

College Township Water Authority Budget - 2018



Pleasant Pointe

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Operating Budget Summary

**COLLEGE TOWNSHIP WATER AUTHORITY
YEAR 2018 OPERATING BUDGET SUMMARY**

OPERATING BUDGET SUMMARY

	2010 AUDITED	2011 AUDITED	2012 AUDITED	2013 AUDITED	2014 AUDITED	2015 AUDITED	2016 AUDITED	2017		2018	
								BUDGET	YTD 11/30	EXPECTED	PROPOSED
OPERATING INCOME											
Water System Revenues	1,535,441	1,563,037	1,648,202	1,672,358	1,571,681	1,645,614	1,687,234	1,643,369	1,494,575	1,674,927	1,608,390 (1)
OPERATING EXPENSES											
Purification and Pumping	135,815	125,184	111,752	112,442	94,433	94,439	99,054	101,550	106,664	109,485	106,675
Distribution System	259,475	253,992	264,360	208,239	234,987	230,687	269,691	248,565	217,239	235,270	255,955
General Expense	359,875	397,731	415,601	441,923	486,995	467,604	444,417	470,302	408,439	435,891	470,766
TOTAL OPERATING EXPENSES	755,165	776,907	791,713	762,604	816,415	792,730	813,162	820,417	732,342	780,646	833,396 (2)
OPERATING MARGIN	780,276	786,130	856,489	909,754	755,266	852,884	874,072	822,952	762,233	894,281	774,994
NON-OPERATING INCOME (EXPENSE)	6,027	4,824	949	7,383	8,679	8,384	1,858	10,000	10,399	21,567	22,000 (3)
INCOME BEFORE DEBT SERVICE	786,303	790,954	857,438	917,137	763,945	861,268	875,930	832,952	772,632	915,848	796,994
LESS: Debt Service Requirement											716,975 (4)
AVAILABLE FOR CAPITAL, CONTINGENCIES AND RESERVE											80,019

CALCULATION OF COMPLIANCE WITH LOAN AGREEMENT COVERAGE REQUIREMENT

— BUDGETED REVENUES MUST EQUAL OR EXCEED THE TOTAL OF 1) OPERATING EXPENSES AND 2) 110% OF DEBT SERVICE —

This calculation is required by the Loan Agreement securing the 2015 Note and is referred to as the calculation of required coverage.

Water System Revenues	1,608,390 (1)
Investment Income	22,000 (3)
	<u>1,630,390</u>
Administrative and operating expenses	833,396 (2)
Debt Service	716,975 (4)
10% of Debt Service	71,698
	<u>1,622,069</u>
Excess Coverage	<u>8,322</u>

Operating Revenues

OPERATING INCOME

	2010	2011	2012	2013	2014	2015	2016	2017		2018	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
WATER SYSTEM REVENUES											
METERED WATER REVENUES											
378.110 Metered Water Revenues - Residential	717,258	712,142	708,432	751,800	722,125	816,931	848,850	837,500	706,815	810,000	810,700
378.120 Metered Water Revenues - Commercial	272,542	285,115	294,954	302,268	283,528	325,376	329,873	328,300	306,104	310,000	308,200
378.130 Metered Water Revenues - Industrial	71,189	75,610	71,704	72,095	53,253	70,739	79,172	80,400	73,886	74,000	73,700
378.140 Metered Water Revenues - Other Public	18,354	16,894	20,193	27,831	21,837	27,615	24,364	26,800	15,663	18,000	18,425
378.141 Metered Water Revenues - SCI Rockview	125,000	128,500	131,708	136,125	136,500	18,261	0	0	0	0	0
378.142 Metered Water Revenues - UAJA BRW	40,486	61,174	62,446	78,424	67,938	69,905	69,407	70,072	62,827	62,827	62,855
Subtotal	1,244,829	1,279,435	1,289,437	1,368,543	1,285,181	1,328,827	1,351,666	1,343,072	1,165,295	1,274,827	1,273,880
FIRE SERVICES											
378.405 Fire Services - CTWA Hydrants	84,249	85,045	85,300	85,885	86,531	94,579	95,290	96,198	71,949	96,000	97,034
378.410 Fire Services - Private Hydrants	5,081	4,773	4,681	4,681	4,681	5,725	6,264	5,421	4,909	6,500	5,424
378.420 Fire Services - Sprinkler Fire Lines	146,933	149,425	150,088	152,112	153,123	167,796	168,260	169,178	127,326	170,000	170,672
Subtotal	236,263	239,243	240,069	242,678	244,335	268,100	269,814	270,797	204,184	272,500	273,130
OTHER WATER RELATED REVENUES											
378.300 Penalties	13,812	13,699	14,506	16,497	16,006	15,285	14,894	15,200	13,584	15,600	15,600
378.500 Water Main Connection Fees	32,761	7,619	101,456	23,874	21,081	27,671	46,912	10,000	89,696	90,000	30,000
378.505 Capital Recovery - SCI Rockview	0	0	0	0	0	0	0	0	0	0	0
378.510 Meter Sales and Installations	0	0	0	0	0	0	0	0	0	0	0
378.515 Meter Depreciation Charge	0	0	0	0	0	0	0	0	0	0	11,280
380.000 Miscellaneous	7,776	23,041	2,734	20,766	5,078	5,731	3,948	4,300	21,816	22,000	4,500
Subtotal	54,349	44,359	118,696	61,137	42,165	48,687	65,754	29,500	125,096	127,600	61,380
TOTAL WATER SYSTEM REVENUES	1,535,441	1,563,037	1,648,202	1,672,358	1,571,681	1,645,614	1,687,234	1,643,369	1,494,575	1,674,927	1,608,390

OPERATING REVENUES

METERED WATER REVENUE

Effective January 1, 2018, water consumption is proposed to be billed to the majority of its customers for each meter at \$6.70 per 1,000 gallons consumed. This rate is the same as 2017.

BELLEFONTE INTERCONNECT: Pursuant to a 2011 interconnection 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. This agreement was terminated effective January 1, 2016, pursuant to Article 15 of the agreement.

SCI- ROCKVIEW: During 2003, the Authority entered into an agreement with the Commonwealth of Pennsylvania whereby the Authority had agreed to provide the Department of Corrections up to 700,000 gallons of potable water daily as a backup water supply. The Commonwealth had committed to a minimum purchase of 50 million gallons of water per year.

This agreement has been terminated and all usage billing ended in July 2015.

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 2018 will be \$6.14 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 2018, 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	2,467	121,000,000	\$810,700
Commercial	307	46,000,000	308,200
Industrial	14	11,000,000	73,700
Other Public	<u>15</u>	<u>2,750,000</u>	<u>18,425</u>
	2,803	180,750,000	\$ 1,211,025
UAJA – Beneficial Reuse			
Cintas	1	8,000,000	\$49,120
Redline Speedshine	1	3,750,000	12,563
Best Western Motel	<u>1</u>	<u>350,000</u>	<u>1,172</u>
	<u>3</u>	<u>12,100,000</u>	<u>\$62,855</u>
TOTAL	<u>2,806</u>	<u>192,850,000</u>	<u>\$ 1,273,880</u>

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 2018:

<u>HYDRANTS</u>	<u>NUMBER</u>	<u>ANNUAL CHARGE</u>	<u>REVENUE</u>
Hydrants – Authority owned and maintained	239	\$ 406	<u>\$97,034</u>
Hydrants – Privately owned and maintained	16	\$ 339	<u>\$ 5,424</u>
<u>STANDBY FIRE LINES</u>	<u>NUMBER</u>	<u>ANNUAL CHARGE</u>	<u>REVENUE</u>
Sprinkler – 4” fire service	21	\$ 1,484	\$31,164
Sprinkler – 6” fire service	23	\$ 2,968	68,264
Sprinkler – 8” fire service	<u>12</u>	<u>\$ 5,937</u>	<u>71,244</u>
	56		<u>\$170,672</u>

OPERATING REVENUES

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.

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.

WATER METER DEPRCIATION CHARGE

Replacement of water meters, which have a useful life of approximately 10 years, requires a significant ongoing expense of the Authority. This fee that is charged across the customer base is intended to provide the Authority with the capital needed to fund this ongoing expense. The fee is \$1.00 per meter per quarter, excluding fire line meters.

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.

Pumping and Purification Expenses

PURIFICATION AND PUMPING EXPENSES

	2010 AUDITED	2011 AUDITED	2012 AUDITED	2013 AUDITED	2014 AUDITED	2015 AUDITED	2016 AUDITED	2017		2018	
								BUDGET	YTD 11/30	EXPECTED	PROPOSED
PURIFICATION EXPENSE											
448.201 Operating Supplies and Exp-Mt Nittany Conta	0	0	0	0	0	0	0	0	0	0	0
448.202 Chemical Purchases	21,460	18,299	18,335	20,157	21,056	20,594	18,469	22,000	26,054	26,500	22,000
448.203 Power Purchased - Mt Nittany Contact Tank	0	0	0	0	0	0	0	0	0	0	0
448.204 Water Analysis	8,685	20,055	8,411	9,875	13,037	8,758	7,964	8,500	12,015	12,900	13,000
448.205 Equipment Maintenance - Mt Nittany Contact	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
TOTAL PURIFICATION	30,145	38,354	26,746	30,032	34,093	29,352	26,433	30,500	38,069	39,400	35,000
PUMPING EXPENSE											
PUDDINTOWN STATION											
448.311 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.312 Power Purchased	56	12	4	0	0	0	74	75	90	104	100
448.313 Equipment Maintenance	0	0	0	0	0	0	0	0	0	0	0
448.314 Structure Maintenance	204	204	0	804	204	204	705	250	0	0	250
Subtotal	260	216	4	804	204	204	779	325	90	104	350
MATILDA BOOSTER STATION											
448.321 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.322 Power Purchased	883	805	656	1,260	1,251	1,667	1,655	1,625	1,579	1,725	1,625
448.323 Equipment Maintenance	0	25	0	4,826	0	0	0	250	223	223	300
448.324 Structure Maintenance	952	0	0	445	0	0	0	150	244	244	150
Subtotal	1,835	830	656	6,531	1,251	1,667	1,655	2,025	2,046	2,192	2,075
LEMONT BOOSTER STATION											
448.331 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.332 Power Purchased	2,763	4,002	2,656	3,213	2,311	2,097	2,903	2,600	1,966	2,200	2,500
448.333 Equipment Maintenance	0	1,387	2,567	559	1	0	0	700	0	0	700
448.334 Structure Maintenance	214	377	405	295	342	622	193	700	2,898	2,898	800
Subtotal	2,977	5,766	5,628	4,067	2,654	2,719	3,096	4,000	4,864	5,098	4,000
SPRING CREEK PARK WELL											
448.361 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.362 Power Purchased	35,473	32,879	26,080	23,364	21,318	23,934	25,175	24,500	19,242	23,500	24,500
448.363 Equipment Maintenance	9,276	4,638	5,776	9,017	427	2,014	3,768	4,500	8,158	500	4,500
448.364 Structure Maintenance	0	486	978	485	524	208	728	500	106	150	500
448.365 Well Monitoring Costs	106	0	0	0	0	0	0	0	0	0	0
448.367 Easement Costs	5,610	5,610	5,610	5,610	5,610	5,610	5,610	5,700	5,700	5,700	5,700
Subtotal	50,465	43,613	38,444	38,476	27,879	31,766	35,281	35,200	33,206	29,850	35,200

PURIFICATION AND PUMPING EXPENSES

	2010 AUDITED	2011 AUDITED	2012 AUDITED	2013 AUDITED	2014 AUDITED	2015 AUDITED	2016 AUDITED	2017 BUDGET	2017 YTD 11/30	2017 EXPECTED	2018 PROPOSED
ROGERS WELL											
448.371 Operating Supplies and Expense	0	0	1	0	0	0	0	0	0	0	0
448.372 Power Purchased	37,956	26,354	33,743	25,472	24,575	24,561	25,211	24,000	22,847	27,000	25,000
448.373 Equipment Maintenance	2,757	5,510	4,317	3,366	911	3,350	5,009	2,750	2,501	2,700	2,750
448.374 Structure Maintenance	4,373	441	118	713	0	0	539	1,000	1,694	1,725	1,000
448.375 Well Monitoring Costs	4,792	4,100	0	2,981	2,700	0	0	0	146	146	0
Subtotal	49,878	36,405	38,179	32,532	28,186	27,911	30,759	27,750	27,188	31,571	28,750
OAK HALL WELLS											
448.391 Operating Supplies and Expense	0	0	0	0	65	281	16	100	21	40	50
448.392 Power Purchased	0	0	0	0	35	539	334	500	500	550	500
448.393 Equipment Maintenance	0	0	0	0	66	0	625	350	510	510	350
448.394 Structure Maintenance	0	0	0	0	0	0	76	100	170	170	100
448.395 Well Monitoring Costs	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	166	820	1,051	1,050	1,201	1,270	1,000
INTERCONNECTIONS - SCBWA ,PSU, and BELLEFONTE											
448.386 Purchased Water	0	0	2,095	0	0	0	0	500	0	0	200
448.388 Interconnection Maintenance	255	0	0	0	0	0	0	200	0	0	100
Subtotal	255	0	2,095	0	0	0	0	700	0	0	300
TOTAL PUMPING	105,670	86,830	85,006	82,410	60,340	65,087	72,621	71,050	68,595	70,085	71,675
TOTAL PURIFICATION AND PUMPING	135,815	125,184	111,752	112,442	94,433	94,439	99,054	101,550	106,664	109,485	106,675

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

Note: At this time, Puddintown Station is not operational.

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

PURIFICATION AND PUMPING EXPENSES

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

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

PURIFICATION AND PUMPING EXPENSES

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

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. The fee adjusted in 2009 and adjusts every fifth year thereafter.

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.

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.

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.

Distribution System Expenses

DISTRIBUTION SYSTEM EXPENSES

	2010	2011	2012	2013	2014	2015	2016	2017		2018	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
STORAGE-DALE ST RESERVOIR											
448.341 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.342 Power Purchased	266	153	150	149	150	161	170	165	167	180	200
448.343 Equipment Maintenance	0	26	4	85	26	0	0	500	0	0	400
448.344 Structure Maintenance	3,184	404	0	4,955	3,761	8	0	500	0	0	250
Subtotal	3,450	583	154	5,189	3,937	169	170	1,165	167	180	850
STORAGE-STRUBLE RD TANK											
448.351 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
448.352 Power Purchased	152	309	231	197	278	231	257	250	300	320	250
448.353 Equipment Maintenance	0	1,135	68	0	20	68	0	500	0	0	300
448.354 Structure Maintenance	0	0	0	0	0	0	0	250	0	0	200
Subtotal	152	1,444	299	197	298	299	257	1,000	300	320	750
MAINTENANCE-DISTRIBUTION SYSTEM											
448.475 Maintenance of Distribution / Trans Mains	52,536	34,924	23,601	17,111	23,887	18,323	56,404	20,000	6,057	7,500	22,000
448.490 Maintenance of Service Lines	14,986	11,623	9,652	6,689	14,911	12,835	8,249	11,000	16,311	18,200	12,000
448.495 Dumping Fees	0	0	1	2,943	1,890	1,079	998	2,250	2,295	2,500	3,275
448.510 Maintenance of Hydrants	3,099	695	95	4,044	821	39	3,190	2,000	1,066	1,100	1,800
448.530 Meter Supplies and Maintenance	2,059	3,525	1,535	945	891	2,571	3,125	1,750	614	700	1,750
448.532 PRV - Penn Hills	11	17	1,122	937	48	2	2,013	100	0	0	100
448.534 PRV - Independence Place	0	0	881	52	0	1,059	7,263	100	0	0	100
448.536 PRV - Oak Hall	0	0	320	3	812	72	2,775	100	0	0	200
448.537 PRV - Rockview North	1,281	75	1,103	61	0	738	10	100	9	0	100
448.538 PRV - Rockview South	0	0	0	0	214	147	0	100	0	0	100
448.539 PRV - Bellefonte Interconnect	0	0	129	216	0	0	0	100	0	0	100
448.541 PRV - Nittany Commons	0	0	909	0	0	0	0	100	0	0	100
Subtotal	73,972	50,859	39,348	33,001	43,474	36,865	84,027	37,700	26,352	30,000	41,625
GENERAL-DISTRIBUTION SYSTEM											
448.181 Contract Labor - College Twp Personnel	33,523	46,247	53,059	28,386	29,114	25,767	34,572	37,000	30,506	32,000	25,000
448.540 Contract Labor - Technicians	132,438	136,134	146,517	126,541	141,299	143,397	136,088	150,000	146,377	158,000	168,000
448.556 Leak Detection Services	0	92	0	0	0	0	0	2,000	0	0	1,000
448.575 R-O-W, Regulatory Compliance	2,119	2,314	2,492	1,369	1,191	1,418	1,412	1,300	1,370	1,370	1,400
448.648 Pa One Call Service	1,120	843	1,386	586	663	594	806	1,000	817	1,000	1,100
448.760 Small Tools and Minor Equipment	5,640	7,748	9,018	1,898	1,974	2,036	2,357	2,000	362	700	2,000
448.761 Repairs and Maintenance-Water Equip	6,791	7,463	11,760	11,072	13,033	20,142	10,002	14,900	10,988	11,500	13,730
448.762 Safety Equipment	270	265	327	0	4	0	0	500	0	200	500
Subtotal	181,901	201,106	224,559	169,852	187,278	193,354	185,237	208,700	190,420	204,770	212,730
TOTAL DISTRIBUTION SYSTEM	259,475	253,992	264,360	208,239	234,987	230,687	269,691	248,565	217,239	235,270	255,955

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 \$35.00 per truck load. It is estimated for 2018 that 65 truckloads of waste material will be hauled to the site for a total cost of \$2,275. 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.

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

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

DISTRIBUTION SYSTEM EXPENSES

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

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

DISTRIBUTION SYSTEM EXPENSES

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.

448.540 CONTRACT LABOR – TECHNICIANS

This line item covers the cost of labor charges, including scheduled overtime, for four full-time service technicians. Whenever technicians perform services for College Township, leaf collection for example, their time is charged to the Township.

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

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

DISTRIBUTION SYSTEM EXPENSES

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, Chlorine Analyzers, Turbidimeters and gas chlorination equipment. For 2018, the following costs are as follows:

Hach Company Service Agreement - \$4,730

This agreement will 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 2018. 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.

Tri-Star – SCADA Maintenance Agreement - \$5,100

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. \$2,000 has been included to correct an existing installation error.

DISTRIBUTION SYSTEM EXPENSES

Tri-Star Agreement \$3,100
Repairs/Parts \$2,000

\$5,100

De Nora Service and Maintenance Plan - \$3,900

This service and maintenance plan provides one visit per calendar year for a De Nora 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.

De Nora Service and Maintenance Plan \$ 1,100
Repairs/Parts \$ 2,800

\$ 3,900

448.762 SAFETY EQUIPMENT

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 2018 that will serve to increase safety in the work place.

General Expenses

GENERAL EXPENSES

	2010	2011	2012	2013	2014	2015	2016	2017		2018	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
OFFICE											
448.600 Contract Labor - Billing and Cust Serv	45,232	47,037	54,269	58,115	55,398	54,168	55,600	56,000	53,191	58,000	61,000
448.605 Contract Labor - College Twp Personnel	11,272	11,942	12,809	12,856	13,735	14,139	11,544	12,000	12,522	13,700	13,000
448.610 Contract Labor - Meter Reading	10,841	9,444	6,836	7,880	9,868	4,694	2,376	4,000	2,337	2,650	3,000
448.612 Professional Employment Services	386	0	0	0	0	0	0	0	8	0	0
448.620 Office and Other Supplies	1,895	2,303	2,661	1,949	2,562	2,810	1,498	2,250	2,321	2,400	2,400
448.621 Computer and Software Maintenance	6,347	6,818	5,271	4,493	4,568	6,471	4,888	7,000	4,696	5,000	0
448.625 Postage and Freight Charges	4,510	4,351	4,963	5,277	5,400	5,441	5,492	6,000	4,734	5,300	5,500
448.641 Advertising	647	1,836	212	1,263	286	1,013	372	750	1,222	1,400	1,000
448.643 IT Services/Support/Software	1,737	1,727	1,674	2,094	1,778	2,641	2,330	2,500	2,873	3,000	7,296
448.645 Telephone	1,712	1,794	2,450	2,052	2,134	1,885	937	1,050	726	800	900
448.647 Cellular Phone	560	985	633	712	939	575	610	750	554	700	750
448.655 Uncollectible Accounts	285	-651	5,660	4,161	27,603	3,478	-1,145	0	0	0	0
Subtotal	85,424	87,586	97,438	100,852	124,271	97,315	84,502	92,300	85,184	92,950	94,846
GENERAL PROPERTY											
448.702 Vehicle Repairs and Maintenance	2,549	3,485	3,110	4,315	3,969	3,300	1,479	2,500	736	1,000	2,500
448.731 Vehicle Fuels: Gas, Diesel, Oil, Etc	4,526	7,322	9,022	10,170	10,716	6,761	5,370	7,500	4,744	5,300	6,800
448.735 Repairs of Tools and Machinery	617	387	563	991	483	416	732	800	2,019	2,100	1,000
448.740 Materials and Supplies	1,845	1,748	2,219	7,226	3,026	945	1,588	3,100	181	300	2,500
448.765 Radio/Paging Equipment and Maint	150	384	0	0	0	152	0	0	0	0	0
448.770 Rental of Equipment	6,052	7,356	910	1,275	5,955	8,490	3,349	5,000	4,165	4,200	5,000
Subtotal	15,739	20,682	15,824	23,977	24,149	20,064	12,518	18,900	11,845	12,900	17,800
ENGINEERING AND PROFESSIONAL											
448.810 Engineering - Consulting	32,083	40,602	40,333	24,285	32,470	32,616	48,009	35,000	26,472	30,500	35,000
448.818 Engineering - Inspection	0	0	0	0	4,387	0	0	0	0	0	0
448.840 Accounting and Audit	14,640	12,475	14,684	14,810	18,187	16,000	13,450	15,250	12,250	12,250	15,250
448.845 Legal	4,795	8,470	7,516	12,669	7,722	7,261	5,899	9,000	6,097	7,000	9,000
448.850 Professional - Other	800	0	1,200	1,200	1,200	1,914	3,482	2,500	2,167	2,167	2,500
Subtotal	52,318	61,547	63,733	52,964	63,966	57,791	70,840	61,750	46,986	51,917	61,750

GENERAL EXPENSES

	2010	2011	2012	2013	2014	2015	2016	2017		2018	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
TAXES, BENEFITS, AND INSURANCE											
448.615 Training - Distribution and Office	300	488	0	1,377	1,465	1,725	1,275	1,500	1,125	1,125	1,200
448.618 Conventions	1,050	1,020	1,020	0	0	0	0	1,050	0	0	1,000
448.738 Clothing and Uniforms	2,080	2,614	2,263	2,973	2,450	2,434	2,628	3,000	1,548	1,900	2,700
448.802 Dues, Subscriptions, and Memberships	2,171	2,202	2,260	2,487	2,493	2,499	2,705	2,800	2,711	2,711	2,800
448.855 Insurance Policies	25,265	22,063	25,384	32,294	27,546	16,206	19,285	20,000	16,545	18,200	20,000
448.858 Workers' Compensation Insurance	8,718	8,790	7,259	10,151	10,651	12,128	11,113	11,750	9,817	10,700	11,750
448.860 Pension Expense	11,931	14,305	15,351	15,737	16,300	16,780	16,213	18,000	13,099	14,000	15,908
448.865 Bond	0	152	0	0	152	141	164	175	164	164	175
448.870 Medical / Dental / Vision Insurance	60,094	79,108	78,083	87,833	100,158	110,066	104,725	119,000	110,761	111,000	119,000
448.871 Health Insurance Opt-Out Program	0	0	3,209	3,326	3,796	4,189	4,377	4,735	2,706	2,900	2,200
448.875 Group Term Life/Disability Insurance	3,866	3,552	4,127	4,036	3,079	3,208	3,138	3,600	3,166	3,500	3,600
448.880 Payroll Taxes - FICA	14,880	15,148	20,041	19,427	18,582	18,822	18,145	19,000	18,088	19,600	20,000
448.881 Unemployment Compensation Insurance	1,080	1,181	647	2,943	4,292	3,246	2,218	650	832	832	1,225
Subtotal	131,435	150,623	159,644	182,584	190,964	191,444	185,986	205,260	180,562	186,632	201,558
MISCELLANEOUS											
448.885 Operational and Management Agreement	74,820	77,160	78,960	81,540	83,556	85,872	88,560	91,392	83,776	91,392	94,212
480.470 Miscellaneous	32	133	2	6	89	15,118	2,011	500	86	100	500
481.460 Board, Staff, and Professional Meetings	107	0	0	0	0	0	0	200	0	0	100
493.895 Loss (Gain) on Disposal of Assets	0	0	0	0	0	-	-	0	0	0	0
Subtotal	74,959	77,293	78,962	81,546	83,645	100,990	90,571	92,092	83,862	91,492	94,812
TOTAL GENERAL EXPENSE	359,875	397,731	415,601	441,923	486,995	467,604	444,417	470,302	408,439	435,891	470,766

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 50% 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 400 hours per year. In addition to reading meters, this position performs other maintenance functions such as mowing, trimming, weeding, and painting from time to time. 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

Please refer to the narrative for 448.643.

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 IT SERVICE / SUPPORT / SOFTWARE

Beginning with 2018, this account will capture all costs associated with information technology support, service, and software that is not capital in nature (i.e. new acquisition).

GENERAL EXPENSES

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 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.

GENERAL EXPENSES

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

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. Equipment rented from the Township is based on an equipment rental rate schedule.

ENGINEERING AND PROFESSIONAL

448.810 ENGINEERING - CONSULTING

GENERAL EXPENSES

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.

448.840 ACCOUNTING AND AUDIT

Outside auditor services in auditing the Authority's 2017 financial statements and preparing the 2017 Annual Report of Municipal Authorities is expected to cost \$12,750. 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

In 2017, the Authority utilized the services of a hydrologist to assist with the execution of a plan for the installation of a utility in the vicinity of our well head. Along with other possible services, it is expected that a web site developed by the Water Resources Monitoring Committee regarding source water education would partially bill the Water Authority for their costs.

TAXES, BENEFITS, AND INSURANCE

GENERAL EXPENSES

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.

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

GENERAL EXPENSES

The Authority maintains public liability, property damage, and workers' compensation insurance. 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

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 2013 - 2018 prior to employee contributions are as follows:

GENERAL EXPENSES

	Health		Dental	
	<u>Single</u>	<u>Family</u>	<u>Single</u>	<u>Family</u>
2018	1,114.03	2,590.48	27.40	88.13
2017	1,039.39	2,381.72	26.60	85.56
2016	961.12	2,195.53	25.65	82.51
2015	921.52	2,097.58	25.65	82.51
2014	835.74	1,892.72	32.39	100.66
2013	733.50	1,647.81	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

448.880 PAYROLL TAXES – FICA

This item covers the Authority's share of the social security and Medicare taxes on employee wages. The 2018 social security rate is 6.2% of gross earnings up to \$128,700 per employee. The 2018 Medicare rate is 1.45% of gross earnings (no limit). Beginning 1/1/2013, additional .9% 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 1.9% of an employee's first \$10,000 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 \$7,851 per month.

480.470 MISCELLANEOUS

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

GENERAL EXPENSES

481.460 BOARD, STAFF AND PROFESSIONAL MEETINGS

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

Non-Operating Income (Expense)

NON-OPERATING INCOME (EXPENSE)

	2009	2010	2011	2012	2013	2014	2015	2016	2017			2018
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
NON-OPERATING INCOME (EXPENSE)												
341.000 Investment Income	24,420	6,027	4,824	949	7,383	8,679	8,384	1,858	10,000	10,399	21,567	22,000
341.050 Investment Income - SCI Rockview	803	0	0	0	0	0	0	0	0	0	0	0
379.200 Contribution in Aid of Construction								0	0	0	0	0
NET NON-OPERATING INCOME (EXP)	25,223	6,027	4,824	949	7,383	8,679	8,384	1,858	10,000	10,399	21,567	22,000

NON-OPERATING INCOME

341.000 INVESTMENT INCOME

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

Capital Budget

College Town Water Authority
 PLANNED CONSTRUCTION PROJECTS AND CAPITAL ASSET PURCHASES FOR 2018

	2018 FUNDING		
	All Other Available Funds	CNB Drawdown Loan	Total
<u>Water System Upgrade Projects</u>			
Berry Street	\$ -	\$ 73,000	\$ 73,000
Limerock Terrace/Houserville Road	\$ -	\$ 175,000	\$ 175,000
Merryhill Road	\$ 49,000	\$ -	\$ 49,000
Oak Hall Well Development Continuation	\$ -	\$ 60,000	\$ 60,000
Struble Road Storage Tank Perimeter Security Fencing	\$ 25,000	\$ -	\$ 25,000
<u>Water System Maintenance/Repairs</u>			
Spring Creek Park Well: Spare Well Level Transmitter	\$ 1,100	\$ -	\$ 1,100
Spring Creek Park Well: Flow Paced Chemical Feed Operation	\$ 6,500	\$ -	\$ 6,500
<u>Capital Asset Purchases</u>			
Backflow Prevention Program and Commercial Meters	\$ 13,950	\$ -	\$ 13,950
Standby Generator Spring Creek Park Well or Rogers Well	\$ 56,320	\$ -	\$ 56,320
Dechlorinating Diffuser	\$ 1,350	\$ -	\$ 1,350
Colorimeter	\$ 1,390	\$ -	\$ 1,390
Replace 1993 5000 watt Generator	\$ 2,050	\$ -	\$ 2,050
Replace 2006 12 volt Submersible Pump	\$ 1,100	\$ -	\$ 1,100
Fire Hydrant Markers	\$ 2,375	\$ -	\$ 2,375
Replace Primary and Backup SCADA PC'S	\$ 4,000	\$ -	\$ 4,000
TOTALS	<u>\$ 164,135</u>	<u>\$ 308,000</u>	<u>\$ 472,135</u>

<u>Estimated Costs for Future Projects & Equipment (Prioritized in order)</u>

1 Rainlo Street, Oakwood Drive and Norle Street	\$ 20,000
2 Green Acres Lane	\$ 20,000
3 Puddintown Road	\$ 65,000
4 East Branch Road	\$ 110,000
5 Clyde Avenue	\$ 60,000
6 Single Axle Dump Truck	\$ 40,000
7 OH-20 CONTINUED Development	\$ 1,500,000
8 OH-20 Distribution Upgrades	\$ 1,000,000
9 Replace 6" AC Line Squirrel Drive	\$ 150,000
	<u>\$ 2,965,000</u>

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

2018 WATER SYSTEM UPGRADE PROJECTS

BERRY STREET - \$73,000

Replace approximately 680 LF of 4" AC main line pipe with 8" ductile iron pipe from Dale Street to Mary Street. Install 18 new service line connections.

LIMEROCK TERRACE/HOUSERVILLE ROAD - \$175,000

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" ductile iron main line was installed from the Limerock Court Subdivision to the Rhodes Lane intersection along Limerock Terrace. To increase flow to the low pressure zone from the Pep Boys vault, it is proposed to continue construction of the 8" main line along Limerock Terrace and connect to the 8" main line at Pike Street. The 4" AC line will remain in place for the existing back lot service lines to several properties.

The new Limerock Terrace 8" line will include one new fire hydrant assembly and replacing seven service line connections.

Replace approximately 400 LF of existing 4" AC line along Houserville Road, from Scholl Street to Gibbons Street, with 8" ductile iron pipe. Replace four service line connections. This project will complete the construction of the 8" main line along Houserville Road.

Bids were received for this project in August 2017. The total bid amount of the three bids submitted ranged from the lowest bid of \$196,000 to the highest bid of \$315,170. It is anticipated that a rebid of the project this winter will result in a lower total bid amount.

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

MERRYHILL ROAD - \$49,000

Replace approximately 560 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.

OAK HALL WELL DEVELOPMENT CONTINUATION - \$60,000

The following activities are expected to be performed in 2018 to continue the process of connecting Oak Hall Well (OH-20) to the distribution system: Discharge permits for pump test, conduct pump test (including water samples, and Dr. Parizek/Entech services during pump test. Costs are expected to be \$60,000 for the year.

STRUBLE ROAD STORAGE TANK PERIMETER SECURITY FENCING - \$25,000

Install perimeter security fencing with access gate at the driveway.

2018 WATER SYSTEM MAINTENANCE/REPAIRS

SPRING CREEK PARK WELL: SPARE WELL LEVEL TRANSMITTER - \$1,100

During the replacement of the well pump this past year, it was found that the well level transmitter was not working properly. Our stock spare well level transmitter was installed with the pump installation.

SPRING CREEK PARK WELL: FLOW PACED CHEMICAL FEED OPERATION - \$6,500

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

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 and polyphosphate 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 and polyphosphate 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.

2018 CAPITAL ASSET PURCHASES

CROSS CONNECTION CONTROL/BACKFLOW PREVENTION PROGRAM - \$13,950

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. Residential inspections are now completed. It is proposed that the inspections for 2018 will continue with the start of commercial service line inspections. CTWA has set aside approximately \$14,000 to address this issue.

EMERGENCY POWER SUPPLY GENERATOR - \$56,320

Purchase trailer mounted stand-by generator that could be used at Spring Creek Park Well, or Rogers Well and purchase stationary stand-by generator for Lemont Station.

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

2018 150 KW Generator \$56,320 Spring Creek Park Well or Rogers Well
2017 50 KW Generator \$24,920 Lemont Booster Station

The generators were ordered from Cleveland Brothers Equipment Co. in September 2017. The delivery of the 50 kw generator is expected in November or December and the 150 kw generator will be delivered in January. The expenditure for the 50 kw unit @ \$24,920 will occur before the end of the year. The expenditure for the 150 kw unit is included in the 2018 budget @ \$56,320.

Dechlorinating Diffuser - \$1,350

According to the Township's MS4 (Stormwater) regulations, flushing hydrants with the distribution system's chlorinated water is considered an illicit discharge into the storm drain system. The difuser, which is connected to the discharge nozzle, uses dechlorinating tablets to neutralize chlorine in the potable water during flushing operations.

Colorimeter - \$1,390

There are two colorimeters for use by the water technicians to routinely check the system residual chlorine and phosphate corrosion inhibitor. The purchase of this colorimeter would be the replacement of a defective unit.

Replace 1993 5000 watt Generator - \$2,050

The generator is used on job sites to power small electrical hand tools such as drills, grinders and saws.

Cost:	\$2,200
Less sale of 1993 generator:	<u>\$ 150</u>

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

Net cost: \$2,050

Replace 2006 12 volt Submersible Pump - \$1,100

The submersible pump is used during leak repairs to pump water from excavation areas.

Fire Hydrant Markers - \$2,375

There are currently 254 fire hydrants within the distribution system. Some of the fire hydrant markers are missing or broken, and on most of the remaining markers, the reflective tape has degraded. It is proposed in 2018, to replace 125 of the older markers, with the remaining markers to be replaced in 2019. Cost is \$19.00 each.

(2) SCADA PC'S - \$4,000

Replace 2 pc's used solely in conjunction with the SCADA system. One of the pc's is used as a fully functional spare.

FUTURE PROJECTS

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

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

residence. After all properties are connected to the larger main lines along the streets, the 1" and 2" line would be abandoned in place.

GREEN ACRES LANE - \$20,000

Replace existing 2" steel line with 2" CTS plastic pipe. Replace service line connections.

PUDDINTOWN ROAD - \$65,000

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.

EAST BRANCH ROAD - \$110,000

Replace approximately 1,300 LF of 6" asbestos cement main line pipe with 8" ductile iron pipe from Norle Street to the E. Branch Road Bridge over the Mt. Nittany Expressway. Replace nine service line connections.

CLYDE AVENUE - \$60,000

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.

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

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.

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 - \$1,000,000

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

REPLACE 6" AC LINE SQUIRREL DRIVE - \$150,000

Replace approximately 1,345 LF of 6" AC pipe on Squirrel Drive from E. College Avenue to Oakridge Avenue to improve fire flow to the higher elevation of Oakridge Avenue.

Appendix

Appendix

Appendix 1: Debt Service Schedule

Appendix 2: Top 10 Users

Appendix 3: Gallons Produced, Billed and Unaccounted

Appendix 4: Water System Revenue and Rate History

Appendix 5: Other Key Statistics (Customers, Gallons Per Day, Debt Coverage)

Appendix 6: Equipment Replacement Schedule

College Township Water Authority
General Obligation Note, Series of 2015

of \$10,000,000

	30	31	32	33	34	35	36	37	38	39
						Annual	Less: Deposit	Net	Existing	
Date	Principal	Rate	Interest	Debt Service	Debt Service	Debt Service	to Debt	Annual	Annual Net	Difference
							Service Fund	Debt Service	Debt Service	
12/8/2015										
1/1/2016						0.00			360,731.46	360,731.46
7/1/2016		1.98	111,650.00	111,650.00			111,650.00			
1/1/2017	487,700	1.98	99,000.00	586,700.00	698,350.00		99,000.00	487,700.00	715,405.57	227,705.57
7/1/2017		1.98	94,171.77	94,171.77						
1/1/2018	528,700	1.98	94,171.77	622,871.77	717,043.54			717,043.54	714,830.57	-2,212.97
7/1/2018		1.98	88,937.64	88,937.64						
1/1/2019	539,100	1.98	88,937.64	628,037.64	716,975.28			716,975.28	717,870.57	895.29
7/1/2019		1.98	83,600.55	83,600.55						
1/1/2020	549,800	1.98	83,600.55	633,400.55	717,001.10			717,001.10	714,095.57	-2,905.53
7/1/2020		1.98	78,157.53	78,157.53						
1/1/2021	560,700	1.98	78,157.53	638,857.53	717,015.06			717,015.06	719,060.57	2,045.51
7/1/2021		2.98	109,276.60	109,276.60						
1/1/2022	498,400	2.98	109,276.60	607,676.60	716,953.20			716,953.20	717,395.57	442.37
7/1/2022		2.98	101,850.44	101,850.44						
1/1/2023	513,300	2.98	101,850.44	615,150.44	717,000.88			717,000.88	714,715.57	-2,285.31
7/1/2023		2.98	94,202.27	94,202.27						
1/1/2024	528,600	2.98	94,202.27	622,802.27	717,004.54			717,004.54	715,723.07	-1,281.47
7/1/2024		2.98	86,326.13	86,326.13						
1/1/2025	544,300	2.98	86,326.13	630,626.13	716,952.26			716,952.26	715,465.57	-1,486.69
7/1/2025		2.98	78,216.06	78,216.06						
1/1/2026	560,600	2.98	78,216.06	638,816.06	717,032.12			717,032.12	718,903.07	1,870.95
7/1/2026		3.68	86,273.92	86,273.92						
1/1/2027	544,400	3.68	86,273.92	630,673.92	716,947.84			716,947.84	716,103.07	-844.77
7/1/2027		3.68	76,256.96	76,256.96						
1/1/2028	564,500	3.68	76,256.96	640,756.96	717,013.92			717,013.92	717,233.07	219.15
7/1/2028		3.68	65,870.16	65,870.16						
1/1/2029	585,300	3.68	65,870.16	651,170.16	717,040.32			717,040.32	716,433.07	-607.25
7/1/2029		3.68	55,100.64	55,100.64						
1/1/2030	606,800	3.68	55,100.64	661,900.64	717,001.28			717,001.28	161,837.89	-555,163.39
7/1/2030		3.68	43,935.52	43,935.52						
1/1/2031	629,100	3.68	43,935.52	673,035.52	716,971.04			716,971.04		-716,971.04
7/1/2031		4.18	36,756.83	36,756.83						
1/1/2032	643,500	4.18	36,756.83	680,256.83	717,013.66			717,013.66		-717,013.66
7/1/2032		4.18	23,307.68	23,307.68						
1/1/2033	516,300	4.18	23,307.68	539,607.68	562,915.36			562,915.36		-562,915.36
7/1/2033		4.18	12,517.01	12,517.01						
1/1/2034	537,900	4.18	12,517.01	550,417.01	562,934.02			562,934.02		-562,934.02
7/1/2034		4.18	1,274.90	1,274.90						
1/1/2035	61,000	4.18	1,274.90	62,274.90	63,549.80			63,549.80		-63,549.80
Totals	10,000,000		2,642,715.22	12,642,715.22	12,642,715.22		210,650.00	12,432,065.22	9,835,804.29	
	10,000,000		2,642,715.22	12,642,715.22	12,642,715.22		210,650.00	12,432,065.22	9,835,804.29	

SEE IMPROVEMENT
NOTE AT BOTTOM

Note: Interest expense reflected on this schedule assumes the full \$10million was drawn at closing. Because there is approximately \$2.1 million that will be drawn down as required to fund projects, actual interest expense will be lower than reflected up until the interest payment due 7/1/19.

College Township Water Authority
 Top 10 Customers - Calendar Year 2016

Customer	Service Address	Billed Gallons	Usage	Fire Service	Gallons	Revenue	REVENUE
Centre Concrete Company	2280 E. College Ave	7,340,000	\$ 49,178	\$ 738			\$ 49,916
BVRE LP	1329 Dreibelbis St	5,784,000	\$ 38,753				\$ 38,753
Giant Food Stores	2222 E. College Ave	3,605,000	\$ 24,154	\$ 5,937			\$ 30,090
Hampton Inn	1101 E. College Ave	3,474,000	\$ 23,276	\$ 3,171			\$ 26,447
The Green Hotel	1221 E. College Ave	3,248,000	\$ 21,762	\$ 2,968			\$ 24,729
Decibel Partnership	60 Decibel Road	3,128,000	\$ 20,958	\$ 2,968			\$ 23,925
Channel Communications	2820 E. College Ave	2,707,000	\$ 18,137	\$ 5,937			\$ 24,074
Wal-Mart Stores	373 Benner Pike	2,126,000	\$ 14,244	\$ 7,154			\$ 21,399
W&W Realty	1234 E. College Ave	1,697,000	\$ 11,370				\$ 11,370
Centre Region Parks & Rec	211 Scholl Street	1,688,000	\$ 11,310				\$ 11,310

College Township Water Authority
 Gallons Produced, Billed and Unaccounted

	Year Ended - December 31			
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Gallons Produced	292,489,000	293,615,000	292,382,000	273,193,100
Gallons Billed				
SCI-Rockview Penitentiary	50,000,000	50,000,000	50,000,000	50,000,000
UAJA-Beneficial Reuse	11,694,000	14,156,000	12,482,000	13,094,000
All Other	185,091,000	186,738,000	179,181,000	185,015,000
	246,785,000	250,894,000	241,663,000	248,109,000
Unaccounted Gallons *	12.40%	9.30%	11.90%	7.10%

* 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 and Rate History

Year Ended - December 31

	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u> (Projected)	<u>2018</u> (Budgeted)
WATER SYSTEM REVENUE							
Metered Water Sales							
SCI-Rockview Penitentiary	131,708	136,125	136,500	18,261	-	-	-
UAJA-Beneficial Reuse	62,446	78,424	67,938	69,905	69,407	70,072	62,855
All Other							
Residential	708,433	751,799	722,125	816,931	848,849	837,500	810,700
Commercial	294,954	302,269	283,528	325,376	329,873	328,300	308,200
Industrial	71,705	72,095	53,253	70,739	79,172	80,400	73,700
Other Public	20,193	27,831	21,837	27,615	24,364	26,800	18,425
Total metered	<u>1,289,439</u>	<u>1,368,543</u>	<u>1,285,181</u>	<u>1,328,827</u>	<u>1,351,665</u>	<u>1,343,072</u>	<u>1,273,880</u>
Other Water System Revenues							
Fire Services	240,069	242,678	244,335	268,101	269,814	270,797	273,130
Other							
Penalties	14,506	16,497	16,006	15,285	14,894	15,200	15,600
Connection Fees	101,456	23,874	21,081	27,670	46,912	10,000	25,000
Other	2,734	20,766	5,078	5,730	3,948	4,300	4,500
Total Other	<u>358,765</u>	<u>303,815</u>	<u>286,500</u>	<u>316,786</u>	<u>335,568</u>	<u>300,297</u>	<u>318,230</u>
TOTAL WATER SYSTEM REVENUE	<u><u>1,648,204</u></u>	<u><u>1,672,358</u></u>	<u><u>1,571,681</u></u>	<u><u>1,645,613</u></u>	<u><u>1,687,233</u></u>	<u><u>1,643,369</u></u>	<u><u>1,592,110</u></u>

RATE HISTORY (Per Thousand Gallons)

Rockview	\$ 2.64	\$ 2.73	\$ 2.73	n/a	n/a	n/a	
Beneficial Reuse	\$ 5.34	\$ 5.54	\$ 5.54	\$ 5.91	\$ 6.16	\$ 6.16	6.14
Regular	\$ 5.90	\$ 6.10	\$ 6.10	\$ 6.40	\$ 6.70	\$ 6.70	6.70

Note: UAJA settlement over beneficial use rate resulted in a lower usage rate beginning in 2015

	Year Ended - December 31				
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
<u>Other Key Statistics</u>					
Connections Served					
Domestic	2,380	2,406	2,425	2,435	2,452
Commercial	321	323	306	308	306
Industrial	16	16	14	14	14
Institutional	13	14	16	15	15
Bulk Sales to other PWS	2	3	3	3	3
Other	-	-	-	-	-
	<u>2,732</u>	<u>2,762</u>	<u>2,764</u>	<u>2,775</u>	<u>2,790</u>
Metered Water Use (GPD)					
Domestic	328,069	337,660	328,012	333,770	346,158
Commercial	136,591	135,760	128,787	132,937	134,521
Industrial	33,206	32,380	24,189	28,901	32,286
Institutional	9,351	12,500	9,919	11,282	9,936
Bulk Sales to other PWS	37,552	48,095	35,397	11,890	10,306
Unaccounted	254,381	238,027	274,745	229,691	209,984
Other	-	-	-	-	-
	<u>799,150</u>	<u>804,422</u>	<u>801,049</u>	<u>748,471</u>	<u>743,191</u>
% of Population Served	62.47%	62.47%	63.86%	64.48%	64.48%

Note: 2011 & 2014 deficit was corrected with the 2012 budget which increased rates.

(1) Source: Annual Water Supply Report

(2) Source: Audit Reports

College Township Water Authority 2018 Budget
Existing Equipment Replacement Fund Projection

PURCHASE YEAR	DISCRIPTION OF EQUIPMENT	PURCHASE PRICE	EXPECTED LIFE	YEAR TO REPLACE	REPLACEMENT PRICE	ANNUAL REVENUE NEEDED
MAINTENANCE VEHICLES:						
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
2015	2015 FORD F150 #72	\$30,600	10	2025	\$34,000	\$3,400
	TOTALS:	\$97,375			\$106,000	\$10,600
OFFICE AND STAFF VEHICLES:						
	TOTALS:	\$0			\$0	\$0
OFF ROAD EQUIPMENT:						
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
	TOTALS:	\$109,900			\$123,000	\$8,200

College Township Water Authority 2018 Budget
Existing Equipment Replacement Fund Projection

PURCHASE YEAR	DISCRIPTION OF EQUIPMENT	PURCHASE PRICE	EXPECTED LIFE	YEAR TO REPLACE	REPLACEMENT PRICE	ANNUAL REVENUE NEEDED
TOOLS & ATTACHMENTS:						
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	25	2022	\$1,000	\$40
1997	1997 SCHONSTEDT METAL DETECTOR #2	\$875	25	2022	\$1,000	\$40
1997	1997 FORD TAPPING TOOL	\$800	25	2022	\$950	\$38
1998	1998 FIRE HYDRANT METER	\$600	25	2023	\$750	\$30
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 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	10	2020	\$4,500	\$450
2011	2011 STIHL MULTI PURPOSE SAW TS 800	\$1,125	8	2019	\$1,300	\$163
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
2015	2015 GAS DETECTOR MAX XT II	\$875	10	2025	\$950	\$95
2016	2015 STIHL MP SAW MODEL TS 420	\$1,005	8	2024	\$1,200	\$150
2017	2017 CATERPILLAR 50 KW GENERATOR	\$25,000	20	2037	\$30,000	\$1,500
2017	2017 CATERPILLAR 150 KW GENERATOR	\$56,400	20	2037	\$70,000	\$3,500
TOTALS:		\$123,265			\$149,550	\$8,011
LAWN & GROUNDS TOOLS:						
2013	POULAN LAWN MOWER	\$200	8	2021	\$250	\$31
TOTALS:		\$200			\$250	\$31
GRAND TOTALS:		\$330,740			\$378,800	\$26,842

Year To Replace = Purchase Year + Expected Life

Annual Reserve = (Replacement Price - 10% of Purchase Price)/Expected Life