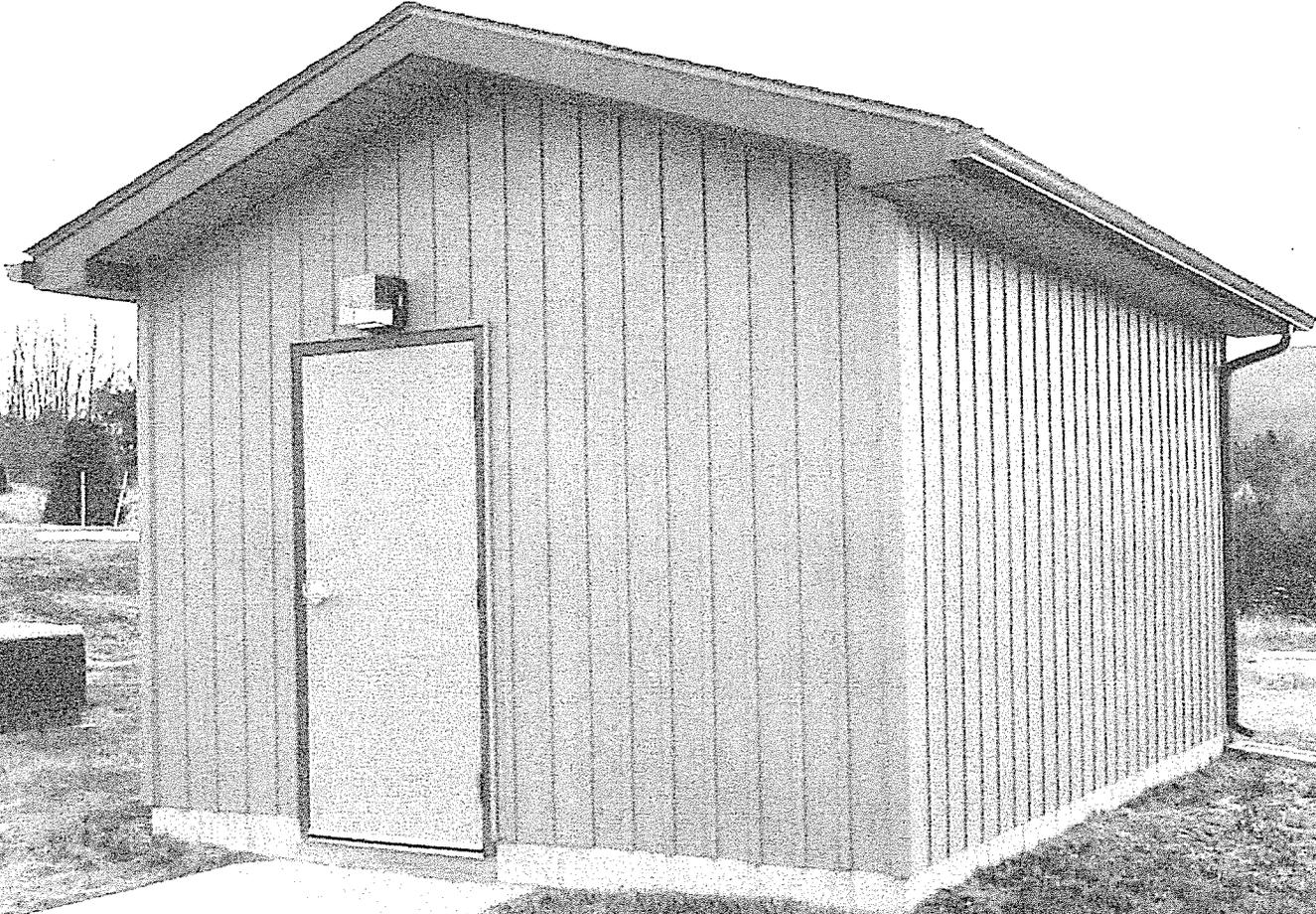


2015 College Township Water Authority Operating and Capital Budget



**Oak Hall (OH-19) Pump House**

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TAB 1

OPERATING BUDGET SUMMARY

	2006	2007	2008	2009	2010	2011	2012	2013	2014		2015
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
<b>OPERATING INCOME</b>											
Water System Revenues	1,462,263	1,646,077	1,693,859	1,349,488	1,535,441	1,563,037	1,648,202	1,672,358	1,595,744	1,599,293	1,659,785 (1)
<b>OPERATING EXPENSES</b>											
Purification and Pumping	145,238	140,570	149,208	130,872	135,815	125,184	111,752	112,442	118,850	115,521	121,470
Distribution System	213,032	195,877	226,458	194,766	259,475	253,992	264,360	208,239	206,700	222,455	216,290
General Expense	295,667	308,830	295,096	338,010	359,875	397,731	415,601	441,923	468,216	465,284	481,067
<b>TOTAL OPERATING EXPENSES</b>	<b>653,937</b>	<b>645,277</b>	<b>670,762</b>	<b>663,648</b>	<b>755,165</b>	<b>776,907</b>	<b>791,713</b>	<b>762,604</b>	<b>793,766</b>	<b>803,260</b>	<b>818,827 (2)</b>
<b>OPERATING MARGIN</b>	<b>808,326</b>	<b>1,000,800</b>	<b>1,023,097</b>	<b>685,840</b>	<b>780,276</b>	<b>786,130</b>	<b>856,489</b>	<b>909,754</b>	<b>801,978</b>	<b>796,033</b>	<b>840,958</b>
<b>NON-OPERATING INCOME (EXPENSE)</b>	<b>82,433</b>	<b>72,608</b>	<b>47,660</b>	<b>25,223</b>	<b>6,027</b>	<b>4,824</b>	<b>949</b>	<b>7,383</b>	<b>7,800</b>	<b>8,700</b>	<b>6,100 (3)</b>
<b>INCOME BEFORE DEBT SERVICE</b>	<b>890,759</b>	<b>1,073,408</b>	<b>1,070,757</b>	<b>711,063</b>	<b>786,303</b>	<b>790,954</b>	<b>857,438</b>	<b>917,137</b>	<b>809,778</b>	<b>804,733</b>	<b>847,058</b>
<b>LESS: DEBT SERVICE REQUIREMENT</b>	<b>556,411</b>	<b>441,330</b>	<b>432,928</b>	<b>423,111</b>	<b>402,242</b>	<b>376,904</b>	<b>370,016</b>	<b>358,816</b>	<b>725,473</b>	<b>725,473</b>	<b>722,573 (4)</b>
<b>AVAILABLE FOR CAPITAL, CONTINGENCIES AND RESERVE</b>	<b>334,348</b>	<b>632,078</b>	<b>637,829</b>	<b>287,952</b>	<b>384,061</b>	<b>414,050</b>	<b>487,422</b>	<b>558,321</b>	<b>84,305</b>	<b>79,260</b>	<b>124,485</b>

CALCULATION OF COMPLIANCE WITH TRUST INDENTURE COVERAGE REQUIREMENT

----- OPERATING REVENUE MUST EQUAL OR EXCEED THE TOTAL OF 1) OPERATING EXPENSES AND 2) 110% OF DEBT SERVICE -----

This calculation is required by the trust indenture securing the 2010 bonds and is referred to as the calculation of required coverage.

Water System Revenues	1,595,744	1,599,293	1,659,785 (1)
Investment Income	7,800	8,700	6,100 (3)
	<b>1,603,544</b>	<b>1,607,993</b>	<b>1,665,885</b>
Administrative and operating expenses	793,766	803,260	818,827 (2)
Debt Service	725,473	725,473	722,573 (4)
10% of Debt Service	72,547	72,547	72,257
	<b>1,591,786</b>	<b>1,601,280</b>	<b>1,613,657</b>
Excess Coverage	<b>11,758</b>	<b>6,713</b>	<b>52,228</b>

TAB 2

OPERATING INCOME

	2007 AUDITED	2008 AUDITED	2009 AUDITED	2010 AUDITED	2011 AUDITED	2012 AUDITED	2013 AUDITED	2014 BUDGET	2014 EXPECTED	2015 PROPOSED
<b><u>WATER SYSTEM REVENUES</u></b>										
<b>METERED WATER REVENUES</b>										
378.110 Metered Water Revenues - Residential	633,429	638,160	632,052	717,258	712,142	708,432	751,800	739,320	745,000	781,440
378.120 Metered Water Revenues - Commercial	250,285	223,313	243,537	272,542	285,115	294,954	302,268	294,630	293,000	307,840
378.130 Metered Water Revenues - Industrial	161,914	92,555	71,793	71,189	75,610	71,704	72,095	70,760	56,000	58,880
378.140 Metered Water Revenues - Other Public	12,999	12,296	10,005	18,354	16,894	20,193	27,831	26,623	23,000	24,118
378.141 Metered Water Revenues - SCI Rockview	182,204	235,330	103,272	125,000	128,500	131,708	136,125	123,150	136,500	125,125
378.142 Metered Water Revenues - UAJA BRW	0	57,627	44,001	40,486	61,174	62,446	78,424	56,785	56,785	64,880
Subtotal	1,240,831	1,259,281	1,104,660	1,244,829	1,279,435	1,289,437	1,368,543	1,311,268	1,310,285	1,362,283
<b>FIRE SERVICES</b>										
378.405 Fire Services - CTWA Hydrants	66,733	68,427	69,659	84,249	85,045	85,300	85,885	86,715	86,530	87,084
378.410 Fire Services - Private Hydrants	4,883	4,883	5,037	5,081	4,773	4,681	4,681	4,312	4,680	4,620
378.420 Fire Services - Sprinkler Fire Lines	131,713	134,681	136,210	146,933	149,425	150,088	152,112	152,449	153,798	153,798
Subtotal	203,329	207,991	210,906	236,263	239,243	240,069	242,678	243,476	245,008	245,502
<b>OTHER WATER RELATED REVENUES</b>										
378.300 Penalties	11,454	11,416	14,115	13,812	13,699	14,506	16,497	15,500	16,500	16,500
378.500 Water Main Connection Fees	13,003	35,756	11,943	32,761	7,619	101,456	23,874	20,000	22,000	30,000
378.505 Capital Recovery - SCI Rockview	163,678	170,255	0	0	0	0	0	0	0	0
378.510 Meter Sales and Installations	0	0	0	0	0	0	0	0	0	0
380.000 Miscellaneous	13,782	9,160	7,864	7,776	23,041	2,734	20,766	5,500	5,500	5,500
Subtotal	201,917	226,587	33,922	54,349	44,359	118,696	61,137	41,000	44,000	52,000
<b>TOTAL WATER SYSTEM REVENUES</b>	<b>1,646,077</b>	<b>1,693,859</b>	<b>1,349,488</b>	<b>1,535,441</b>	<b>1,563,037</b>	<b>1,648,202</b>	<b>1,672,358</b>	<b>1,595,744</b>	<b>1,599,293</b>	<b>1,659,785</b>

## OPERATING REVENUES

### METERED WATER REVENUE

Effective January 1, 2015, water consumption is proposed to be billed to the majority of its customers for each meter at \$6.40 per 1,000 gallons consumed, a 4.9% increase over the 2014 rate of \$6.10.

**BELLEFONTE INTERCONNECT:** Pursuant to an agreement with the Borough of Bellefonte and the Bellefonte Borough Authority, the College Township Water Authority agreed to supply water to the Borough in an emergency only. For emergency use, the Borough pays ½ the rate the College Township Water Authority charges its regular customers. The Borough pays \$0.49 per thousand gallons for water usage to keep the interconnection lines fresh. This agreement expires on 12/31/2014 and automatically renews each year unless terminated by either party pursuant to terms of the agreement.

**SCI- ROCKVIEW:** During 2003, the Authority entered into an agreement with the Commonwealth of Pennsylvania whereby the Authority has agreed to provide the Department of Corrections up to 700,000 gallons of potable water daily as a backup water supply. The Commonwealth has committed to a minimum purchase of 50 million gallons of water per year. The initial contract rate, which was fixed for a period of 5 years, now adjusts on an annual basis. Potable water was first made available on June 9, 2004.

This agreement terminated on 6/4/2014. As requested by the Department, in discussions with the Authority's solicitor, the terms of the expired contract will continue until a revised agreement is in place. The Authority has had no indication from the Commonwealth regarding their direction and accordingly, has forecasted 43,750,000 gallons at the contract rate of \$2.86 per thousand gallons.

**UAJA:** The Authority has amended its agreement with UAJA dated November 18, 2009 which provides for reimbursement to the Authority for Beneficial Reuse Water (BRW) supplied by UAJA and used by customers of the Authority. The reimbursement for BRW used by Cintas will continue to be reimbursed at the Authority's customary rate per thousand gallons less the cost of purification and pumping. The rate adjusts annually, consistent with CTWA rate structure and purification and pumping costs. The rate for 2015 will be \$5.91 per thousand gallons. Reimbursement for Best Western and Redline Speed Shine will be one-half its customary rate per thousand gallons, to be adjusted annually consistent with the Authority's rate structure. Any current or potential customers of the Authority desiring to use beneficial reuse water may only do so with approval of the Authority and College Township. Furthermore, the Authority will determine the reimbursement from UAJA due for these new customers.

The number and types of customers expected to be served by the Authority during 2015, along with the total billed usage for those customer classes, is as shown in the following table:

OPERATING REVENUES

<u>CUSTOMER CLASS</u>	<u>NUMBER</u>	<u>BILLING USAGE (GALLONS)</u>	<u>REVENUE</u>
Residential	2,425	122,100,000	\$781,440
Commercial	306	48,100,000	307,840
Industrial	14	9,200,000	58,880
Other Public:			
Bellefonte Interconnect	1	2,200,000	1,078
Other Public	<u>15</u>	<u>3,600,000</u>	<u>23,040</u>
	<b>2,761</b>	<b>185,200,000</b>	<b>\$ 1,172,278</b>
UAJA – Beneficial Reuse			
Cintas	1	9,202,000	\$54,384
Other	<u>2</u>	<u>3,280,000</u>	<u>10,496</u>
	<b>3</b>	<b>12,482,000</b>	<b>64,880</b>
SCI-Rockview	<u>1</u>	<u>43,750,000</u>	<u>125,125</u>
<b>TOTAL</b>	<b><u>2,765</u></b>	<b><u>241,432,000</u></b>	<b><u>\$ 1,362,283</u></b>

**FIRE SERVICES**

The following table reflects the types of fire service, the number of customers utilizing these services, and the revenue to be expected in 2015:

<u>HYDRANTS</u>	<u>NUMBER</u>	<u>ANNUAL CHARGE</u>	<u>REVENUE</u>
Hydrants – Authority owned and maintained	236	\$ 369	<u>\$87,084</u>
Hydrants – Privately owned and maintained	15	\$ 308	<u>\$ 4,620</u>

OPERATING REVENUES

<u>STANDBY FIRE LINES</u>	<u>NUMBER</u>	<u>ANNUAL CHARGE</u>	<u>REVENUE</u>
Sprinkler – 4” fire service	18	\$ 1,349	\$24,282
Sprinkler – 6” fire service	24	\$ 2,698	64,752
Sprinkler – 8” fire service	<u>12</u>	\$ 5,397	<u>64,764</u>
	53		<u>\$153,798</u>

**PENALTIES**

This account covers the 10% penalty charged to customers who don't pay their bill within 30 days of the billing date.

**WATER MAIN CONNECTION FEES**

This account is for the revenue generated from customers connecting to the distribution system. The connection fee allows the Authority to recoup its cost to install the new service connection and includes the customer's facilities fee and the tapping fee. The fee is set so as not to exceed that allowed by state law.

**CAPITAL RECOVERY – SCI ROCKVIEW**

In order to provide potable water to the Department of Corrections pursuant to the 2003 agreement, a 12-inch transmission line has been constructed from the Authority's line to the State's property. The actual cost of the project including capitalized interest and allocable debt issuance costs is \$803,675. The agreement required the Commonwealth to reimburse the Authority for the costs of the project (principal) together with interest over a 5-year period. Principal repayment is reflected here and interest is included in investment income. The final payment was made on 6/9/2009.

**METER SALES AND INSTALLATIONS**

This item of revenue reflects the charges to customers for the installation of meters, either individuals or in groups (pits) not charged pursuant to a water main connection application.

## OPERATING REVENUES

### **MISCELLANEOUS WATER REVENUES**

This account is for other water system related revenues not accounted for elsewhere. This would include income from reimbursement for cost of repairs to damaged meters, mains, fire hydrants, and any other repairs made by Authority personnel. Reimbursements are paid by companies or individuals damaging our facilities primarily through their neglect.

TAB 3

PURIFICATION AND PUMPING EXPENSES

	2006 AUDITED	2007 AUDITED	2008 AUDITED	2009 AUDITED	2010 AUDITED	2011 AUDITED	2012 AUDITED	2013 AUDITED	2014		2015
									BUDGET	EXPECTED	PROPOSED
<b>PURIFICATION EXPENSE</b>											
448.201 Operating Supplies and Exp-Mt Nittany Conta	0	0	0	0	0	0	0	0	0	0	0
448.202 Chemical Purchases	24,131	25,397	22,565	21,323	21,460	18,299	18,335	20,157	23,000	20,950	23,000
448.203 Power Purchased - Mt Nittany Contact Tank	0	0	0	0	0	0	0	0	0	0	0
448.204 Water Analysis	14,034	11,809	17,972	15,243	8,685	20,055	8,411	9,875	15,000	16,000	13,000
448.205 Equipment Maintenance - Mt Nittany Contact T	0	0	0	0	0	0	0	0	0	0	0
448.206 Structure Maintenance - Mt Nittany Contact T	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL PURIFICATION</b>	<b>38,165</b>	<b>37,206</b>	<b>40,537</b>	<b>36,566</b>	<b>30,145</b>	<b>38,354</b>	<b>26,746</b>	<b>30,032</b>	<b>38,000</b>	<b>36,950</b>	<b>36,000</b>
<b>PUMPING EXPENSE</b>											
<b>PUDDINTOWN STATION</b>											
448.311 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.312 Power Purchased	51	0	0	180	56	12	4	0	50	50	50
448.313 Equipment Maintenance	0	0	0	0	0	0	0	0	0	0	0
448.314 Structure Maintenance	0	0	612	204	204	204	0	804	250	250	250
<b>Subtotal</b>	<b>51</b>	<b>0</b>	<b>612</b>	<b>384</b>	<b>260</b>	<b>216</b>	<b>4</b>	<b>804</b>	<b>300</b>	<b>300</b>	<b>300</b>
<b>MATILDA BOOSTER STATION</b>											
448.321 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.322 Power Purchased	1,416	1,262	1,656	1,315	883	805	656	1,260	1,200	1,200	1,260
448.323 Equipment Maintenance	13	0	38	0	0	25	0	4,826	250	250	250
448.324 Structure Maintenance	0	0	118	0	952	0	0	445	150	150	150
<b>Subtotal</b>	<b>1,429</b>	<b>1,262</b>	<b>1,812</b>	<b>1,315</b>	<b>1,835</b>	<b>830</b>	<b>656</b>	<b>6,531</b>	<b>1,600</b>	<b>1,600</b>	<b>1,660</b>
<b>LEMONT BOOSTER STATION</b>											
448.331 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.332 Power Purchased	3,669	2,802	3,212	2,777	2,763	4,002	2,656	3,213	2,600	2,600	2,730
448.333 Equipment Maintenance	0	3,417	1,536	179	0	1,387	2,567	559	700	700	700
448.334 Structure Maintenance	74	148	945	289	214	377	405	295	700	700	700
<b>Subtotal</b>	<b>3,743</b>	<b>6,367</b>	<b>5,693</b>	<b>3,245</b>	<b>2,977</b>	<b>5,766</b>	<b>5,628</b>	<b>4,067</b>	<b>4,000</b>	<b>4,000</b>	<b>4,130</b>
<b>SPRING CREEK PARK WELL</b>											
448.361 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.362 Power Purchased	26,258	31,208	32,691	32,361	35,473	32,879	26,080	23,364	24,000	24,000	25,200
448.363 Equipment Maintenance	8,474	4,088	5,376	3,269	9,276	4,638	5,776	9,017	7,500	7,500	7,500
448.364 Structure Maintenance	415	0	310	101	0	486	978	485	500	600	500
448.365 Well Monitoring Costs	3,652	6,816	0	3,540	106	0	0	0	0	0	0
448.367 Easement Costs	5,000	5,000	5,000	5,610	5,610	5,610	5,610	5,610	5,700	5,700	5,700
<b>Subtotal</b>	<b>43,799</b>	<b>47,112</b>	<b>43,377</b>	<b>44,881</b>	<b>50,465</b>	<b>43,613</b>	<b>38,444</b>	<b>38,476</b>	<b>37,700</b>	<b>37,800</b>	<b>38,900</b>

PURIFICATION AND PUMPING EXPENSES

	2006	2007	2008	2009	2010	2011	2012	2013	2014		2015
	AUDITED	BUDGET	EXPECTED	PROPOSED							
<b>ROGERS WELL</b>											
448.371 Operating Supplies and Expense	0	0	0	0	0	0	1	0	0	0	0
448.372 Power Purchased	34,575	37,641	45,061	37,196	37,956	26,354	33,743	25,472	28,000	26,000	29,400
448.373 Equipment Maintenance	3,163	423	231	2,250	2,757	5,510	4,317	3,366	2,750	2,750	2,750
448.374 Structure Maintenance	1,715	626	234	12	4,373	441	118	713	1,000	1,000	1,000
448.375 Well Monitoring Costs	18,598	9,933	11,651	5,023	4,792	4,100	0	2,981	3,000	3,000	3,000
<b>Subtotal</b>	<b>58,051</b>	<b>48,623</b>	<b>57,177</b>	<b>44,481</b>	<b>49,878</b>	<b>36,405</b>	<b>38,179</b>	<b>32,532</b>	<b>34,750</b>	<b>32,750</b>	<b>36,150</b>
<b>OAK HALL WELLS</b>											
448.391 Operating Supplies and Expense	0	0	0	0	0	0	0	0	1,250	1,250	500
448.392 Power Purchased	0	0	0	0	0	0	0	0	300	40	2,730
448.393 Equipment Maintenance	0	0	0	0	0	0	0	0	250	75	300
448.394 Structure Maintenance	0	0	0	0	0	0	0	0	0	56	100
448.395 Well Monitoring Costs	0	0	0	0	0	0	0	0	0	0	0
<b>Subtotal</b>	<b>0</b>	<b>1,800</b>	<b>1,421</b>	<b>3,630</b>							
<b>INTERCONNECTIONS - SCBWA ,PSU, and BELLEFONTE</b>											
448.386 Purchased Water	0	0	0	0	0	0	2,095	0	500	500	500
448.388 Interconnection Maintenance	0	0	0	0	255	0	0	0	200	200	200
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>255</b>	<b>0</b>	<b>2,095</b>	<b>0</b>	<b>700</b>	<b>700</b>	<b>700</b>
<b>TOTAL PUMPING</b>	<b>107,073</b>	<b>103,364</b>	<b>108,671</b>	<b>94,306</b>	<b>105,670</b>	<b>86,830</b>	<b>85,006</b>	<b>82,410</b>	<b>80,850</b>	<b>78,571</b>	<b>85,470</b>
<b>TOTAL PURIFICATION AND PUMPING</b>	<b>145,238</b>	<b>140,570</b>	<b>149,208</b>	<b>130,872</b>	<b>135,815</b>	<b>125,184</b>	<b>111,752</b>	<b>112,442</b>	<b>118,850</b>	<b>115,521</b>	<b>121,470</b>

## PURIFICATION AND PUMPING EXPENSES

### PURIFICATION

**Note:** At this time, Mt. Nittany Contact Tank is not operational.

#### **448.202      CHEMICAL PURCHASES**

This line item covers the purchase of chlorine, corrosion inhibitor, and other chemicals used to treat water.

#### **448.204      WATER ANALYSIS**

This line item covers the cost of testing water samples collected throughout the entire water system at EPA and DEP approved labs.

### PUMPING

#### PUDDINTOWN STATION

#### **448.311      OPERATING SUPPLIES AND EXPENSE**

At this time, the Puddintown station is not operational.

PURIFICATION AND PUMPING EXPENSES

**448.312 POWER PURCHASED**

This account covers the cost of electricity.

**448.313 EQUIPMENT MAINTENANCE**

At this time, the Puddintown station is not operational.

**448.314 STRUCTURE MAINTENANCE**

This line item covers the costs incurred in repairing and maintaining the structures at this facility.

**MATILDA BOOSTER STATION**

**448.321 OPERATING SUPPLIES AND EXPENSE**

This line item covers the cost of light bulbs, fuses, and other operating supplies specific to this facility.

**448.322 POWER PURCHASED**

This account covers the cost of electricity used in this facility for light, heat, equipment, and pumps.

PURIFICATION AND PUMPING EXPENSES

**448.323      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, meters, and other equipment located at the facility.

**448.324      STRUCTURE MAINTENANCE**

This line item covers the costs incurred in repairing and maintaining the structures at this facility.

**LEMONT BOOSTER STATION**

**448.331      OPERATING SUPPLIES AND EXPENSE**

This line item covers the cost of light bulbs, fuses, and other operating supplies specific to this facility.

**448.332      POWER PURCHASED**

This account covers the cost of electricity for light, heat, equipment, and pumps.

**448.333      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, meters, and other equipment located at the facility.

PURIFICATION AND PUMPING EXPENSES

**448.334      STRUCTURE MAINTENANCE**

This line item covers the costs incurred in repairing and maintaining the structure at this facility.

**WATER SOURCE: SPRING CREEK PARK WELL**

**448.361      OPERATING SUPPLIES AND EXPENSE**

This account covers the cost of light bulbs, fuses, and other operating supplies specific to this facility.

**448.362      POWER PURCHASED**

This account covers the cost of electricity used for light, heat, equipment, and pumps.

**448.363      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, chlorine residual analyzer, chlorine feeds, and meters.

**448.364      STRUCTURE MAINTENANCE**

This account covers the costs incurred in repairing and maintaining the structure at this facility.

## PURIFICATION AND PUMPING EXPENSES

### **448.365 WELL MONITORING COST**

The well monitoring plan was required by DEP during a four year period from the start up of the station in November 2001 to November 2005. Therefore, nothing is budgeted for this account at this time. Provides for the services of a hydrogeologist used for various purposes from time to time.

### **448.367 EASEMENT COSTS**

Pursuant to an easement agreement with the College Township Water Authority signed July 7, 1999, the Authority paid the Township an annual fee of \$5,000 beginning 11/29/06. The fee is to be used for park and recreation purposes. As required by the agreement, the fee adjusted to \$5,610 in 2009, and will adjust for 2014 to amount of \$5,700 and every fifth year thereafter.

### **WATER SOURCE: OAK HALL WELL (OH-19)**

### **448.391 OPERATING SUPPLIES AND EXPENSE**

This account covers the cost of light bulbs, fuses, and other operating supplies specific to this facility.

### **448.392 POWER PURCHASED**

This account covers the cost of electricity used for light, heat, equipment, and pumps.

PURIFICATION AND PUMPING EXPENSES

**448.393      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, chlorine residual analyzer, chlorine feeds, and meters.

**448.394      STRUCTURE MAINTENANCE**

This account covers the costs incurred in repairing and maintaining the structure at this facility.

**448.395      WELL MONITORING COST**

Nothing is budgeted for this account at this time.

**WATER SOURCE: ROGERS WELL**

**448.371      OPERATING SUPPLIES AND EXPENSE**

This line item covers the cost of light bulbs, fuses, and other operating supplies specific to this facility.

**448.372      POWER PURCHASED**

This account covers the cost of electricity used in these facilities for light, heat, equipment, and pumps.

PURIFICATION AND PUMPING EXPENSES

**448.373      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, chlorine residual analyzer, chlorine feeds, and meters.

**448.374      STRUCTURE MAINTENANCE**

This line item covers the costs incurred in repairing and maintaining the structures at this facility.

**448.375      WELL MONITORING COST**

This account consists primarily of costs incurred in conducting monitoring as required by DEP. It also provides for the services of a hydrogeologist used for various purposes from time to time.

**INTERCONNECTIONS – SCBWA, PSU, AND BELLEFONTE**

**448. 386      PURCHASED WATER**

This line item covers the cost of metered water provided by agreement with Penn State University and State College Borough Water Authority as backup sources for the CTWA water system.

**448. 388      INTERCONNECTION MAINTENANCE**

This line item covers the cost of maintaining backflow preventors, meter pits, and PRVs incidental to the interconnections.

TAB 4

**DISTRIBUTION SYSTEM EXPENSES**

	2006 AUDITED	2007 AUDITED	2008 AUDITED	2009 AUDITED	2010 AUDITED	2011 AUDITED	2012 AUDITED	2013 AUDITED	2014		2015
									BUDGET	EXPECTED	PROPOSED
<b>STORAGE-DALE ST RESERVOIR</b>											
448.341 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.342 Power Purchased	285	379	438	113	266	153	150	149	150	150	150
448.343 Equipment Maintenance	3,555	80	5,701	1,659	0	26	4	85	500	500	500
448.344 Structure Maintenance	4,009	2,286	8,855	304	3,184	404	0	4,955	500	500	500
<b>Subtotal</b>	<b>7,849</b>	<b>2,745</b>	<b>14,994</b>	<b>2,076</b>	<b>3,450</b>	<b>583</b>	<b>154</b>	<b>5,189</b>	<b>1,150</b>	<b>1,150</b>	<b>1,150</b>
<b>STORAGE-STRUBLE RD TANK</b>											
448.351 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.352 Power Purchased	0	0	0	289	152	309	231	197	250	250	250
448.353 Equipment Maintenance	0	0	0	1,443	0	1,135	68	0	500	500	500
448.354 Structure Maintenance	0	0	57	530	0	0	0	0	250	250	250
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>57</b>	<b>2,262</b>	<b>152</b>	<b>1,444</b>	<b>299</b>	<b>197</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>
<b>MAINTENANCE-DISTRIBUTION SYSTEM</b>											
448.475 Maintenance of Distribution / Trans Mains	29,283	20,902	14,073	8,710	52,536	34,924	23,601	17,111	18,000	20,000	20,000
448.490 Maintenance of Service Lines	17,607	5,382	9,913	18,831	14,986	11,623	9,652	6,689	10,000	12,500	10,000
448.495 Dumping Fees	0	0	0	0	0	0	1	2,943	2,000	2,000	3,400
448.510 Maintenance of Hydrants	673	4,962	2,186	1,394	3,099	695	95	4,044	2,000	1,000	2,000
448.530 Meter Supplies and Maintenance	2,041	2,090	1,370	2,392	2,059	3,525	1,535	945	1,500	900	1,250
448.532 PRV - Penn Hills	0	0	0	0	11	17	1,122	937	300	300	100
448.534 PRV - Independence Place	0	845	2	0	0	0	881	52	300	300	100
448.536 PRV - Oak Hall	189	845	279	1,693	0	0	320	3	300	300	100
448.537 PRV - Rockview North	110	115	0	85	1,281	75	1,103	61	300	300	100
448.538 PRV - Rockview South	91	217	0	0	0	0	0	0	300	300	100
448.539 PRV - Bellefonte Interconnect	0	0	0	76	0	0	129	216	300	300	100
448.541 PRV - Nittany Commons	0	0	0	0	0	0	909	0	300	300	100
<b>Subtotal</b>	<b>49,994</b>	<b>35,358</b>	<b>27,823</b>	<b>33,181</b>	<b>73,972</b>	<b>50,859</b>	<b>39,348</b>	<b>33,001</b>	<b>35,600</b>	<b>38,500</b>	<b>37,350</b>
<b>GENERAL-DISTRIBUTION SYSTEM</b>											
448.181 Contract Labor - College Twp Personnel	26,318	35,359	40,711	24,365	33,523	46,247	53,059	28,386	5,200	28,000	12,000
448.540 Contract Labor - Technicians	117,536	114,104	127,111	122,848	132,438	136,134	146,517	126,541	141,250	141,250	144,000
448.556 Leak Detection Services	5,343	0	2,311	0	0	92	0	0	2,000	2,000	2,000
448.575 R-O-W, Regulatory Compliance	581	726	2,142	1,692	2,119	2,314	2,492	1,369	2,500	1,200	1,300
448.648 Pa One Call Service	780	1,163	1,152	783	1,120	843	1,386	586	1,000	575	1,000
448.760 Small Tools and Minor Equipment	4,383	1,856	3,541	1,224	5,640	7,748	9,018	1,898	2,500	2,100	2,500
448.761 Repairs and Maintenance-Water Equip	0	4,107	2,750	5,060	6,791	7,463	11,760	11,072	14,000	6,530	13,490
448.762 Safety Equipment	248	459	3,866	1,275	270	265	327	0	500	150	500
<b>Subtotal</b>	<b>155,189</b>	<b>157,774</b>	<b>183,584</b>	<b>157,247</b>	<b>181,901</b>	<b>201,106</b>	<b>224,559</b>	<b>169,852</b>	<b>168,950</b>	<b>181,805</b>	<b>176,790</b>
<b>TOTAL DISTRIBUTION SYSTEM</b>	<b>213,032</b>	<b>195,877</b>	<b>226,458</b>	<b>194,766</b>	<b>259,475</b>	<b>253,992</b>	<b>264,360</b>	<b>208,239</b>	<b>206,700</b>	<b>222,455</b>	<b>216,290</b>

**DISTRIBUTION SYSTEM EXPENSES**

**STORAGE – DALE STREET RESERVOIR**

**448.341      OPERATING SUPPLIES AND EXPENSE**

This line item covers the cost of miscellaneous supplies specific to this facility.

**448.342      POWER PURCHASED**

This line item covers the electricity used for monitoring equipment and in lighting the area.

**448.343      EQUIPMENT MAINTENANCE**

This line item covers the cost incurred in maintaining the equipment located at this site. SCADA System components are considered to be equipment.

**448.344      STRUCTURE MAINTENANCE**

This line item covers the cost incurred in repairing and maintaining the reservoir and other structures at this facility.

**STORAGE – STRUBLE ROAD TANK**

**448.351      OPERATING SUPPLIES AND EXPENSE**

This line item covers the cost of miscellaneous supplies specific to this facility.

## DISTRIBUTION SYSTEM EXPENSES

### 448.352 POWER PURCHASED

This line item covers the electricity used for monitoring equipment and in lighting the area.

### 448.353 EQUIPMENT MAINTENANCE

This line item covers the cost incurred in maintaining the equipment located at this site. SCADA System components are considered to be equipment.

### 448.354 STRUCTURE MAINTENANCE

This line item covers the cost incurred in repairing and maintaining the above ground storage tank located at Struble Road.

## MAINTENANCE – DISTRIBUTION SYSTEM

### 448.475 MAINTENANCE OF DISTRIBUTION/TRANSMISSION MAINS

Distribution waterlines deliver water to and through specific areas and to individual customers. Costs incurred in repairing distribution water mains and appurtenances, such as blow-offs and gate valves, in the distribution system are recorded here.

Transmission waterlines are those primary routes where large flows of water are expected to be conveyed across a pressure zone and typically extend from the water source to and from storage/booster facilities, and beyond to areas of high water demand. The costs involved in repairing and maintaining the various transmission lines throughout the water system are recorded here.

## DISTRIBUTION SYSTEM EXPENSES

### **448.490 MAINTENANCE OF SERVICE LINES**

This line item covers the costs incurred in maintaining service lines, curb stops, main corporations, and curb boxes in the distribution system.

### **448.495 DUMPING FEES**

Excavated waste material from project and maintenance work is hauled to the CMJ Trucking & Construction fill site along Shiloh Road. In past years, there has not been a fee to dump at this site. However, beginning in 2012, the owner of the site began charging Municipalities and Authorities the dumping fee which is currently \$25.00 per truck load for a single axle dump truck and \$35.00 for a tandem or tri-axle dump truck. It is estimated for 2015 that 40 tandem or tri-axle loads of waste material will be hauled to the site for a total cost of \$2,400. An additional \$1,000 is added for the rental of trucks to haul material to the Shiloh site from the temporary dump site at the Mt. Nittany Road shale pit area.

### **448.510 MAINTENANCE OF HYDRANTS**

This item covers the cost incurred in maintaining, including painting fire hydrants. Currently, the authority maintains 236 hydrants.

### **448.530 METER SUPPLIES AND MAINTENANCE**

This line item covers the costs incurred testing and calibrating meters as well as parts needed to maintain meters in good working condition.

### **448.532 PRV – PENN HILLS**

**DISTRIBUTION SYSTEM EXPENSES**

This line item covers the cost in maintaining the pressure reducing valve located at Penn Hills.

**448.534      PRV – INDEPENDENCE PLACE**

This line item covers the cost in maintaining the pressure reducing valve located at Independence Place.

**448.536      PRV – OAK HALL**

This line item covers the cost in maintaining the pressure reducing valve located at Baldwin Street for the Oak Hall system.

**448.537      PRV - ROCKVIEW NORTH**

This line item covers the cost in maintaining the pressure reducing valve located at Rockview North.

**448.538      PRV - ROCKVIEW SOUTH**

This line item covers the cost in maintaining the pressure reducing valve located at Rockview South.

**448.539      PRV - BELLEFONTE INTERCONNECT**

This line item covers the cost in maintaining the pressure reducing valve located at Bellefonte Interconnect.

**448.541      PRV – NITTANY COMMONS**

DISTRIBUTION SYSTEM EXPENSES

This line item covers the cost in maintaining the pressure reducing valve located at Nittany Commons.

**GENERAL – DISTRIBUTION SYSTEM**

**448.181 CONTRACT LABOR – COLLEGE TOWNSHIP PERSONNEL**

This line item covers the labor charges incurred when College Township personnel are needed for various projects or to assist with system maintenance.

Projects	\$18,020
General Labor	<u>\$12,000</u>
	<u>\$30,020</u>

**448.540 CONTRACT LABOR – TECHNICIANS**

This line item covers the cost of labor charges, including scheduled overtime, for four full-time service technicians.

Projects	\$27,030
General Labor	<u>\$144,000</u>
	<u>\$171,030</u>

**448.556 LEAK DETECTION SERVICES**

This line item covers the costs incurred in employing an independent company to identify leaks in the water system.

**448.575 R-O-W, REGULATORY COMPLIANCE**

## DISTRIBUTION SYSTEM EXPENSES

This line item covers the cost of acquiring right of ways, producing the annual consumer confidence report, various permits required by state and federal regulatory bodies, fees associated with DEP, and CDL license expenses.

### **448.648 PA ONE CALL SERVICE**

This line item covers the monthly per fax charge for identifying underground facilities.

### **448.760 SMALL TOOLS AND MINOR EQUIPMENT**

This line item covers the cost of acquiring and maintaining small tools used in every day operation.

### **448.761 REPAIRS AND MAINTENANCE – WATER EQUIPMENT**

This line item covers the cost of maintaining specialized water system equipment such as the SCADA System and Chlorine Analyzers. For 2015, the following costs are as follows:

#### **Hach Company Service Agreement - \$3,930**

This agreement would provide four on-site preventive maintenance visits per year, once each quarter, to service the chlorine analyzers and the turbidimeters at the Spring Creek Park Station and Rogers Well in 2015. Each visit includes cleaning, calibration and the replacement of any necessary parts to keep the units functioning properly and in compliance with all DEP regulations. Any emergency visits required in between regular scheduled maintenance visits to service or repair the units would also be included in this agreement.

**DISTRIBUTION SYSTEM EXPENSES**

**Tri-Star – SCADA Maintenance Agreement - \$6,700**

This agreement will provide two working days/trips per year as requested by a Tri-Star technician to verify proper operation of all SCADA controls, instruments and related equipment including annual calibration of equipment to ensure accurate measuring and transmitting of data. This agreement does not provide for any miscellaneous repair of equipment or replacement parts if needed. \$4,000 has been included for repairs and parts.

**Tri-Star Agreement \$2,700**

**Repairs/Parts \$4,000**

**\$6,700**

**Severn Trent Service and Maintenance Plan - \$2,820**

This service and maintenance plan provides one visit per calendar year for a Severn Trent representative to perform preventative maintenance, calibration and repair if necessary of the gas chlorination system cylinder mounted chlorine vacuum regulators, vacuum switchover modules, remote meter panels, secondary check valves and ejector check valves. This service and maintenance plan does not provide for any miscellaneous repair of equipment or replacement parts if needed. \$750 has been included for repairs and parts.

**Severn Trent Service and Maintenance Plan \$ 660**

**Repairs/Parts \$ 2,200**

**\$ 2,820**

**448.762 SAFETY EQUIPMENT**

## DISTRIBUTION SYSTEM EXPENSES

In 2004, College Township formed a safety committee.

The purpose of the College Township Safety Committee is to bring workers and management together in a non-adversarial, cooperative effort to detect hazards, correct workplace hazards and increase safety awareness in the workplace. \$500 is budgeted for items identified by the committee during 2015 that will serve to increase safety in the work place.

TAB 5

**GENERAL EXPENSES**

	2006 AUDITED	2007 AUDITED	2008 AUDITED	2009 AUDITED	2010 AUDITED	2011 AUDITED	2012 AUDITED	2013 AUDITED	2014		2015
									BUDGET	EXPECTED	PROPOSED
<b>OFFICE</b>											
448.600 Contract Labor - Billing and Cust Serv	38,280	40,478	37,054	31,058	45,232	47,037	54,269	58,115	60,000	56,000	57,000
448.605 Contract Labor - College Twp Personnel	6,208	7,721	8,508	10,038	11,272	11,942	12,809	12,856	12,900	13,400	13,400
448.610 Contract Labor - Meter Reading	3,877	5,782	10,997	12,930	10,841	9,444	6,836	7,880	10,750	10,000	11,000
448.612 Professional Employment Services	0	0	1,468	11,742	386	0	0	0	0	0	0
448.620 Office and Other Supplies	3,084	1,939	2,301	4,681	1,895	2,303	2,661	1,949	2,000	2,250	2,000
448.621 Computer and Software Maintenance	2,497	6,100	4,384	4,564	6,347	6,818	5,271	4,493	6,000	5,000	6,000
448.625 Postage and Freight Charges	5,100	4,531	4,403	4,100	4,510	4,351	4,963	5,277	6,500	5,500	5,750
448.641 Advertising	584	3,254	1,004	653	647	1,836	212	1,263	1,000	500	750
448.643 Internet and Email	1,157	1,362	1,535	1,714	1,737	1,727	1,674	2,094	2,200	2,200	2,200
448.645 Telephone	2,127	2,208	1,862	1,630	1,712	1,794	2,450	2,052	2,200	2,200	2,200
448.647 Cellular Phone	763	420	548	487	560	985	633	712	1,000	1,000	1,000
448.655 Uncollectible Accounts	(496)	1,251	1,806	-1,286	285	-651	5,660	4,161	0	0	0
<b>Subtotal</b>	<b>63,181</b>	<b>75,046</b>	<b>75,870</b>	<b>82,311</b>	<b>85,424</b>	<b>87,586</b>	<b>97,438</b>	<b>100,852</b>	<b>104,550</b>	<b>98,050</b>	<b>101,300</b>
<b>GENERAL PROPERTY</b>											
448.702 Vehicle Repairs and Maintenance	4,721	8,119	7,496	2,626	2,549	3,485	3,110	4,315	4,000	4,000	4,000
448.731 Vehicle Fuels: Gas, Diesel, Oil, Etc	4,062	4,251	5,741	3,082	4,526	7,322	9,022	10,170	10,000	10,800	10,000
448.735 Repairs of Tools and Machinery	345	309	117	15	617	387	563	991	800	800	800
448.740 Materials and Supplies	1,267	2,322	2,064	2,606	1,845	1,748	2,219	7,226	3,100	3,200	3,100
448.765 Radio/Paging Equipment and Maint	221	237	4,024	180	150	384	0	0	0	0	0
448.770 Rental of Equipment	4,887	11,712	1,523	3,351	6,052	7,356	910	1,275	2,000	7,300	5,000
<b>Subtotal</b>	<b>15,503</b>	<b>26,950</b>	<b>20,965</b>	<b>11,860</b>	<b>15,739</b>	<b>20,682</b>	<b>15,824</b>	<b>23,977</b>	<b>19,900</b>	<b>26,100</b>	<b>22,900</b>
<b>ENGINEERING AND PROFESSIONAL</b>											
448.810 Engineering - Consulting	34,054	21,656	19,795	29,243	32,083	40,602	40,333	24,285	35,000	30,000	35,000
448.818 Engineering - Inspection	0	2,523	0	0	0	0	0	0	0	0	0
448.840 Accounting and Audit	11,765	15,060	12,868	18,059	14,640	12,475	14,684	14,810	14,500	17,500	15,000
448.845 Legal	495	1,210	647	5,556	4,795	8,470	7,516	12,669	9,000	8,500	9,000
448.850 Professional - Other	0	1,600	1,600	1,600	800	0	1,200	1,200	1,200	1,216	1,200
<b>Subtotal</b>	<b>46,314</b>	<b>42,049</b>	<b>34,910</b>	<b>54,458</b>	<b>52,318</b>	<b>61,547</b>	<b>63,733</b>	<b>52,964</b>	<b>59,700</b>	<b>57,216</b>	<b>60,200</b>

**GENERAL EXPENSES**

	2006	2007	2008	2009	2010	2011	2012	2013	2014		2015
	AUDITED	BUDGET	EXPECTED	PROPOSED							
<b>TAXES, BENEFITS, AND INSURANCE</b>											
448.615 Training - Distribution and Office	229	798	240	58	300	488	0	1,377	1,500	1,465	1,500
448.618 Conventions	1,335	1,373	1,145	980	1,050	1,020	1,020	0	1,050	0	1,050
448.738 Clothing and Uniforms	2,079	2,364	1,413	1,977	2,080	2,614	2,263	2,973	3,000	2,600	3,000
448.802 Dues, Subscriptions, and Memberships	2,151	2,215	2,401	2,460	2,171	2,202	2,260	2,487	2,500	2,493	2,625
448.855 Insurance Policies	21,228	12,518	14,990	19,644	25,265	22,063	25,384	32,294	33,000	33,000	33,000
448.858 Workers' Compensation Insurance	10,384	11,738	0	6,627	8,718	8,790	7,259	10,151	14,000	14,000	14,000
448.860 Pension Expense	10,487	11,347	8,102	11,572	11,931	14,305	15,351	15,737	16,400	16,400	16,800
448.865 Bond	0	0	0	0	0	152	0	0	175	152	175
448.870 Medical / Dental Insurance	37,615	36,265	44,438	52,186	60,094	79,108	78,083	87,833	99,860	99,860	109,580
448.871 Health Insurance Opt-Out Program	0	0	0	0	0	0	3,209	3,326	3,800	3,800	4,200
448.875 Group Term Life/Disability Insurance	3,244	2,858	3,867	3,399	3,866	3,552	4,127	4,036	3,175	3,100	3,225
448.880 Payroll Taxes - FICA	13,002	12,741	13,820	13,459	14,880	15,148	20,041	19,427	16,750	18,500	17,475
448.881 Unemployment Compensation Insurance	1,129	549	638	1,960	1,080	1,181	647	2,943	4,600	4,292	3,465
<b>Subtotal</b>	<b>102,883</b>	<b>94,766</b>	<b>91,054</b>	<b>114,322</b>	<b>131,435</b>	<b>150,623</b>	<b>159,644</b>	<b>182,584</b>	<b>199,810</b>	<b>199,662</b>	<b>210,095</b>
<b>MISCELLANEOUS</b>											
448.885 Operational and Management Agreement	67,057	69,396	72,072	74,820	74,820	77,160	78,960	81,540	83,556	83,556	85,872
480.470 Miscellaneous	660	592	225	239	32	133	2	6	500	500	500
481.460 Board, Staff, and Professional Meetings	69	31	0	0	107	0	0	0	200	200	200
<b>Subtotal</b>	<b>67,786</b>	<b>70,019</b>	<b>72,297</b>	<b>75,059</b>	<b>74,959</b>	<b>77,293</b>	<b>78,962</b>	<b>81,546</b>	<b>84,256</b>	<b>84,256</b>	<b>86,572</b>
<b>TOTAL GENERAL EXPENSE</b>	<b>295,667</b>	<b>308,830</b>	<b>295,096</b>	<b>338,010</b>	<b>359,875</b>	<b>397,731</b>	<b>415,601</b>	<b>441,923</b>	<b>468,216</b>	<b>465,284</b>	<b>481,067</b>

GENERAL EXPENSES

**OFFICE**

**448.600 CONTRACT LABOR – BILLING AND CUSTOMER SERVICE**

In accordance with section 5.7 of the management agreement, the Authority reimburses the Township for all non-exempt Township employees' time associated with obligations of the Authority. This account covers the cost of the Customer Service Specialist and approximately 85% of the Finance Office Assistant's wages. In prior years, prior to reassignment of EIT collection to the Centre Tax Agency, a larger percentage of the Finance Office Assistant's wages were allocated to the tax department.

**448.605 CONTRACT LABOR – COLLEGE TOWNSHIP PERSONNEL**

This line item covers time spent by non-exempt personnel in the performance of duties other than billing and customer service. Such duties include payables, budget preparation support, special project accounting, and scheduled overtime incurred for attendance at Authority meetings by the recording secretary.

**448.610 CONTRACT LABOR – METER READER**

This line item covers the wages incurred for the part-time meter reader (non-exempt) which requires approximately 215 hours per quarter. In addition to reading meters, this position performs other maintenance functions such as mowing, trimming, weeding, and painting. Also covered by this account is the cost of reimbursing the meter reader for using a personal vehicle for Authority business.

**448.612 PROFESSIONAL EMPLOYMENT SERVICES**

The Authority reimburses the Township for the cost of temporary employee services that are needed from time to time.

## GENERAL EXPENSES

### **448.620 OFFICE AND OTHER SUPPLIES**

This line item covers the cost of routine office, computer, and other miscellaneous supplies used in the day-to-day operations.

### **448.621 COMPUTER AND SOFTWARE MAINTENANCE**

This line item covers the cost of hardware maintenance, network software maintenance, 50% of the notification software, and the maintenance contract on the billing software package.

### **448.625 POSTAGE AND SHIPPING CHARGES**

This line item covers the cost of postage, mailing services, and shipping charges.

### **448.641 ADVERTISING**

This line item covers the cost incurred for advertising meetings, notifications, and employment opportunities.

### **448.643 INTERNET AND EMAIL**

#### **Internet:**

The Borough of State College, CATA, Centre Region COG, and the townships entered into an Inter-municipal agreement in 2012 for the operation and maintenance of a Local Area Network/Wide Area Network joint

## GENERAL EXPENSES

network structure. The annual cost to the township to benefit from this arrangement is approximately \$14,100 of which \$1,560 is borne by the CTWA and \$3,120 by the tax department. The township approved a policy in 2002 governing the use of the internet and email by employees.

Also, the Authority reimburses 2 employees for the cost of cable modems installed in their homes. The cable modem provides a reliable means for accessing the Authority's SCADA system when required, and serves to reduce the overtime that would otherwise be incurred.

**Email:**

Pursuant to a memorandum of understanding executed in 2012, the Borough of State College provides email services to the township via the Borough's private cloud. The cost of licenses for this arrangement is expected to be \$1,080 annually, of which \$108 is borne by CTWA. The agreement expires in 2017.

**448.645 TELEPHONE**

This line item covers the cost of monthly local/long distance service and required modem lines.

**448.647 CELLULAR PHONE**

This line item covers the cost of a cellular phone used by the Manager and a Water Technician. Personal use is reimbursed via payroll deductions.

**448.655 UNCOLLECTIBLE ACCOUNTS**

This line item covers the cost of employing an outside collection firm in collecting delinquent accounts.

## GENERAL EXPENSES

### GENERAL PROPERTY

#### **448.702      VEHICLE REPAIRS AND MAINTENANCE**

This line item covers 100% of the cost of repairing and maintaining licensed vehicles and off road equipment such as the excavator, owned by the Authority. Where title is shared with the Township, upkeep costs are shared equally.

#### **448.731      VEHICLE FUELS: GAS, DIESEL, OIL, ETC.**

This line item covers the cost of fuel and other consumable items in the operation of Authority owned vehicles and equipment. Where title is shared with the Township, these costs are shared equally.

#### **448.735      REPAIRS OF TOOLS AND MACHINERY**

This account captures the costs of repairing machinery and tools owned by the Authority.

#### **448.740      MATERIALS AND SUPPLIES**

This line item covers materials and supplies not accounted for anywhere else.

#### **448.765      RADIO AND PAGING EQUIPMENT AND MAINTENANCE**

GENERAL EXPENSES

The Authority utilizes the Township's radio trunking system which is provided at no charge through the County. Each service vehicle and the backhoe have a radio. This account is used to record the cost associated with this communication equipment.

**448.770 RENTAL OF EQUIPMENT**

This line item covers the cost of equipment rental in emergency type situations including items such as generators rented from outside vendors. Equipment rented from the Township is based on an equipment rental rate schedule.

**ENGINEERING AND PROFESSIONAL**

**448.810 ENGINEERING - CONSULTING**

This line item covers the charges from the consulting engineer for routine engineering services such as meeting attendance, completion of the annual loss water report, completion of the annual water system report for the Trustee, SRBC Quality Withdrawal report, etc. Charges related to projects such as design and construction management are added to the cost of these projects.

This budget includes the following:

Charges to projects	\$ 4,000
Routine engineering (448.810)	<u>\$35,000</u>
	<b><u>\$39,000</u></b>

GENERAL EXPENSES

**448.840      ACCOUNTING AND AUDIT**

Outside auditor services in auditing the Authority's 2014 financial statements and preparing the 2014 Annual Report of Municipal Authorities is expected to cost \$12,500. An estimate of \$2,500 is included for professional consultation on other financial issues.

**448.845      LEGAL**

This budget item covers the cost for the Authority's solicitor plus other legal services that are requested during the year.

**448.850      PROFESSIONAL - OTHER**

This line item covers the annual trustee's fee of \$1,200 for administering the 2010 Trust.

**TAXES, BENEFITS, AND INSURANCE**

**448.615      TRAINING – DISTRIBUTION AND OFFICE**

This line item covers the training costs of providing services or personnel certified with the appropriate class and type of certification under the Sewage Treatment Plant and Waterworks Operators Certification Act of 1968. Also, the manager authorizes non-exempt staff members' attendance at courses and seminars that will enhance their job performance. This line item is used for this purpose, as well as training for Authority board members.

## GENERAL EXPENSES

### **448.618 CONVENTIONS**

This line item covers the cost of attending the annual PRWA conference and the cost of the appointed officials and/or the manager attending the annual PMAA Conference and other selected seminars.

### **448.738 CLOTHING AND UNIFORMS**

This account covers the following for the Authority's technicians: 1) renting and laundering uniforms, 2) \$300 bi-annual boot allowance, 3) winter jacket replacement allowance, 4) insignia shirts for field identification and 5) \$350 bi-annual safety glasses allowance.

### **448.802 DUES, SUBSCRIPTIONS, AND MEMBERSHIPS**

This line item covers membership in the Pennsylvania Municipal Authorities Association, the Pennsylvania Rural Water Association, and the American Water Association. In addition, \$100 is budgeted for reference sources and miscellaneous subscriptions.

### **448.855 INSURANCE POLICIES**

Pursuant to the Trust Indenture dated December 1, 2010, the Authority maintains public liability, property damage, and workers' compensation insurance satisfactory to the Trustee. This account covers the cost of all insurance, including the Authority's share of the public official's liability insurance, other than the premiums for workers' compensation insurance which is recorded in account #448.858.

### **448.858 WORKERS' COMPENSATION INSURANCE**

## GENERAL EXPENSES

In accordance with section 6.3 of the management agreement, the Township maintains adequate workers' compensation coverage for their employees assigned to performing the obligations of the Township. This account records the annual invoice to the Authority for their portion of the premium.

### **448.860 PENSION EXPENSE**

This line item covers the Authority's share of the cost of providing a pension for the Township employees.

### **448.865 BOND**

This represents the cost of bonding those individuals charged with the responsibility of handling funds relating to the Water System.

### **448.870 MEDICAL/ DENTAL/VISION INSURANCE**

#### **Vision:**

This line item covers the Authority's share of the cost of providing a vision plan for township employees. Any incremental cost of adding family members will be the sole responsibility of the employee.

#### **Health/Dental:**

This line item covers the Authority's share of the cost of providing health and dental insurance coverage for the township employees. The monthly premiums for 2011 - 2015 prior to employee contributions are as follows:

GENERAL EXPENSES

	Health		Dental	
	<u>Single</u>	<u>Family</u>	<u>Single</u>	<u>Family</u>
2015	924.36	2,104.44	25.65	82.51
2014	835.74	1,892.72	32.39	100.66
2013	733.50	1,647.81	32.39	100.66
2012	707.30	1,587.36	32.39	100.66
2011	655.69	1,466.99	32.39	100.66

The township deducts a portion of the cost of the premium from the employee's paycheck.

**448.871 HEALTH INSURANCE OPT-OUT PROGRAM**

Starting in 2012, employees who choose to opt-out of the Township's health insurance will receive 20% of the Township's cost to cover the employee who has single coverage, or employee and family if they have family coverage. This will only apply to health insurance, and not to dental or vision coverage. Also, the additional payment to employee will not be included in their regular salary for pension purposes.

**448.875 GROUP TERM LIFE/DISABILITY INSURANCE**

This line item covers the Authority's share of the cost of providing life, accident, both short-term and long-term disability insurance for the Township's regular, full-time employees.

## GENERAL EXPENSES

During 2013, the Township was able to provide improved coverage for a lower premium by contracting with a new carrier.

### **448.880 PAYROLL TAXES – FICA**

This item covers the Authority's share of the social security and Medicare taxes on employee wages. The 2015 social security rate is .062 of gross earnings up to \$118,500 per employee. The 2015 Medicare rate is .0145 of gross earnings (no limit). Beginning 1/1/2013, additional Medicare tax went into effect, but due to high income thresholds, this additional tax is not expected to impact College Township employees

### **448.881 UNEMPLOYMENT COMPENSATION INSURANCE**

This covers the Authority's share of unemployment insurance, which is calculated to be 5.50% of an employee's first \$9,000 of earnings.

## **MISCELLANEOUS**

### **448.885 OPERATIONAL AND MANAGEMENT AGREEMENT**

College Township provides operation and management of the water system to the Authority pursuant to an AGREEMENT FOR MANAGEMENT SERVICES dated September 23, 1998. In accordance with section 5.8.1 of that agreement, the reimbursement rate has been reviewed and will be \$7,156 per month.

### **480.470 MISCELLANEOUS**

GENERAL EXPENSES

This line item includes \$500 for the cost of other miscellaneous or one-time expenses that cannot be directly allocated to another budget item

**481.460 BOARD, STAFF AND PROFESSIONAL MEETINGS**

This item covers the cost of lunch for working luncheon meetings.

**TAB 6**

NON-OPERATING INCOME (EXPENSE)

	2006	2007	2008	2009	2010	2011	2012	2013	2014		2015
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
<b>NON-OPERATING INCOME (EXPENSE)</b>											
341.000 Investment Income	62,760	59,300	40,943	24,420	6,027	4,824	949	7,383	7,800	8,700	6,100
341.050 Investment Income - SCI Rockview	19,673	13,308	6,717	803	0	0	0	0	0	0	0
<b>NET NON-OPERATING INCOME (EXP)</b>	<b>82,433</b>	<b>72,608</b>	<b>47,660</b>	<b>25,223</b>	<b>6,027</b>	<b>4,824</b>	<b>949</b>	<b>7,383</b>	<b>7,800</b>	<b>8,700</b>	<b>6,100</b>

NON-OPERATING INCOME

**341.000**      **INVESTMENT INCOME**

This category accounts for the revenue generated from the investment of Authority funds.

**TAB 7**

COLLEGE TOWNSHIP WATER AUTHORITY  
 AVAILABLE FUNDING FOR PROJECT ID CAPITAL ASSET PURCHASES IN 2015

	<i>Available Funds</i>		
	<u>TOTAL</u>	<u>From Operations</u>	<u>In the BRIF</u>
Funds Available for Planned Construction Projects and Capital Asset Purchases	<b>\$299,485</b>	\$124,485	(1) \$175,000 (2)
Less: Planned Construction Projects and Capital Assets	<b>-\$175,765</b>	-\$82,150	(3) -\$93,615 (3)
Expected Balance Remaining for Contingencies and Reserve	<b><u>\$123,720</u></b>	<u>\$42,335</u>	<u>\$81,385</u>

(1) - Amount Available for Capital and Contingencies from the Operating Budget Summary Page

(2) - On 12/20/14, The trustee will transfer to the Bond Redemption and Improvement Fund (BRIF) any money remaining in the Revenue after payment of bills and debt service (i.e. NET PROFIT). This amount plus funds remaining after payment of all BRIF requisitions approved in 2014 is the amount available at 1/1/15

(3) - See the next page for the detailed schedule of planned projects and

College Town Water Authority  
 PLANNED CONSTRUCTION PROJECTS AND CAPITAL ASSET PURCHASES FOR 2015

	2015 FUNDING			GL A/C	Project #
	2015 Operations	Bond Redemp & Improve Fund ( 1 )	Total		
<u>Water System Upgrade Projects</u>					
Oak Hall (Not the Park)	\$ -	\$ 24,810	\$ 24,810	165.000	165-91
Limerock Terrace Phase II	\$ -	\$ 53,775	\$ 53,775	165.000	165-92
Grandview Road	\$ -	\$ 15,030	\$ 15,030	165.000	165-95
Mt Nittany Medical Center Water Line - Feasibility / Construction	\$ -	\$ -	\$ -	165.000	165-90
<u>Water System Maintenance/Repairs</u>					
Rogers Well Packer Testing	\$ 15,000	\$ -	\$ 15,000	162.005	
Spring Creek Park Well Replace Drop Pipe	\$ 11,500	\$ -	\$ 11,500	162.005	
Flow Meter Certification	\$ 1,950	\$ -	\$ 1,950	162.005	
Chlorine Injection System - Spring Creek Park Well	\$ 5,000	\$ -	\$ 5,000	165.000	165-89
<u>Capital Asset Purchases</u>					
Cross Connection Control/Backflow Prevention Program (90 meters)	\$ 14,000	\$ -	\$ 14,000	162.005	
Purchase 30 Residential Meters @ \$155 each	\$ 5,000	\$ -	\$ 5,000	162.005	
Replace 2001 Ford F350 Utility Body	\$ 25,500	\$ -	\$ 25,500	162.005	
Replace Computer Equipment	\$ 4,200	\$ -	\$ 4,200	162.005	
TOTALS	<u>\$ 82,150</u>	<u>\$ 93,615</u>	<u>\$ 175,765</u>		

Estimated Costs for Future Projects & Equipment (Prioritized in order)

Puddintown Road	\$ 63,305
Limerock Terrace Upgrade Phase III	\$ 50,000
Berry Street	\$ 40,000
Rainlo Street, Oakwood Drive and Norle Street	\$ 20,000
Merryhill Road	\$ 54,000
Clyde Avenue	\$ 55,275
Single Axle Dump Truck	\$ 40,000
Emergency Power Supply Generator	\$ 150,000
OH-20 Development	\$ 1,500,000
OH-20 Distribution Upgrades	\$ 500,000
	<u>\$ 2,472,580</u>

NOTE:

(1) Projected balance in BR&IF at 1/1/2015 - \$175,000

**2015 FUNDING - PLANNED CONSTRUCTION PROJECTS AND CAPITAL ASSET PURCHASES**

PROJECT NAME	CLASS	CONTRACTED WORK	EQUIPMENT RENTAL	MATERIALS	CT LABOR COST	CTWA LABOR COST	ENGINEERING (ENTECH) COST	TOTAL COST	ACCOUNT NUMBER
Oak Hall	Water System Upgrade Projects	19,050	1,000	2,210	1,020	1,530	-	24,810	165.000
Limerock Terrace Phase II	Water System Upgrade Projects	-	15,100	25,925	5,100	7,650	-	53,775	165.000
Grandview Road	Water System Upgrade Projects	-	5,325	5,455	1,700	2,550	-	15,030	165.000
Rogers Well Packer Testing	Water System Maintenance/Repairs	15,000	-	-	-	-	-	15,000	162.005
Spring Creek Park Well Replace Drop Pipe	Water System Maintenance/Repairs	11,500	-	-	-	-	-	11,500	162.005
Flow Meter Certification	Water System Maintenance/Repairs	1,950	-	-	-	-	-	1,950	162.005
Chionne Injection System - Spring Creek Park Well	Water System Maintenance/Repairs	5,000	-	-	-	-	-	5,000	165.000
Cross Connection Control/Backflow Prevention Program	Capital Asset Purchases	-	-	14,000	-	-	-	14,000	162.005
Purchase Residential Meters @ \$155 each	Capital Asset Purchases	-	-	5,000	-	-	-	5,000	162.005
Replace 2001 Ford F350 Utility Body	Capital Asset Purchases	-	-	25,500	-	-	-	5,000	162.005
Replace Computer Equipment	Capital Asset Purchases	-	-	4,200	-	-	-	25,500	162.005
<b>TOTALS</b>		<b>52,500</b>	<b>21,425</b>	<b>82,290</b>	<b>7,820</b>	<b>11,730</b>	<b>-</b>	<b>176,565</b>	

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

**2015 WATER SYSTEM UPGRADE PROJECTS**

**OAK HALL – \$24,810**

Install approximately 250 LF of 2" CTS pipe connected to the existing 3" PVC line in the former railroad bed to the existing 1" PVC line that runs to and crosses Boalsburg Road.

The new 2" CTS pipe will be installed in a 3" PVC casing by directional drilling.

With the installation of this new 2" pipe, approximately 400 LF of 2" steel line and approximately 150 LF of 1" PVC line will be abandoned in place.

**LIMEROCK TERRACE PHASE II - \$53,775**

The connection to the low pressure zone from the Pep Boys PRV is currently served by a 4" AC main line.

During 2013, 540 LF of 8 inch ductile iron main line was installed from the Limerock Court Subdivision to the Rhodes Lane intersection along Limerock Terrace. To increase fire protection flow to the low pressure zone from the Pep Boys vault, it is proposed to continue construction of the Limerock Terrace 8" main line.

Phase II of this project will be to construct approximately 380 LF of 8" ductile iron pipe from the Pike Street intersection to replace the existing 6" section of main line that connects to the back lot 4" line. There will be one new fire hydrant installed at the end of this new section of 8" line. Phase III of this project will be the future construction of approximately 465 LF of 8" line to complete this project on Limerock Terrace.

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

**GRANDVIEW ROAD - \$15,030**

Replace approximately 250 LF of 2" steel line with 2" CTS plastic pipe from the end of 4" AC main near the fire hydrant to the end of Grandview Road. Install four new service line connections.

**2015 WATER SYSTEM MAINTENANCE/REPAIRS**

**ROGERS WELL PACKER TESTING - \$15,000**

During very heavy rain events there is a sudden rise in turbidity in the Rogers Well. During these events, we need to drastically reduce pumping capacity or most times completely shut down the station.

Eichelbergers, Inc. will be contracted to perform the packer testing. A packer will be installed in the well to seal off selected upper level water bearing zones to determine where the turbidity is entering the well. The packer placement would be moved up or down until the water bearing zone with the turbidity is found.

Once the water bearing zone with the turbidity is found, it will be proposed for 2016 to install casing to the depth necessary to permanently seal off this water bearing zone. It is unknown at this time how much the yield of the well will be reduced with the installation of the casing, but with eliminating the rise in turbidity in the well, the station could continue operation during heavy rain events.

## CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

### **SPRING CREEK PARK WELL – REPLACE WELL PUMP DROP PIPE - \$11,500**

During replacement of the well pump in 2010, it was found that the steel drop pipe for the well was deteriorating. Numerous areas of the pipe are pitted that could lead to rust through of the pipe. Some of this pipe was replaced with the new well pump. The remaining 84 feet of pipe would be replaced with schedule 40 galvanized pipe.

### **FLOW METER CERTIFICATION - \$1,950**

Contract Lawco, Inc. for UltraSonic Flow Meter Certification for the following pump stations and Rockview Interconnect flow meters to ensure accurate meter readings: Lemont Booster Station - 8" meter, Rogers Well raw and finished water - 12" meters, Spring Creek Park Well raw and finished water - 12" meters, Rockview Interconnect - 4" meter.

These meters were last certified in August 2011.

### **CHLORINE INJECTION SYSTEM – SPRING CREEK PARK WELL - \$5,000**

The SCADA controls and Variable Frequency drives at the stations are now programmed to operate the well and high service pumps based on reservoir level or by system pressure if the reservoir is out of service.

The chlorine flow is currently controlled by a manually operated roto meter based on gallon per minute flow rate from the well.

To operate the station on system pressure, an automatic gas control valve must be installed to automatically adjust the proper amount of chlorine injected based on the gallon per minute flow from the well. The well pump Variable Frequency Drive and High Service Frequency Drive speed will fluctuate to maintain a set system pressure. The automatic gas control valve was purchased in 2013. This cost includes installation of the valve and SCAD programming modifications.

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

**2015 CAPITAL ASSET PURCHASES**

**CROSS CONNECTION CONTROL/BACKFLOW PREVENTION PROGRAM - \$14,000**

This new program was started in 2009 to inspect customer interior water service connections for compliance with CTWA Rules and Regulations for the proper installation of backflow prevention devices and overall correct meter set area plumbing. It is proposed that the inspections for 2015 will continue. An additional 90 residential meters @ \$155 will be purchased for the expected change out of old meters during the inspections.

**PURCHASE RESIDENTIAL METERS - \$5,000**

The upgrade and maintenance of customer water meters is essential in tracking the efficiency of the Water System and protecting the revenue of the Authority. The accuracy of the water meters needs to be monitored, and the meters themselves are periodically replaced and/or upgraded over time. The College Township Water Authority has had a meter replacement program in place since 1997. The capital purchase of 30 additional meters at \$155 each will allow the Authority to continue the replacement program of all residential meters.

**REPLACE 2001 FORD F350 UTILITY BODY TRUCK - \$25,500**

	\$27,000
Less Trade or Sale	<u>\$ 1,500</u>
	\$25,500

This truck is used on a daily basis by the water utility technicians for service calls and for maintenance, repairs and project work on the distribution system.

## CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

### **REPLACE COMPUTER EQUIPMENT - \$4,200**

Replacement of (1) laptop @ \$2,100, (1) PC @ \$1,800, and (1) printer @ \$300. The printer is used to print daily trending sheets for the Spring Creek Park Station, Rogers Well Station and Lemont Station. The trend sheets provide data on well level, reservoir and Struble Tank level, system pressure and pumping capacity. The PC and laptop were both acquired in 2005. The laptop is critical to operation of the SCADA System. The PC is used as a workstation by the technicians.

### **FUTURE PROJECTS**

#### **PUDDINTOWN ROAD - \$63,305**

Install approximately 800 LF of 8" ductile iron pipe from Meadow Lane to Spring Creek Lane to complete a main line loop in the distribution system to the Houserville Area. Connect five ¾" service lines and connect the 2" main line at Spring Creek Lane to the new 8" line.

#### **LIMEROCK TERRACE UPGRADE PHASE III - \$50,000**

Phase III of the Limerock Terrace project will be the construction of approximately 465 lineal feet of 8" ductile iron pipe to complete the 8" main line from Pike Street to Limerock Courts.

#### **BERRY STREET - \$40,000**

Replace the existing 4" main line from Dale Street to Mt. Nittany Road with 8" ductile iron main line.

## CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

### **RAINLO STREET, OAKWOOD DRIVE AND NORLE STREET - \$20,000**

Install new service lines from existing main lines along these streets to properties currently connected to back-lot 1" and 2" steel lines. This change in location of the service line to the properties will require plumbing modifications inside each residence. After all properties are connected to the larger main lines along the streets, the 1" and 2" line would be abandoned in place.

### **MERRYHILL ROAD - \$54,000**

Replace approximately 530 lineal feet of the existing 2 inch steel line with 8 inch ductile iron main line from the end of the existing 6 inch line to the end of the street at private property. Relocate the existing fire hydrant to approximately the middle of Merryhill Road. Install eight new service line connections.

### **CLYDE AVENUE - \$55,275**

Construct approximately 610 lineal feet of 8" ductile iron pipe from the fire hydrant at the Waskob Industrial Park to the existing fire hydrant on Clyde Avenue to complete a main line loop in the distribution system in this area. This connection will improve the fire flow capacity at both fire hydrants.

### **LATE MODEL USED SINGLE AXLE DUMP TRUCK - \$40,000**

This additional dump truck would be used for general hauling purposes during maintenance, repair and project work on the distribution system, hauling excavated spoil material and hauling various aggregate backfill materials. The purchase of this truck would reduce truck rental costs.

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

**EMERGENCY POWER SUPPLY GENERATOR - \$150,000**

Purchase a portable stand-by generator that could be used at Spring Creek Park, Rogers Well or Lemont Station.

**OH-20 DESIGN & CONSTRUCTION - \$1,500,000**

Develop a third water supply well for the CTWA system in the vicinity of the village of Oak Hall.

**OH-20 DISTRIBUTION UPGRADES - \$500,000**

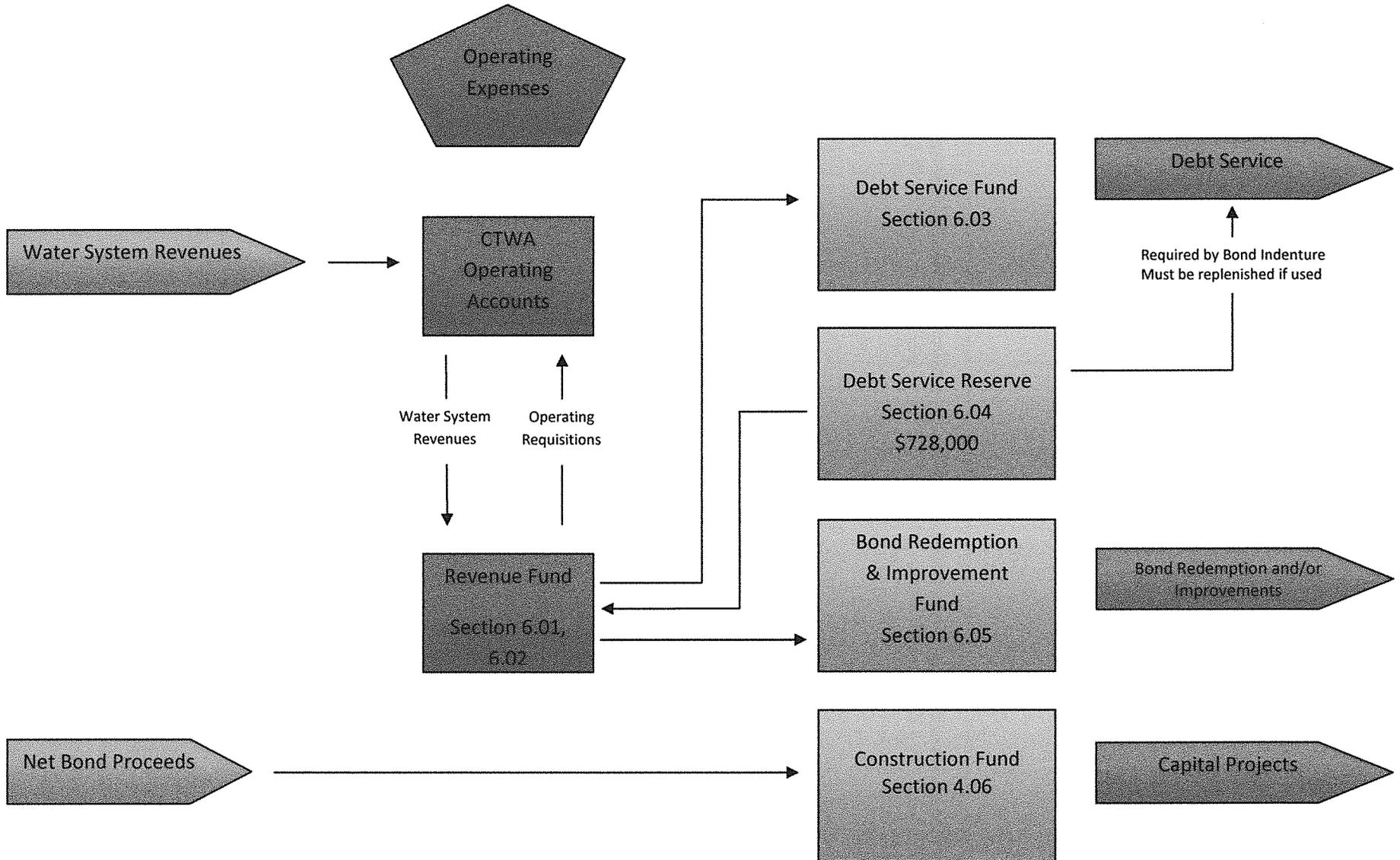
Upgrades to connect the OH-20 to the distribution system.

**TAB 8**

# Appendix

- Appendix 1: CTWA Flow of Funds Chart
- Appendix 2: Debt Service Schedule
- Appendix 3: Top 10 Users
- Appendix 4: Gallons Produced, Billed and Unaccounted
- Appendix 5: Water System Revenue and Rate History
- Appendix 6: Other Key Statistics (Customers, Gallons Per Day, Debt Coverage)
- Appendix 7: Equipment Replacement Schedule

# CTWA Flow of Funds (Trustee Account)



College Township Water Authority  
Water Revenue Bonds, Series of 2010

Total Issue 26 27 28 29 30 31 32 33 34

Date	Principal	Coupon	Yield	Price	Proceeds	Interest	Debt Service	Debt	Annual Debt Service
1/1/2011						26,356.04	26,356.04	26,356.04	
7/1/2011						158,136.25	158,136.25	158,136.25	
1/1/2012	410,000	1,000	1,000	1,000.000	410,000.00	158,136.25	568,136.25	726,272.50	
7/1/2012						156,086.25	156,086.25		
1/1/2013	415,000	2,000	1,150	1,01744	422,237.60	156,086.25	571,086.25	727,172.50	
7/1/2013						151,936.25	151,936.25		
1/1/2014	420,000	2,000	1,500	1,01500	426,300.00	151,936.25	571,936.25	723,872.50	
7/1/2014						147,736.25	147,736.25		
1/1/2015	430,000	3,000	1,750	1,04904	451,087.20	147,736.25	577,736.25	725,472.50	
7/1/2015						141,286.25	141,286.25		
1/1/2016	440,000	2,000	2,050	0,99759	438,939.60	141,286.25	581,286.25	722,572.50	
7/1/2016						136,886.25	136,886.25		
1/1/2017	450,000	2,350	2,400	0,99717	448,726.50	136,886.25	586,886.25	723,772.50	
7/1/2017						131,598.75	131,598.75		
1/1/2018	460,000	2,600	2,650	0,99677	458,514.20	131,598.75	591,598.75	723,197.50	
7/1/2018						125,618.75	125,618.75		
1/1/2019	475,000	2,900	2,950	0,99641	473,294.75	125,618.75	600,618.75	726,237.50	
7/1/2019						118,731.25	118,731.25		
1/1/2020	485,000	3,100	3,150	0,99606	483,089.10	118,731.25	603,731.25	722,462.50	
7/1/2020						111,213.75	111,213.75		
1/1/2021	505,000	3,300	3,350	0,99573	502,843.65	111,213.75	616,213.75	727,427.50	
7/1/2021						102,881.25	102,881.25		
1/1/2022	520,000	3,400	3,450	0,99540	517,608.00	102,881.25	622,881.25	725,762.50	
7/1/2022						94,041.25	94,041.25		
1/1/2023	535,000	3,550	3,600	0,99511	532,383.85	94,041.25	629,041.25	723,082.50	
7/1/2023						84,545.00	84,545.00		
1/1/2024	555,000	3,650	3,700	0,99482	552,125.10	84,545.00	639,545.00	724,090.00	
7/1/2024						74,416.25	74,416.25		
1/1/2025	575,000	3,750	3,800	0,99456	571,872.00	74,416.25	649,416.25	723,832.50	
7/1/2025						63,635.00	63,635.00		
1/1/2026	600,000	3,800	3,850	0,99429	596,574.00	63,635.00	663,635.00	727,270.00	
7/1/2026						52,235.00	52,235.00		
1/1/2027	620,000	3,850	3,900	0,99404	616,304.80	52,235.00	672,235.00	724,470.00	
7/1/2027						40,300.00	40,300.00		
1/1/2028	645,000	4,000	4,050	0,99337	640,723.65	40,300.00	685,300.00	725,600.00	
7/1/2028						27,400.00	27,400.00		
1/1/2029	670,000	4,000	4,050	0,99337	665,557.90	27,400.00	697,400.00	724,800.00	
7/1/2029						14,000.00	14,000.00		
1/1/2030	700,000	4,000	4,050	0,99337	695,359.00	14,000.00	714,000.00	728,000.00	
7/1/2030						0.00	0.00		
Totals	9,910,000				9,903,540.90	3,891,723.54	13,801,723.54	13,801,723.54	
	9,910,000					3,891,723.54	13,801,723.54		

Bid Price	9,910,000.00
Bonds	9,910,000.00
OID	6,459.10
Discount	142,359.13
P. Price	9,761,181.77

Max Annual Debt Service 728,000.00  
10% of Proceeds 991,000.00  
125% of Average 906,274.18  
Minimum of Three 728,000.00

APPENDIX 2

College Town Water Authority  
 Top 10 Customers - Calendar Year 2013

Customer	Service Address	Billed Gallons	Usage	Fire Service	Gallons	Revenue	REVENUE
SCI Rockview	3651 E. Colleg Ave	14,706,000	\$ 136,500				\$ 136,500
Centre Concrete	2280 E. College Ave	8,634,000	\$ 52,667	\$ 1,349			\$ 54,016
Cintas	2700 Carolean Industrial Dr	203,000	\$ 1,199	\$ 2,698	10,750,000	\$ 59,555	\$ 63,452
Giant Food Stores	2222 E. College Ave	4,079,000	\$ 24,882	\$ 5,397			\$ 30,279
The Green Hotel	1221 E. College Ave	3,653,000	\$ 22,283	\$ 2,698			\$ 24,981
Hampton Inn	1101 E. College Ave	3,004,000	\$ 18,324	\$ 2,698			\$ 21,022
Channel Communications	2820 E. College Ave	2,810,000	\$ 17,141	\$ 5,397			\$ 22,538
Country Inn & Suites	1357 E. College Ave	2,012,000	\$ 12,273	\$ 2,698			\$ 14,971
Arris Solutions, Inc.	60 Decibel Rd	1,564,000	\$ 9,540	\$ 2,698			\$ 12,238
Wal-Mart Stores	373 Benner Pike	1,553,000	\$ 9,473	\$ 5,397			\$ 14,870

College Township Water Authority  
 Gallons Produced and Unaccounted

	Year Ended - December 31						
	<u>2006</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
Gallons Produced	349,602,560	445,776,000	329,704,000	317,489,000	321,335,000	292,489,000	293,615,000
Gallons Billed							
SCI-Rockview Penitentiary	50,000,000	135,247,000	50,000,000	50,000,000	50,000,000	50,000,000	50,000,000
UAJA-Beneficial Reuse	-	12,950,000	9,483,000	8,513,000	10,862,000	11,694,000	14,156,000
All Other	164,165,329	191,793,000	186,740,000	186,123,000	184,350,000	185,091,000	186,738,000
	214,165,329	339,990,000	246,223,000	244,636,000	245,212,000	246,785,000	250,894,000
Unaccounted Gallons *	23.30%	15.90%	26.70%	9.20%	8.30%	12.40%	Not Yet Avail

\* this figure which involves an extensive calculation by the Consulting Engineer and is not calculated until the end of the following year

College Township Water Authority  
Water System Revenue Rate History

	Year Ended - December 31						
	<u>2006</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
<b>WATER SYSTEM REVENUE</b>							
<b>Metered Water Sales</b>							
SCI-Rockview Penitentiary	87,444	235,330	103,272	125,000	128,500	131,708	136,125
UAJA-Beneficial Reuse	-	57,627	44,001	40,486	61,174	62,446	78,424
<b>All Other</b>							
Residential	601,415	638,160	632,052	717,258	712,142	708,433	751,799
Commercial	226,592	223,313	243,537	272,542	285,115	294,954	302,269
Industrial	143,198	92,555	71,793	71,189	75,610	71,705	72,095
Other Public	9,441	12,296	10,005	18,354	16,894	20,193	27,831
<b>Total metered</b>	<b>1,068,090</b>	<b>1,259,281</b>	<b>1,104,660</b>	<b>1,244,829</b>	<b>1,279,435</b>	<b>1,289,439</b>	<b>1,368,543</b>
<b>Other Water System Revenues</b>							
Fire Services	195,253	207,991	210,906	236,263	239,244	240,069	242,678
<b>Other</b>							
Penalties	10,180	11,416	14,115	13,812	13,699	14,506	16,497
Connection Fees	25,947	35,756	11,943	32,761	7,619	101,456	23,874
Capital Recovery (Rockview)	157,356	170,255	87,676	-	-	-	-
Other	5,437	9,160	7,864	7,776	23,041	2,734	20,766
<b>Total Other</b>	<b>394,173</b>	<b>434,578</b>	<b>332,504</b>	<b>290,612</b>	<b>283,603</b>	<b>358,765</b>	<b>303,815</b>
<b>TOTAL WATER SYSTEM REVENUE</b>	<b>1,462,263</b>	<b>1,693,859</b>	<b>1,437,164</b>	<b>1,535,441</b>	<b>1,563,038</b>	<b>1,648,204</b>	<b>1,672,358</b>

RATE HISTORY (Per Thousand Gallons)

Rockview	\$ 1.74	\$ 1.74	\$ 2.32	\$ 2.50	\$ 2.57	\$ 2.64	\$ 2.73
Bene Reuse	n/a	\$ 4.45	\$ 4.64	\$ 5.03	\$ 5.22	\$ 5.34	\$ 5.54
Regular	\$ 4.25	\$ 4.95	\$ 5.20	\$ 5.60	\$ 5.75	\$ 5.90	\$ 6.10

College Township Water Authority  
Other Statistics

	Year Ended - December 31						
	2006	2008	2009	2010	2011	2012	2013
<b>Other Key Statistics</b>							
<b>Connections Served</b>							
Domestic	2,352	2,378	2,361	2,370	2,355	2,380	2,406
Commercial	308	313	316	319	323	321	323
Industrial	17	18	18	17	17	16	16
Institutional	13	13	13	13	13	13	14
Bulk Sales to other PWS	1	1	2	2	2	2	3
Other	-	-	-	-	-	-	-
	2,691	2,723	2,710	2,721	2,710	2,732	2,762
<b>Metered Water Use (GPD)</b>							
Domestic	366,126	351,140	333,009	344,745	335,267	328,069	337,660
Commercial	137,956	123,262	128,312	130,989	134,230	136,591	135,760
Industrial	87,183	51,087	37,826	34,241	35,597	33,206	32,380
Institutional	5,748	6,787	5,271	8,784	7,954	9,351	12,500
Bulk Sales to other PWS	72,389	369,527	81,756	64,958	57,507	37,552	48,095
Unaccounted	288,420	316,164	317,368	286,116	309,815	254,381	238,027
Other	-	-	-	-	-	-	-
	957,822	1,217,967	903,542	869,833	880,370	799,150	804,422
<b>% of Population Served</b>	69.55%	69.73%	69.73%	62.47%	62.47%	62.47%	62.47%
<b>Debt Coverage Requirement</b>							
<b>Actual Expenses</b>							
Admin and Operating Expense	\$ 653,937	\$ 670,762	\$ 663,658	\$ 755,164	\$ 776,907	\$ 791,714	\$ 762,603
110% of Debt Service Require	612,052	791,503	795,312	552,828	798,900	799,890	796,260
	1,265,989	1,462,265	1,458,970	1,307,992	1,575,807	1,591,604	1,558,863
<b>Actual Revenue</b>	1,544,696	1,741,519	1,462,387	1,541,467	1,567,861	1,648,204	1,672,358
<b>Excess (Deficit) Coverage</b>	\$ 278,707	\$ 279,254	\$ 3,417	\$ 233,475	\$ (7,946)	\$ 56,600	\$ 113,495

Note: 2011 deficit was corrected with the 2012 budget which increased rates.

(1) Source: Annual Water Supply Report

(2) Source: Audit Reports

College Township Water Authority 2015 Budget  
Existing Equipment Replacement Fund Projection

PURCHASE YEAR	DISCRPTION OF EQUIPMENT	PURCHASE PRICE	EXPECTED LIFE	YEAR TO REPLACE	REPLACEMENT PRICE	ANNUAL REVENUE NEEDED
<b>MAINTENANCE VEHICLES:</b>						
2001	2001 FORD F350 UTILITY BODY #31	\$28,400	12	2013	\$27,000	\$2,250
2010	2011 FORD F350 UTILITY BODY #61	\$37,850	10	2020	\$40,000	\$4,000
2012	2012 CHEVY VAN #64	\$28,925	10	2022	\$32,000	\$3,200
	<b>TOTALS:</b>	<b>\$95,175</b>			<b>\$99,000</b>	<b>\$9,450</b>
<b>OFFICE AND STAFF VEHICLES:</b>						
	<b>TOTALS:</b>	<b>\$0</b>			<b>\$0</b>	<b>\$0</b>
<b>OFF ROAD EQUIPMENT:</b>						
2006	BOBCAT 331E TRACK EXCAVATOR	\$31,250	15	2021	\$38,000	\$2,533
2009	2008 CASE BACKHOE	\$78,650	15	2024	\$85,000	\$5,667
	<b>TOTALS:</b>	<b>\$109,900</b>			<b>\$123,000</b>	<b>\$8,200</b>

College Township Water Authority 2015 Budget  
Existing Equipment Replacement Fund Projection

PURCHASE YEAR	DESCRIPTION OF EQUIPMENT	PURCHASE PRICE	EXPECTED LIFE	YEAR TO REPLACE	REPLACEMENT PRICE	ANNUAL REVENUE NEEDED
<b>TOOLS &amp; ATTACHMENTS:</b>						
Unknown	MULLER TAPPING MACHINE	\$1,000	15	2020	\$1,200	\$80
1990	PIPE AND CABLE LOCATOR	\$1,000	30	2020	\$1,300	\$43
1993	5000W GENERATOR	\$500	25	2018	\$700	\$28
1997	1997 SCHONSTEDT METAL DETECTOR #1	\$875	20	2017	\$1,000	\$50
1997	1997 SCHONSTEDT METAL DETECTOR #2	\$875	20	2017	\$1,000	\$50
1997	1997 FORD TAPPING TOOL	\$800	20	2017	\$950	\$48
1998	1998 FIRE HYDRANT METER	\$600	20	2018	\$750	\$38
2001	2001 STHL MULTI PURPOSE SAW	\$700	15	2016	\$850	\$57
2002	2002 FIRE HYDRANT FLOW TEST KIT	\$1,200	20	2022	\$1,500	\$75
2004	2004 PIPE THREADER	\$1,200	20	2024	\$1,500	\$75
2005	2005 HONDA 2" TRASH PUMP	\$400	15	2020	\$550	\$37
2006	2006 GAS DETECTOR	\$1,300	15	2021	\$1,500	\$100
2006	2006 12 VOLT SUBMERSIBLE PUMP	\$500	12	2018	\$650	\$54
2006	2006 HOSE MONSTER	\$700	20	2026	\$900	\$45
2006	2006 RIGID NO. 460 TRI STAND	\$500	20	2026	\$700	\$35
2007	2007 ALLEGRO VENTILATOR	\$800	20	2027	\$1,000	\$50
2008	2008 INGERSOLL-RAND LIGHT TOWER	\$6,885	20	2028	\$8,000	\$400
2008	2008 VALVE LUBRICATOR	\$400	20	2028	\$600	\$30
2008	2008 TRIPOD RETRIEVAL WINCH #102144	\$2,590	20	2028	\$3,000	\$150
2009	2009 SALA LIFT II 9' TRIPOD	\$800	20	2029	\$1,000	\$50
2009	2009 TRIPOD RETRIEVAL WINCH #108561	\$2,590	20	2029	\$3,000	\$150
2010	2010 3" PIERCING TOOL	\$4,275	15	2025	\$4,500	\$300
2011	2011 STHL MULTI PURPOSE SAW TS 800	\$1,125	10	2021	\$1,300	\$130
2011	2011 HONDA 3000W GENERATOR	\$1,155	15	2026	\$1,300	\$87
2012	2012 SCHONSTEDT MAG LOCATOR	\$940	20	2032	\$1,000	\$50
2012	2012 TRACEMASTER LINE LOCATOR	\$3,775	15	2027	\$4,000	\$267
2012	2012 FCS S-30 LEAK NOISE AMP SYSTEM	\$4,500	20	2032	\$6,000	\$300
	<b>TOTALS:</b>	\$41,985			\$49,750	\$2,777
<b>LAWN &amp; GROUNDS TOOLS:</b>						
2013	POULAN LAWN MOWER	\$200	8	2021	\$250	\$31
	<b>TOTALS:</b>	\$200			\$250	\$31
	<b>GRAND TOTALS:</b>	\$247,260			\$280,000	\$21,125

Year To Replace = Purchase Year + Expected Life  
Annual Reserve = (Replacement Price - 10% of Purchase Price)/Expected Life