

2022 BUDGET – COLLEGE TOWNSHIP WATER AUTHORITY



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OPERATING BUDGET SUMMARY

**COLLEGE TOWNSHIP WATER AUTHORITY
YEAR 2022 OPERATING BUDGET SUMMARY**

OPERATING BUDGET SUMMARY

	2014 AUDITED	2015 AUDITED	2016 AUDITED	2017 AUDITED	2018 AUDITED	2019 AUDITED	2020 AUDITED	2021		2022
								BUDGET	EXPECTED	PROPOSED
OPERATING INCOME										
Water System Revenues	1,571,681	1,645,614	1,687,234	1,650,852	1,701,274	1,689,745	1,707,256	1,743,514	1,651,600	1,713,703 (a)
OPERATING EXPENSES										
Purification and Pumping	94,433	94,439	99,054	120,315	122,243	135,507	130,669	132,430	104,873	134,045
Distribution System	234,987	230,687	269,691	249,636	273,525	253,208	306,509	308,664	353,770	325,309
General Expense	486,995	467,604	444,207	438,163	495,583	543,750	546,103	535,129	562,664	550,533
TOTAL OPERATING EXPENSES	816,415	792,730	812,952	808,114	891,351	932,465	983,281	976,223	1,021,307	1,009,887 (b)
OPERATING MARGIN	755,266	852,884	874,282	842,738	809,923	757,280	723,975	767,291	630,293	703,816
NON-OPERATING INCOME (EXPENSE)	8,679	8,384	1,857	21,885	22,027	30,850	19,153	15,000	12,100	6,000 (c)
INCOME BEFORE DEBT SERVICE	763,945	861,268	876,139	864,623	831,950	788,130	743,128	782,291	642,393	709,816
LESS: Debt Service Requirement										613,714 (d)
AVAILABLE FOR CAPITAL, CONTINGENCIES AND RESERVE										<u>96,102</u>

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	1,713,703 (a)
Investment Income	6,000 (c)
	<u>1,719,703</u>
Administrative and operating expenses	1,009,887 (b)
Debt Service	613,714 (d)
10% of Debt Service	61,371
	<u>1,684,972</u>
Excess Coverage	<u><u>34,731</u></u>

OPERATING INCOME

OPERATING INCOME

	2014 AUDITED	2015 AUDITED	2016 AUDITED	2017 AUDITED	2018 AUDITED	2019 AUDITED	2020 AUDITED	2021 BUDGET	2021 EXPECTED	2022 PROPOSED
<u>WATER SYSTEM REVENUES</u>										
METERED WATER REVENUES										
350.110 Metered Water Revenues - Residential	722,125	816,931	848,850	795,855	802,614	819,310	912,107	910,000	870,000	910,000
350.120 Metered Water Revenues - Commercial	283,528	325,376	329,873	304,294	311,310	323,348	267,048	266,000	260,000	273,000
350.130 Metered Water Revenues - Industrial	53,253	70,739	79,172	72,643	61,122	72,893	93,187	92,400	83,000	84,000
350.140 Metered Water Revenues - Other Public	21,837	27,615	24,364	16,587	14,562	24,427	23,991	23,100	24,000	23,800
350.141 Metered Water Revenues - SCI Rockview	136,500	18,261	0	0	0	0	0	0	0	0
350.142 Metered Water Revenues - UAJA BRW	67,938	69,905	69,407	62,827	62,605	63,289	56,087	59,529	56,000	59,773
Subtotal	1,285,181	1,328,827	1,351,666	1,252,206	1,252,213	1,303,267	1,352,420	1,351,029	1,293,000	1,350,573
FIRE SERVICES										
360.405 Fire Services - CTWA Hydrants	86,531	94,579	95,290	96,102	97,116	99,247	101,480	101,906	102,000	103,530
360.410 Fire Services - Private Hydrants	4,681	5,725	6,264	5,280	7,311	5,725	5,911	6,102	6,100	6,100
360.420 Fire Services - Sprinkler Fire Lines	153,123	167,796	168,260	171,110	170,365	172,733	177,337	182,577	181,000	184,000
Subtotal	244,335	268,100	269,814	272,492	274,792	277,706	284,728	290,585	289,100	293,630
OTHER WATER RELATED REVENUES										
370.300 Penalties	16,006	15,285	14,894	14,490	15,454	14,552	16,650	16,000	14,500	14,500
370.500 Water Main Connection Fees	21,081	27,671	46,912	89,696	144,748	77,303	37,518	70,000	40,000	40,000
370.515 Meter Depreciation Charge	0	0	0	0	11,298	11,376	11,401	11,400	11,400	11,400
370.000 Miscellaneous	5,078	5,731	3,948	21,968	2,769	5,542	4,539	4,500	3,600	3,600
Subtotal	42,165	48,687	65,754	126,154	174,269	108,773	70,108	101,900	69,500	69,500
TOTAL WATER SYSTEM REVENUES	1,571,681	1,645,614	1,687,234	1,650,852	1,701,274	1,689,745	1,707,256	1,743,514	1,651,600	1,713,703

OPERATING INCOME

METERED WATER REVENUE

Effective January 1, 2022, water consumption is proposed to be billed to the majority of its customers for each meter at \$7.00 per 1,000 gallons consumed. This rate represents a 0% increase over last year's rate of \$7.00.

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. The interconnection was terminated.

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 2022 will be \$6.31 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 2022, along with the estimated total billed usage for those customer classes, is as shown in the following table:

OPERATING INCOME

<u>CUSTOMER CLASS</u>	<u>NUMBER</u>	<u>BILLING USAGE (GALLONS)</u>	<u>REVENUE</u>
Residential	2,502	130,000,000	\$910,000
Commercial	331	39,000,000	273,000
Industrial	13	12,000,000	84,000
Other Public	<u>14</u>	<u>3,400,000</u>	<u>23,800</u>
	2,860	184,400,000	\$ 1,290,800
UAJA – Beneficial Reuse			
Cintas	1	6,250,000	\$39,438
Redline Speedshine	1	5,500,000	19,250
Best Western Motel	<u>1</u>	<u>310,000</u>	<u>1,085</u>
	<u>3</u>	<u>12,060,000</u>	<u>\$59,773</u>
TOTAL	<u>2,863</u>	<u>196,460,000</u>	<u>\$ 1,350,573</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 2022:

<u>HYDRANTS</u>	<u>NUMBER</u>	<u>ANNUAL CHARGE</u>	<u>REVENUE</u>
Hydrants – Authority owned and maintained	255	\$ 406	<u>\$103,530</u>
Hydrants – Privately owned and maintained	18	\$ 339	<u>\$ 6,102</u>
<u>STANDBY FIRE LINES</u>			
Sprinkler – 4” fire service	24	\$ 1,484	\$35,616
Sprinkler – 6” fire service	24	\$ 2,968	71,232
Sprinkler – 8” fire service	<u>13</u>	<u>\$ 5,937</u>	<u>77,181</u>
	61		<u>\$184,029</u>

OPERATING INCOME

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.

WATER METER DEPRECIATION 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.

PURIFICATION AND PUMPING EXPENSES

PURIFICATION AND PUMPING EXPENSES

	2014 AUDITED	2015 AUDITED	2016 AUDITED	2017 AUDITED	2018 AUDITED	2019 AUDITED	2020 AUDITED	2021 BUDGET	2021 EXPECTED	2022 PROPOSED
<u>PURIFICATION EXPENSE</u>										
405.202 Chemical Purchases	21,056	20,594	18,469	26,667	27,816	33,276	24,031	29,500	24,500	29,500
405.204 Water Analysis	13,037	8,758	7,964	13,311	12,538	14,324	18,029	18,000	9,200	18,000
405.206 Structure Maintenance - Mt Nittany Contact T:	0	0	0	0	0	0	0	0	0	0
TOTAL PURIFICATION	34,093	29,352	26,433	39,978	40,354	47,600	42,060	47,500	33,700	47,500
<u>PUMPING EXPENSE</u>										
PUDDINTOWN STATION										
410.311 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0
410.312 Power Purchased	0	0	74	99	104	105	119	120	110	120
410.313 Equipment Maintenance	0	0	0	0	0	0	0	0	0	0
410.314 Structure Maintenance	204	204	705	0	13	176	0	1,000	50	1,000
Subtotal	204	204	779	99	117	281	119	1,120	160	1,120
MATILDA BOOSTER STATION										
415.321 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0
415.322 Power Purchased	1,251	1,667	1,655	1,732	2,111	1,828	2,358	2,500	2,275	2,500
415.323 Equipment Maintenance	0	0	0	228	62	0	812	500	600	500
415.324 Structure Maintenance	0	0	0	244	0	0	0	100	0	100
Subtotal	1,251	1,667	1,655	2,204	2,173	1,828	3,170	3,100	2,875	3,100
LEMONT BOOSTER STATION										
420.331 Operating Supplies and Expense	0	0	0	0	0	0	59	0	150	150
420.332 Power Purchased	2,311	2,097	2,903	2,197	3,493	6,275	2,882	3,500	2,900	3,500
420.333 Equipment Maintenance	1	0	0	0	1,629	25	941	500	725	500
420.334 Structure Maintenance	342	622	193	2,898	2,457	1,522	0	2,000	0	2,000
Subtotal	2,654	2,719	3,096	5,095	7,579	7,822	3,882	6,000	3,775	6,150
SPRING CREEK PARK WELL										
425.361 Operating Supplies and Expense	0	0	0	0	63	0	255	0	600	600
425.362 Power Purchased	21,318	23,934	25,175	22,510	25,032	32,242	25,175	30,000	22,500	30,000
425.363 Equipment Maintenance	427	2,014	3,768	8,407	1,265	1,361	10,314	4,000	4,000	4,000
425.364 Structure Maintenance	524	208	728	212	1,576	237	7,641	1,000	378	1,000
425.365 Well Monitoring Costs	0	0	0	0	0	0	0	0	0	0
425.367 Easement Costs	5,610	5,610	5,610	5,610	5,610	5,610	5,610	5,610	5,610	6,100
Subtotal	27,879	31,766	35,281	36,739	33,546	39,449	48,995	40,610	33,088	41,700

PURIFICATION AND PUMPING EXPENSES

	2014 AUDITED	2015 AUDITED	2016 AUDITED	2017 AUDITED	2018 AUDITED	2019 AUDITED	2020 AUDITED	2021		2022
								BUDGET	EXPECTED	PROPOSED
ROGERS WELL										
430.371 Operating Supplies and Expense	0	0	0	0	0	17		0	25	100
430.372 Power Purchased	24,575	24,561	25,211	29,245	30,015	23,334	26,808	29,000	26,500	29,000
430.373 Equipment Maintenance	911	3,350	5,009	3,838	1,211	121	3,630	2,500	3,100	2,500
430.374 Structure Maintenance	0	0	539	1,694	0	0	160	600	0	600
430.375 Well Monitoring Costs	2,700	0	0	146	6,200	12,779	769	800	775	800
Subtotal	28,186	27,911	30,759	34,923	37,426	36,251	31,367	32,900	30,400	33,000
OAK HALL WELL										
435.391 Operating Supplies and Expense	65	281	16	21	11	1,087	2	0	275	275
435.392 Power Purchased	35	539	334	560	681	710	699	700	600	700
435.393 Equipment Maintenance	66	0	625	522	338	412	236	300	0	300
435.394 Structure Maintenance	0	0	76	174	18	47	0	0	0	0
435.395 Well Monitoring Costs	0	0	0	0	0	18	7	0	0	0
Subtotal	166	820	1,051	1,277	1,048	2,275	944	1,000	875	1,275
INTERCONNECTIONS - SCBWA ,PSU, and BELLEFONTE										
440.386 Purchased Water	0	0	0	0	0	0	0	100	0	100
440.388 Interconnection Maintenance	0	0	0	0	0	0	132	100	0	100
Subtotal	0	0	0	0	0	0	132	200	0	200
TOTAL PUMPING	60,340	65,087	72,621	80,337	81,889	87,907	88,609	84,930	71,173	86,545
TOTAL PURIFICATION AND PUMPING	94,433	94,439	99,054	120,315	122,243	135,507	130,669	132,430	104,873	134,045

PURIFICATION AND PUMPING EXPENSES

PURIFICATION

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

405.202 CHEMICAL PURCHASES

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

405.204 WATER ANALYSIS

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

405.206 STRUCTURE MAINTENANCE

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

PUMPING

PUDDINTOWN STATION

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

PURIFICATION AND PUMPING EXPENSES

410.311 OPERATING SUPPLIES AND EXPENSE

At this time, the Puddintown station is not operational.

410.312 POWER PURCHASED

This account covers the cost of electricity.

410.313 EQUIPMENT MAINTENANCE

At this time, the Puddintown station is not operational.

410.314 STRUCTURE MAINTENANCE

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

MATILDA BOOSTER STATION

415.321 OPERATING SUPPLIES AND EXPENSE

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

415.322 POWER PURCHASED

PURIFICATION AND PUMPING EXPENSES

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

415.323 EQUIPMENT MAINTENANCE

This account covers costs incurred in maintaining pumps, meters, and other equipment located at the facility. SCADA system components are considered to be equipment.

415.324 STRUCTURE MAINTENANCE

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

LEMONT BOOSTER STATION

420.331 OPERATING SUPPLIES AND EXPENSE

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

420.332 POWER PURCHASED

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

420.333 EQUIPMENT MAINTENANCE

PURIFICATION AND PUMPING EXPENSES

This account covers costs incurred in maintaining pumps, meters, and other equipment located at the facility. SCADA system components are considered to be equipment.

420.334 STRUCTURE MAINTENANCE

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

WATER SOURCE: SPRING CREEK PARK WELL

425.361 OPERATING SUPPLIES AND EXPENSE

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

425.362 POWER PURCHASED

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

425.363 EQUIPMENT MAINTENANCE

This account covers costs incurred in maintaining pumps, a turbidimeter, chlorine residual analyzer, chlorine feeds, and meters. SCADA system components are considered to be equipment.

425.364 STRUCTURE MAINTENANCE

PURIFICATION AND PUMPING EXPENSES

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

425.365 WELL MONITORING COST

This account consists primarily of costs incurred in conducting monitoring as required by DEP. The services of a hydrogeologist used for various purposes from time to time are charged to A/C #488.850 under the General Expenses category.

425.367 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

430.371 OPERATING SUPPLIES AND EXPENSE

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

430.372 POWER PURCHASED

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

PURIFICATION AND PUMPING EXPENSES

430.373 EQUIPMENT MAINTENANCE

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

430.374 STRUCTURE MAINTENANCE

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

430.375 WELL MONITORING COST

This account consists primarily of costs incurred in conducting monitoring as required by DEP. The services of a hydrogeologist used for various purposes from time to time are charged to A/C #488.850 under the General Expenses category.

WATER SOURCE: OAK HALL WELL (OH-19)

435.391 OPERATING SUPPLIES AND EXPENSE

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

435.392 POWER PURCHASED

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

PURIFICATION AND PUMPING EXPENSES

435.393 EQUIPMENT MAINTENANCE

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

435.394 STRUCTURE MAINTENANCE

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

435.395 WELL MONITORING COST

This account consists primarily of costs incurred in conducting monitoring as required by DEP. The services of a hydrogeologist used for various purposes from time to time are charged to A/C #488.850 under the General Expenses category.

INTERCONNECTIONS – SCBWA AND PSU

440. 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.

440. 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

	2014	2015	2016	2017	2018	2019	2020	2021		2022
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
STORAGE-DALE ST RESERVOIR										
455.341 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0
455.342 Power Purchased	150	161	170	182	183	186	179	200	150	200
455.343 Equipment Maintenance	26	0	0	26	0	927	130	200	75	200
455.344 Structure Maintenance	3,761	8	0	12	0	45	0	200	0	200
Subtotal	3,937	169	170	220	183	1,159	309	600	225	600
STORAGE-STRUBLE RD TANK										
456.351 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0
456.352 Power Purchased	278	231	257	322	260	274	272	300	220	300
456.353 Equipment Maintenance	20	68	0	0	101	0	0	100	0	100
456.354 Structure Maintenance	0	0	0	19	62	909	943	300	0	300
Subtotal	298	299	257	341	423	1,183	1,215	700	220	700
MAINTENANCE-DISTRIBUTION SYSTEM										
460.475 Maintenance of Distribution / Trans Mains	23,887	18,323	56,404	17,317	20,339	10,305	12,909	15,000	32,000	20,000
460.490 Maintenance of Service Lines	14,911	12,835	8,249	17,825	11,464	7,964	26,218	8,250	5,000	8,250
460.495 Dumping Fees	1,890	1,079	998	2,951	2,520	1,743	354	1,500	1,500	1,500
460.510 Maintenance of Hydrants	821	39	3,190	1,091	4,182	2,738	497	750	775	750
460.530 Meter Supplies and Maintenance	891	2,571	3,125	628	4,213	4,713	4,770	4,250	8,300	5,250
460.532 PRV - Penn Hills	48	2	2,013	0	0	0	0	0	1,200	250
460.534 PRV - Independence Place	0	1,059	7,263	0	0	0	0	0	50	250
460.536 PRV - Oak Hall	812	72	2,775	0	0	0	0	0	2,000	250
460.537 PRV - Rockview North	0	738	10	9	0	0	0	0	0	250
460.538 PRV - Rockview South	214	147	0	0	0	0	0	0	0	250
460.539 PRV - Bellefonte Interconnect	0	0	0	0	0	0	0	0	0	0
460.541 PRV - Nittany Commons	0	0	0	0	0	0	0	0	1,000	250
Subtotal	43,474	36,865	84,027	39,821	42,718	27,463	44,748	29,750	51,825	37,250
GENERAL-DISTRIBUTION SYSTEM										
465.181 Contract Labor - College Twp Personnel	29,114	25,767	34,572	30,991	40,934	30,923	32,933	35,000	59,000	40,000
465.540 Contract Labor - Technicians	141,299	143,397	136,088	158,679	168,888	157,950	190,584	199,500	205,000	200,000
465.556 Leak Detection Services	0	0	0	0	0	0	0	500	0	500
465.575 R-O-W, Regulatory Compliance	1,191	1,418	1,412	1,370	1,206	11,934	15,786	15,250	12,500	15,250
465.648 Pa One Call Service	663	594	806	904	772	872	385	500	1,000	750
465.760 Small Tools and Minor Equipment	1,974	2,036	2,357	2,090	1,128	4,777	7,800	5,000	2,500	5,000
465.761 Repairs and Maintenance-Water Equip	13,033	20,142	10,002	15,220	17,273	16,947	12,628	21,364	21,500	24,759
465.762 Safety Equipment	4	0	0	0	0	0	121	500	0	500
Subtotal	187,278	193,354	185,237	209,254	230,201	223,404	260,237	277,614	301,500	286,759
TOTAL DISTRIBUTION SYSTEM	234,987	230,687	269,691	249,636	273,525	253,208	306,509	308,664	353,770	325,309

DISTRIBUTION SYSTEM EXPENSES

STORAGE – DALE STREET RESERVOIR

455.341 OPERATING SUPPLIES AND EXPENSE

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

455.342 POWER PURCHASED

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

455.343 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.

455.344 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

456.351 OPERATING SUPPLIES AND EXPENSE

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

DISTRIBUTION SYSTEM EXPENSES

456.352 POWER PURCHASED

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

456.353 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.

456.354 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

460.475 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

460.490 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.

460.495 DUMPING FEES

Excavated waste material from project and maintenance work is hauled to the CMJ Trucking & Construction fill site along Shiloh Road. The current dumping fee is \$35.00 per truck load. It is estimated for 2022 that 14 truckloads of waste material will be hauled to the site for a total cost of \$500. An additional \$1,000 is added for the rental of trucks to haul material to the Shiloh site from the temporary dumpsite at the Mt. Nittany Road shale pit area.

460.510 MAINTENANCE OF HYDRANTS

This item covers the cost incurred in maintaining, including painting fire hydrants.

460.530 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.

460.532 PRV – PENN HILLS

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

DISTRIBUTION SYSTEM EXPENSES

460.534 PRV – INDEPENDENCE PLACE

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

460.536 PRV – OAK HALL

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

460.537 PRV - ROCKVIEW

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

460.541 PRV – NITTANY COMMONS

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

GENERAL – DISTRIBUTION SYSTEM

465.181 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. Labor cost associated with capital projects is added to the cost of the project.

465.540 CONTRACT LABOR – TECHNICIANS

DISTRIBUTION SYSTEM EXPENSES

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. Labor cost associated with capital projects is added to the cost of the project.

465.556 LEAK DETECTION SERVICES

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

465.575 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. Included in the budget amount is a Safe Water Drinking Fee (SDW) in the amount of \$10,000. This annual fee is assessed by the PA DEP and is based on population served.

465.648 PA ONE CALL SERVICE

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

465.760 SMALL TOOLS AND MINOR EQUIPMENT

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

465.761 REPAIRS AND MAINTENANCE – WATER EQUIPMENT

DISTRIBUTION SYSTEM EXPENSES

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 2022, the following costs are anticipated:

Hach Company Service Agreement - \$6,249

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. 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 - \$5,760

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 for any unexpected repairs.

Tri-Star Agreement	\$3,760
Repairs/Parts	<u>\$2,000</u>
	\$5,760

De Nora Service and Maintenance Plan - \$7,250

De Nora Water Technologies, LLC has previously provided annual inspection and preventative maintenance on the Chlorination System. Each year, services include inspection and general maintenance as well as an estimate for replacement parts.

DISTRIBUTION SYSTEM EXPENSES

De Nora Service and Maintenance Plan	\$5,750
Repairs/Parts	<u>\$1,500</u>
	\$7,250

Cleveland Brothers Generator Maintenance Plan - \$1,500

This service and maintenance plan provides one visit per calendar year to perform inspections and preventative maintenance on the trailer mounted standby generator and the Lemont Booster Station standby generator.

Pryze Chemical Feed Pump Service - \$4,000

This agreement covers the maintenance of the chemical feed pumps at Spring Creek Well, Rogers Well, and Oak Hall Well.

465.762 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 2022 that will serve to increase safety in the work place.

GENERAL EXPENSES

GENERAL EXPENSES

	2014	2015	2016	2017	2018	2019	2020	2021		2022
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
OFFICE										
482.600 Contract Labor - Billing and Cust Serv	55,398	54,168	55,600	57,875	60,270	62,894	67,930	69,000	66,000	68,000
482.605 Contract Labor - College Twp Personnel	13,735	14,139	11,544	14,205	16,378	15,881	11,983	14,000	10,900	12,000
482.610 Contract Labor - Meter Reading	9,868	4,694	2,376	2,599	2,308	2,487	0	0	0	0
482.612 Professional Employment Services	0	0	0	8	0	0	0	0	0	0
482.620 Office and Other Supplies	2,562	2,810	1,498	2,321	1,829	1,661	2,273	2,250	1,600	2,250
482.621 Computer and Software Maintenance	4,568	6,471	4,888	4,775	0	149	6,069	0	0	0
482.625 Postage and Freight Charges	5,400	5,441	5,492	5,123	5,936	5,372	5,657	5,750	6,750	6,500
482.641 Advertising	286	1,013	372	1,222	227	1,923	1,691	1,500	650	1,500
482.643 IT Services/Support/Software	1,778	2,641	2,330	2,960	9,075	4,454	2,641	8,750	8,750	8,750
482.645 Telephone	2,134	1,885	937	812	1,027	1,048	972	1,000	1,100	1,100
482.647 Cellular Phone	939	575	610	692	588	513	728	650	500	650
482.655 Uncollectible Accounts	27,603	3,478	-1,145	-252	-1,087	834	1,734	0	0	0
Subtotal	124,271	97,315	84,502	92,340	96,551	97,217	101,678	102,900	96,250	100,750
GENERAL PROPERTY										
485.702 Vehicle Repairs and Maintenance	3,969	3,300	1,479	1,129	8,268	3,732	4,819	3,750	4,200	4,000
485.731 Vehicle Fuels: Gas, Diesel, Oil, Etc	10,716	6,761	5,370	5,199	6,627	7,255	5,457	5,750	7,300	7,750
485.735 Repairs of Tools and Machinery	483	416	732	2,760	657	1,147	1,024	1,000	850	1,000
485.740 Materials and Supplies	3,026	945	1,588	305	2,487	8,473	6,116	4,000	8,100	6,000
485.765 Radio/Paging Equipment and Maint	0	152	0	0	68	0	0	0	0	0
485.770 Rental of Equipment	5,955	8,490	3,349	4,165	4,903	6,615	5,460	5,500	13,750	7,500
Subtotal	24,149	20,064	12,518	13,558	23,010	27,222	22,876	20,000	34,200	26,250
ENGINEERING AND PROFESSIONAL										
488.810 Engineering - Consulting	32,470	32,616	48,009	31,138	49,875	34,974	58,718	36,000	56,000	40,000
488.818 Engineering - Inspection	4,387	0	0	0	0	0	0	0	0	0
488.840 Accounting and Audit	18,187	16,000	13,450	14,545	12,250	15,900	16,330	16,000	14,750	16,000
488.845 Legal	7,722	7,261	5,899	6,933	5,369	4,478	4,797	6,500	10,750	7,000
488.850 Professional - Other	1,200	1,914	3,482	4,117	9,114	14,989	285	6,000	5,500	6,000
Subtotal	63,966	57,791	70,840	56,733	76,608	70,341	80,130	64,500	87,000	69,000

GENERAL EXPENSES

	2014	2015	2016	2017	2018	2019	2020	2021		2022
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
TAXES, BENEFITS, AND INSURANCE										
491.615 Training - Distribution and Office	1,465	1,725	1,275	1,125	1,020	547	0	600	315	600
491.618 Conventions	0	0	0	0	0	675	1,980	2,100	0	2,100
491.738 Clothing and Uniforms	2,450	2,434	2,628	1,710	1,962	2,053	1,614	1,750	1,400	1,750
491.802 Dues, Subscriptions, and Memberships	2,493	2,499	2,705	2,711	2,717	2,723	2,729	2,850	2,735	2,850
491.855 Insurance Policies	27,546	16,206	19,285	16,545	17,691	19,318	18,530	19,450	18,293	19,450
491.858 Workers' Compensation Insurance	10,651	12,128	11,113	9,817	9,134	10,251	6,109	4,850	6,047	6,100
491.860 Pension Expense	16,300	16,780	16,213	14,068	16,638	17,300	20,537	22,000	21,100	21,448
491.865 Bond	152	141	164	164	164	170	170	175	170	175
491.870 Medical / Dental / Vision Insurance	100,158	110,066	104,515	110,742	125,297	164,963	154,195	157,000	156,000	157,000
491.871 Health Insurance Opt-Out Program	3,796	4,189	4,377	2,867	2,234	192	0	0	0	0
491.875 Group Term Life/Disability Insurance	3,079	3,208	3,138	3,768	3,631	3,167	3,280	3,450	3,300	3,700
491.880 Payroll Taxes - FICA	18,582	18,822	18,145	19,705	21,790	21,660	21,968	21,000	23,750	24,000
491.881 Unemployment Compensation Insurance	4,292	3,246	2,218	832	1,195	1,248	2,115	2,400	2,300	1,200
Subtotal	190,964	191,444	185,776	184,054	203,473	244,269	233,227	237,625	235,410	240,373
MISCELLANEOUS										
494.885 Operational and Management Agreement	83,556	85,872	88,560	91,392	94,212	104,616	108,192	109,704	109,704	113,760
494.470 Miscellaneous	89	15,118	2,011	86	1,729	86	0	300	100	300
494.460 Board, Staff, and Professional Meetings	0	0	0	0	0	0	0	100	0	100
497.895 Loss (Gain) on Disposal of Assets	0	-	-	-	-	-	0	0	0	0
Subtotal	83,645	100,990	90,571	91,478	95,941	104,702	108,192	110,104	109,804	114,160
TOTAL GENERAL EXPENSE	486,995	467,604	444,207	438,163	495,583	543,750	546,103	535,129	562,664	550,533

GENERAL EXPENSES

OFFICE

482.600 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 Tax & Finance Office Assistant's wages. In prior years, prior to reassignment of EIT collection to the Centre Tax Agency, a larger percentage of the Tax & Finance Office Assistant's wages were allocated to the tax department.

482.605 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.

482.610 CONTRACT LABOR – METER READER

This line item is being suspended for 2022.

482.612 PROFESSIONAL EMPLOYMENT SERVICES

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

GENERAL EXPENSES

482.620 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.

482.621 COMPUTER AND SOFTWARE MAINTENANCE

Please refer to the narrative for 482.643.

482.625 POSTAGE AND SHIPPING CHARGES

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

482.641 ADVERTISING

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

482.643 IT SERVICE / SUPPORT / SOFTWARE

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

482.645 TELEPHONE

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

GENERAL EXPENSES

482.647 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.

482.655 UNCOLLECTIBLE ACCOUNTS

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

GENERAL PROPERTY

485.702 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.

485.731 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.

485.735 REPAIRS OF TOOLS AND MACHINERY

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

GENERAL EXPENSES

485.740 MATERIALS AND SUPPLIES

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

485.765 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.

485.770 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. Rental cost associated with projects is included in the cost of the project.

ENGINEERING AND PROFESSIONAL

488.810 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.

488.840 ACCOUNTING AND AUDIT

Outside auditor services in auditing the Authority's 2021 financial statements and preparing the 2021 Annual Report of Municipal Authorities is expected to cost \$13,500. An estimate of \$2,500 is included for professional consultation on other financial issues.

488.845 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 there will be an outlay of approximately \$1,000, representing the Authority's share of the cost of maintaining a web site developed by the Water Resources Monitoring Committee regarding source water education.

TAXES, BENEFITS, AND INSURANCE

GENERAL EXPENSES

491.615 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.

491.618 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. As a result of COVID-19, the annual convention was cancelled and the crew who normally attend classes to retain their certifications were required to find other classes. This caused an increase in spending of this line item.

491.738 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.

491.802 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.

GENERAL EXPENSES

491.855 INSURANCE POLICIES

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.

491.858 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.

491.860 PENSION EXPENSE

This line item covers the Authority's share of the cost of providing a pension for the Township employees. The amount budgeted is based on the Minimum Municipal Obligation (MMO) Certification that is completed in September, annually.

491.865 BOND

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

491.870 MEDICAL/ DENTAL/VISION INSURANCE

GENERAL EXPENSES

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 2015 - 2022 prior to employee contributions are as follows:

	Health		Dental	
	<u>Single</u>	<u>Family</u>	<u>Single</u>	<u>Family</u>
2022	1,185.88	2,866.51	29.35	94.39
2021	1,192.17	2,810.14	28.09	90.33
2020	1,167.62	2,745.41	28.09	90.33
2019	1,251.99	2,923.91	27.40	88.13
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

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

491.871 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

GENERAL EXPENSES

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.

491.875 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.

491.880 PAYROLL TAXES – FICA

This item covers the Authority's share of the social security and Medicare taxes on employee wages. The 2022 social security rate is 6.2% of gross earnings up to \$147,000 per employee. The 2022 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.

491.881 UNEMPLOYMENT COMPENSATION INSURANCE

This covers the Authority's share of unemployment insurance, which is calculated to be 2.05% of an employee's first \$10,000 of earnings.

MISCELLANEOUS

494.460 BOARD, STAFF AND PROFESSIONAL MEETINGS

GENERAL EXPENSES

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

494.470 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.

494.885 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 \$9,480 per month.

NON-OPERATING INCOME (EXPENSE)

NON-OPERATING INCOME (EXPENSE)

	2014	2015	2016	2017	2018	2019	2020	2021		2022
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
NON-OPERATING INCOME (EXPENSE)										
341.000 Investment Income	8,679	8,384	1,857	21,885	22,027	30,850	19,153	15,000	12,100	6,000
	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
NET NON-OPERATING INCOME (EXP)	8,679	8,384	1,857	21,885	22,027	30,850	19,153	15,000	12,100	6,000

CAPITAL BUDGET

College Township Water Authority
 PLANNED CONSTRUCTION PROJECTS AND EQUIPMENT/CAPITAL ASSET PURCHASES FOR 2022

	Investment \$	PLANNED FUNDING		
		Current Operations	PLGIT Capital Reserve	Existing / New Issued Debt
<u>Water System Upgrade Construction Projects</u>				
Pike Street (Final Close Out)	\$ 10,000	\$ -	\$ 10,000	\$ -
Penn Hills PRV and Vault	\$ 85,000	\$ -	\$ 85,000	\$ -
Nittany Commons PRV	\$ 25,000	\$ -	\$ 25,000	\$ -
Matilda Avenue Interconnect	\$ 135,000	\$ -	\$ 135,000	\$ -
Oak Hall Well Development Continuation	\$ 720,000	\$ -	\$ -	\$ 720,000
Oak Hall Transmission Mains	\$ 605,000	\$ -	\$ -	\$ 605,000
College Ave Crossing at Houserville/Pike	\$ 28,000	\$ -	\$ 28,000	\$ -
<u>Equipment and Capital Purchases</u>				
Mall Master Meter	\$ 60,000	\$ -	\$ 60,000	\$ -
Radio-Read Meter Program	\$ 37,500	\$ 37,500	\$ -	\$ -
SCADA Backup Units	\$ 16,500	\$ -	\$ 16,500	\$ -
Cross Connection / Backflow Prevention Program	\$ 6,375	\$ -	\$ 6,375	\$ -
Commercial Meter Replacement Program	\$ 23,000	\$ -	\$ 23,000	\$ -
Struble Tank Inspection	\$ 5,000	\$ -	\$ 5,000	\$ -
Flusing Station at Benner Pike	\$ 3,500	\$ -	\$ 3,500	\$ -
Replace 2006 Bobcat Track Excavator	\$ 57,000	\$ 57,000	\$ -	\$ -
Purchase Muller Tapping Machine	\$ 4,000	\$ -	\$ 4,000	\$ -
Purchas Head Shaker Compaction Tool	\$ 10,000	\$ -	\$ 10,000	\$ -
Replace 1997 Metal Detector	\$ 1,600	\$ -	\$ 1,600	\$ -
Purchase Data Loggers for Leak Detection	\$ 10,000	\$ -	\$ 10,000	\$ -
Replace Fire Hydrant Flow Test Kit	\$ 1,800	\$ -	\$ 1,800	\$ -
TOTALS	\$ 1,844,275	\$ 94,500	\$ 424,775	\$ 1,325,000

Estimated Available Project Funds as of 1/1/22

Capital Reserve held in PLGIT Accounts @1/1/22	\$ 1,040,000
Drawdown Loan Remaining @ 1/1/22 - use by 6/8/22	\$ 265,000
TOTAL	\$ 1,305,000

Estimated Available Project Funds Generated in 2022

Generated from Operations and 10% Coverage Requirement	\$ 155,000
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CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

2022 WATER SYSTEM PROJECTS

NOTE: Estimates of Project Costs include contract costs, in-house labor, engineering, and other “soft” costs.

PIKE STREET (FINAL CLOSE OUT) - \$10,000

Construction of the new water line on Pike Street between Dale Street and Branch/Elmwood/Boalsburg Rd was completed late in 2021. An allocation of \$10,000 is proposed for 2022 for any related close-out issues with the project.

PENN HILLS PRV AND VAULT (CONSTRUCTION) - \$85,000

Replace the vault, exterior bypass line and pressure reducing valves. Although bid in 2021, due to supply chain issues, construction will not be complete until 2022.

NITTANY COMMONS PRV - \$25,000

Originally installed in the mid-90s, both the primary and backup pressure reducing valves leak and need to be replaced.

MATILDA AVENUE INTERCONNECT - \$135,000

Includes the construction of approximately 1,000 feet of waterline to connect the two ends of Matilda Avenue to support the undersized 6” waterline in First Avenue. This project was agreed to as part of the Memorandum of Agreement with the Aspen Heights Land Development Project on Squirrel Drive.

OAK HALL WELL DEVELOPMENT CONTINUATION – \$720,000

This project is to bring a third water well on-line to support the water supply for the Authority’s system. The project includes the construction of a 1,250 gpm groundwater supply well, conversion of OH-19 into a booster station for Oak Hall Park, and construction of a second booster station to supply low pressure customers in Lemont. Preliminary engineering and permit applications were complete in 2021. The budget assumes the permits for these facilities are issued early in 2022, final design is completed, the project is bid and construction started (for budgeting purposes it is assumed that a third of the estimated construction is completed in 2022):

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

Final Design =	\$80,000
Bidding =	\$12,000
33% of estimated construction is completed in 2022 =	\$600,000
Engineering services during construction in 2022 =	<u>\$28,000</u>
Total estimated budget for 2022 =	\$720,000

OAK HALL TRANSMISSION MAINS CONTINUATION – \$605,000

This project is to install the 12-inch transmission main necessary to convey the Oak Hall Well water supply into the Authority's low pressure zone. The project include construction of approximately 7,500 lf. of 12-inch ductile iron waterline from the Oak Hall Well to an existing 12-inch main in Whitehill Street. Design and permit applications were complete in 2021. The budget assumes the permits for these waterlines are issued early in 2022, the project is bid and construction started (for budgeting purposes it is assumed that a half of the estimated construction is completed in 2022):

Bidding =	\$12,000
50% of estimated construction is completed in 2022 =	\$530,000
Lenape Lane Extension (bid as alternate) =	\$40,000
Engineering services during construction in 2022 =	<u>\$23,000</u>
Total estimated budget for 2022 =	\$605,000

COLLEGE AVE CROSSING AT HOUSERVILLE / PIKE - \$28,000

Design and permitting for replacement of the 8" waterline that crosses College Ave at Pike St / Houserville Road intersection. Construction is expected I 2023.

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

2022 EQUIPMENT AND CAPITAL ASSET PURCHASES

MALL MASTER METER - \$60,000

With Rural King and the proposed Casino site (previously Macy's) on separate meters, a Master Meter for the remainder of the mall property will eliminate the need to track in an excess of 30 meters and will rectify many years of unknowns. The proposed Master Meter for the Mall property would be located at the Rural King end of the property.

RADIO-READ METER PROGRAM - \$37,500

Staff will continue the conversion of residential meters to Radio-Read. In 2022, approximately 253 meters will be converted in Route 1004.

SCADA BACKUP UNITS - \$16,500

An evaluation of the existing SCADA units has revealed older models that cannot be used as a viable backup elsewhere in the system. Tri-Star has inventoried the units and provided a report that will be used to overhaul the system at the time OH-20 is brought on-line. Meanwhile, one upgrade is needed in 2022 to ensure there is a viable backup unit for Rogers Well. *An existing unit was able to be re-built for Spring Creek Well for \$1,657 that will suffice until OH-20 is constructed.*

CROSS CONNECTION CONTROL/BACKFLOW PREVENTION PROGRAM - \$6,375

This 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 completed.

In 2018, CTWA contracted with National Water Specialties Company (NAWSC) to administer a Backflow Prevention Inspection Program. The initial contract was for 2-years and provided an incremental 1-year automatic renewal. In 2021, CTWA will continue its contract with PAWSC for the Backflow Prevention Inspection Program for an estimated \$6,375.

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

COMMERCIAL METER REPLACEMENT PROGRAM - \$23,000

The next target group for the commercial meter replacement program will be 1-1/2" and smaller. This project will continue into 2022.

STRUBLE TANK INSPECTION - \$5,000

Records indicate that the last inspection of the Struble Tank was in 2005. An inspection of the tank is scheduled after the conclusion of PSU spring semester.

FLUSHING STATION AT BENNER PIKE - \$3,500

Without the connection at Rockview, there is a high probability of the finished water losing its residual chlorine and becoming stagnant. Therefore, a blow-off assembly is requested after the last customer on the line which will be used to keep the water fresh.

REPLACE 2006 BOBCAT TRACK EXCAVATOR - \$57,000

This equipment is used for most excavations for leak repairs and to install new lines. The existing excavator will be traded-in or sold at auction with an estimated value of \$16,000.

PURCHASE MULLER TAPPING MACHINE - \$4,000

The crew used a tapping machine to tap a new service into the system.

PURCHASE A 'HEAD-SHAKER' COMPACTION TOOL FOR BACKHOE - \$10,000

A request was made to purchase a compaction tool attachment for the backhoe which is used to adequately compact the backfill of a trench.

REPLACE 1997 METAL DETECTOR - \$1,600

The crew has noticed some inconsistencies with the metal detectors which are 24 years old. A request is made to replace one detector in 2022 (\$1,600) and the other in 2023 (\$1,600).

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

PURCHASE DATA LOGGERS FOR LEAK DETECTION - \$10,000

In 2021, Staff purchased 10 data loggers which are used to search for leaks within the system. The portable loggers allow staff to isolate an area and monitor flow for potential leak during the overnight hours which frees up staff to complete other tasks during the day. A request is made for an additional 10 units to expand the search for leaks.

REPLACE FIRE HYDRANT FLOW TEST KIT - \$1,800

The current test kit is 19 years old. A request is made to replace the unit.