000	16,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Residential	5,000	20,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Residential	6,000	24,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Residential	7,000	28,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Residential	8,000	32,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Residential	9,000	36,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Residential	10,000	40,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Residential	11,000	44,000	1.00	\$ 77.33	\$ 77.55	0%	-100%
Residential	12,000	48,000	1.00	\$ 84.36	\$ 84.60	0%	-100%
Residential	13,000	52,000	1.00	\$ 91.39	\$ 91.65	0%	-100%
Residential	14,000	56,000	1.00	\$ 98.42	\$ 98.70	0%	-100%
Residential	15,000	60,000	1.00	\$ 105.45	\$ 105.75	0%	-100%
Residential	16,000	64,000	1.00	\$ 112.48	\$ 112.80	0%	-100%
Residential	17,000	68,000	1.00	\$ 119.51	\$ 119.85	0%	-100%
Residential	18,000	72,000	1.00	\$ 126.54	\$ 126.90	0%	-100%
Residential	19,000	76,000	1.00	\$ 133.57	\$ 133.95	0%	-100%
Residential	20,000	80,000	1.00	\$ 140.60	\$ 141.00	0%	-100%
Residential	21,000	84,000	1.00	\$ 147.63	\$ 148.05	0%	-100%
Residential	22,000	88,000	1.00	\$ 154.66	\$ 155.10	0%	-100%
Residential	23,000	92,000	1.00	\$ 161.69	\$ 162.15	0%	-100%
Residential	24,000	96,000	1.00	\$ 168.72	\$ 169.20	0%	-100%
Residential	25,000	100,000	1.00	\$ 175.75	\$ 176.25	0%	-100%
Residential	26,000	104,000	1.00	\$ 182.78	\$ 183.30	0%	-100%
Residential	27,000	108,000	1.00	\$ 189.81	\$ 190.35	0%	-100%
Residential	28,000	112,000	1.00	\$ 196.84	\$ 197.40	0%	-100%
Residential	29,000	116,000	1.00	\$ 203.87	\$ 204.45	0%	-100%
Residential	30,000	120,000	1.00	\$ 210.90	\$ 211.50	0%	-100%
Residential	31,000	124,000	1.00	\$ 217.93	\$ 218.55	0%	-100%
Residential	32,000	128,000	1.00	\$ 224.96	\$ 225.60	0%	-100%
Residential	33,000	132,000	1.00	\$ 231.99	\$ 232.65	0%	-100%
Residential	34,000	136,000	1.00	\$ 239.02	\$ 239.70	0%	-100%
Residential	35,000	140,000	1.00	\$ 246.05	\$ 246.75	0%	-100%
Residential	36,000	144,000	1.00	\$ 253.08	\$ 253.80	0%	-100%
Residential	37,000	148,000	1.00	\$ 260.11	\$ 260.85	0%	-100%
Residential	38,000	152,000	1.00	\$ 267.14	\$ 267.90	0%	-100%
Residential	39,000	156,000	1.00	\$ 274.17	\$ 274.95	0%	-100%
Residential	40,000	160,000	1.00	\$ 281.20	\$ 282.00	0%	-100%
Commercial	10,000	40,000	1.00	\$ 70.30	\$ 70.50	0%	-100%
Commercial	20,000	80,000	2.00	\$ 140.60	\$ 141.00	0%	-100%
Commercial	30,000	120,000	2.00	\$ 210.90	\$ 211.50	0%	-100%
Commercial	40,000	160,000	3.00	\$ 281.20	\$ 282.00	0%	-100%
Commercial	50,000	200,000	4.00	\$ 351.50	\$ 352.50	0%	-100%
Commercial	60,000	240,000	5.00	\$ 421.80	\$ 423.00	0%	-100%
Commercial	70,000	280,000	6.00	\$ 492.10	\$ 493.50	0%	-100%
Commercial	80,000	320,000	7.00	\$ 562.40	\$ 564.00	0%	-100%
Commercial	90,000	360,000	7.00	\$ 632.70	\$ 634.50	0%	-100%
Commercial	100,000	400,000	8.00	\$ 703.00	\$ 705.00	0%	-100%
Commercial	110,000	440,000	9.00	\$ 773.30	\$ 775.50	0%	-100%
Commercial	120,000	480,000	10.00	\$ 843.60	\$ 846.00	0%	-100%
Commercial	130,000	520,000	11.00	\$ 913.90	\$ 916.50	0%	-100%
Commercial	140,000	560,000	11.00	\$ 984.20	\$ 987.00	0%	-100%

User	Quarterly Usage (gallons)	Estimated Annual Usage (gallons)	ELUs	FY 10	Existing Rate Design	Alternative Rate Design	% Change	
							Existing	Alternative
Commercial	150,000	600,000	12.00	\$ 1,054.50	\$ 1,057.50	\$ -	0%	-100%
Commercial	160,000	640,000	13.00	\$ 1,124.80	\$ 1,128.00	\$ -	0%	-100%
Commercial	170,000	680,000	14.00	\$ 1,195.10	\$ 1,198.50	\$ -	0%	-100%
Commercial	180,000	720,000	15.00	\$ 1,265.40	\$ 1,269.00	\$ -	0%	-100%
Commercial	190,000	760,000	16.00	\$ 1,335.70	\$ 1,339.50	\$ -	0%	-100%
Commercial	200,000	800,000	16.00	\$ 1,406.00	\$ 1,410.00	\$ -	0%	-100%
Commercial	210,000	840,000	17.00	\$ 1,476.30	\$ 1,480.50	\$ -	0%	-100%
Commercial	220,000	880,000	18.00	\$ 1,546.60	\$ 1,551.00	\$ -	0%	-100%
Commercial	230,000	920,000	19.00	\$ 1,616.90	\$ 1,621.50	\$ -	0%	-100%
Commercial	240,000	960,000	20.00	\$ 1,687.20	\$ 1,692.00	\$ -	0%	-100%
Commercial	250,000	1,000,000	20.00	\$ 1,757.50	\$ 1,762.50	\$ -	0%	-100%
Commercial	260,000	1,040,000	21.00	\$ 1,827.80	\$ 1,833.00	\$ -	0%	-100%
Commercial	270,000	1,080,000	22.00	\$ 1,898.10	\$ 1,903.50	\$ -	0%	-100%
Commercial	280,000	1,120,000	23.00	\$ 1,968.40	\$ 1,974.00	\$ -	0%	-100%
Commercial	290,000	1,160,000	24.00	\$ 2,038.70	\$ 2,044.50	\$ -	0%	-100%
Commercial	300,000	1,200,000	25.00	\$ 2,109.00	\$ 2,115.00	\$ -	0%	-100%
Commercial	310,000	1,240,000	25.00	\$ 2,179.30	\$ 2,185.50	\$ -	0%	-100%
Commercial	320,000	1,280,000	26.00	\$ 2,249.60	\$ 2,256.00	\$ -	0%	-100%
Commercial	330,000	1,320,000	27.00	\$ 2,319.90	\$ 2,326.50	\$ -	0%	-100%
Commercial	340,000	1,360,000	28.00	\$ 2,390.20	\$ 2,397.00	\$ -	0%	-100%
Commercial	350,000	1,400,000	29.00	\$ 2,460.50	\$ 2,467.50	\$ -	0%	-100%
Commercial	360,000	1,440,000	29.00	\$ 2,530.80	\$ 2,538.00	\$ -	0%	-100%
Commercial	370,000	1,480,000	30.00	\$ 2,601.10	\$ 2,608.50	\$ -	0%	-100%
Commercial	380,000	1,520,000	31.00	\$ 2,671.40	\$ 2,679.00	\$ -	0%	-100%
Commercial	390,000	1,560,000	32.00	\$ 2,741.70	\$ 2,749.50	\$ -	0%	-100%
Commercial	400,000	1,600,000	33.00	\$ 2,812.00	\$ 2,820.00	\$ -	0%	-100%

REPLACEMENT SCHEDULE

Unit	Class	Make	Model	Year	VIN	Meter	Meter Date	In Service	FY	Basis	DAYS	AVG	1st Yr. Repl. FY	2nd Yr. Repl. FY	1st FY	1st Yr. Repl. Cost	2nd FY	2nd Yr. Repl. Cost
409	APWAB	CHEVROLET	K2500 UTILITY	2003		108,502	9/25/2009	10/15/2003	2004	\$ 23,118	2172	18,234	2014	2024	FY 14	\$ 28,181	FY 24	\$ 34,352
416	APWAB	CHEVROLET	K2500	2004		49,263	2/25/2009	12/31/2003	2004	\$ 20,568	1883	9,549	2014	2024	FY 14	\$ 25,072	FY 24	\$ 30,563
419	APWAB	CHEVROLET	K2500 UTILITY	2004		70,100	10/5/2009	1/30/2004	2004	\$ 23,413	2075	12,331	2014	2024	FY 14	\$ 28,540	FY 24	\$ 34,790
424	APWA6	FORD	F-550	2005		6,430	7/8/2009	4/8/2005	2005	\$ 58,195	1552	1,512	2015	2025	FY 15	\$ 70,939	FY 25	\$ 86,475
417	APWA2	INTERNATIONAL	VAC CON 7400	2006		7,624	10/16/2009	3/17/2006	2006	\$ 23,435	1309	2,126	2016	2026	FY 16	\$ 28,567	FY 26	\$ 34,823
405	APWA2	INTERNATIONAL	7600	2008		4,863	12/24/2008	6/28/2007	2007	\$ 122,950	545	3,257	2017	2027	FY 17	\$ 149,875	FY 27	\$ 182,697
400	APWAB	CHEVROLET	BLAZER	2006		47,832	3/24/2009	7/19/2006	2007	\$ 22,386	979	17,833	2017	2027	FY 17	\$ 27,288	FY 27	\$ 33,264
403	APWAB	CHEVROLET	K2500 UTILITY	2007		48,308	5/13/2009	10/24/2006	2007	\$ 23,517	932	18,919	2017	2027	FY 17	\$ 28,667	FY 27	\$ 34,945
408	APWAB	CHEVROLET	K2500 UTILITY	2007		82,779	9/3/2009	10/24/2006	2007	\$ 21,040	1045	28,913	2017	2027	FY 17	\$ 25,648	FY 27	\$ 31,264
401	APWAB	CHEVROLET	K2500 PU	2008		3,738	1/15/2009	8/15/2008	2009	\$ 25,621	153	8,917	2019	2029	FY 19	\$ 31,232	FY 29	\$ 38,071
411	APWAB	CHEVROLET	K2500 UTILITY	2008		16,992	10/15/2009	8/15/2008	2009	\$ 21,993	426	14,559	2019	2029	FY 19	\$ 26,809	FY 29	\$ 32,680
402	APWAB	CHEVROLET	COLORADO	2009		3,039	9/21/2009	3/31/2009	2009	\$ 12,729	174	6,375	2019	2029	FY 19	\$ 15,517	FY 29	\$ 18,915
428	APWAF	REDIH	CAMERA	2005		-	12/18/2006		2007	\$ 154,750			2020	2033	FY 20	\$ 200,186	FY 33	\$ 258,961

SCENARIO ANALYSIS	% Change	20.00%	0.00%	12.19%	9.83%	12.99%	-17.60%	-5.72%	-9.33%	0.18%
Cash Balance		\$2,715,059	\$1,964,534	\$1,706,488	\$1,212,332	\$72,544	\$283,994	\$1,052,860	\$2,624,770	\$4,472,352

WASTEWATER	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Number of New ELUs										
Residential (New)	100%	511	255	144	171	266	379	299	264	264
Residential (Existing)	0%	0	0	0	0	0	0	0	0	0
Commercial/Industrial		19	33	54	75	82	139	0	0	0
		530	288	198	246	348	518	299	264	264

Scenario 1 - Equal MFFs

Wastewater Major Facility Fee (per ELU)										
Residential (New)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Residential (Existing)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Commercial/Industrial	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wastewater Major Facility Fee Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Capital Cash Flow Surplus / (Shortfall)	\$0	(\$1,289,997)	(\$2,272,848)	(\$2,626,383)	(\$4,953,792)	(\$3,875,046)	(\$5,576,751)	(\$5,601,868)	(\$5,499,506)	
Cumulative Capital Cash Flow Surplus / (Shortfall)	\$0	(\$1,289,997)	(\$3,562,845)	(\$6,189,228)	(\$11,143,020)	(\$15,018,066)	(\$20,594,817)	(\$26,196,685)	(\$31,696,191)	
Net Revenue Requirement	\$3,139,653	\$6,303,065	\$8,480,448	\$11,815,359	\$17,858,074	\$20,982,190	\$26,442,802	\$31,679,256	\$37,369,083	
User Defined Rates										
Metered										
Minimum Charge (10,000 gallons included)	\$70.30	35.00%	5.00%	5.00%	5.00%	5.00%	0.00%	0.00%	0.00%	0.00%
		\$94.91	\$99.65	\$104.63	\$109.86	\$115.36	\$115.36	\$115.36	\$115.36	\$115.36
Volume Charge (per 1,000 gallons, over 10,000 gallons)	\$7.03	35.00%	5.00%	5.00%	5.00%	5.00%	0.00%	0.00%	0.00%	0.00%
		\$9.49	\$9.97	\$10.46	\$10.99	\$11.54	\$11.54	\$11.54	\$11.54	\$11.54
Non-Metered										
Minimum Charge (based on 15,000 gallons)	\$105.45	35.00%	5.00%	5.00%	5.00%	5.00%	0.00%	0.00%	0.00%	0.00%
		\$142.36	\$149.48	\$156.95	\$164.80	\$173.04	\$173.04	\$173.04	\$173.04	\$173.04
User Defined Revenue	\$4,527,576	\$5,001,137	\$5,436,581	\$5,946,525	\$6,595,590	\$7,108,940	\$7,393,183	\$7,644,154	\$7,895,125	
Net Revenue Requirement	\$3,139,653	\$6,303,065	\$8,480,448	\$11,815,359	\$17,858,074	\$20,982,190	\$26,442,802	\$31,679,256	\$37,369,083	
Annual Surplus / (Shortfall)	\$1,387,923	(\$1,301,928)	(\$3,043,867)	(\$5,868,835)	(\$11,262,484)	(\$13,873,250)	(\$19,049,619)	(\$24,035,102)	(\$29,473,958)	
Cumulative Surplus / (Shortfall)	\$1,387,923	\$85,995	(\$2,957,872)	(\$8,826,707)	(\$20,089,190)	(\$33,962,441)	(\$53,012,059)	(\$77,047,161)	(\$106,521,119)	
Operating Cash Flow Surplus / (Shortfall)	\$1,387,923	(\$1,301,928)	(\$3,043,867)	(\$5,868,835)	(\$11,262,484)	(\$13,873,250)	(\$19,049,619)	(\$24,035,102)	(\$29,473,958)	
Ending Cash Balance	\$3,618,818	\$1,440,282	(\$1,059,687)	(\$4,145,282)	(\$10,038,029)	(\$13,799,980)	(\$18,762,784)	(\$22,971,713)	(\$26,822,940)	

Scenario 2 - Different MFFs

Wastewater Major Facility Fee (per ELU)										
Residential (New)	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000
Residential (Existing)	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
Commercial/Industrial	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
Wastewater Major Facility Fee Revenue	\$4,684,500	\$2,443,500	\$1,539,000	\$1,876,500	\$2,763,000	\$4,036,500	\$2,691,000	\$2,376,000	\$2,376,000	
Capital Cash Flow Surplus / (Shortfall)	\$4,684,500	\$1,153,503	(\$733,848)	(\$749,883)	(\$2,190,792)	\$161,454	(\$2,885,751)	(\$3,225,868)	(\$3,123,506)	
Cumulative Capital Cash Flow Surplus / (Shortfall)	\$4,684,500	\$5,838,003	\$5,104,155	\$4,354,272	\$2,163,480	\$2,324,934	(\$560,817)	(\$3,786,685)	(\$6,910,191)	
Net Revenue Requirement	\$3,139,653	\$5,013,068	\$4,917,603	\$5,626,132	\$6,715,054	\$5,964,123	\$6,408,802	\$9,269,256	\$12,583,083	
User Defined Rates										
Metered										
Minimum Charge (10,000 gallons included)	\$70.30	35.00%	5.00%	5.00%	5.00%	5.00%	0.00%	0.00%	0.00%	0.00%
		\$94.91	\$99.65	\$104.63	\$109.86	\$115.36	\$115.36	\$115.36	\$115.36	\$115.36
Volume Charge (per 1,000 gallons, over 10,000 gallons)	\$7.03	35.00%	5.00%	5.00%	5.00%	5.00%	0.00%	0.00%	0.00%	0.00%
		\$9.49	\$9.97	\$10.46	\$10.99	\$11.54	\$11.54	\$11.54	\$11.54	\$11.54
Non-Metered										
Minimum Charge (based on 15,000 gallons)	\$105.45	35.00%	5.00%	5.00%	5.00%	5.00%	0.00%	0.00%	0.00%	0.00%
		\$142.36	\$149.48	\$156.95	\$164.80	\$173.04	\$173.04	\$173.04	\$173.04	\$173.04
User Defined Revenue	\$4,527,576	\$5,001,137	\$5,436,581	\$5,946,525	\$6,595,590	\$7,108,940	\$7,393,183	\$7,644,154	\$7,895,125	
Net Revenue Requirement	\$3,139,653	\$5,013,068	\$4,917,603	\$5,626,132	\$6,715,054	\$5,964,123	\$6,408,802	\$9,269,256	\$12,583,083	
Annual Surplus / (Shortfall)	\$1,387,923	(\$11,931)	\$518,978	\$320,393	(\$119,463)	\$1,144,816	\$984,381	(\$1,625,102)	(\$4,687,958)	
Cumulative Surplus / (Shortfall)	\$1,387,923	\$1,375,991	\$1,894,970	\$2,215,363	\$2,095,899	\$3,240,716	\$4,225,097	\$2,599,995	(\$2,087,963)	
Operating Cash Flow Surplus / (Shortfall)	\$1,387,923	(\$11,931)	\$518,978	\$320,393	(\$119,463)	\$1,144,816	\$984,381	(\$1,625,102)	(\$4,687,958)	
Ending Cash Balance	\$3,618,818	\$2,730,278	\$2,503,158	\$2,043,946	\$1,104,992	\$1,218,086	\$1,271,216	(\$561,713)	(\$2,036,940)	

Ending Cash Balance: Scenario 1 - Equal MFFs	\$3,618,818	\$1,440,282	(\$1,059,687)	(\$4,145,282)	(\$10,038,029)	(\$13,799,980)	(\$18,762,784)	(\$22,971,713)	(\$26,822,940)
Ending Cash Balance: Scenario 2 - Different MFFs	\$3,618,818	\$2,730,278	\$2,503,158	\$2,043,946	\$1,104,992	\$1,218,086	\$1,271,216	(\$561,713)	(\$2,036,940)
Difference between Scen. 1 and Scen. 2	\$0	(\$1,289,997)	(\$3,562,845)	(\$6,189,228)	(\$11,143,020)	(\$15,018,066)	(\$20,034,000)	(\$22,410,000)	(\$24,786,000)

Difference in Ending Cash Balance between Scen. 1 and Scen. 2

Percent of Projected Residential ELUs	
New	Existing
100%	0%
75%	25%
50%	50%
25%	75%
0%	100%

\$

