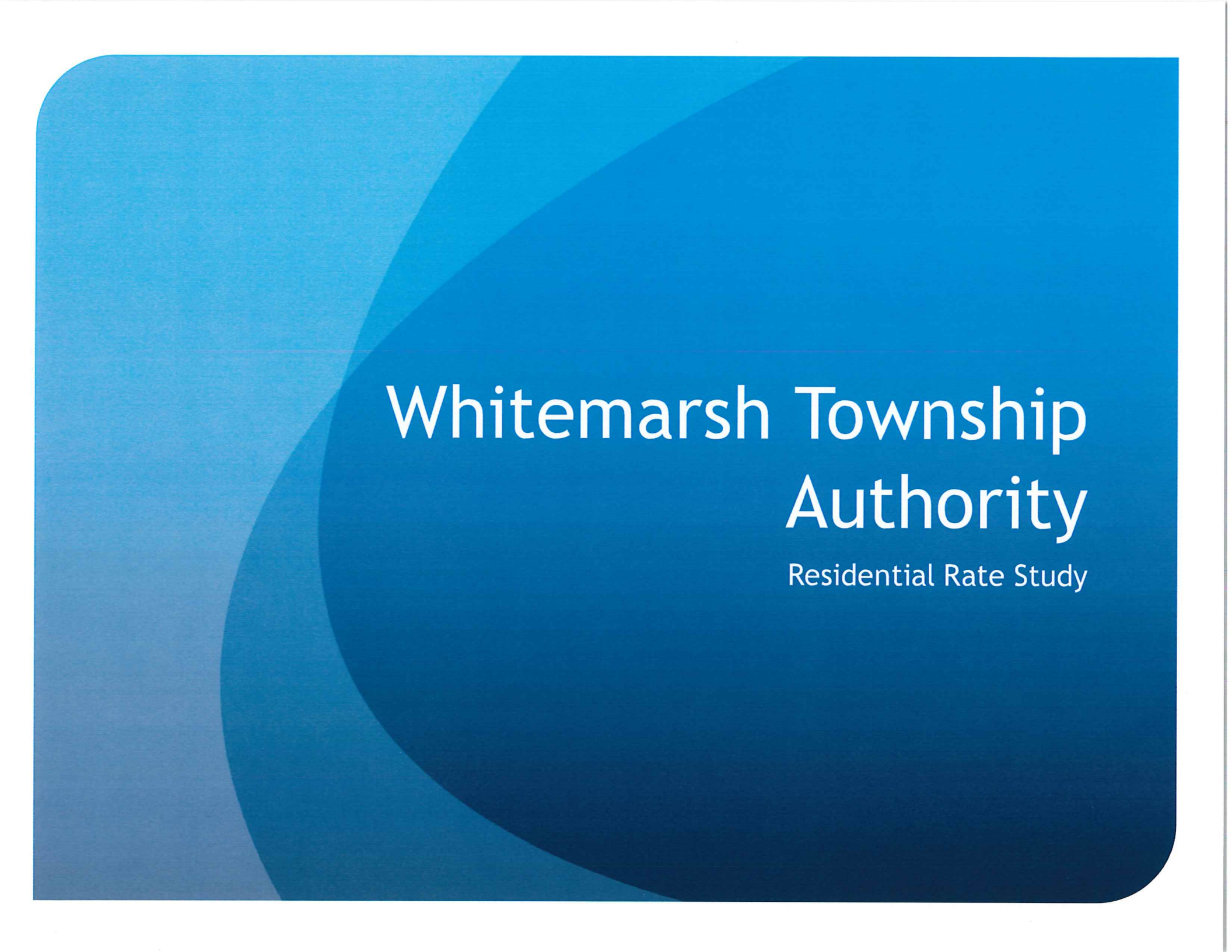




Whitemarsh Township Authority

Residential Rate Study

Objectives

- Part 1: Develop Revenue Requirement and Test the Need for Rate Adjustments
- Part 2: Identify the Costs and Benefits of Moving Residential Billing to Volume Based Charges

Revenue Requirement

- Revenue Requirement: The total cost of operating the Authority including the cost of capital, debt service coverage requirements and the cost of operations and maintenance.
- Cost of Capital: The combined principal and interest payments, referred to as debt service, due on the 2014 Loan each year.
- Debt Service Coverage: The ratio of annual net operating income to debt service.

2016 Budget - Present Rates

- Revenues at Present Rates: \$3,179,100
- Expenses Before Debt Service: \$2,493,134
- Net Operating Income: \$ 685,967
- Debt Service: \$ 669,111
- Net After Debt Service: \$ 16,855
- Coverage Ratio: 1.03
- Minimum Required By Loan 1.05

2016 Budget - Proposed Rates

- Revenues at Present Rates: \$3,217,439
- Expenses Before Debt Service: \$2,493,134
- Net Operating Income: \$ 724,305
- Debt Service: \$ 669,111
- Net After Debt Service: \$ 55,194
- Coverage Ratio: 1.08
- Minimum Required By Loan 1.05

2016 Budget - Proposed Rates

- Proposed Increase of 5% to all classes and rates
- Residential, Six-Month Rate:

Area	Customer s	Present Fixed Rate	Proposed Fixed Rate	Change
Plymouth	139	\$137.50	\$144.38	\$6.88
Whitpain Twp	12	\$170.00	\$178.50	\$8.50
Conshohocken	9	\$90.00	\$94.50	\$4.50
Whitemarsh, Springfield	5085	\$137.50	\$144.38	\$6.88
Whitemarsh, Springfield Duplex	52	\$269.50	\$282.98	\$13.48

2016 Budget - Proposed Rates

- Commercial, Six-Month Rate, Fixed Service Charge:

Meter Size	No of Accounts	Present Semi-Annual Charge	Proposed Semi-Annual Charge	Change
5/8-inch	186	\$265.84	\$279.14	\$13.30
3/4-inch	23	\$398.77	\$418.71	\$19.94
1-inch	35	\$664.61	\$697.84	\$33.23
1-1/2-inch	19	\$1,329.22	\$1,395.68	\$66.46
2-inch	19	\$2,126.76	\$2,233.09	\$106.33
3-inch	9	\$3,987.67	\$4,187.05	\$199.38
4-inch	7	\$6,646.12	\$6,978.42	\$332.30
6-inch	1	\$13,292.23	\$13,956.84	\$664.61

2016 Budget - Proposed Rates

- Commercial Volume Charges
 - Present: \$3.66 per thousand gallons
 - Proposed: \$3.84 per thousand gallons
 - Change: \$0.18 per thousand gallons
- Outside Revenues
 - Also Increased by 5%

2017 to 2020

- Budget Forecasts Extended to 2020
- Expenses:

Year	2016 Budget	2017	2018	2019	2020
Expenses	\$2,493,134	\$2,420,070	\$2,496,600	2,571,940	2,648,610

2017 to 2020

- Capital Improvements
 - Complete Pump Station 5A & 7 Upgrades - \$600,000
 - Complete SCADA System - \$500,000
- Initiate Inflow/Infiltration Corrective Action Program
 - Estimated Cost \$750,000 per year
 - 2017 and 2018 Funded from Existing Loan
 - 2019 and 2020 Funded from New Capital Reserve Funds
 - Program Undertaken Without New Borrowing

2017 to 2020

- Coverage Ratio
 - Increase target gradually from 1.05 to 1.75
 - Demonstrates Financial Strength
 - Develops mechanism to fund capital improvements
 - Stabilizes rates at a sustainable level

2017 to 2020

- Proposed Rate Adjustment Plan

Year	Commercial Adjustment	Outside Adjustment	Residential Adjustment
2016	5%	5%	5%
2017	5%	5%	5%
2018	5%	5%	5%
2019	8%	8%	8%
2020	8%	8%	8%

Part 2 - Residential Rate Design

- Current Rates Billed Semi-Annually
- Flat Rate for nearly all residential customers
- Accounts: 5,583
- Annual Bills: 11,166

Part 2 - Residential Rate Design

- Areas of Investigation
 - Cost of moving to volume based rates similar to commercial
 - Meter readings to be purchased from water utilities
 - Customer contact and disputed charges
 - Ability to get re-reads and at what cost
 - Possible impact of water utility generated credits
 - Rate design to make the switch revenue neutral for the “average residential customer” and minimize large swings for big and small residential users.

<u>A/C #</u>	<u>Account</u>	Actual 2012	(Projected) Actual 2013	(Projected) Actual 2014	(Projected) Actual 2015	Budget 2016	Proposed Rates 2016	Forecast 2017	Forecast 2018	Forecast 2019
INCOME										
08-341-100	Interest Income	\$ 6,145	\$ 3,703	\$ 6,861	\$ 7,798	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000
08-364-115	Connection Fees - Stenton/Sheaf	\$ 83,847	\$ -				\$ -	\$ -	\$ -	\$ -
08-364-120	Sewer - Commercial	\$ 452,833	\$ 188,125	\$ 705,322	\$ 770,043	\$ 770,000	\$ 817,000	\$ 817,000	\$ 856,000	\$ 922,000
08-364-121	Sewer - Residential	\$ 1,597,949	\$ 1,498,550	\$ 1,630,726	\$ 1,494,206	\$ 1,520,000	\$ 1,511,339	\$ 1,586,916	\$ 1,666,262	\$ 1,799,518
08-364-122	Penalties	\$ 46,560	\$ 41,908	\$ 33,783	\$ 25,461	\$ 35,000	\$ 35,000	\$ 37,000	\$ 39,000	\$ 42,000
08-364-130	Outside Sewer Revenue	\$ 786,418	\$ 1,391,996	\$ 791,594	\$ 812,440	\$ 810,000	\$ 810,000	\$ 893,000	\$ 937,000	\$ 1,013,000
08-364-125	Certification Fees	\$ 2,502	\$ 14,380	\$ 9,850	\$ 10,290	\$ 11,000	\$ 11,000	\$ 12,000	\$ 12,000	\$ 12,000
08-364-126	Legal Fees (reimbursed)	\$ 28,292	\$ 2,042	\$ 31,928	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
08-364-127	NSF Fees	\$ 55	\$ 210	\$ 75	\$ 233	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100
08-380-113	Miscellaneous Income	\$ 612	\$ 1,306	\$ 3,341	\$ -	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
08-380-115	DIVIDENDS - INSURANCE TRUST	\$ 20,794	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	TOTAL REVENUES	\$ 3,026,008	\$ 3,139,608	\$ 3,213,481	\$ 3,145,471	\$ 3,179,100	\$ 3,217,439	\$ 3,379,016	\$ 3,543,362	\$ 3,821,618

EXPENSES

ADMIN

<u>A/C #</u>	<u>Account</u>	Actual 2012	(Projected) Actual 2013	(Projected) Actual 2014	(Projected) Actual 2015	Budget 2016	Proposed Rates 2016	Forecast 2017	Forecast 2018	Forecast 2019
Page 3										
<u>EMPLOYEE</u>										
08-423-100	Salary - Sewer	\$ 479,957	\$ 535,802	\$ 466,493	\$ 374,349	\$ 420,000	\$ 420,000	\$ 435,000	\$ 450,000	\$ 466,000
08-423-110	Salary - Overtime	\$ 115,450	\$ 84,194	\$ 69,087	\$ 57,443	\$ 65,000	\$ 65,000	\$ 67,000	\$ 70,000	\$ 72,000
08-423-130	Social Security	\$ 43,759	\$ 48,139	\$ 40,972	\$ 33,032	\$ 37,103	\$ 37,103	\$ 38,400	\$ 39,800	\$ 41,200
08-423-215	Employee Benefit Expense	\$ 8,614	\$ 11,802	\$ 7,954	\$ 5,283	\$ 6,000	\$ 6,000	\$ 6,200	\$ 6,400	\$ 6,700
08-423-217	Uniform Expense			\$ 2,684	\$ 2,017	\$ 2,200	\$ 2,200	\$ 2,280	\$ 2,360	\$ 2,440
<u>COLLECTIONS</u>										
08-427-210	Materials & Supplies		-\$ 297	\$ 4,973	\$ 4,973	\$ 4,500	\$ 4,500	\$ 4,820	\$ 4,990	\$ 5,160
08-427-222	Chemicals	\$ 6,573	\$ 2,419	\$ 30	\$ 30	\$ 1,000	\$ 1,000	\$ 870	\$ 870	\$ 870
08-427-233	Safety Supplies		\$ 531	\$ -				\$ 200	\$ 200	\$ 200
08-423-312	COLLECTION EXPENSE	\$ 26,489	\$ -					\$ -	\$ -	\$ -
08-427-260	Tools	\$ 2,337	\$ 373	\$ 942				\$ 300	\$ 300	\$ 300
08-427-316	PA One Call	\$ 2,327	\$ 2,306	\$ 2,651	\$ 1,800	\$ 1,800	\$ 1,800	\$ 1,900	\$ 1,900	\$ 1,900
08-427-332	Vehicle Operations	\$ 787	\$ 3,204	\$ -				\$ -	\$ -	\$ -
08-427-361	Electricity	\$ 74,485	\$ 74,028	\$ 74,129	\$ 74,129	\$ 78,000	\$ 78,000	\$ 77,100	\$ 77,800	\$ 78,500
08-427-373	Repairs & Maintenance	\$ 4,339	\$ 14,847	\$ 5,720	\$ 6,662	\$ 6,750	\$ 6,750	\$ 7,700	\$ 8,100	\$ 8,500
08-427-374	Repairs & Maint.-Machine & Equip.	\$ 56,471	\$ 90,000	\$ 36,448	\$ 36,448	\$ 45,000	\$ 45,000	\$ 39,300	\$ 41,300	\$ 43,400
08-427-384	Equipment Rental	\$ 4,492	\$ 460	\$ 4,174	\$ 4,174	\$ 3,500	\$ 3,500	\$ 3,900	\$ 4,100	\$ 4,300
08-427-385	Vehicle Repair & Maintenance			\$ 9,375	\$ 7,500	\$ 5,000	\$ 5,000	\$ 7,300	\$ 7,700	\$ 8,100
08-427-450	Contracted Services	\$ 27,797	\$ 28,581	\$ 30,442	\$ 24,000	\$ 20,000	\$ 20,000	\$ 24,800	\$ 26,000	\$ 27,300

A/C #	Account	Actual 2012	(Projected) Actual 2013	(Projected) Actual 2014	(Projected) Actual 2015	Budget 2016	Proposed Rates 2016	Forecast 2017	Forecast 2018	Forecast 2019
Page 4										
PLANT										
08-429-210	Materials & Supplies	\$ 4,864	\$ 6,500	\$ 9,793	\$ 9,793	\$ 10,000	\$ 10,000	\$ 12,300	\$ 13,600	\$ 15,000
08-429-220	Legal Fees - Sewer Plant	\$ -	\$ -	\$ 88	\$ 88	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200
08-429-222	Chemicals	\$ 46,246	\$ 42,795	\$ 53,764	\$ 49,593	\$ 55,000	\$ 55,000	\$ 56,800	\$ 59,200	\$ 61,600
08-429-233	Safety Supplies	\$ 3,258	\$ 2,443	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
08-429-260	Tools	\$ 631	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
08-429-319	Plant Permit Fees	\$ 500	\$ 13,769	\$ 908	\$ 908	\$ 1,000	\$ 1,000	\$ 900	\$ 900	\$ 900
08-429-331	Gas & Oil	\$ 30,618	\$ 25,867	\$ 19,274	\$ 19,274	\$ 22,000	\$ 22,000	\$ 22,900	\$ 24,300	\$ 25,600
08-429-332	Vehicle Operating Expense - General	\$ 44,819	\$ 47,076	\$ 34,501	\$ 34,501	\$ 35,000	\$ 35,000	\$ 35,200	\$ 35,400	\$ 35,700
08-429-361	Electricity	\$ 67,633	\$ 58,013	\$ 56,841	\$ 56,841	\$ 60,000	\$ 60,000	\$ 59,400	\$ 60,000	\$ 60,600
08-429-362	Natural Gas	\$ 2,463	\$ 3,966	\$ 2,633	\$ 2,633	\$ 2,800	\$ 2,800	\$ 2,700	\$ 2,800	\$ 2,900
08-429-366	Water	\$ 19,952	\$ 20,394	\$ 18,773	\$ 18,773	\$ 20,000	\$ 20,000	\$ 19,200	\$ 20,200	\$ 21,200
08-429-373	Repair & Maint.-Building	\$ 4,040	\$ 3,644	\$ 265	\$ 265	\$ 2,500	\$ 2,500	\$ 1,000	\$ 1,100	\$ 1,200
08-429-374	Repair & Maint. - Machine & Equip.	\$ 33,419	\$ 8,106	\$ 7,312	\$ 7,312	\$ 15,000	\$ 15,000	\$ 9,900	\$ 10,400	\$ 10,900
08-429-384	Equipment Rental	\$ 1,136	\$ 877	\$ -	\$ -	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
08-429-450	Contracted Services	\$ 116,106	\$ 38,642	\$ 34,196	\$ 34,196	\$ 35,000	\$ 35,000	\$ 34,500	\$ 36,200	\$ 38,000
08-429-461	Landfill Fees	\$ 96,122	\$ 110,789	\$ 111,270	\$ 110,000	\$ 110,000	\$ 110,000	\$ 115,700	\$ 118,400	\$ 121,100
08-429-741	Replacement - Vehicles	\$ 1,756	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FINANCING										
08-491-000	Contribution to Township	\$ 65,000	\$ 60,000	\$ 49,440	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Cash Funded Capital Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000
	INCOME	\$ 3,026,008	\$ 3,139,608	\$ 3,213,481	\$ 3,145,471	\$ 3,179,100	\$ 3,217,439	\$ 3,379,016	\$ 3,543,362	\$ 3,821,618
	EXPENSES	\$ 2,478,556	\$ 2,235,056	\$ 2,227,051	\$ 2,114,400	\$ 2,493,134	\$ 2,493,134	\$ 2,420,070	\$ 2,496,600	\$ 2,821,940
	NET BEFORE DEBT SERVICE	\$ 547,452	\$ 904,553	\$ 986,430	\$ 1,031,071	\$ 685,967	\$ 724,305	\$ 958,946	\$ 1,046,762	\$ 999,678
08-491-101	Debt Service Capital Loan - Principal	\$ 14,875	\$ 27,210	\$ 40,815	\$ 5,000	\$ 435,000	\$ 435,000	\$ 425,000	\$ 440,000	\$ 450,000
08-491-102	Capital Loan - Interest	\$ 44,650	\$ 63,745	\$ 74,124	\$ 186,691	\$ 234,111	\$ 234,111	\$ 247,732	\$ 232,942	\$ 221,723
08-491-800	Amortization of Bond Issue Cost	\$ 4,302	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Other New Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	TOTAL DEBT SERVICE	\$ 63,827	\$ 90,956	\$ 114,939	\$ 191,691	\$ 669,111	\$ 669,111	\$ 672,732	\$ 672,942	\$ 671,723
	NET AFTER DEBT SERVICE	\$ 483,625	\$ 813,597	\$ 871,491	\$ 839,380	\$ 16,855	\$ 55,194	\$ 286,214	\$ 373,820	\$ 327,955
	Transfer to Capital Reserve					\$	\$ 55,194	\$ 286,214	\$ 373,820	\$ 327,955
	Coverage Ratio	8.58	9.94	8.58	5.38	1.03	1.08	1.43	1.56	1.49

Table 2: Summary of Proposed Commercial Rates With Payment Discount

5%

Present Rates								Proposed Rates	
Size	Size (inches)	No of Accounts	Equivalent Meter Ratio	Semi-Annual Charge	Quarterly Charge	No. of Quarterly Bills	Annual Revenues	Semi-Annual Charge	
5/8-inch	0.625	186	1.0	\$ 265.84	\$ 132.92	744	\$ 98,894.20	\$ 279.14	
3/4-inch	0.75	23	1.5	\$ 398.77	\$ 199.38	92	\$ 18,343.28	\$ 418.71	
1-inch	1	35	2.5	\$ 664.61	\$ 332.31	140	\$ 46,522.81	\$ 697.84	
1-1/2-inch	1.5	19	5.0	\$ 1,329.22	\$ 664.61	76	\$ 50,510.48	\$ 1,395.68	
2-inch	2	19	8.0	\$ 2,126.76	\$ 1,063.38	76	\$ 80,816.76	\$ 2,233.09	
3-inch	3	9	15.0	\$ 3,987.67	\$ 1,993.83	36	\$ 71,778.05	\$ 4,187.05	
4-inch	4	7	25.0	\$ 6,646.12	\$ 3,323.06	28	\$ 93,045.61	\$ 6,978.42	
6-inch	6	1	50.0	\$ 13,292.23	\$ 6,646.12	4	\$ 26,584.46	\$ 13,956.84	
		299				1,196	\$ 486,495.64	61.28%	
Volume Charge (\$/ThGal)				\$ 3.66				\$ 3.84	
Volume (ThGal/Six Months)				42,000.00					
Semi-Annual Volumetric Billing				\$ 153,720.00			\$ 307,440.00	38.72%	
Total Annual Commercial Revenues							\$ 793,935.64		
Payment Discount at 2%							\$ (15,878.71)		
Net Commercial Revenues							\$ 778,056.93		
Commercial Revenues Rounded							\$ 778,000.00		

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Projected Commercial Revenues

Size	Size (inches)	5.00%		5.00%		8.00%		8.00%	
		2017 No of Accounts	2017 Charge	2018 No of Accounts	2018 Charge	2019 No of Accounts	2019 Charge	2020 No of Accounts	2020 Charge
5/8-inch	0.625	186	\$ 279.14	186	\$ 293.10	186	\$ 316.55	186	\$ 341.87
3/4-inch	0.75	23	\$ 418.71	23	\$ 439.65	23	\$ 474.82	23	\$ 512.81
1-inch	1	35	\$ 697.84	35	\$ 732.73	35	\$ 791.35	35	\$ 854.66
1-1/2-inch	1.5	19	\$ 1,395.68	19	\$ 1,465.46	19	\$ 1,582.70	19	\$ 1,709.32
2-inch	2	19	\$ 2,233.09	19	\$ 2,344.74	19	\$ 2,532.32	19	\$ 2,734.91
3-inch	3	9	\$ 4,187.05	9	\$ 4,396.40	9	\$ 4,748.11	9	\$ 5,127.96
4-inch	4	7	\$ 6,978.42	7	\$ 7,327.34	7	\$ 7,913.53	7	\$ 8,546.61
6-inch	6	1	\$ 13,956.84	1	\$ 14,654.68	1	\$ 15,827.05	1	\$ 17,093.21
Annual Revenues			\$ 510,821.26		\$ 536,363.12		\$ 579,273.08		\$ 625,614.08
Volume Charge (\$/Th Gal)			\$ 3.84		\$ 4.03		\$ 4.35		\$ 4.70
Annual Volume (ThGal)			84,000		83,600		83,200		82,800
Annual Volumetric Revenues			\$ 322,560		\$ 336,908		\$ 361,920		\$ 389,160
Total Commercial Revenues			\$ 833,381		\$ 873,271		\$ 941,193		\$ 1,014,774
Payment Discount at 2%			\$ (16,668)		\$ (17,465)		\$ (18,824)		\$ (20,295)
Net Commercial Revenues			\$ 816,714		\$ 855,806		\$ 922,369		\$ 994,479
Commercial Revenues Rounded			\$ 817,000		\$ 856,000		\$ 922,000		\$ 994,000

OUTSIDE REVENUES		5%									
		Actual	(Projected)	(Projected)	(Projected)	Budget	Proposed	5%		5%	8%
		2012	Actual	Actual	Actual	2016	Rates	2017	2018	2019	
08-364-130	PLYMOUTH TOWNSHIP	\$ 119,944	\$ 370,965	\$ 206,580	\$ 212,020	\$ 211,383	\$ 221,952	\$ 233,050	\$ 245,000	\$ 265,000	
08-364-131	SPRINGFIELD TOWNSHIP	\$ 127,181	\$ 317,000	\$ 186,916	\$ 191,838	\$ 191,262	\$ 200,825	\$ 210,866	\$ 221,000	\$ 239,000	
08-364-132	AMBLER BOROUGH	\$ 347,100	\$ 347,000	\$ 292,085	\$ 299,777	\$ 298,876	\$ 313,820	\$ 329,511	\$ 346,000	\$ 374,000	
08-364-133	CONSHOHOCKEN BOROUGH	\$ 3,257	\$ 3,285	\$ 2,753	\$ 2,826	\$ 2,817	\$ 2,958	\$ 3,106	\$ 3,000	\$ 3,000	
08-364-134	WHITPAIN TOWNSHIP	\$ 188,936	\$ 56,449	\$ 103,260	\$ 105,980	\$ 105,661	\$ 110,944	\$ 116,491	\$ 122,000	\$ 132,000	
		\$ 786,418	\$ 1,094,699	\$ 791,594	\$ 812,440	\$ 810,000	\$ 810,000	\$ 893,000	\$ 937,000	\$ 1,013,000	
				\$ 791,594	\$ 812,440	\$ 810,000					
				\$ -	\$ -	\$ -					

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RESIDENTAIL RATES AND REVENUES

Fall 2015

Area	Customers	Rate	Volumetric Rate (\$/ThGal)	Discount
Plymouth	139	\$ 137.50	\$ -	0%
Whitpain Township	12	\$ 170.00	\$ -	2%
Conshohocken	9	\$ 90.00	\$ 3.07	2%
Whitemarsh, Springfield	5085	\$ 137.50	\$ -	2%
Whitemarsh Springfield Duplex	52	\$ 269.50	\$ -	2%

Spring 2015

Plymouth	124	\$ 137.50	\$ -	0%
Whitpain Township	12	\$ 170.00	\$ -	2%
Conshohocken	11	\$ 90.00	\$ 3.07	2%
Whitemarsh, Springfield	5066	\$ 137.50	\$ -	2%
Whitemarsh Springfield Duplex	52	\$ 269.50	\$ -	2%

RESIDENTAIL RATES AND REVENUES

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		5%	5.00%	5.00%	8.00%	8.00%
		2016				
		Proposed				
Normalized Customers and Rates		Rate	2017 Rate	2018 Rate	2019 Rate	2020 Rate
Plymouth	132	\$ 144.38	\$ 151.60	\$ 159.18	\$ 171.91	\$ 185.66
Whitpain Township	12	\$ 178.50	\$ 187.43	\$ 196.80	\$ 212.54	\$ 229.54
Conshohocken	10	\$ 94.50	\$ 99.23	\$ 104.19	\$ 112.53	\$ 121.53
Conshohocken Volume (ThGal/six Mos)	301	\$ 3.22	\$ 3.38	\$ 3.55	\$ 3.83	\$ 4.14
Whitemarsh, Springfield	5076	\$ 144.38	\$ 151.60	\$ 159.18	\$ 171.91	\$ 185.66
Whitemarsh Springfield Duplex	52	\$ 282.98	\$ 297.13	\$ 311.99	\$ 336.95	\$ 363.91

		2017	2017	2018		2019	2019	2020	2020
Projected Customers & Revenues	2016 Revenues	Customers	Revenues	Customers	2018 Revenues	Customers	Revenues	Customers	Revenues
Plymouth	\$ 38,116	132	\$ 40,022	132	\$ 42,024	132	\$ 45,384	132	\$ 49,014
Whitpain Township	\$ 4,284	12	\$ 4,498	12	\$ 4,723	12	\$ 5,101	12	\$ 5,509
Conshohocken	\$ 1,890	10	\$ 1,985	10	\$ 2,084	10	\$ 2,251	10	\$ 2,431
Conshohocken Volume	\$ 1,938	301	\$ 2,035	301	\$ 2,136	301	\$ 2,307	301	\$ 2,492
Whitemarsh, Springfield	\$ 1,465,746	5076	\$ 1,539,043	5076	\$ 1,615,995	5076	\$ 1,745,230	5076	\$ 1,884,820
Whitemarsh Springfield Duplex	\$ 29,430	52	\$ 30,902	52	\$ 32,447	52	\$ 35,043	52	\$ 37,847
Total Revenues	\$ 1,541,404		\$ 1,618,485		\$ 1,699,409		\$ 1,835,316		\$ 1,982,113
Discounts at 2%	\$ (30,066)		\$ (31,569)		\$ (33,148)		\$ (35,799)		\$ (38,662)
Net Revenues	\$ 1,511,339		\$ 1,586,916		\$ 1,666,262		\$ 1,799,518		\$ 1,943,451

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 WHITEMARSH TOWNSHIP AUTHORITY
 CAPITAL BUDGET

Capital Improvements Previously Financed					Projected Improvements Not Financed				
	SPENT								
	TO DATE	4th Quarter 2015	2016	2016+	2017	2018	2019	2020	
1 Inflow & Infiltration Study	\$ 40,605				\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	
2 Data Management & Record Keeping System	\$ 70,000								
3 Manhole Inspections	\$ 53,713			\$ 21,287					
4 Treatment Plant Upgrades	\$ 4,268,333								
5 Force Main & Upgrade of PS Nos. 1 and 2	\$ 6,150								
6 Pump Station No. 3 Modifications/Flow Meter				\$ 50,000					
7 Pump Station No. 4 Modifications				\$ 150,000					
8 Pump Station Nos. 5A and 7 Upgrades	\$ 49,500	\$ 25,000	\$ 600,000	\$ -					
9 Pump Station No. 6 Muffin Monster				\$ 60,000					
10 Pump Station No. 8 Muffin Monster				\$ 60,000					
11 Pump Station No. 9 Modifications				\$ 50,000					
12 Applewood/Brook Sewer Replacement	\$ 150,000	\$ 100,000							
13 Helman/Hillside/Fairway Sewer Replacement	\$ 27,000			\$ 450,000					
14 SCADA System			\$ 500,000	\$ -					
15 Laurel Drive Sewer Replacement				\$ 125,000					
16 Pump Station No. 13 Modifications				\$ 40,000					
17 Washington Street Sewer Replacement				\$ 161,000					
18 Hunter Road Sewer Replacement				\$ 350,000					
19 Warner Road Sewer Replacement				\$ 120,000					
20 Jet Truck				\$ 300,000					
21 Pick-Up Trucks (2)				\$ 80,000					
22 Utility Truck				\$ 30,000					
23 Utility Trailer				\$ 4,000					
24 Mower				\$ 2,500					
25 Butler/Stenton LPSS	\$ 350,000								
26 Joshua Road Force Main	\$ 543,137								
27 Copper Beech Interceptor Replacement	\$ 334,947								
28 Toland Drive & 504 Flourtown Grinder Pumps	\$ 105,000								
29 Sewer Camera				\$ 50,000					
Subtotals	\$ 5,998,385	\$ 125,000	\$ 1,100,000	\$ 2,103,787	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	
Projects Funded with Loan Funds					\$ 750,000	\$ 750,000	\$ -	\$ -	
Cumulative Draw Against Exsting Loan	\$ 6,357,964		\$ 8,500,000		\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	
Cash Surplus From Operations - Capital Reserve			\$ 55,194		\$ 286,214	\$ 373,820	\$ 327,955	\$ 652,694	
Cumulative Capital Reserve Balance					\$ 341,408	\$ 715,228	\$ 543,183	\$ 595,877	
Capital Improvements Funded With Reserve Funds					\$ -	\$ -	\$ 500,000	\$ 600,000	
Capital Improvements Funded with Cash from Operations					\$ -	\$ -	\$ 250,000	\$ 150,000	

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PROPOSED RATE ADJUSTMENTS

Year	Commercial Outside		Residential	
	Adjustment	Adjustment	Adjustment	Adjustment
2016	5%	5%	5%	5%
2017	5%	5%	5%	5%
2018	5%	5%	5%	5%
2019	8%	8%	8%	8%
2020	8%	8%	8%	8%