

LEHIGH COUNTY AUTHORITY

December 15, 2014

BOARD MEETING AGENDA

- 1. Call to Order
- 2. Review of Agenda
 - Public Participation Sign-In Request
- 3. Executive Sessions
- 4. Approval of Minutes
 - November 10, 2014 Regular Meeting Minutes
- 5. Public Comments
- 6. Action / Discussion Items

FINANCE AND ADMINISTRATION

- 2015 Budget
- Water/Wastewater Rate Updates
- LCA Laboratory Water and Wastewater Analysis Services Contract

WATER

None

WASTEWATER

- Wynnewood Terrace Pump Station and Force Main Replacement
- 537 Plan Study
- 7. System Operations Overview
- 8. Staff Comments
- 9. Solicitor's Comments
- 10. Other Comments
- 11. Adjournment

JANUAR'	V MEET	LINICS
JANUAR	T IVICE I	IINGS

Workshop Meeting Board Meeting January 12 – 12:00 p.m. January 26 – 12:00 p.m.

PUBLIC PARTICIPATION POLICY

In accordance with Authority policy, members of the public shall record their name, address, and discussion item on the sign-in sheet at the start of each meeting; this information shall also be stated when addressing the meeting. Members of the public will be allowed 5 minutes to make comments/ask questions regarding non-agenda items, but time may be extended at the discretion of the Chair; comments/questions regarding agenda items may be addressed after the presentation of the agenda item. Members of the public may not request that specific items or language be included in the meeting minutes.

WORKSHOP MEETING MINUTES November 10, 2014

The Workshop Meeting of the Lehigh County Authority was called to order at 12:22 p.m., on Monday, November 10, 2014, Chairman Asa Hughes presiding. Other Members present at the commencement of the meeting were: Brian Nagle, Tom Muller, Richard Bohner, Norma Cusick, and Scott Bieber. Authority Staff present were Aurel Arndt, Liesel Adam, Bradford Landon, Ed Bielarski, Frank Leist, Dan Standish, Pat Mandes, John Parsons, and Lisa Miller.

PUBLIC COMMENTS

Barbara Haver-Mentzer was present to discuss and ask for relief of an ongoing bill dispute regarding her property at 40 S. Howard St., Allentown. The disputed amount reflects the excess water charges generated as a result of a water leak. The water leak was discovered when the bill for the period of 11/21/13 to 3/3/14 was opened in April 2014. When Ms. Haver-Mentzer and her plumber, Mr. Bradley, arrived at the property, they observed that the leak was due to a large nut on the meter connection and the set bolt to hold it in place were both loose. Once the bolt was tightened, the leak was stopped. An LCA technician was called and visited the property. The LCA technician reported that the meter was in an exterior coal bin with no insulation to protect the meter from freezing. It was also reported that there were no drains or other connections to the sewer system in the vicinity, so the water did not leak into the sewer system. Ms. Haver-Mentzer stated that a new water meter was installed by a City subcontractor on July 23, 2013. The customer experienced no leakage or other issues with the meter for at least six months after the installation. LCA has provided credits for the sewer flow charges for leaked water that did not enter the sewer system, including waivers of late payment charges. Pictures of the leak and the meter were shown to the Board. Ms. Adam explained the process of reading meters and how the high-usage bills are reviewed by LCA staff.

Some discussion followed regarding the Lease Agreement protocol for this type of situation. Mr. Arndt said that there is clear language in the Concession Agreement that all events and circumstances prior to August 8, 2013 are the City's responsibility and those after that date are LCA's responsibility. Also, it was considered an uncompleted work issue for which the City retained responsibility.

Ms. Haver-Mentzer said that they have been in contact with Mr. Lightner, Risk Manager for the City, and he is looking into it but advised them to seek an appeal thru the LCA Board. Mr. Hughes expressed his opinion that the Board can control the accruing penalties but Ms. Haver-Mentzer should continue to work with the City on resolution to the investigation on the leaking meter installation.

The Chairman called for an Executive Session at 1:05 PM. to discuss potential litigation, at which time the Mentzers and Mr. Bradley left the meeting. The Executive Session ended at 1:22 PM.

ACTION AND DISCUSSION ITEMS

Drug & Alcohol Policy

Ms. Adam presented the Drug & Alcohol Policy to the Board for review and approval. There was some discussion regarding the wording under the Policy.

On motion made by Mr. Muller, seconded by Mr. Nagle, the Board unanimously approved the Drug & Alcohol Policy with minor language amendments as presented during discussion (7-0).

2014 Audit and Zelenkofske Axelrod extension

Mr. Bielarski referred to the extension letter from the Authority's auditor, Zelenkofske Axelrod, LLC. He recommends approving the extension because of the smooth nature that Zelenkofske Axelrod has brought to the transition of the audit when including the Allentown Concession and their familiarity with the current financial state of the Authority. He does, however, recommend putting a full bid out next year for audit services.

On a motion made by Mr. Bohner, seconded by Ms. Cusick, the Board unanimously approved the extension for Zelenofske Axelrod LLC (7-0).

Budget Assumptions

Mr. Bielarski presented the 2015 Budget Assumptions that included projections thru 2017. He briefly explained estimates for the following categories: Staffing, Employee Benefits, Overall Operational Costs, and Internal Services. Some discussion followed.

Mr. Hughes announced that LCA received Certificates of Recognition from the Commonwealth of Pennsylvania House of Representatives, State Senate, and the Lehigh Valley Planning Commission for receiving the 2014 Lehigh Valley Planning Commission Award as a Multi-Municipal Cooperation Honoree for the Allentown Concession project.

Mr. Hughes turned the meeting over to Vice Chairman Muller and left the meeting at 1:55 PM.

City Signatory Flow Meter Evaluation

Ms. Mandes presented the Professional Services Authorization for Consulting Services by Arcadis in the amount of \$33,000.00, for the Board's consideration and approval. Some discussion followed.

On motion made by Mr. Bohner, seconded by Ms. Cusick, the Board unanimously approved the Professional Service Authorization in the amount of \$33,000.00 (6-0).

Allentown Division - Manhole Collars with Water Tight Frame and Covers

Mr. Leist gave an overview of the project to the Board. The project is to address part of the work necessary for the U.S. Environmental Protection Agency (EPA) Administrative Order and will be funded by the City. Three bids were received and Joao & Bradley was the low bidder at \$99,050. There are no issues with this bidder. Mr. Leist said he recommends the Board approve the Capital Project Authorization Amendment No. 1 – Construction Phase for \$146,254, the Professional Services Authorization Amendment No. 1 – Construction Phase for \$18,056 and the Contract Award for \$99,050.

On a motion made by Mr. Lyons, seconded by Mr. Bohner, the Board unanimously approved the Capital Project Authorization, the Professional Services Authorization and the Award of the Contract (6-0).

The Vice Chairman called another Executive Session at 2:07 PM to discuss potential litigation.

The Executive Session ended at 2:23 PM at which time the Staff left the meeting and the Executive Session continued to discuss personnel matters. The Executive Session ended at 2:38 PM.

SYSTEM OPERATIONS OVERVIEW

None

STAFF COMMENTS

None.

SOLICITOR'S COMMENTS

None.

OTHER COMMENTS

None.

ADJOURNMENT

There being no further business, the Chairman adjourned the meeting at 2:38 p.m.



2015 BUDGET

Proposed: December 10, 2014



LEHIGH COUNTY AUTHORITY 1053 SPRUCE STREET * P.O. BOX 3348 * ALLENTOWN, PA 18106-0348 610-398-2503 * FAX 610-398-8413 * www.lehighcountyauthority.org email: service@lehighcountyauthority.org

December 10, 2014

Chairman and Board Members Lehigh County Authority 1053 Spruce Street Allentown, PA 18106

Dear Board Members:

Two years removed from the City of Allentown Concession Lease commencement LCA has settled into its role as the area's leading regional water/wastewater operation, serving Allentown and its metropolitan suburbs. While "Integration" was last year's focus, this year's concept will be "Synergies", as we will build on organization strengths, economies of scale and enhanced productivity.

As part of the Synergies effort we will be committed to empowering our workforce to identify operational "best practices", implementing an organization-wide CMMS system and a new SCADA network. We will seek to achieve synergies with our adherence to fiscal responsibility and a prudent, business-like approach to challenges.

Operating Budget

The operating budget reflects the Authority's activities as it relates to anticipated revenues and proposed day-to-day operational and maintenance costs. The following summarizes the proposed operating budget for 2015:

	City	Suburban	Total
Operating and Other Revenue	\$ 31,467,434	\$ 25,178,730	\$ 56,646,164
Operating Expenses (net of depr'n)	<u>16,531,995</u>	<u> 19,167,616</u>	35,699,611
Revenues Available for Debt Service	14,935,439	6,011,114	20,946,553
Debt Service	11,697,722	4,056,517	15,754,239
Debt Service Coverage	1 28	1 48	

Revenues:

The composition of Lehigh County Authority's Revenue (\$56.7 million) for 2015 is as follows:

 Water Revenues (\$25.3 million) – This amount is comprised of City Division Revenues (\$16.7 million) and the Suburban Division Revenues (\$8.6 million). The City Division Water Revenues are conservatively based on a residential customer growth of 1% and a wholesale water sale growth of 6.2%, due to an additional 1 mgd being withdrawn under the City Water Supply Contract. The Suburban Division Water Revenues are based on an industrial commercial growth rate of 6.8% and residential growth of 1% (overall 3.8%). No water rate increase is anticipated for the City or Suburban Division.

• Wastewater Revenues (\$30.9 million) - The City Division Wastewater Revenues (\$14.3 million) is primarily derived from residential and commercial customers (\$8.1 million), which reflects growth of 1% over 2014. Other City Division Wastewater Revenues come from municipal charges (\$5.4 million), which is an overall 10% reduction as compared to 2014 estimated municipal charges and a 25% reduction from the 2014 budgeted revenue. These revenues are down due to the overall reduction in the overall annual operating costs at the Kline Island Wastewater Treatment Plant (KITP), which form the basis of billing other municipalities under the 1981 Municipal Service Agreement.

The Suburban Division Wastewater Revenues (\$16.6 million) are primarily generated from the Western Lehigh Interceptor (\$ 6.5 million) and the Pretreatment Facility (\$7.8 million).

• Interest Income (\$.5 million) – With returns on overnight investments and certificates of deposit at historic lows, LCA invested a major portion of idle funds in Treasury Bills and Notes over 6 months to 5 years with yields of .165 to 1.620%. Additional funds needed for current obligations are invested at yields of .010 to .070%.

Due to Lehigh County Authority's operational efficiencies in managing the KITP the average residential customer in the Western Lehigh Interceptor (WLI) and the Little Lehigh Relief Interceptor (LLRI) service areas will experience a 13% reduction from the 2014 rates. The current rates will fully support efforts to maintain and improve service, as well as continue ongoing SCARP (Sewer Capacity Assurance and Rehabilitation Program) effort to reduce leakage and other non-wastewater discharges in the area tributary to the WLI.

Although the common rate collection systems (Heidelberg Heights, Sand Spring, Upper Milford, Weisenberg and Wynnewood Terrace) reflect expenses over revenues LCA does not propose an increase to the rates at this time.

Expenses:

Lehigh County Authority's Expense Budget (\$35.9 million) for 2015 has been developed to provide safe drinking water at the most affordable cost and to manage the sewer network in the most efficient and safe manner. 80% of these costs fall within the following 6 categories:

• Payroll and Benefits (\$11.2 million) – Payroll and employee benefits continues to be Lehigh County Authority's largest single operating cost. The operating payroll costs of the City Division (\$7.4 million) are split between the Water Operations (\$3.3 million), the Wastewater Operations (\$3.6 million) and the Laboratory (\$.5 million).

The operating payroll costs of the Suburban Division (\$1.5 million) are spread between Water Operations (\$1.0 million) and the Wastewater Operations (\$.5 million).

The payroll costs of Internal Services (management, administration and support staff) represent \$2.3 million.

Capable, dedicated and motivated employees continue to be the key to meeting customer needs and system demands in an effective and efficient way. In addition to accomplishing day-to-day tasks, the 2015 Budget continues work to prepare for the retirement of senior employees. Continuing education and training, and maintaining a supportive work environment and developing transition plans and tools are important components of this Budget.

The 2015 Budget proposes hiring five employees, an engineer/technician at the Pretreatment Facility, a Capital Works Project Coordinator, two (2) City Division Maintenance workers and an Administrative Support Person.

LCA anticipates increases for its Suburban collective bargaining unit based on the fulfillment of criteria under the CareerPath program and accordingly proposes a 2.5% pool. The City collective bargaining unit will receive a 1.5% increase effective January 1, 2015, in accordance with its CBA, as well as any acquired step increases.

In accordance with general market conditions, the Budget proposes a merit pay pool of 3.0% for non-collective bargaining unit employees. In addition, we have included funds for a management bonus program.

It should noted that the health insurance premiums covering the non-collective bargaining unit employees and the Suburban Division's collective bargaining unit employees decreased marginally (.6%). For these same employees, LCA increased the employee's share of the overall cost for pre-2008 employees from 7 to 9% and for post-2008 employees from 14 to 15%.

- Suburban Division Treatment and Transportation costs (\$6.4 million) The Suburban Division and its Signatories incur the costs of conveying wastewater to the KITP.
- <u>Pretreatment contract with OMI</u> (\$5.3 million) The Operations, Maintenance and Management Services Agreement for the Industrial Pre-Treatment Plant includes a base fee, an electric charge, variable charges and a repair and replacement reimbursement. These costs also include the solids removal at the Pretreatment Facility. The Authority extended this contract for another 5 years in in 2013.
- <u>Utilities</u> (\$2.5 million) Comprised primarily of electric power costs, the Authority entered into a contract with an electric supplier to lock-in fixed rates over the next three (3) years. As a result, utilities are projected to fall by \$100,000 in 2015 and remain constant through 2017.
- <u>Maintenance Services</u> (\$2.1 million) Repair and maintenance on the major functional components of the Authority's water and wastewater system, including water mains, hydrants, meters, wells and tanks, pumps and general maintenance of the buildings and structures.
- <u>Purification Supplies</u> (\$.8 million) Primarily the chemicals used at the City Division's Water Filtration Plant (\$.3 million) and the KITP (\$.4 million).

Debt Service:

Lehigh County Authority has separate bond indentures related to the City Division debt and the Suburban Division debt.

- On the City Division, as is required under Lehigh County Authority's Bond Indenture for the Concession Debt, revenues after the payment of operating expenses are available for the payment of debt service. This debt funded the payment of the upfront Concession payment to the City of Allentown and the five (5) year anticipated Capital Expenditures and the multiple reserves to secure bondholder's interests. Standard and Poors Rating Services currently carries an A rating on these bonds. Debt Service of \$11.7 million is budgeted for 2015. The Budget project Debt Service coverage of 1.28 which compare favorably to 1.2 time requirement in the Bond documents.
- Within the Suburban Division's Water System, as is required under the Lehigh County Authority's Bond Indentures for Water System Debt, revenues after the payment of operating expenses are available for the payment of debt service. This debt has funded the Suburban Division's Water System Capital Plan. Fitch currently carries an AA rating on these bonds. Debt Service of \$2.8 million is budgeted for 2015. The Budget project Debt Service Coverage of which compare favorably to 1.41 versus 1.1 time requirement in the Bond documents.
- Within the Suburban Division's Wastewater System, as is required under the Lehigh County Authority's Bond Indentures for Wastewater System Debt, revenues after the payment of operating expenses are available for payment of debt service. This debt has funded the Suburban Division's Wastewater Capital Plan. These bonds are not rated with any rating agency. Debt Service of \$1.3 million is budgeted for 2015.

Capital Budget

The 2014 Capital Budget is based largely on the 2015-2024 Capital Plan and involves all the stakeholders within the various operational and support functions of the organization. We believe all of the proposed projects are necessary to meet contractual obligations and the needs of future development, ensure regulatory compliance, maintain reliable, high quality service, and achieve some operational economies.

Water and wastewater capital projects will be funded by a variety of sources: capital recovery fees (CRFs); reserves from prior years derived from both CRFs and operating revenues; customer contributions and borrowed funds. Although the Authority does not anticipate any grants, we will actively pursue them if they become available. The Budget reflects CRFs adopted in 2013 and 2014. As we have done historically, we will review water and wastewater CRFs (tapping fees, connection charges, meter fees, among others) during 2015 to determine the need for fee changes.

No additional borrowing for water and wastewater projects in 2015 is anticipated except funding for the Wynnewood system improvements. As we do routinely, we will monitor bond market conditions for opportunities to refinance current debt.

The following components are part of the \$ 27.5 million 2015 capital budget:

 <u>City-Funded Projects</u> (\$5.6 million) – The Authority will work on a series of "Uncompleted Work" City Projects that were intended to be complete by the time of settlement on the Concession. The projects include SCADA upgrades (\$1.2 million), an interim blending pumping system (\$1.3 million), valve replacements (\$1.1 million) and a variety projects, less than \$1 million in cost per project.

- Required Capital Improvements Projects in the City Division (\$7.3 million) –
 Under the Concession, the Lehigh County Authority agreed to fund and execute several
 projects to improve the water and wastewater system. In 2015, the Authority will spend
 \$4.3 million on the Water Main Replacement Project, \$2.4 million on the Replacement of
 the Motor Control Center and the remainder on the Belt Filter Press Rebuild and
 Replacement (\$.5 million) and some smaller projects.
- Remaining City Division Projects (\$5.3 million) The largest of the remaining City Division projects is the Facility Roof Replacements (\$1.3 million). \$4 million of CapEx is left for mobile equipment, general improvements and engineering on hydraulic models and other projects (with no individual project more than \$1 million).
- Suburban Division Projects (\$8.6 million) The Authority proposes to spend \$5.4 million on the wastewater system, with the largest of that CapEx going to the Western Lehigh Interceptor (\$1.5 million). \$3.2 million will be dedicated to the Suburban Water System, with \$1.0 million budgeted for Water Main Replacements.
- Internal Services Projects (\$.7 million) The Authority proposes to spend the majority
 of this CapEX on SCADA Programming & Information Technology Master Plan
 Implementation (\$.4 million).

We believe the proposed 2015 Budget allows us to continue our approach of maintaining the high quality of LCA services, meeting the needs of our customer base, preparing for the challenges before us and continuing our leadership in water and wastewater service in the Lehigh Valley. We thank our customers and the communities we serve for their cooperation and guidance in our ongoing quest to provide high quality, reliable, and affordable water and wastewater service.

I also want to acknowledge our employees for their dedication and hard work; without them none of these goals would be attainable. Finally, the support and guidance provided by the LCA Board of Directors which has been invaluable in assuring high quality service to our customers, is greatly appreciated.

Sincerely,

Edward J. Bielarski, Jr. Chief Financial Officer

And MAndo

Aurel M. Arndt Chief Executive Officer

LEHIGH COUNTY AUTHORITY SUBURBAN DIVISION

2015 BUDGET SUBURBAN DIVISION SUMMARY OF REVENUES AND RESERVE FUNDS

	2013 Actual	2014 Budget		2014 Estimate		2015 Budget
OPERATING FUNDING						
OPERATING REVENUES:			_	2 225 222		n ran 30c
Water System	\$ 7,853,780	\$ 8,382,467	\$	8,295,028 16,498,965	Þ	8,582,206 16,569,199
Wastewater System	 15,527,527	17,150,783 25,533,250		24,793,993		25,151,405
Total	23,381,307	25,335,230		24,733,333		23,232,703
OPERATING EXPENSES (NET OF DEPRECIATION):						
Water System	3,704,129	3,999,054		3,600,702		4,641,759
Wastewater System	13,780,224	14,529,865		14,161,424		14,525,857
Other Expenses	 	 				
Total	17,484,353	18,528,919		17,762,126		19,167,616
SURPLUS (DEFICIT) - OPERATING RESERVE	5,896,954	7,004,331		7,031,867		5,983,789
DEBT SERVICE & RESERVES:						
Interest Expense	1,576,597	1,550,329		1,516,738		1,505,622
Interest Income	(32,513)	(34,250)		(23,612)		(27,325)
Debt Retirement	2,290,759	2,371,970		2,396,286		2,543,395
Financing Fees	 7,500	7,500		7,500		7,500
Total	3,842,343	3,895,549		3,896,912		4,029,192
SURPLUS (DEFICIT) AFTER USE OF RESERVES	\$ 2,054,611	\$ 3,108,782	\$	3,134,955	\$	1,954,597
Debt Service Coverage	1.53	1.79		1.80		1.48
CAPITAL FUNDING						
NON-OPERATING REVENUES:						
Water System	\$ 429,920	\$ 479,337	\$	429,920	\$	507,167
Wastewater System	 2,603,373	1,058,040		796,202		994,000
Total	3,033,293	1,537,377		1,226,122		1,501,167
CAPITAL CONTRIBUTIONS:						
Water System	55,220	-		-		-
Wastewater System	1,176,094	 959,300	_	•		
Total	1,231,314	959,300		-		-
BORROWED FUNDS & RESERVES:						
Water System	3,271,113	3,997,163		3,070,080		2,678,333
Wastewater System	(200,000)	4,257,660	-	1,372,983		4,401,750
Total	3,071,113	8,254,823		4,443,063		7,080,083
CAPITAL EXPENDITURES						
Water System	3,741,534	4,476,500		3,500,000		3,185,500
Wastewater System	3,579,467	6,275,000		2,169,185		5,395,750
Total	7,321,001	10,751,500		5,669,185		8,581,250
SURPLUS (DEFICIT) - CAPITAL RESERVE FUND	\$ 14,719	\$ _	\$	-	\$	<u>-</u>

SUBURBAN DIVISION WATER

2015 BUDGET

WATER FUND-SUBURBAN OPERATING BUDGET

The Authority currently owns and operates water systems in three areas of Lehigh County - the Western Lehigh (WLSA), the Northern Lehigh (NLSA) and the Southern Lehigh (SLSA) Service Areas. In addition, the Authority owns and operates one system in Northampton County. Within each service area, separate systems are further designated as divisions. Since the Authority is funding all expenses in the majority of the divisions through a common rate, for presentation purposes this budget does not break out expenses and revenues by service area or division. However, the accounting system tracks individual division activity. Divisions currently not part of the common rate structure are; Upper Milford Central (WLSA), Welshtown Road (WTD) and Madison Park (Lynn Township).

Responsibilities for water service include monitoring water quality, operating and maintaining the various supply sources, reservoirs, transmission and distribution pipe networks and customer metering, billing and response to other related customer service needs.

Each division is affected to varying degrees by the Federal and Pennsylvania Safe Drinking Water Acts requirements. Depending on the source (groundwater or purchased surface water), differing analyses are required for water quality monitoring.

The location, customers, source of supply and average day demand for all divisions is provided in the table attached as Exhibit A immediately following this overview.

Major Budget activities continue to place an emphasis on providing customers with outstanding service. Maintenance programs intended to prolong the usefulness of existing facilities, including preventive and predictive maintenance, leakage monitoring and repairs, exercising of system valves and fire hydrants, and station improvements and repairs, are continued from previous years.

2015 BUDGET

SUBURBAN DIVISION

SUMMARY OF REVENUES AND RESERVE FUNDS WATER FUND - ALL SERVICE AREAS

		2013		2014		2014		2015
		Actual		Budget		Estimate		Budget
OPERATING REVENUES:						•		
Large Industrial	\$	872,859	\$	960,091	\$	1,055,213	\$	1,061,577
Other Industrial/Commercial		2,372,947		2,711,637		2,647,928		2,857,617
Residential		3,218,823		3,353,941		3,329,255		3,433,763
Penalties		51,267		56,260		54,572		60,000
Private Fire Service		617,483		596,805		677,366		619,844
Public Fire Service		346,552		368,440		348,612		344,405
Rental Income		80,930		51,446		105,955		120,000
Interest Subsidy - 2010 A Bonds		=		207,462		-		-
Interest Income - Revenue Fund		17,573		20,000		16,115		17,500
Interest Income - Debt Service		5,085		7,500		1,553		2,500
Miscellaneous Income		292,919		76,385		76,127		85,000
Total	\$	7,876,438	\$	8,409,967	\$	8,312,696	\$	8,602,206
OPERATING EXPENSES AND DEBT SERVICE LESS COVERAGE AND DEPRECIATION		6,586,094		6,799,442		6,397,339		7,475,342
TRANSFER TO RENEWAL & REPLACEMENT								
RESERVE FUND		274,185		298,773		298,773		298,773
SURPLUS (DEFICIT) - OPERATING RESERVE	\$	1,016,159	\$	1,311,752	\$	1,616,585	\$	828,091
OPERATING COVERAGE (A)		1.45		1.58		1.69		1.41
CAPITAL FUNDING								
NONOPERATING REVENUES:								
Meter Sales & Installations	\$	96,453	\$	75,000	\$	96,453	\$	75,000
Supply/Special Tapping Fees	•	192,085	•	223,570	•	192,085		251,400
Distribution Tapping Fees		27,760		20,000		27,760		20,000
Inspection & Review Fees		62,641		65,000		62,641		65,000
Reimbursement from Wastewater Funds		26,980		71,767		26,980		71,767
Other Income		24,000		24,000		24,000		24,000
Total Nonoperating Revenues		429,920		479,337		429,920		507,167
CAPITAL CONTRIBUTIONS:		423,320		419,001		420,020	-	5517.51
								_
Grants		55,220		-				_
Reimbursement from Other Entities								
Total Capital Contributions		55,220		2 007 402		2 070 000		2 679 333
BORROWED FUNDS & RESERVES		3,271,113		3,997,163		3,070,080		2,678,333
TOTAL CAPITAL FUNDING		3,756,253		4,476,500		3,500,000		3,185,500
CAPITAL EXPENDITURES	\$	3,741,534	\$	4,476,500	\$	3,500,000	\$	3,185,500
SURPLUS TO CAPITAL RESERVE FUND	\$	14,719	\$	-	\$	-	\$	- :

⁽A) Equates to Operating Revenues less Operating Expenses, without Debt Service, divided by Interest expense and principal reduction. The trust indenture requires a minimum 1.1 factor.

OPERATING AND NONOPERATING REVENUES

Large Industrial

For budget purposes, no growth in revenue is assumed.

Other Industrial/

Commercial/Institutional

Ocean Spray is the primary reason for a budgeted 8% increase in this

revenue category.

Residential

For budget purposes no growth in residential customers was assumed.

Private Fire Service

This classification includes private fire protection for those

industrial/commercial customers who have either a sprinkler system or

private fire hydrants.

Public Fire Service

For budget purposes no growth in public fire hydrant revenue was

assumed.

Rental Income

Includes the annual reimbursement from the various funds for a portion of

the Authority Operations Center costs and expansion.

Interest Subsidy

Represents reimbursement from federal government of 35% of interest

expense due on the 2010 Build America bonds.

Reimbursement from Wastewater Funds

Represents wastewater fund share of post-retiree benefits.

Interest Income -Revenue Fund Investment return on water operating reserves.

Interest Income - Debt

Service Fund

Investment return on the Debt Service Reserve and Debt Service Fund

monies. Interest income earned is used to offset interest expense.

Other Income

Includes miscellaneous revenues received for such items as damage claims, site visits for collections, reimbursement of lab costs, line location,

miscellaneous water sales and violations and fines, etc.

CAPITAL REVENUES

Meter Sales & Installation

Charges to new customers for initial meter and backflow prevention device costs and installation.

Supply Tapping Fees

Charges to new customers are based on connection size. These revenues offset costs related to construction of storage and supply facilities.

Distribution Tapping Fees

Charges to new customers are based on connection size. These revenues offset costs related to construction of transmission and distribution facilities. These charges are generally not applicable to customers connecting within a developer-installed distribution system.

Inspection and Review Fees

Reimbursement from developers for LCA inspection and plan review costs.

Reimbursement from Wastewater Funds Includes recovery of costs related to the GIS project, SCADA system upgrades, Knowledge Management project and the Information Technology Master Plan Update. Such costs are being recovered over five years.

Other Income

Miscellaneous revenues for such items as new customer initiation fees, specification sales, hydrant defender sales etc.

Grant/Special Loan

Represents grants for various water projects.

Reimbursement from Other Entities Represents reimbursement of costs from the State for the Slatedale Bridge Widening – Main Relocation project.

Borrowed Funds and Cash Cash Reserves

Bond funds will be used to pay for system improvements, while Cash Reserves will pay for those projects or equipment purchases that have a useful life less than the length of the bond issue maturity.

2015 BUDGET

SUBURBAN DIVISION

OPERATING AND NONOPERATING EXPENSES WATER FUND - ALL SERVICE AREAS

Actual Budget Budget DERATING EXPENSES: PERSONNEI: Permanent \$ 681,651 \$ 771,597 \$ 684,905 \$ 701,012 Overtime 62,284 38,679 71,742 82,004 Employee Benefits 203,326 257,559 194,982 212,865 Total 947,261 1,067,835 951,630 995,881 PURCHASE OF SERVICES: Internal Services - Overhead & Support 687,254 474,709 671,224 706,805 Utilities 400,614 430,450 426,482 475,650 Engineering 22,423 89,500 9,122 62,500 Analyses (External) 27,848 76,840 71,376 32,600 Compliance Expense - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 <th></th> <th></th> <th>2013</th> <th></th> <th>2014</th> <th>2014</th> <th>2015</th>			2013		2014	2014	2015
PERSONNEL: Permanent \$ 681,651 \$ 771,597 \$ 684,905 \$ 701,012 Overtime 62,284 38,679 71,742 82,004 Employee Benefits 203,326 257,559 194,982 212,865 Total 947,261 1,067,835 951,630 995,881 PURCHASE OF SERVICES: Internal Services - Overhead & Support 687,254 474,709 671,224 706,805 Utilities 400,614 430,450 426,482 475,650 Engineering 22,423 89,500 9,122 62,500 Analyses (External) 27,848 76,840 71,376 32,600 Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - - - 4,756 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Miscellaneous Services			Actual		Budget _	Estimate	 Budget
Permanent \$ 681,651 \$ 771,597 \$ 684,905 \$ 701,012 Overtime 62,284 38,679 71,742 82,004 Employee Benefits 203,326 257,559 194,982 212,865 Total 947,261 1,067,835 951,630 995,881 PURCHASE OF SERVICES: Internal Services - Overhead & Support 687,254 474,709 671,224 706,805 Utilities 400,614 430,450 426,482 475,650 Engineering 22,423 89,500 9,122 62,500 Analyses (External) 27,848 76,840 71,376 32,600 Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 27,632 <	OPERATING EXPENSES:				·		 <u></u>
Overtime 62,284 38,679 71,742 82,004 Employee Benefits 203,326 257,559 194,982 212,865 Total 947,261 1,067,835 951,630 995,881 PURCHASE OF SERVICES: Internal Services - Overhead & Support 687,254 474,709 671,224 706,805 Utilities 400,614 430,450 426,482 475,650 Engineering 22,423 89,500 9,122 62,500 Analyses (External) 27,848 76,840 71,376 32,600 Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Water Purchases 978,597 1,003,980 984,580 1,261,000 <td>PERSONNEL:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	PERSONNEL:						
Employee Benefits 203,326 257,559 194,982 212,865 Total 947,261 1,067,835 951,630 995,881 PURCHASE OF SERVICES: Internal Services - Overhead & Support 687,254 474,709 671,224 706,805 Utilities 400,614 430,450 426,482 475,650 Engineering 22,423 89,500 9,122 62,500 Analyses (External) 27,848 76,840 71,376 32,600 Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Miscellaneous Services 32,583 40,660 27,632 38,700 Vater Purchases 978,597 1,003,980 984,580	Permanent	\$	681,651	\$	771,597	\$ 684,905	\$ 701,012
Total 947,261 1,067,835 951,630 995,881 PURCHASE OF SERVICES: Internal Services - Overhead & Support 687,254 474,709 671,224 706,805 Utilities 400,614 430,450 426,482 475,650 Engineering 22,423 89,500 9,122 62,500 Analyses (External) 27,848 76,840 71,376 32,600 Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 <tr< td=""><td>Overtime</td><td></td><td>62,284</td><td></td><td>38,679</td><td>71,742</td><td>82,004</td></tr<>	Overtime		62,284		38,679	71,742	82,004
PURCHASE OF SERVICES: Internal Services - Overhead & Support 687,254 474,709 671,224 706,805 Utilities 400,614 430,450 426,482 475,650 Engineering 22,423 89,500 9,122 62,500 Analyses (External) 27,848 76,840 71,376 32,600 Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: 2 31,249 51,100 38,	Employee Benefits		203,326		257,559	194,982	 212,865
Internal Services - Overhead & Support 687,254 474,709 671,224 706,805 Utilities 400,614 430,450 426,482 475,650 Engineering 22,423 89,500 9,122 62,500 Analyses (External) 27,848 76,840 71,376 32,600 Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: 2 2,543,339 2,424,409 36,600 Purif	Total		947,261		1,067,835	951,630	 995,881
Utilities 400,614 430,450 426,482 475,650 Engineering 22,423 89,500 9,122 62,500 Analyses (External) 27,848 76,840 71,376 32,600 Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies	PURCHASE OF SERVICES:					<u> </u>	
Engineering 22,423 89,500 9,122 62,500 Analyses (External) 27,848 76,840 71,376 32,600 Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: 2 2,424,058 2,543,339 2,424,409 3,221,655 Purification Supplies 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000	Internal Services - Overhead & Support		687,254		474,709	671,224	706,805
Analyses (External) 27,848 76,840 71,376 32,600 Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: 2,442,058 2,543,339 2,424,409 3,221,655 Pump Supplies 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700	Utilities		400,614		430,450	426,482	475,650
Contract Operating Svcs 34,665 34,600 33,700 32,650 Compliance Expense - - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: 2,442,058 2,543,339 2,424,409 3,221,655 Purification Supplies 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200 <	Engineering		22,423		89,500	9,122	62,500
Compliance Expense - - - 4,750 Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: Pump Supplies 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Analyses (External)		27,848		76,840	71,376	32,600
Maintenance Services 154,372 329,200 180,272 539,000 Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 8,000 8,000 Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Contract Operating Svcs		34,665		34,600	33,700	32,650
Extraordinary Expenditures 98,401 56,000 20,021 60,000 Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: 978,597 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Compliance Expense		-		-	-	4,750
Industrial Meter Testing & Repair 5,300 8,000 - 8,000 Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: Pump Supplies 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Maintenance Services		154,372		329,200	180,272	539,000
Miscellaneous Services 32,583 40,060 27,632 38,700 Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: Pump Supplies 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Extraordinary Expenditures		98,401		56,000	20,021	•
Water Purchases 978,597 1,003,980 984,580 1,261,000 Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: Pump Supplies 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Industrial Meter Testing & Repair		5,300		8,000	~	•
Total 2,442,058 2,543,339 2,424,409 3,221,655 MATERIALS AND SUPPLIES: Pump Supplies 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Miscellaneous Services		32,583		40,060	27,632	•
MATERIALS AND SUPPLIES: Pump Supplies 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Water Purchases		978,597		1,003,980	984,580	1,261,000
Pump Supplies 31,249 51,100 38,930 56,600 Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Total		2,442,058		2,543,339	2,424,409	3,221,655
Purification Supplies 60,024 82,180 71,650 84,000 Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	MATERIALS AND SUPPLIES:						
Distribution & Transmission Supplies 44,699 49,500 32,375 59,700 Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Pump Supplies		31,249		51,100	38,930	56,600
Misc. Materials & Supplies 60,194 55,750 20,905 61,200	Purification Supplies		60,024		82,180	71,650	84,000
	Distribution & Transmission Supplies		44,699		49,500	32,375	59,700
Fuel & Mileage 50.656 64.900 40.327 67.200	Misc. Materials & Supplies		60,194		55,750	20,905	61,200
1 del 3 ivilleage 50,000 04,000 40,021 07,200	Fuel & Mileage		50,656		64,900	40,327	67,200
Total 246,821 303,430 204,187 328,700	Total		246,821		303,430	204,187	328,700
EQUIPMENT: 67,989 84,450 20,476 131,500	EQUIPMENT:	,			84,450	 20,476	131,500
DEPRECIATION & AMORTIZATION 2,494,362 2,900,000 2,900,004 2,950,000	DEPRECIATION & AMORTIZATION		2,494,362		2,900,000	 2,900,004	2,950,000
							- 007 700
TOTAL OPERATING EXPENSES 6,198,491 6,899,054 6,500,706 7,627,736			6,198,491		6,899,054	6,500,706	1,621,736
NONOPERATING EXPENSES:							
DEBT SERVICE:			4 400 407		4 000 704	4 004 404	4 007 040
Interest Expense 1,408,407 1,296,791 1,301,431 1,267,212	· · · · · · · · · · · · · · · · · · ·						
Financing Fees 7,500 7,500 9,013 7,500	•				•		
Debt Retirement 1,466,059 1,496,097 1,486,193 1,522,894					, ,		
Coverage * 431,170 418,933 418,144 418,516	•					 	
TOTAL NONOPERATING EXPENSES 3,313,136 3,219,321 3,214,781 3,216,122	TOTAL NONOPERATING EXPENSES		3,313,136	· · -	3,219,321	3,214,781	 3,216,122
TOTAL EXPENSES \$ 9,511,626 \$ 10,118,375 \$ 9,715,486 \$ 10,843,858	TOTAL EXPENSES	\$	9,511,626	\$	10,118,375	\$ 9,715,486	\$ 10,843,858

^{*} Coverage is calculated at 15% of interest expense and debt retirement.

OPERATING AND NONOPERATING EXPENSES

PERSONNEL

Permanent/Overtime

Represent salaries and off-time allocated for staff oversight of all divisions.

Employee Benefits

Comprised of medical coverage, defined benefit pension, long-term and short term disability, social security and Medicare contributions, flexible spending and unemployment insurance.

PURCHASE OF SERVICES

Internal Services -Overhead & Support Overhead costs (\$706,805), which are not chargeable to certain funds, divisions or departments are allocated based on salaries within a fund as a percentage to total salaries. For small systems with less than 250 customers, the allocation percentage is further reduced to 20% of the salary ratio.

Utilities

Power costs reflect increased water production in the Central Lehigh System to meet the projected growth and increased commercial and industrial usage. Included in this budget is; power (\$428,400), gas service (\$11,000), share of cellular communication service (\$32,950) and phone service for alarm dialers (\$3,300).

Engineering

This budget includes engineering consulting services that may be required (\$62,500).

Contract Operating Services

A DEP licensed contract operator will provide one of the two system checks per week at fourteen well stations outside of the CLD. LCA personnel will perform the second weekly check.

Analyses (External)

"External" indicates that these analyses are performed by a contracted certified laboratory. 2015 analyses required by DEP will total \$32,600 for all of the systems.

Maintenance Services

This budget includes; wells, well stations & pumping (\$63,300), distribution/transmission mains & hydrants (\$92,300), reservoir/storage (\$205,200), mobile equipment (\$30,000), SCADA / TELOG maintenance services & software support (\$30,700), lab equipment maintenance (\$800), site maintenance (\$62,800), emergency generator service and repairs (\$23,200) and miscellaneous repairs and services (\$30,700).

Extraordinary Service & Equip. Expenditures

This budget line maintains the same level of insurance against an extraordinary leak repair and restoration in all systems (\$60,000). It includes items such as well and booster pump replacements, piping re-configurations and other services utilized in systems other than the CLD.

Industrial Meter Testing

This budget includes annual testing of large industrial and commercial meters.

Miscellaneous Services

This budget includes lab software support (\$2,100), PA One-Call System fees (\$13,000), PA One-Call software support (\$1,200), miscellaneous communication services (\$1,500), bank fees (\$1,500), water hauling for leak repair (\$2,000), certification/permit fees (\$3,100), dispatch answering service (\$3,100), meter reading software (\$2,500), shipping (\$1,500) and other miscellaneous expenses (\$7,200).

OPERATING AND NONOPERATING EXPENSES

Water Purchases

This budget includes the purchase of approximately 203,000 gallons of water per day from the Northampton Borough Municipal Authority for customers in the North Whitehall Division, the purchase of approximately 68,000 gallons of water per day from the Borough of Slatington for customers in the Washington Township Division, the purchase of approximately 64,000 gallons of water per day from the Borough of Emmaus for the LCA Out-of-Borough customers in Lower Macungie, Salisbury and Upper Milford Townships and the purchase of 5,000,000 gallons per day of water from the City Division for customers in the Central Lehigh Division.

Rental Charge

Allocation of expenses related to the Authority Operations Center.

MATERIALS & SUPPLIES

Pump Supplies This budget includes pump supplies (\$31,600), well supplies (\$23,700), and

reservoir supplies (\$1,300).

Purification Supplies This budget includes sodium hypochlorite (\$27,700), sodium hydroxide (\$9,400),

reagent set (\$1,000), sodium thiosulfate (\$300), D-chlor tablets (\$1,500), Aquamag (\$2,500) replacement parts, injectors and repair parts (\$14,000), analyzer supplies

(\$18,600) and miscellaneous parts and supplies (\$9,000).

Distribution and Transmission Supplies

This budget includes hydrant supplies (\$21,300), main and service repair supplies

(\$31,900), replacement meters, MXUs and batteries (\$6,500).

Miscellaneous Materials & Supplies

This budget includes SCADA / TELOG supplies (\$29,700), mobile equipment parts and supplies (\$2,500), billing and customer service forms (\$8,700), clothing (\$2,000), plumbing supplies (\$4,000), lab supplies (\$5,600) and miscellaneous

supplies (\$8,700).

Fuel This item includes the allocation of a share of the total LCA fuel expense for the

service vehicles, diesel fuel and generator fuel. The allocation is based on budgeted uniformed personnel time. An increase over recent years is budgeted

due to the consistent increase volatility in prices for this commodity.

EQUIPMENTThis budget includes sampling stations (\$17,600), correlator (\$12,000) replacement

fire hydrants (\$7,700), line/leak locator (\$6,000), chemical pumps (\$7,800), sump pumps (\$1,200), replacement heaters (\$2,500), Prominent Cl2 analyzers (\$5,400), replacement well pumps (\$9,000), replacement booster pumps (\$7,500), turbidity meter upgrade (\$7,900), dehumidifiers (\$5,000), logger/leak detection (\$3,300), well depth probe (\$1,700), filtration bags for E&S control (\$5,000), chlorine storage

tanks (\$2,600), miscellaneous tools & other minor equipment (\$19,500) and

miscellaneous lab equipment (\$9,800).

Note: Major vehicle equipment and minor equipment costing over \$5,000 are

included in the Capital Budget.

DEPRECIATION AND AMORTIZATION

Depreciation expense is calculated by the straight-line method using standard depreciation periods. Amortization of planning and financing costs is included.

OPERATING AND NONOPERATING EXPENSES

DEBT SERVICE Interest Expense

Includes a 2.75% interest rate for the Washington Township System Improvements which were refinanced in 2011, a 2% interest rate on a State Penn Works loan for the Future Additional Water Supply projects, a 3.55% interest rate on the 2008 Water Bond issue, a 3.76% net rate on the 2010 Series A Build America bonds, a 2.55% rate on the 2010 Series AA bonds and a 1% interest rate on a Pennvest note to finance a meter replacement project.

Debt Retirement

Includes scheduled retirement on the loans listed above under interest expense.

Financing Fees

Includes trustee fees for the 2008, 2010 and 2011 bond issues.

2015 **BUDGET**

WATER FUND SERVICE AREA DESCRIPTION

Service Area/Division	Municipalities Served	Cust	omers <i>(1)</i>	Supply Source	2014 Avg Day Demand (gpd)	
·		No.	Туре			
Western Lehigh Service Area						
Central Lehigh Division (2)	Upper Macungie Twp. Lower Macungie Twp. Weisenberg Twp. Lowhill Twp. Upper Milford Twp. Salisbury Twp. South Whitehall Twp.	18,150	Residential, Commercial, Institutional & Industrial	21 Wells	8,708,000	
Arcadia West Division	Weisenberg Twp.	14	Commercial	2 Wells	18,000	
Emmaus Out-of-Borough Division	Upper Milford Salisbury Twp. Lower Macungie Twp.	420	Residential, Commercial & Institutional	Borough of Emmaus	64,000	
Upper Milford Central Division	Upper Milford Twp.	101	Residential	2 Wells	17,000	
Subtotal		18,685			8,807,000	
Northern Lehigh Service Area						
North Whitehall Division	North Whitehall Twp.	1,145	Residential, Commercial & Institutional	9 Wells & Northampton Borough Municipal Authority	252,000	
Washington Township Division (3)	Washington Twp.	406	Residential, Commercial & Institutional	Slatington Municipal Water Authority	71,000	
Millcreek Division	Washington Twp. Heidelberg Twp.	35	Residential	2 Wells	6,000	
Lynn Township Division (LTD) (4)	Lynn Twp.	176	Residential	3 Wells	13,000	
Heidelberg Heights Division	Heidelberg Twp.	190	Residential	5 Wells	28,000	
Subtotal		1,952			370,000	
Southern Lehigh Service Area						
Beverly Hill Division	Lower Milford Twp.	45	Residential	1 Well	6,000	
Northampton County Service Area						
Clearview Farms Division	Moore Twp.	67	Residential	2 Wells	10,000	
Í						

⁽¹⁾ Residential, Commercial and Industrial estimates as of 11/18/14.

⁽²⁾ Includes Mink Estates and Farview Farms Division

⁽³⁾ Includes Welshtown Road Customers (4) Includes Pine Lakes at Lynn and Madison Park Division

2015 BUDGET WATER FUND-SUBURBAN CAPITAL BUDGET

The Suburban Divisions Water Capital Budget includes projects, which provide or lead to long-term improvements and reliability to the system. The following table provides information regarding significant activities:

Project	2015 Budget	2015 Project Stage
Water Main Replacement Projects	1,070,000	Design/Construction
CLD Auxiliary Pump Station & Main Extension	160,000	Design
Non-residential Water Meter Replacements	350,000	Design /Construction
General Water System Improvements	300,000	Design/Construction

2015 BUDGET SUBURBAN DIVISION CAPITAL EXPENDITURES TOTAL WATER FUND

Project	Priority	Estimated Project Cost	Estimated Costs Through 2014	2015 Budget	Beyond 2015
Water Company Acquisitions	Medium	Annual		\$ 60,000	
Capital Management	High	Annual		70,000	
Capital Works Supplies, Software & Other Work	High	Annual		20,000	
Distribution Mains, Service Connections & System Planning	High	Annual		175,000	
Distribution Mains Upsizing *	High	Annual		150,000	
Distribution System Improvements (3rd Party)	High	Annual		10,000	
New & Replacement Water Meter Installations (non-project)	High	Annual		140,000	
Mobile Equipment	High	Annual		85,500	
Other Equipment	High	Annuai		40,000	
Water Main Replacement Projects	High	10,700,000	-	1,070,000	9,630,000
Hydro-Pneumatic Pump Station Upgrades	High	702,000	3,000	300,000	399,000
Water Optimization Study	Medium	50,000	-	50,000	•
Non-residential Water Meter Replacements	Medium	501,500	-	350,000	151,500
General Water System Improvements	Medium	1,748,500	_	300,000	1,448,500
Crestwood- New Alternate Water Supply	High	211,000	6,000	205,000	-
CLD Auxiliary Pump Station & Main Extension	High	985,400	10,000	160,000	815,400
Total Suburban Divisions Water Capital Expenditures:			\$ 19,000	\$ 3,185,500_	\$ 12,444,400

Note: Projects in bold type will not proceed beyond the planning phase, or beyond current authorized phase without specific authorization from the LCA Board subsequent to the adoption of this budget.

^{*} Individual upsizing contributions less than \$75,000 will not require additional authorization beyond adoption of this budget.

CAPITAL EXPENDITURES

Water Company Acquisitions

Staff and consultant involvement in actively pursuing system acquisitions. (2015 Cap Ex \$60,000).

Capital Management

Costs of providing general management and administrative services for the water capital programs (2015 Cap Ex \$70,000).

Capital Works Supplies, Software & Other Work Includes miscellaneous supplies, on-going software support, and the Suburban Divisions share of updating Water and Wastewater General Design & Construction Specifications. (2015 Cap Ex \$20,000).

Distribution Mains, Service Connections & System Planning Capital Works services required for distribution system extensions and connections including the reimbursable costs of plan review and construction inspection. Also includes the cost of providing general system engineering and planning (2015 Cap Ex \$175,000).

Distribution Mains
Upsizing

Economically provides proper pipe capacities and extensions to meet future service needs by increasing pipe sizes in proposed developer-installed systems to provide sizes indicated in the Water System Plan or funds the off-site portion of a water main extension in accordance with a Township Water Service Agreement to serve a development (2015 Cap Ex \$150,000).

Distribution System - Improvements Costs of additional valves or piping to improve the operation of the existing system. Where it is economical, improvements are made under a third party's contract (2015 Cap Ex \$10,000).

New & Replacement Meter installations (non-project) Material and labor costs for meters, radio read receivers and if applicable backflow prevention devices installed for new customers and defective or customer damaged meters. The costs of installations for the new customers and damaged meters are reimbursed through collection of meter installation fees (2015 Cap Ex \$140,000).

Mobile Equipment

Purchase of 1-SUV, 1-Small Van and 1-Full size Pickup Truck (2015 Cap Ex \$85,500).

Other Equipment

Equipment \$5,000 or over that is necessary to maintain service integrity. Items include leak detectors, line locators, electric and electronic equipment, lab equipment, hi-tech wireless leak detection sensing equipment, pumping equipment, generator, etc. (2015 Cap Ex \$40,000).

Water Main Replacement Projects

An on-going project to replace spun cast iron mains in acquired water systems that have or may experience high failure rates. (2015 Cap Ex \$1,070,000).

2015 BUDGET SUPPORTING DETAIL WATER FUND-SUBURBAN CAPITAL EXPENDITURES

Hydro-Pneumatic Pump Station Upgrades

This multi-year project includes the equipment necessary to convert the hydro-pneumatic operated equipment at the two facilities in the Upper Milford Central Division and the one facility in the Pine Lakes of Lynn Division to a variable frequency drive-controlled double pumping system. The project also allocates funds for some electrical upgrades and storage tank replacements if necessary. The 2015 budget addresses the upgrade at Pine Lakes of Lynn (2015 Cap Ex \$300,000).

Water Optimization Study

This project will evaluate ways optimize the use of the combined water capacities of both the Central Lehigh and Allentown Divisions for cost effective utilization in both divisions. (2015 Cap Ex \$50,000).

Non-residential Water Meter Replacement

This project includes replacing ~ 260 water meters >=2-inches; and 25 larger meters ranging from 3 to 10-inches that have reached the end of their useful life with new radio read capable meters. It also includes upgrading ~110 newer meters to RR capability meters The project is expected to be bid in the second-quarter of 2015 (2015 Cap Ex \$350,000).

General Water System Improvements

This multi –year project includes various general system improvements. Which include installation of motor control valve at Reservoir #3; a main extension to connect the water mains on Schantz Spring Rd. to the main on Minesite Rd., VFD's on certain wells and chlorine injection stations as needed. Also included, are full abandonment of eight unused wells in various water systems if required to do so by PADEP. (2015 Cap Ex \$300,000).

Crestwood- New Alternate Water Supply

This project consists of the design and construction of approximately 600 lf. of 6-inch diameter water main, connecting to the primary NWD system and applicable piping and control modifications within the pump station. This connection will provide an alternate supply of water to the Crestwood Pumping station and allow the existing two wells currently serving the station to be taken off line and abandoned if applicable (2015 Cap Ex \$205,000).

CLD Auxiliary Pump Station & Main Extension

This multi-year project consists of the design and construction of 2 MGD water pressure booster pump station with fire flow capabilities of 2,500 GPM and approximately 1,600 linear-feet of 12-inch diameter interconnecting main extending from the intersection of Cetronia and Werley Roads. The project will provide the capability to pump water from the CLD Lower to Upper System, thereby enhancing reliability in the Upper System and allow flexibility for utilizing water purchased from the City of Allentown (2015 Cap Ex \$160,000).

SUBURBAN DIVISION WASTEWATER

2015 BUDGET WASTEWATER FUND

The Authority is responsible for providing a variety of wastewater services. Current operation and maintenance responsibilities include; the Western Lehigh Interceptor (WLI), Little Lehigh Relief Interceptor (LLRI), the LCA Pre-Treatment Plant (formerly the County of Lehigh Pre-Treatment Plant), collection and treatment in Heidelberg Township, North Whitehall Township, Weisenberg Township and Lynn Township and collector systems within Upper Milford Township and Washington Township.

WESTERN LEHIGH INTERCEPTOR SYSTEM

This Budget addresses transportation and City treatment services provided to various municipalities and assumes an average daily flow of 8.00 million gallons per day (mgd), from the communities served, the Boroughs of Alburtis and Macungie, and the Townships of Lower Macungie, Upper Macungie, Upper Milford, Weisenberg, Lowhill and the LCA Pre-Treatment Plant (the "Municipalities"). The estimated flow has decreased slightly from a budgeted flow of 7.9 million gallons per day (mgd) in 2014 to 8.0 mgd in 2015. The Municipalities are billed based upon wastewater strength, flow and reserved capacity. The budget (including the LLRI) maintains current rates for the typical residential customer. In addition, the Borough of Emmaus discharges a portion of its flow through the WLI and is billed in accordance with a service agreement.

Personnel time is included for the operation and maintenance of the gravity interceptors and the Spring Creek Road Pump Station (SCRPS) and force main. The budget anticipates that the SCRPS will operate monthly in an exercise mode to minimize the potential for odors as well as in response to wet weather events according to the new Wet Weather Operating Protocol (WWOP).

As part of a comprehensive Infiltration and Inflow (I/I) program, the flow monitoring of Signatory collector system connections to the interceptor that started in late December 2007 was completed in September of 2009. The results of the flow monitoring in conjunction with other investigations will be utilized in 2014 to complete certain tasks set-forth in the Sewer Capacity Assurance and Rehabilitation Program (SCARP) including the Preliminary Objectives Evaluation and Alternatives Modeling.

Sampling and analysis for billing purposes of the LCA Pre-Treatment Plant and Municipality industrial/commercial users, and flow entering the City system and that from Emmaus are included.

Major 2015 programs and efforts in the WLI are as follows:

- WLI Physical Condition Assessment (PCA): Engineering costs to continue the PCA program started in 2004 will continue in 2014 with manhole inspection and the inspection of the Spring Creek Force Main.
- <u>Signatory Infiltration and Inflow (I/I) program:</u> The SCARP was adopted by the Signatories in December 2009 as an amendment to their Act 537-plans. Numerous tasks identified in the SCARP including the completion of the Level of Service Assessment, a Preliminary Objectives Evaluation, Alternatives Analysis and Capital Improvements Plan will take place in 2014.
- Wastewater Capacity Development- WLI Study of treatment capacity alternatives including the possibility of
 upgrading the LCA WTP to full treatment or expanding the Kline's Island Wastewater Treatment Plant. The
 2014 efforts will be focused on completion of the Act 537 Plan development.

LITTLE LEHIGH RELIEF INTERCEPTOR (LLRI) SYSTEM

Phase 1

This system phase, including the Park Pump Station (PPS) and Force Main, serves the Municipalities and the Townships of Salisbury and South Whitehail. The PPS, which has been in service since 1983, provides 20 mgd of relief pumping capacity to bypass a critical portion of the City interceptor system. In late 2008, the Authority and the City of Allentown developed a protocol for the operation of the station prior to major wet weather events to maximize capacity in the interceptor for use during the event. In addition, the Wet Weather Operating Logic Project completed 2012 with the assistance of Malcolm Pirnie, provides for a more effective use of other LCA facilities and the reduction of overflows during wet weather events.

Major 2015 capital expenditures and projects at the PPS are as follows:

- A continuation of the capacity study that will identify the maximum capacities of the wet well, piping and other similar infrastructure, the results of which will provide a basis for the design of future capacity upgrades. Installation of a double wall above the ground fuel tank with an automatic leak detection system, the replacement of an aged hydraulic sluice gate and upgrading the Park Pump Station telemetry to allow for full SCADA control from remote locations. If determined feasible by the physical capacity study results, replacement of the aged and inefficient flow-matcher variable speed control system with modern state of the art VFD motor control.
- Inspection of the Park Pump Station Forcemain.

Phase 2

This system phase includes the gravity relief line from Keck's Bridge to the PPS and serves the Municipalities. The 2015 Budget anticipates the continuation of increased maintenance costs for cleaning of the inverted siphons on this system. It is now anticipated that this will be an annual expense based upon the blockage experienced in the last 3 years.

COMMON RATE COLLECTOR SYSTEMS

UPPER MILFORD SYSTEM

As the wastewater service agency for Upper Milford Township (UMiT), Lehigh County Authority (LCA) provides all wastewater-related services for the 758 residential and 46 commercial customers in the township as of October 31, 2013. Except for significant matters requiring inter-municipal negotiations or consultations, LCA provides general representation for UMiT on wastewater issues.

WEISENBERG SYSTEM

In 2002, LCA finalized an agreement with Weisenberg Township, which designates LCA as the provider of public wastewater service within specific areas of the township. Currently LCA provides collection system service to 146 residential and 3 commercial customers in the Pointe West subdivision, to the former Penn State campus and Glasbern Inn.

HEIDELBERG HEIGHTS SYSTEM

This system, serving approximately 145 customers in Heidelberg Township was purchased by LCA in September 1998. The system includes approximately 6,500 linear feet of collector sewers and a .060 mgd Sequencing Batch Rector (SBR) Activated Sludge Wastewater Treatment Plant, which was placed in operation in 2000. The budget includes maintenance activities related to the collection system, emphasizing identification and removal of extraneous flow into the system. The Authority will continue to operate the system with a combination of its own personnel and a contract operator.

WYNNEWOOD TERRACE SYSTEM

The budget includes the operation and maintenance of the Wynnewood Terrace wastewater system in North Whitehall Township. The Authority took over ownership and operational responsibilities in July of 2003. The system includes a 60,000 gpd extended air activated sludge package treatment plant, three pump stations and collection system currently serving 217 residential and 2 commercial customers. The budget includes maintenance activities related to the collection system, emphasizing identification and removal of extraneous flow into the system. The Authority will continue to operate the system with a combination of its own personnel and a contract operator.

SAND SPRING SYSTEM

The budget includes the operation and maintenance of the Sand Spring wastewater system in North Whitehall Township, which was acquired at the end of 2004. The system includes a 35,000 gpd extended air activated sludge package treatment plant and collection system currently serving 248 residential apartment units and 9 commercial customers. The Authority will continue to operate the system with a combination of its own personnel and a contract operator.

ARCADIA SYSTEM

The Authority completed construction of a new 40,000 gpd wastewater treatment plant at the Arcadia West Industrial Park (AWIP). The new plant serves the AWIP and other properties in the New Smithsville area of Weisenberg Township. Currently there are 9 commercial customers and 1 institutional customer in this system.

LYNN TOWNSHIP SYSTEM

The budget includes the operation and maintenance of the Lynn Township wastewater system in Lynn Township. The system includes an 80,000 gpd cast in place extended air plant and collection system currently serving approximately 345 residential customers, 80 apartment units, 20 commercial customers and the Northwestern Lehigh School District Complex. The Authority has plans to upgrade and expand the facility to a 160,000 gpd and be operational by 2018. The Authority currently operates the system with a combination of its own personnel and a contract operator.

WASHINGTON TOWNSHIP SYSTEM

LCA provides Operating Services for this system that serves approximately 632 residential and commercial customers in the Slatedale and Emerald areas of Washington Township. Approximately 130,000 gallons per day of wastewater is conveyed to and treated at the Slatington Wastewater Treatment Plant. Ownership of the system remains with Washington Township.

LCA PRE-TREATMENT PLANT (PTP)

LCA took over the operation in May 2006 and ownership in October 2009 of this 5.75 mgd facility built by the County of Lehigh in 1990. Currently the facility provides pre-treatment of high strength, predominantly food and beverage industry wastewater and commercial and domestic wastewater from Lowhill, Weisenberg and Upper Macungie Townships in areas up-stream of the wastewater treatment plant. The WTP also treats hauled waste, which is a significant revenue source for this plant. 2015 revenues are anticipated to decrease by 6%, primarily due to lower industrial charges. The plant is operated through a professional services contract with OMI, Inc. This service was publicly bid and a new 5 year contract was signed in May 2009. The new contract provides significant savings in the operational costs, which will be reinvested in plant capital that is reaching the end of its useful life. A five year contract extension was granted to OMI through 2018.

Boston Beer Company (BBC) started brewing operations at the former Pabst Brewery in April 2008. The brewery waste has become a very significant source of both waste and income for the WTP. As projected in 2009 BBC became the plant's largest customer and continues to increase production annually. Growth is expected to be 10% in 2015, as compared to 2014's budget.

Since 2008 significant capital investment was made in the WTP to rehabilitate aging, inefficient and inoperable equipment in anticipation of the significant increase in high strength brewery wastewater flow and strength, which in turn places added demands on plant equipment. Energy conservation measures were investigated in 2012 to reduce electrical demands and improve equipment and operational efficiencies. Several projects were started in 2013 to reduce energy costs. LCA completed the projects in 2014. The projects included the addition of a truck receiving station and the completion of the digester mixer replacements, which increased biogas production and reduce electrical needs. The construction of a combined power and heat system will be designed in 2015 if the gas production realized by the two projects results in adequate.

Planning level evaluation of upgrading the plant to full treatment capable of direct stream discharge and of future LCA wastewater treatment capacity needs have been completed. The upgrade of the WTP to full treatment is one of the viable options for future capacity development. More detailed planning will continue in 2015.

2015 BUDGET SUBURBAN DIVISION EXPENSE & REVENUE SUMMARY WASTEWATER FUND

	 2013 Actual	2014 Budget	2014 Estimate		2015 Budget
REVENUES:	•				
Operating and Nonoperating:					
Western Lehigh Interceptor System Little Lehigh Relief Interceptor System	\$ 6,868,071	\$ 6,631,417	\$ 6,167,212	\$	6,471,379
Phase 1	170,628	426,564	292,232		456,256
Little Lehigh Relief Interceptor System		-			
Phase 2	7,684	53,344	2,932	-	42,013
Common Rate Collector System (A)	708,035	727,830	723,247		744,491
Arcadia West	158,746	167,645	182,522		174,497
Wastewater Treatment Plant	6,814,288	8,271,519	8,278,326		7,796,737
Washington Township System	488,688	512,739	495,010		511,244
Lynn Township System (B)	321,242	366,475	363,428		393,347
Capital	3,579,467	6,275,000	2,169,185		5,395,750
Total Revenues	\$ 19,116,849	\$ 23,432,533	\$ 18,674,094	\$	21,985,714
EXPENSES:					
Operating and Nonoperating:					
Western Lehigh Interceptor System Little Lehigh Relief Interceptor System	\$ 6,868,071	\$ 6,631,417	\$ 6,167,212	\$	6,471,379
Phase 1	170,628	426,564	292,232		456,256
Little Lehigh Relief Interceptor System					
Phase 2	7,684	53,344	2,932		42,013
Common Rate Collector System (A)	612,249	836,454	633,567		763,922
Arcadia West System Lynn Township System (B)	141,465 -	124,253 287,524	229,151 257,943		298,581 312,410
Wastewater Treatment Plant	6,343,131	6,937,094	7,344,976		7,074,934
Washington Township System	488,688	512,739	487,053		511,244
Capital	3,579,467	6,275,000	2,169,185		5,395,750
Total Expenses	\$ 18,211,383	\$ 22,084,389	\$ 17,584,250	\$	21,326,489

⁽A) This budget includes the Heidelberg Heights, Wynnewood Terrace, Sand Spring, Weisenberg Township and Upper Milford Collector Systems.

Note: Expenses are net of depreciation.

⁽B) Acquired on March 1, 2012.

2015 BUDGET SUBURBAN DIVISION SOURCES OF OPERATING REVENUES - WASTEWATER FUND

WIL REVENUES: Set/778,734 \$ 6,5748,917 \$ 6,110,413 \$ 6,393,877 User Charges \$ 6,778,734 \$ 6,548,917 \$ 6,110,413 \$ 6,393,877 Interest Income - Revenue Fund 3,941 2,500 5,51,462 2,500 Other Income 6,888,071 6,831,417 6,107,212 6,750,000 TOtal 168,457 423,864 291,157 454,758 Operating Reserves 2 1,200 2 750 Operating Reserves 3 40,504 250 750 Other Income - Revenue Fund 1,667 1,000 60 750 Other Income - Revenue Fund 1,706,22 426,544 292,232 456,256 User Charges 6,011 51,544 1,507 40,013 Operating Reserves 1,012 1,507 42,013 User Charges 6,011 51,544 1,507 42,010 Operating Reserves 6,011 51,544 1,507 42,010 User Charges 6,011 693,695 <td< th=""></td<>
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Other Income 85,396 80,000 55,146 75,000 Total 6,868,071 6,531,417 6,167,212 6,471,379 LIRI - PHASE I REVENUES: User Charges 168,457 423,864 291,157 454,756 Operating Reserves 1 20 - - Interest Income - Revenue Fund 50 420,800 - 750 Other Income 1,667 1,000 650 750 Other Income 1,667 1,000 650 750 Other Income 6,011 51,544 29,232 456,256 LIRI - PHASE 2 REVENUES: 8 1,51,544 1,507 40,013 User Charges 6,011 51,544 1,507 40,013 Operating Reserves 6 1,517 1,507 40,013 Total 1,673 1,800 1,425 2,000 Total Function 6,66,15 69,895 703,531 718,991 Interest Income 41,486 28,585 19,101 25,00
Total FASE REVENUES:
LIRI - PHASE 1 REVENUES: User Charges 168,457 423,864 291,157 454,756 Operating Reserves 1,200 - 4,500 Interest Income - Revenue Fund 1,667 1,000 650 750 Total 170,628 426,564 292,232 456,256 LIRI - PHASE 2 REVENUES: 1,677 1,000 1,000 User Charges 6,011 51,544 1,507 40,013 Operating Reserves - 7 - 7 Interest Income - Revenue Fund 1,673 1,800 1,425 2,000 Total 7,684 53,344 2,932 42,013 COMMON RATE COLLECTOR SYSTEM REVENUES: (A) User Charges 666,015 698,695 703,531 718,991 Interest Income 534 550 615 500 Other Income 41,468 28,585 19,101 25,000 Total 708,035 727,830 723,247 744,491 ARCADIA WEST REVENUES: 1,577 1,577 1,577 User Charges 156,579 159,700 182,322 174,247 User Charges 158,749 159,700 182,322 174,247 User Charges 158,749 159,700 182,322 174,497 User Charges 1,577 1,577 2,000 2,000 Total 1,577 1,577 2,000 2,000 User Charges 412,882 440,300 422,958 429,821 User Charges 412,882 440,300 2,119 2,000 User Charges 7,503 71,339 69,840 79,348 Total 1,577 1,578 1,579 1,579 User Charges 7,503 7,139 69,840 79,348 Total 1,577 1,579 1,579 1,579 User Charges 319,204 384,600 362,002 392,097 User Charges 319,204 384,600 364,600 362,002 392,097 User Charges 319,204 384,600 364,600 3
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Total 170,628 426,564 292,232 456,256 LLRI - PHASE 2 REVENUES: 6,011 51,544 1,507 40,013 Operating Reserves - - - Interest Income - Revenue Fund 1,673 1,800 1,425 2,000 Total 7,684 53,344 2,932 42,013 COMMON RATE COLLECTOR SYSTEM REVENUES: (A) 534 550 615 500 User Charges 666,015 698,695 703,531 718,991 Interest Income 41,486 28,585 19,101 25,000 Other Income 41,486 28,585 19,101 25,000 Other Income 708,035 727,830 723,247 744,491 ARCADIA WEST REVENUES: 158,579 159,700 182,322 174,247 Use of Supplemental Revenues - 7,770 - Interest Income 167 175 20 250 WASHINGTON TWP REVENUES: 412,882 440,300 422,958 429,821 <
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User Charges 158,579 159,700 182,322 174,247 Use of Supplemental Revenues - 7,770 - Interest Income 167 175 200 250 Total 158,746 167,645 182,522 174,497 WASHINGTON TWP REVENUES: WASHINGTON TWP REVENUES: 412,882 440,300 422,958 429,821 Interest Income - 50 39 75 Other Income 768 1,000 2,119 2,000 Use of Supplemental Revenues 75,038 71,389 69,894 79,348 Total 488,688 512,739 495,010 511,244 LYNN TOWNSHIP COLLECTOR SYSTEM: (B) 319,204 364,600 362,062 392,097
Use of Supplemental Revenues - 7,770 - Interest Income 167 175 200 250 Total 158,746 167,645 182,522 174,497 WASHINGTON TWP REVENUES: User Charges 412,882 440,300 422,958 429,821 Interest Income - 50 39 75 Other Income 768 1,000 2,119 2,000 Use of Supplemental Revenues 75,038 71,389 69,894 79,348 Total 488,688 512,739 495,010 511,244 LYNN TOWNSHIP COLLECTOR SYSTEM: (B) 319,204 364,600 362,062 392,097
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LYNN TOWNSHIP COLLECTOR SYSTEM: (B) 319,204 364,600 362,062 392,097
User Charges 319,204 364,600 362,062 392,097
INICICAL INCOME
Other Income 1,868 1,650 1,140 1,000
Total 321,242 366,475 363,428 393,347
WASTEWATER TREATMENT PLANT
Hauler Fees 2,253,458 2,440,000 2,214,520 2,260,000
Industrial Charges 2,796,193 3,292,488 4,244,983 3,579,500
Penalties 33,934 25,000 220,236 110,000
Excess Removal Credits 1,721,332 2,439,188 1,589,057 1,772,394
Interest Income 2,098 1,000 1,361 1,000
Other Income 7,273 73,843 8,170 73,843
Total 6,814,288 8,271,519 8,278,326 7,796,737
Total Operating Revenues \$ 15,537,382 \$ 17,157,533 \$ 16,504,909 \$ 16,589,964

⁽A) Includes the following systems: Upper Milford, Weisenberg Township, Heidelberg Heights, Wynnewood Terrace, and Sand Spring.

⁽B) This system was acquired 2/29/12.

2015 BUDGET SUPPORTING DETAIL WASTEWATER OPERATING, NONOPERATING AND CAPITAL REVENUES

WESTERN LEHIGH INTERCEPTOR SYSTEM

User Charges Charges to municipalities to recover Allentown Wastewater Treatment and

Transportation, LCA Interceptor O&M and Debt Service.

Interest Income Investment earnings on operating reserves.

Other Income Includes reimbursement from non-signatories for sewer line flushing and

televising services, and signatory payments for additional lab testing

requests.

LITTLE LEHIGH RELIEF INTERCEPTOR SYSTEM - PHASE 1

User Charges Charges to municipalities to recover O&M and debt service costs for this

system.

Operating Reserves Use of reserves to cover costs of fuel spill remediation and tank

replacement.

Interest Income – Revenue Fund

Investment earnings on operating reserves.

Other Income Miscellaneous reimbursements.

LITTLE LEHIGH RELIEF INTERCEPTOR SYSTEM - PHASE 2

User Charges Charges to municipalities to recover O&M and debt service costs for this

system.

Interest Income - Revenue Fund

Investment earnings on reserves.

COMMON RATE COLLECTOR SYSTEMS

User Charges Charges to customers to the Upper Milford, Weisenberg Township,

Heidelberg Heights, Wynnewood Terrace and Sand Spring collector systems to cover operating and debt service costs. In 2010 the Authority

implemented a common rate structure for these collector systems.

Interest Income Interest earnings on reserves.

Other Income Includes lien administration and new customer initiation fees and other

income.

ARCADIA WEST SYSTEM

User Charges Charges to commercial users to recover systems operating costs.

Use of Supplemental Reserves used to supplement revenues to meet budgeted expenses.

Revenues

Interest Income Investment earnings on reserves.

2015 BUDGET SUPPORTING DETAIL WASTEWATER OPERATING, NONOPERATING AND CAPITAL REVENUES

WASHINGTON TOWNSHIP SYSTEM

Interest Income Investment earnings on reserves.

Other Income Includes lien administration and new customer initiation fees and other

income.

Use of Supplemental

Revenues

Reserves used to supplement revenues to meet budgeted expenses.

WASTEWATER TREATMENT PLANT (WTP)

Hauler Fees Includes strength and volume charges to wastewater haulers and annual

permit fees.

Industrial/Commercial

Charges

Includes charges to Boston Beer and Hilton Homewood Suites for their

discharges to the plant.

Excess Removal Credits Includes reimbursement for plant removals of BOD and TSS in excess of

250 parts per million (ppm) and 275 ppm, respectively. The WTP is

reimbursed at City of Allentown rates.

Interest Income Investment earnings on reserves.

Other income Includes charges to Upper Macungie for lab testing, surcharges to new

connections (Ocean Spray and Coke expansion) and other income.

LYNN TOWNSHIP SYSTEM

User Charges Charges to customers to recover system operating costs and debt service.

Interest Income Investment earnings on reserves.

Other Income Includes lien administration and new customer initiation fees and other

income.

2015 BUDGET SUPPORTING DETAIL WASTEWATER OPERATING, NONOPERATING AND CAPITAL REVENUES

WASTEWATER CAPITAL

Collector System Tapping Fees

Represents charges to new customers connecting to the various collector systems.

Inspection & Review Fees

Reimbursement of costs for connection inspections and plan reviews.

Treatment Capacity Fees

Charge to new customers for purchasing treatment capacity and ongoing financed charges to existing commercial customers for purchases of additional wastewater allocation in excess of 50,000 gallons per day.

Western Lehigh Interceptor Fees Charge to new customers for recovery of costs relating to the Western Lehigh Relief Facilities.

Little Lehigh Relief Interceptor Fees Charge to new customers for recovery of costs related to the Little Lehigh Relief facilities.

Reimbursement from Other Funds Reimbursement from other funds to cover general planning costs.

Contribution in Aid to Construction

Represents developer contribution towards Western Weisenberg Wastewater Treatment Plant project.

Borrowed Funds and Cash Reserves

Represents funds needed to cover capital costs in excess of capital revenues.

2015 BUDGET SUBURBAN DIVISION

OPERATING AND NONOPERATING EXPENSES

ALLOCATION UNIT: WASTEWATER - ALL FUNDS

	2013	2014		2014	2015
	Actual	Budget		Estimate	Budget
OPERATING EXPENSES:					
PERSONNEL:					
Permanent	\$ 267,281	\$ 365,845	\$	322,105	\$ 374,826
Overtime	23,057	7,314		30,189	29,428
Employee Benefits	 98,988	148,047		92,801	 131,585
Total	 389,325	 521,207		445,095	535,839
PURCHASE OF SERVICES:		 			
Internal Services - Overhead & Support	215,826	185,347		250,411	302,857
Utilities	173,774	242,765		248,729	251,800
Engineering	55,224	427,700		81,686	123,000
Exceptional Strength Analyses	9,588	40,320		41,969	40,400
General Analyses	64,741	55,600		43,403	50,600
Maintenance Services	198,045	332,235		152,176	424,850
Fuel Spill Remediation	2,600	2,600		2,000	2,800
Contract Operator	4,909,414	5,060,038		5,705,472	5,420,398
Compliance Expense	-	-		-	-
Treatment & Transportation	5,189,928	5,438,567		5,042,756	5,239,979
LCA WTP Treatment /Removals	2,000,415	1,598,651		1,589,057	1,403,340
Misc. Purchase of Services	144,417	79,160		75,836	136,350
Rental Charges	56,043	51,387		75,660	78,806
System Planning/Capital Management	38,319	-		-	-
I/I Rehabilitation Program	 1,660	20,000		-	20,000
Total	13,059,995	13,534,370		13,309,155	13,495,180
MATERIALS AND SUPPLIES:					
Fuel	21,444	37,245		21,216	50,850
Misc. Materials & Supplies	86,825	116,765		94,555	127,630
Equipment	35,507	101,950		78,871	95,250
Amortized Equipment	39,300	70,500		70,500	70,500
Total	183,075	 326,460		265,142	344,230
AMORTIZED PLANNING	147,828	147,828		147,828	 147,828
RESERVE FUND ALLOCATION	 -	-		.	-
DEPRECIATION & AMORTIZATION	3,994,824	4,048,736		4,038,421	4,105,676
TOTAL OPERATING EXPENSES	17,775,048	18,578,601		18,205,640	18,628,754
NONOPERATING EXPENSES:					
Interest Expense	168,190	253,538		215,307	229,305
Principal Reduction	824,700	875,873		910,093	1,029,606
Coverage	114,798	127,038		122,221	125,650
TOTAL NONOPERATING EXPENSES	1,107,688	1,256,449		1,247,621	1,384,561
TOTAL EXPENSES	\$ 18,882,736	\$ 19,835,050	\$	19,453,261	\$ 20,013,315
	 	 	-		

2015 BUDGET OPERATING AND NONOPERATING EXPENSES ALLOCATION UNIT: WASTEWATER - WESTERN LEHIGH INTERCEPTOR SYSTEM

·		2013 Actual	2014 Budget	2014 Estimate	2015 Budget
OPERATING EXPENSES:		, , , , , , , , , , , , , , , , , , , ,	 		
PERSONNEL:					
Permanent	\$	125,919	\$ 144,185	\$ 133,726	\$ 140,505
Overtime	•	8,182	_	11,140	13,507
Employee Benefits		46,453	53,528	36,790	50,131
Total		180,553	197,713	181,655	204,143
PURCHASE OF SERVICES:			1.28 · ·		
Internal Services - Overhead & Support		130,438	97,431	144,469	157,829
Utilities		20,935	25,000	29,160	29,600
Engineering		41,263	300,000	75,570	75,000
Compliance Expense		-	-	-	-
Exceptional Strength Analyses		9,588	40,320	41,969	40,400
General Analyses		31,370	9,995	12,899	2,900
Maintenance Services		40,531	93,830	32,606	145,700
Treatment & Transportation		3,478,472	3,328,295	3,109,018	3,420,375
LCA WTP Treatment /Removals		2,000,415	1,598,651	1,589,057	1,403,340
Misc. Purchase of Services		63,086	4,665	10,376	36,200
Rental Charges		35,088	27,044	42,233	41,069
System Planning/Capital Management		-	-	-	-
I/I Rehabilitation Program		1,660.24	 20,000	 -	 20,000
Total		5,852,846	5,545,230	5,087,357	 5,372,413
MATERIALS AND SUPPLIES:					
Fuel		10,600	11,000	9,565	11,000
Misc. Materials & Supplies		25,132	34,650	25,796	33,600
Equipment		16,788	29,500	49,487	36,900
Amortized Equipment		39,300	 70,500	70,500	 70,500
Total		91,820	145,650	 155,348	 152,000
AMORTIZED PLANNING		147,828	147,828	147,828	 147,828
RESERVE FUND ALLOCATION		-	_	-	
DEPRECIATION & AMORTIZATION		529,182	543,897	543,897	543,897
TOTAL OPERATING EXPENSES		6,802,229	 6,580,319	6,116,085	6,420,281
NONOPERATING EXPENSES:					
Interest Expense		74,223	67,253	67,682	60,055
Principal Reduction		421,630	428,576	428,171	435,774
Coverage		99,171	99,166	99,171	 99,166
TOTAL NONOPERATING EXPENSES		595,024	 594,995	 595,024	594,995
TOTAL EXPENSES	\$	7,397,253	\$ 7,175,314	\$ 6,711,109	\$ 7,015,276

OPERATING AND NONOPERATING EXPENSES ALLOCATION UNIT: WASTEWATER - LITTLE LEHIGH RELIEF INTERCEPTOR SYSTEM, PHASE 1

		2013 Actual	2014 Budget	2014 Estimate		2015 Budget
OPERATING EXPENSES:						
PERSONNEL:						
Permanent	\$	22,189	\$ 27,199	\$ 24,917	\$	34,190
Overtime		1,818	2,030	3,838		4,121
Employee Benefits		8,418	10,851	7,368		12,470
Total		32,425	 40,081	36,122		50,781
PURCHASE OF SERVICES:	-					
Internal Services - Overhead & Support		23,369	19,751	27,235		39,260
Engineering Services		. -	80,000	-		-
Compliance Expense		-	-	-		-
Fuel Spill Remediation		2,600	2,600	2,000		2,800
Utilities		73,729	122,200	130,483		123,400
Maintenance Services		19,901	52,100	8,545		109,300
Miscellaneous Services		360	450	286		5,800
Rental Charges		6,288	5,482	7,350		10,216
Total		126,247	 282,584	 175,899		290,776
MATERIALS AND SUPPLIES:						
Fuel		2,780	9,600	1,637		21,700
Misc. Materials & Supplies		2,219	6,350	3,530		6,500
Equipment		6,957	19,950	7,043		18,500
Total		11,956	35,900	12,210		46,700
RESERVE FUND ALLOCATION						-
DEPRECIATION & AMORTIZATION		87,295	88,591	88,591	·	88,591
TOTAL OPERATING EXPENSES		257,923	 447,155	312,823		476,847
NONOPERATING EXPENSES:		•				
Interest Expense		-	68,000	68,000		68,000
Principal Reduction		-	-	_		-
Coverage *		•		<u>-</u> _		
TOTAL NONOPERATING EXPENSES		-	68,000	68,000		68,000
TOTAL EXPENSES	\$	257,923	\$ 515,155	\$ 380,823	\$	544,847

2015 BUDGET OPERATING AND NONOPERATING EXPENSES ALLOCATION UNIT: WASTEWATER - LITTLE LEHIGH RELIEF INTERCEPTOR SYSTEM, PHASE 2

OPERATING EXPENSES:	2013 Actual	2014 Budget	2014 Estimate	2015 Budget
PERSONNEL:				
Permanent	\$ 2,616 , \$	8,471	\$ 1,265	\$ 2,833
Overtime	-	_	-	-
Employee Benefits	1,195	3,145	383	922
Total	3,810	11,616	1,648	3,755
PURCHASE OF SERVICES:				
Internal Services - Overhead & Support	2,546	5,724	731	2,903
Utilities	91	75	-	100
Compliance Expense		-	-	•
Maintenance Services	-	23,000	224	23,000
Miscellaneous Services	287	40	40	150
General System Planning	-	-	-	-
Rental Charges	 685	1,589	43	755
Total	 3,609	30,428	1,038	26,908
MATERIALS AND SUPPLIES:				
Fuel	265	300	246	350
Misc. Materials & Supplies	-	1,000	-	1,000
Equipment	 	10,000		10,000
Total	 265	11,300	246	11,350
DEPRECIATION & AMORTIZATION	 54,246	54,246	53,434	53,434
TOTAL EXPENSES	\$ 61,930 \$	107,590	\$ 56,366	\$ 95,447

2015 BUDGET OPERATING AND NONOPERATING EXPENSES ALLOCATION UNIT: WASTEWATER - COMMON RATE COLLECTOR SYSTEM

		2013 Actual	2014 Budget	2014 Estimate			2015 Budget
PERSONNEL:		Actual	 Dauget		Lotiniato		
Permanent	\$	75,445	\$ 110,053	\$	69,924	\$	89,288
Overtime	•	11,391	4,269		11,665		7,754
Employee Benefits		27,412	42,442		23,075		31,587
Total		114,248	156,764		104,664		128,629
PURCHASE OF SERVICES:			 <u> </u>				
Internal Services - Overhead & Support		24,348	20,642		19,525		22,340
Utilities		38,132	47,690		37,980		45,700
Treatment & Transportation		204,563	234,770		236,000		218,500
Contract Operating Svcs		32,491	34,200		34,700		35,500
Compliance Expense		-	-		-		-
External Lab Analysis		5,607	7,140		5,260		15,200
Maintenance Services		36,395	82,000		39,700		55,050
Miscellaneous Services		17,645	3,610		1,805		2,900
General System Planning		3,368	-		-		-
Rental Charges		5,540	 5,670		5,795		5,813
Total		368,088	 435,722		380,765		401,003
MATERIALS AND SUPPLIES:		- · - · - · - · - · - · - · - · · - ·					
Fuel		5,184	11,600		7,320		10,900
Misc. Materials & Supplies		27,375	24,845		18,540		27,730
Equipment		6,011	21,000		6,620		11,250_
Total		38,569	57,445		32,480		49,880
DEPRECIATION & AMORTIZATION	_	141,924	115,265		115,265		115,265
TOTAL OPERATING EXPENSES		662,829	765,196		633,174		694,776
NONOPERATING EXPENSES: DEBT SERVICE:							
Interest Expense		36,333	68,157		41,450		66,250
Principal Reduction		39,383	98,868		58,670		100,775
Coverage (A)		15,627	19,498		15,537		17,385
TOTAL NONOPERATING EXPENSES		91,343	 186,523		115,657		184,410
TOTAL EXPENSES	\$	754,173	\$ 951,719	\$	748,832	\$	879,187

Note: This budget includes the Heidelberg Heights, Wynnewood Terrace, Sand Spring, Weisenberg Township and Upper Milford Collector Systems.

⁽A) Coverage equals 3% of Operating Expenses less depreciation & amortization.

2015 BUDGET OPERATING EXPENSES ALLOCATION UNIT: WASTEWATER - ARCADIA WEST

	2013	2014	2014	2015
	 Actual	Budget	Estimate	Budget
OPERATING EXPENSES:				
PERSONNEL:				
Permanent	\$ 9,795	\$ 18,362	\$ 42,370 \$	38,358
Overtime	392	508	3,221	3,492
Employee Benefits	3,106	7,005	 12,097	13,622
Total	13,293	 25,875	57,688	55,472
PURCHASE OF SERVICES:				
Internal Services - Overhead & Support	2,282	2,550	11,422	8,577
Utilities	6,086	15,975	18,061	20,300
Contract Operating Svcs	-	-	-	-
Compliance Expense	-	-	-	
External Lab Analysis	24,152	29,820	21,751	21,900
Maintenance Services	58,457	8,200	19,488	19,200
Miscellaneous Services	162	850	325	700
General System Planning	34,348	-	•	-
Rental Charges	532	708	 2,833	2,232
Total	126,020	58,103	 73,880	72,909
MATERIALS AND SUPPLIES:				
Misc. Materials & Supplies	956	10,700	9,151	11,300
Fuel & Mileage	492	2,575	457	2,600
Equipment	 703	 2,000	105	1,800
Total	2,152	 15,275	9,713	15,700
DEPRECIATION & AMORTIZATION	31,852	 67,245	67,245	125,000
TOTAL OPERATING EXPENSES	173,317	166,498	208,526	269,081
DEBT SERVICE:	 · · · · ·			
Interest Expense	-	25,000	18,124	16,500
Principal Reduction	-	-	69,746	138,000
Coverage	-	_	_	-
TOTAL NONOPERATING EXPENSES	_	25,000	 87,870	154,500
TOTAL EXPENSES	\$ 173,317	\$ 191,498	\$ 296,396 \$	423,581

2015 BUDGET

OPERATING EXPENSES

ALLOCATION UNIT: WASTEWATER - LYNN TOWNSHIP SYSTEM

		2013 Actual		2014 Budget	2014 Estimate	2015 Budget
OPERATING EXPENSES:						
PERSONNEL:					•	
Permanent	\$	10,375	\$	16,473	\$ 20,470 \$	22,096
Overtime		165			-	186
Employee Benefits		4,621		6,115	 5,266	7,253
Total		15,161		22,588	25,735	29,535
PURCHASE OF SERVICES:						
Internal Services - Overhead & Support		10,858		11,131	20,102	22,834
Utilities		27,823		31,700	25,699	32,500
Contract Operating Svcs		72,277		72,000	72,666	72,000
Compliance Expense				-	=	-
External Lab Analysis		3,343		3,645	3,493	5,600
Maintenance Services		34,537		80,905	47,884	78,900
Miscellaneous Services		4,682		1,215	328	1,100
General System Planning		-		-	-	-
Rental Charges		2,757		3,090	 8,874	5,942
Total		156,277		203,686	179,046	218,876
MATERIALS AND SUPPLIES:		,				
Misc. Materials & Supplies		28,756		33,555	28,523	36,200
Fuel & Mileage		1,606		1,620	1,510	3,700
Equipment		4,929	٠	17,700	 15,616	15,000
Total		35,291		52,875	45,648	54,900
DEPRECIATION & AMORTIZATION	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	93,845		92,812	 92,809	92,809
TOTAL OPERATING EXPENSES		300,574		371,961	343,239	396,119
NONOPERATING EXPENSES: DEBT SERVICE:						
Interest Expense		_		_	_	-
Principal Reduction		_		_ `	_	_
Coverage (A)				8,374	7,513	9,099
TOTAL NONOPERATING EXPENSES			•	8,374	 7,513	9,099
TO TAL NONOFERATING LAI LIBES	_			T-10,0	.,0.10	
TOTAL EXPENSES	\$	300,574	\$	380,336	\$ 350,752 \$	405,219

Note: LCA acquired system on 3/1/12.

(A) Equates to 3% of operating expenses less Depreciation and Amortization.

2015 BUDGET OPERATING AND NONOPERATING EXPENSES ALLOCATION UNIT: WASTEWATER - WASHINGTON TWP COLLECTOR SYSTEM

	2013 Actual		2014 Budget	2014 Estimate			2015 Budget
OPERATING EXPENSES:							
PERSONNEL:							
Permanent	\$	8,401	\$ 9,860	\$	4,877	\$	10,670
Overtime		1,109	508		325		369
Employee Benefits		2,947	3,849		1,325		3,593
Total		12,458	14,216		6,527	-	14,632
PURCHASE OF SERVICES:							
Internal Services - Overhead & Support		9,851	7,005		5,215		11,312
Utilities		7,069	200		7,345		300
Treatment & Transportation		62,180	83,946		83,520		85,000
Maintenance Services		6,863	14,200		3,713		15,700
Engineering & Contract Operating Svcs		9,960	11,700		-		-
Compliance Expense			-		-		-
Miscellaneous Services		4,929	1,455		3,594		2,100
General System Planning		603	-		_		-
Rental Charges		1,868	1,944		1,516		2,944
Total		103,324	120,451		104,903		117,356
MATERIALS AND SUPPLIES:							
Fuel		517	550		481		600
Misc. Materials & Supplies		308	2,165		1,585		3,300
Equipment		118	1,800		<u>-</u>		1,800
Total		944	4,515		2,066		5,700
DEPRECIATION & AMORTIZATION	-	-	-		u		
TOTAL OPERATING EXPENSES		116,725	139,182		113,496		137,687
NONOPERATING EXPENSES: DEBT SERVICE:							
Interest Expense		23,534	25,128		20,051		18,500
Principal Reduction		348,429	 348,429		353,506		355,057
TOTAL NONOPERATING EXPENSES		371,963	373,557		373,557		373,557
TOTAL EXPENSES	\$	488,688	\$ 512,739	\$	487,053	\$	511,244

2015 BUDGET OPERATING EXPENSES ALLOCATION UNIT: WASTEWATER TREATMENT PLANT

	2013 Actual	2014 Budget			2014 Estimate		2015 Budget
OPERATING EXPENSES:							
PERSONNEL:							
Permanent	\$ 12,541	\$	31,242	\$	24,558	\$	36,887
Overtime	-		-		-		-
Employee Benefits	4,836		21,112		6,498	-	12,007
Total	17,377		52,354		31,056		48,894
PURCHASE OF SERVICES:							
Internal Services - Overhead & Support	12,134		21,112		21,712		37,802
Engineering	13,962		47,700		6,116		48,000
Contract Operating Svcs:			-				
Base	2,445,972		2,478,000		2,478,288		2,515,906
Electrical	791,820		741,000		744,933		759,117
Variable	1,000,000		923,138		1,252,396		1,237,875
Repairs	556,894		800,000		1,122,489		800,000
Compliance Expense	-		-		.		-
Treatment & Transportation	1,444,714		1,791,556		1,614,218		1,516,104
Permit/Regulatory	-		10,000		-		10,000
Lab Analysis	270		5,000		<u>.</u>		5,000
Maintenance Services	1,360		1,000		240		1,000
Miscellaneous Services	53,266		56,875		59,082		77,400
Rental Charges	 3,285		5,860		7,016		9,836
Total	6,323,676		6,881,240		7,306,490		7,018,040
Misc. Materials & Supplies	2,078		3,500		7,429		8,000
Equipment	· -		-		_		
Total	 2,078		3,500		7,429		8,000
DEPRECIATION & AMORTIZATION	3,056,480		3,086,680		3,077,180		3,086,680
TOTAL OPERATING EXPENSES	\$ 9,399,611	\$	10,023,774	\$	10,422,155	\$	10,161,614

2015 BUDGET SUPPORTING DETAIL WESTERN LEHIGH INTERCEPTOR SYSTEM WASTEWATER OPERATING AND NONOPERATING EXPENSES

PERSONNEL

Permanent/Overtime

Represent salaries and off-time of employees' direct time associated with LCA's

Suburban Wastewater System.

Employee Benefits

Comprised of medical coverage, defined benefit pension, long-term and short term disability, social security and Medicare contributions, flexible spending and

unemployment insurance.

PURCHASE OF SERVICES

Internal Services -Overhead & Support Overhead costs, which are not chargeable to specific funds, are allocated based on salaries within a fund as a percentage to total salaries.

Utilities

The bulk of the utility costs (\$22,000) are related to the operation of the Spring Creek Road Pump Station (SCRPS), which is driven by wet weather. Also included in this line item is this budget's share of cellular phone services (\$3,500), electric service for the meter stations (\$1,500), back-up phone dialer alarm service (\$300), DSL SCADA data line service (\$1,500), and natural gas

for the emergency power generator (\$800).

Engineering

Consultant expenses include on-call services for operational issues (\$25,000), and a continuation of the Physical Condition Assessment that began in 2004 (\$50,000).

Flow Monitoring Network

Not Applicable in this Budget.

Exceptional Strength Analyses (External)

This budget includes analyses of those WLI customers who potentially discharge high-strength waste. All analyses are being provided through contract services with an outside lab. Testing is in conformance with the LCA "2014 REPORT ON WASTEWATER USER CHARGES." For certain repeat testing, the expenses are charged to a municipality (see "Other Income" under Wastewater Revenues).

General Analyses (External)

General Analyses are those conducted for compliance with billing agreements with certain municipal entities. All analyses are being provided through contract services with an outside lab.

Maintenance Services

This budget includes: Repairs to meter stations (\$10,000), OMI costs (\$15,000), Pipe cleaning services (\$10,000), vehicle maintenance (\$5,700), sewer truck repairs (\$10,000), flow monitoring equipment repairs (\$1,500), TV equipment repairs (\$7,500), SCADA maintenance services and upgrades (\$41,000), lawn/trimming services (\$6,000), SCRPS generator maintenance (\$3,000), SCRPS pump service contract (\$4,200), SCRPS other equipment maintenance (\$2,500), SCRPS pump rebuilding (\$15,000), lab maintenance services (\$600), crane services for SCRPS (\$500), GIS software maintenance (\$3,200), electric study at SCPS (\$3,000), analyzer repairs (\$800), and miscellaneous repairs and maintenance (\$6,200).

2015 BUDGET SUPPORTING DETAIL WESTERN LEHIGH INTERCEPTOR SYSTEM WASTEWATER OPERATING AND NONOPERATING EXPENSES

Treatment & Transportation

For details, see the "LCA 2014 REPORT ON WASTEWATER USER

CHARGES."

LCA WTP Treatment/ Removal

Miscellaneous Services

Credits are given to the Authority's Wastewater Treatment Plant for removing BOD and TSS pounds in excess of treatment requirements. Credits are given at City unit rates.

Oity

This budget includes: GIS/IM Expense (\$32,200), lab software support (\$1,400), legal fees (\$800) and other miscellaneous services (\$1,800).

Rental Charges

Allocation of expenses related to the Authority Operations Center renovations and expansion which are being allocated over 30 years.

I/I Rehabilitation Program

This program includes contracted services and other expenses to repair leaks in the interceptor system.

MATERIALS & SUPPLIES

Fuel

This item is the allocation of a share of total fuel expense for the service vehicles. The allocation is based on budgeted uniformed personnel time. Increases in fuel costs are projected due to the volatility of this commodity.

Miscellaneous Materials & Supplies

This budget includes analyzers (\$5,000), SCADA supplies (\$6,000), samplers (\$1,200), mobile equipment (\$2,700), Sewer TV equipment (\$3,000), sewer sealant supplies (\$2,000), pump station supplies (\$1,200), manhole supplies (\$4,000) lab supplies (\$700), jet truck supplies (\$1,000) and miscellaneous supplies (\$6,800)

EQUIPMENT

Any single item costing more than \$5,000 is included in the Capital Budget. This budget includes: air analyzer replacements (\$8,000), samplers (\$6,500), sewer plugs (\$2,300), manhole covers (\$1,000), lab equipment (\$500), SCRPS equipment (\$1,700), TV camera equipment (\$7,500), SCADA equipment (\$3,000) and miscellaneous tools and safety equipment (\$6,400).

AMORTIZED EQUIPMENT

Represents the amortization of major equipment purchases over 5-10 year periods.

AMORTIZED PLANNING

Costs for the Hydraulic Model and Inflow and Infiltration Flow Monitoring and Investigation work are being recovered through rates over 10 and 20 years, respectively.

<u>AMORTIZATION</u>

This expense is calculated by the straight-line method using standard depreciation periods. Annual amortization over the life of the financing is included.

DEBT SERVICE

Includes interest and principal on the Spring Creek Force Main and Pump Station and the Flow Equalization Basin projects currently financed through Pennyest loans.

2015 BUDGET SUPPORTING DETAIL LITTLE LEHIGH RELIEF INTERCEPTOR SYSTEM - PHASE 1 WASTEWATER OPERATING AND NONOPERATING EXPENSES

PERSONNEL

Permanent/Overtime The established operational and preventative maintenance programs will

continue.

Comprised of medical coverage, defined benefit pension, long-term and **Employee Benefits**

short term disability, social security and Medicare contributions, flexible

spending and unemployment insurance.

PURCHASE OF SERVICES

Internal Services -**Overhead & Support** Overhead costs, which are not chargeable to specific funds, are allocated

based on salaries within a fund as a percentage to total salaries.

The power expense (\$121,000) reflects an estimate of the run time at the **Utilities**

Park Pump Station and is ultimately weather dependent. The remaining cost is DSL data line service (\$1,900) and a share of the cellular phone

service (\$500).

This budget is for miscellaneous consulting and engineering services for Engineering

inspection of the force main.

Fuel tank rental (\$2,800). **Fuel Spill Remediation**

This budget includes: force main inspection (\$50,000), pump maintenance **Maintenance Services**

> (\$28,500), annual maintenance contracts for the pump station (\$1,500), control system repairs (\$2,500), instrument maintenance contract (\$1,500), generator maintenance (\$3,000), meter maintenance (\$1,800), SCADA maintenance and upgrades (\$1,500), Flo-Matcher maintenance (\$3,000), equipment maintenance (\$2,000), site maintenance (\$4,400),

and miscellaneous maintenance (\$9,600).

This budget includes a GIS/IM expense (\$5,500) and miscellaneous Miscellaneous Services

expenses (\$300).

Allocation of expenses related to the Authority Operations Center Rental Charges

renovations and expansion which are being allocated over 30 years.

MATERIALS & SUPPLIES

This item is the allocation of a portion of the total LCA gasoline and diesel **Fuel**

fuel expense based on budgeted operations personnel time.

Miscellaneous Materials

& Supplies

This budget includes: oils and greases (\$300), SCADA supplies (\$700), analyzers (\$1,500), air releases (\$500) and miscellaneous supplies

(\$3,500).

This budget includes: heat exchangers (\$6,000), Flo-matcher (\$4,400), **EQUIPMENT**

Sluice gate motor and pump (\$4,000) exhaust fan motor (\$600), sensors

(\$400), pump packing rings (\$100) and misc control equipment (\$3,000).

Depreciation expense is calculated by the straight-line method using

DEPRECIATION AND AMORTIZATION

standard depreciation periods.

Includes interest expense on Park Pump Station Improvements.

DEBT SERVICE

2015 BUDGET SUPPORTING DETAIL LITTLE LEHIGH RELIEF INTERCEPTOR SYSTEM - PHASE 2 WASTEWATER OPERATING AND NONOPERATING EXPENSES

PERSONNEL

Permanent/Overtime

The established operational and preventative maintenance programs will

continue.

Employee Benefits

Comprised of medical coverage, defined benefit pension, long-term and short term disability, social security and Medicare contributions, flexible

spending and unemployment insurance.

PURCHASE OF SERVICES

Internal Services Overhead & Support

Overhead costs, which are not chargeable to a specific fund are allocated

based on salaries within a fund as a percentage to total salaries.

Maintenance & Miscellaneous Services

This budget includes siphon chamber cleaning (\$20,000), other maintenance services (\$3,000) and cellular phone costs (\$100).

Rental Charges

Allocation of expenses related to the Authority Operations Center renovations and expansion which are being allocated over 30 years.

MATERIALS & SUPPLIES

Fuel

Allocation of a portion of the total LCA fuel expense for the service

vehicles based on budget uniformed personnel time.

Miscellaneous Materials

& Supplies

Miscellaneous manhole supplies (\$1,000).

EQUIPMENT

Miscellaneous equipment as may be required. Odor control for vent pipes

(\$10,000)

DEPRECIATION AND AMORTIZATION

Depreciation expense is calculated by the straight-line method using

standard depreciation periods.

2015 BUDGET SUPPORTING DETAIL COMMON RATE COLLECTOR SYSTEM WASTEWATER OPERATING AND NONOPERATING EXPENSES

PERSONNEL

Permanent/Overtime Established programs for preventive maintenance of the meter station and

collection system, emphasizing I/I control, will continue.

Employee Benefits Comprised of medical coverage, defined benefit pension, long-term and

short term disability, social security and Medicare contributions, flexible

spending and unemployment insurance.

PURCHASE OF SERVICES

Internal Services Overhead

Overhead costs, which are not chargeable to specific funds, are allocated

based on salaries within a fund as a percentage to total salaries.

Utilities This item includes power costs (\$42,000), share of cellular phone service

(\$1,700), and phone service for dialers (\$2,000).

Treatment & Transportation

Represents charges to the Upper Milford and Weisenberg Township Collector Systems for flow and strength based on sample strength or normal strength levels for non-sampled customers. This category includes costs associated with the Western Lehigh Interceptor, the Little

Lehigh Interceptors and Emmaus transportation charges.

Maintenance Services

This budget includes treatment plant maintenance (\$17,000), collection

system maintenance (\$10,000), line cleaning (\$5,000), sludge hauling (\$16,000), Monk's Security (\$2,500) generator maintenance (\$1,300), and

miscellaneous maintenance and repairs (\$3,250).

Miscellaneous Services This budget includes permit fees (\$2,250) and miscellaneous services

and/or lien fees (\$650).

General System Planning General System planning expenses which are not attributable to any

specific capital project.

Rental ChargesAllocation of expenses related to the Authority Operations Center renovations and expansion which are being allocated over 30 years.

MATERIALS & SUPPLIES

Miscellaneous Materials & Supplies

Fuel

This budget includes chlorine (\$1,950), soda ash (\$4,400), sodium thiosulfate (\$1,100), clara floc (\$1,600), pH buffer (\$100), odor control materials (\$650), pumping supplies (\$2,600), collection system supplies (\$3,550), treatment plant supplies (\$7,400), miscellaneous lab supplies

(\$800), and miscellaneous supplies (\$3,580).

This item is the allocation of a share of total fuel expense for the service

vehicles and is based on budgeted uniformed personnel time.

EQUIPMENT This budget includes, blower and motors (\$5,850) and miscellaneous

equipment (\$5,400).

2015 BUDGET SUPPORTING DETAIL COMMON RATE COLLECTOR SYSTEM WASTEWATER OPERATING AND NONOPERATING EXPENSES

DEPRECIATION AND AMORTIZATION

Depreciation expense is calculated by the straight-line method using standard depreciation periods. Amortized planning costs are included.

DEBT SERVICE

Includes interest (2.25%) and principal payments on 2011 Sewer Revenue Note for the Heidelberg Heights Wastewater Treatment plant built in the late 1990's and interest (2.43%) and principal on borrowings for the Wynnewood Terrace and the Sand Spring System acquisitions. In addition, interest (2.25%) is included for the 2011 borrowing for the Vera Cruz project in Upper Milford Township. Coverage at 3% of annual operating expenses is included.

2015 BUDGET SUPPORTING DETAIL ARCADIA WEST WASTEWATER OPERATING EXPENSES

PERSONNEL

Permanent/Overtime

This budget includes the collection system & pumping stations located in the Arcadia West Industrial Park (AWIP) in Weisenberg Township (note: AWIP WTP is decommissioned and the wastewater is currently being hauled to the LCA WTP). Established programs for preventive maintenance and the original collection system, emphasizing I/I control, will continue.

Benefits

Comprised of medical coverage, defined benefit pension, long-term and short term disability, social security and medicare contributions, flexible spending and unemployment insurance.

PURCHASE OF SERVICES

Internal Services-Overhead & Support Overhead costs, which are not chargeable to specific funds, are allocated based on salaries within a fund as a percentage to total salaries. For this system the allocation percentage is further reduced to 20% of the salary ratio, since there are less than 250 customers.

Utilities

This line includes power costs to operate the Arcadia pump stations (\$18,800), phone service for dialers (\$1,200) and this budget's share of cellular phone service (\$300).

External Lab Analyses

External lab costs are budgeted to monitor the wastewater strength from the Arcadia customers individually and the combined influent wastewater strength for the proposed new WTP.

Contract Operating Services

Not applicable in this budget because the Arcadia WTP has been decommissioned.

Maintenance Services

Maintenance services are primarily utilized to operate and maintain the system and include the hauling of wastewater from the decommissioned Arcadia West wastewater treatment plant to the LCA WTP (\$12,000), SCADA updates (\$30,000) site maintenance (\$2,700), generator service (\$1,500), collection system repairs (\$1,000) and miscellaneous maintenance (\$2,000).

Miscellaneous Services

This budget includes a certification fee (\$400) and miscellaneous services (\$300).

Rental Charges

Allocation of expenses related to the Authority Operations Center renovations and expansion which are being allocated over 30 years.

MATERIALS & SUPPLIES

Miscellaneous Supplies & Materials

This budget includes treatment plant chemicals (\$8,500) collection system supplies (\$400), treatment plant supplies (\$1,200), pumping supplies (\$300) and other supplies (\$900).

Fuel

This item is the allocation of a share of total fuel expense for the service vehicles and is based on budgeted uniformed personnel time.

2015 BUDGET SUPPORTING DETAIL ARCADIA WEST WASTEWATER OPERATING EXPENSES CONTINUED

Equipment

This budget includes lab equipment (\$800), collection system equipment (\$500)

and other miscellaneous equipment (\$500).

DEBT SERVICE

Represents interest expense payable on the new Pennvest loan for the Western

Weisenberg Wastewater Treatment Plant project.

DEPRECIATION & AMORTIZATION

Depreciation expense is calculated by the straight line method using standard

depreciation periods.

2015 BUDGET SUPPORTING DETAIL LYNN TOWNSHIP WASTEWATER OPERATING EXPENSES

PERSONNEL

This budget includes the collection system & pumping stations located in the Permanent/Overtime

Lynn Township. Established programs for preventive maintenance and the

original collection system, emphasizing I/I control, will continue.

Comprised of medical coverage, defined benefit pension, long-term and short **Benefits**

term disability, social security and medicare contributions, flexible spending and

unemployment insurance.

PURCHASE OF SERVICES

Overhead costs, which are not chargeable to specific funds, are allocated based Internal Serviceson salaries within a fund as a percentage to total salaries. Overhead & Support

This line includes power costs to operate the Lynn Township WTP (\$29,500), **Utilities**

phone service for dialers (\$900), and this budget's share of cellular phone

service (\$2,100).

External lab costs are budgeted to monitor the wastewater strength from the **External Lab Analyses**

This system will be contract operated with oversight by and maintenance **Contract Operating**

assistance from LCA.

Maintenance services are primarily utilized to operate and maintain the system Maintenance Services

include sludge hauling (\$25,000), I/I expense (\$20,000), treatment plant maintenance (\$5,000), site maintenance (\$1,200), collection system repairs (\$12,500), pump services (\$2,500), generator maintenance (\$1,000) and other

maintenance services (\$11,700).

This budget includes a permit fee (\$600) and miscellaneous services (\$500). Miscellaneous Services

Includes expenses which are not attributable to any specific capital project.

General System Planning

Rental Charges

Services

Allocation of expenses related to the Authority Operations Center renovations

and expansion which are being allocated over 30 years.

MATERIALS & SUPPLIES

This budget includes treatment plant chemicals (\$29,900), treatment plant Miscellaneous Supplies & supplies (\$1,400), pumping supplies (\$1,500), collection system supplies **Materials**

(\$1,300) and other miscellaneous supplies (\$2,100).

This item is the allocation of a share of total fuel expense for the service vehicles Fuel

and is based on budgeted uniformed personnel time.

This budget includes Telog equipment (\$4,000), replacement pumps (\$5,800), Equipment

replacement blower (\$2,200), variable speed drives (\$500), lab equipment

(\$1,000) and other miscellaneous equipment (\$1,500).

Depreciation expense is calculated by the straight line method using standard **DEPRECIATION &** AMORTIZATION

depreciation periods.

2015 BUDGET SUPPORTING DETAIL WASTEWATER TREATMENT PLANT WASTEWATER OPERATING AND NONOPERATING EXPENSE

PERSONNEL

Represents salaries and off-time allocated for staff oversight of treatment Permanent

plant operations.

Comprised of medical coverage, defined benefit pension, long-term and **Employee Benefits**

short term disability, social security and Medicare contributions, flexible

spending and unemployment insurance.

PURCHASE OF SERVICES

Overhead & Support

Overhead costs, which are not chargeable to specific funds, are allocated Internal Services based on salaries within a fund as a percentage to total salaries.

The budget includes consulting fees for plant optimization assistance and **Engineering Services**

an Operations Audit on the Contract Operating Services.

Cost of Operations Management Inc. (OMI) services to operate the plant Operational Services

and includes a portion of plant repairs.

Represents costs associated with the Western Lehigh and Little Lehigh **Treatment &** Interceptor systems for disposal of wastewater hauler and treatment plant **Transportation**

discharges.

The budget includes permit fees as a result of increased PADEP fees. Permit/Regulatory

Represents lab testing for special samples and water quality parameters Lab Analyses

and duplicate analysis for compliance evaluation.

The budget includes lawn services. **Maintenance Services**

The budget includes property and pollution liability insurances (\$49,900), Miscellaneous Service

permit regulatory expense (\$10,000), printing expenses (\$2,500) and

miscellaneous expenses (\$15,000).

Allocation of expenses related to the Authority Operations Center Rental Charges

renovations and expansion which are being allocated over 30 years.

MATERIALS AND SUPPLIES

Misc. Materials and

Supplies

Includes miscellaneous chemicals and other supplies needed for plant

operation.

Equipment

Includes miscellaneous items.

DEPRECIATION & AMORTIZATION Depreciation expense is calculated by the straight line method using

standard depreciation periods.

2015 BUDGET SUPPORTING DETAIL WASHINGTON TOWNSHIP WASTEWATER OPERATING EXPENSES

PERSONNEL

Permanent/Overtime Assumes a full year of operation. Personnel hours include equipment

maintenance, collection system maintenance, alarm responses and

customer service.

Benefits Comprised of medical coverage, defined benefit pension, long-term and

short term disability, social security and Medicare contributions, flexible

spending and unemployment insurance.

PURCHASE OF SERVICES

Internal Services-Overhead & Support Overhead costs, which are not chargeable to specific funds, are allocated

based on salaries within a fund as a percentage to total salaries

Utilities This line includes a share of cellular phone service (\$300).

Engineering Services For any miscellaneous engineering services as needed.

Treatment and Transportation

Represents the cost billed by Slatington for treatment of the Washington

Township wastewater.

Contract Operating Services

A contract operator will be used to provide daily checks of the pumping

stations and meter stations.

Maintenance Services

Maintenance services include: pump and meter station repairs (\$1,200),

emergency hauling (\$1,000), collection system maintenance (\$5,000), pump maintenance (\$5,000), generator maintenance (\$1,500), and

miscellaneous maintenance (\$2,000).

Miscellaneous Services

This budget includes lien filings (\$1,000), State Board Annual Fee (\$100)

and miscellaneous services (\$1,000).

Rental Charges

Allocation of expenses related to the Authority Operations Center

renovations and expansion which are being allocated over 30 years.

MATERIALS & SUPPLIES

Miscellaneous Supplies &

Materials

This budget includes collection system supplies (\$1,000), electrical supplies (\$150), customer service supplies (\$150), misc pumping

supplies (\$1,500) and miscellaneous supplies (\$500).

Fuel

This item is the allocation of a share of total fuel expense for the

service vehicles and is based on budgeted uniformed personnel time.

Equipment

This budget includes replacement pumps (\$1,500) and other

miscellaneous equipment (\$300).

Debt Service

Represents scheduled interest and principal payments on Pennvest

loan assumed by LCA through the system acquisition.

2015 BUDGET SUBURBAN DIVISIONS

SUBURBAN DIVISIONS WASTEWATER CAPITAL

The major activities included in the 2015 Budget are continuation of the on-going work associated with WLI Signatory I/I Investigation & Remediation program and the selection of Central Lehigh Valley future wastewater capacity alternative. Other projects include the Wynnewood Main Pump Station and Force Main replacement; and Wynnewood I & I Remediation. In addition, components of the Lynn Township Wastewater Treatment Plant Upgrades & Expansion is also projected to be under construction in 2015.

Project	2015 Budget	2015 Project Stage
WLI Signatory I/I Investigation & Remediation	\$700,000.	Various
Central Lehigh Valley Wastewater Capacity Planning & Expansion	\$150,000	Act 537 Planning
Wynnewood Sewer System I & I Remediation	175,000	Construction
Wynnewood Sewer System Improvements	850,000	Construction
Lynn Township WTP Upgrades and Expansion	780,000	Construction Phase-1

2015 BUDGET

CAPITAL EXPENDITURES SUBURBAN DIVISION WASTEWATER

Project		Estimated Project	Estimated Costs	2015	Beyond 2015
Project	Priority	Cost	Through 2014	Budget	2015
General:					
General Sewer System Acquisition & Planning	High	Annual	\$ -	\$ 60,000	\$ -
Subtotal	. •	1	-	60,000	•
LCA Wastewater Treatment Plant					
General Improvements	High	10,050,000	650,000	900,000	8,500,000
Biogas Energy Related Improvements	High	5,390,000	1,860,000	200,000	3,330,000
Subtotal			2,510,000	1,100,000	11,830,000
Western Lehigh Interceptor System:					
Capital Management	High	Annual		10,000	
Sewer Mains, Connections & System Planning	High	Annual		5,000	
Mobile Equipment	High	Annual		64,750	
Other Equipment	High	Annual	-	50,000	
Central Lehigh Valley Wastewater Capacity Planning & Expansion	-	80,506,000	820,000	150,000	79,536,000
Signatory I/I Investigation & Remediation Program		45,000,000	3,500,000	700,000	40,800,000
Interceptor Access/ Easement Acquisitions	Medium	791,000	1,000	250,000	540,000
Spring Creek Pump Station Upgrades	Medium	283,000	2,500	280,500	
Subtotal		·	4,323,500	1,510,250	120,876,000
Little Lehigh Relief Interceptor System:					
Sewer Mains, Connections & System Planning	High	Annual	-	1,000	
Park Pump Station Improvements	High	2,327,000	180,000	600,000	1,547,000
Subtotal	,g.,	_,0,000	180,000	601,000	1,547,000
Upper Milford Township:					
Sewer Mains, Connections & System Planning	High	Annual	_	5,000	
• -	High	ranioa		5,000	
Subtotal			-		
Northern Lehigh Service Area:	11:	Annual		2,000	
Sewer Mains, Connections & System Planning	High	Annual	-	175,000	_
Common Rate Collector System Upgrades and Improvements	High	175,000	400.000	•	338,000
Wynnewood Sewer System Improvements	High	1,308,000	120,000	850,000	
North Whitehall Township Act 537 Plan Update	Medium	35,000	2,000	10,000	23,000 6,710,000
Jordan Creek Wastewater System (1)	Medium	7,055,000	320,000	25,000 475,000	
Wynnewood I/I Investigation and Remediation Program	Medium	695,000	40,000	175,000	480,000
Sand Spring Wastewater System Improvements	Medium	1,500,000	-	25,000	1,475,000
Heidelberg Heights I/I Investigation and Remediation Program	Medium	555,000		50,000	505,000
Subtotal			482,000	1,312,000	9,531,000
Weisenberg Township:					
Sewer Mains, Connections & System Planning	High	Annual		5,000	
Subtotal			-	5,000	
Lynn Township					
Sewer Mains, Connections & System Planning	High	Annual		2,500	
Wastewater Treatment Plant Improvements & Expansion	High	3,785,000	100,000	\$ 800,000	2,885,000
			100,000	802,500	2,885,000
Total Wastewater Capital Expenditures			\$ 7,595,500	\$ 5,395,750	\$ 146,669,000

⁽¹⁾ Includes LCA WTP @ Kidspeace and Offsite Conveyance Facilities

Note: Projects in bold type will not proceed beyond the planning phase, or beyond current authorized phase without specific authorization from the LCA Board subsequent to the adoption of this budget.

2015 BUDGET SUPPORTING DETAIL SUBURBAN DIVISIONS WASTEWATER CAPITAL EXPENDITURES

General Sewer
Acquisitions & Planning

Staff and consultant involvement in actively pursuing system acquisitions (2015 Cap Ex. \$60,000).

Wastewater Treatment Plant- General Improvements This is an on-going multi-year program to address the continued reliability of the WTP (2015 Cap Ex \$900,000).

Biogas Energy Related Improvements

This multi-year project implements the biogas related recommendations of the 2011 energy/bio-gas study. The project includes the construction of a Truck Waste Receiving Station completed in 2013 and Primary Digester Mixer replacements completed 2014, which are necessary to increase biogas production, and an on-site cogeneration and heat recovery system (CHP) that will utilize the biogas produced to generate approximately 75% of the WTPs electrical power needs. CHP design, if applicable is expected to start in mid-2015 (2015 Cap Ex \$200,000).

Capital Management - WLI

Management activities and general engineering planning as required (\$10,000).

Sewer Mains, Connections & System Planning

Capital Works services required for system extensions and connections in all systems including the reimbursable costs of plan review and construction inspection. Also includes the cost of general sewer system planning, all systems (2015 Cap Ex \$20,000).

Mobile Equipment

1 easement tractor and 1 truck (2015 Cap Ex \$64,750)

Other Equipment

Equipment that is necessary to maintain service integrity. Items include line plugs, sampling equipment, electric and electronic equipment, I/I equipment, etc. (2015 Cap Ex \$50,000).

Central Lehigh Valley Wastewater Capacity Planning & Expansion

The City of Allentown does not currently have enough available wastewater treatment capacity to meet LCA's future needs. Updating the 537 Plan is a primary focus this budget year to identify the best alternative for future wastewater capacity. Primary alternatives include increasing capacity at the City of Allentown Wastewater Treatment Plant (WTP); or upgrading the LCA WTP to full treatment (2015 Cap Ex. \$150,000).

Signatory I/I Investigation & Remediation Program

This multiyear on-going I & I reduction project is composed of flow monitoring in LCA and Signatory collection systems tributary to the WLI, approval of the SCARP, SSES investigatory work. Preliminary Objectives Evaluation, Level of Service Modeling and many other tasks ultimately culminating with the work necessary to facilitate the removal of I & I in segments of systems identified with unacceptable levels of I & I 2015 Cap Ex (\$700,000).

Interceptor Access & Easements Acquisition

This multi-year project includes existing LCA easement clearing and grubbing and/or easement acquisitions for equipment access to LCA Western Lehigh Interceptor. (2015 Cap Ex \$250,000).

2015 BUDGET SUPPORTING DETAIL SUBURBAN DIVISIONS WASTEWATER CAPITAL EXPENDITURES

Spring Creek Pump Station Upgrades

This project includes the design and construction of two new motor operators with SCADA control for the 30" weir slide gates. Currently these side gates are manually operated (2015 Cap Ex \$280,500).

Park Pump Station Improvement

This multi-year on-going project addresses the infrastructure repairs, improvements and upgrades necessary for the 27-year-old facility. Included is full SCADA control of the facility, installation of a new double walled underground fuel oil tank; and existing hydraulic sluice gate, upgrade to VFD motor controls and associated equipment and other items identified and prioritized in a condition assessment report completed by our consultant, Malcolm Pirnie Inc., (2015Cap Ex \$600,000).

Wynnewood Sewer System Improvements

This on-going multi-year project includes the design, permitting and construction of improvements in the existing collection system and at the wastewater treatment plant, acquired in July, 2003. Construction to replace the aged primary pumping and station force main is expected to start in in early 2015. Additional system improvements, if justified, will be executed in as needed. (2015 Cap Ex (\$850,000).

North Whitehall Township Act 537 Plan Update - NL

North Whitehall Township will be reevaluating their 2009 ACT 537 Plan which identified a proposed regional wastewater treatment plant located on a five-acre tract on the Kids Peace Campus. The Township will be assuming the lead role on this effort but has requested that LCA provide support and expertise as required (2015 Cap Ex \$10,000).

Jordan Creek Wastewater System - NL

This multi-year on-going project includes the acquisition of a site at the Kids Peace campus for a regional wastewater treatment plant, the design and construction of a 200,000-gpd wastewater treatment plant and pump station and other facilities necessary to provide wastewater service to Kids Peace, Wal-Mart and other properties in the Jordan Creek watershed. The project is currently on hold pending the outcome of the North Whitehall Act 537 Plan Update (2015 Cap Ex \$25,000).

Wynnewood Sewer System I/I Investigation and Remediation Program

This multi-year project includes, flow metering, inspecting all properties for floor drains, sump pumps or any other illegal connections to the sanitary sewer system, inspecting manholes, televising sewer mains & laterals. In addition, a yearly allowance is included to repair identified I & I problems, which is subject to change dependent upon what is found (2015 Cap Ex \$175,000).

2015 BUDGET SUPPORTING DETAIL SUBURBAN DIVISIONS WASTEWATER CAPITAL EXPENDITURES

Sand Spring Wastewater System Improvements

This multi-year project includes, includes a condition evaluation of the Sand Spring WWTP and development of a remediation plan and facilitation of the related repairs. In the long-term, assumed in years 6-10 when the proposed regional Jordan Creek WWTP is constructed the Sand spring WWTP will be abandoned (if justified by new development growth) and a pump station and ~6,200 I. F. of force main will be constructed to convey the wastewater to the new regional WWTP. (2015 Cap Ex \$25,000).

Heidelberg Heights I/I Investigation and Remediation Program

This multi-year project includes flow monitoring, SSES work in areas identified and some funding for remediation measures. (2015 Cap Ex \$50,000).

Lynn Township- Wastewater Treatment Plant Upgrades & Expansion

This multi-year project is envisioned to be executed in two phases. Phase-1 includes disinfection facility and influent chamber upgrades and is expected to be complete in late 2014. Phase-2, if warranted is the expansion the WTP capacity from 80,000 GPD to 160,000 GPD. The WTP Upgrades & Expansion was designed and permitted by Gannett Fleming for the Lynn Township Sewer Authority prior to the LCA acquisition of the system. Phase-2, the WTP expansion addressed in the Townships Act 537 Plan was driven by system infiltration inflow (I/I) issues and projected growth, however we are reevaluating certain assumptions regarding the sizing of the components of WTP as a significant amount of I/I has been removed from the collection system since the initial design. Timing of the WTP expansion will be dependent upon I/I remediation efforts and growth (2015 Cap Ex \$800,000).

LEHIGH COUNTY AUTHORITY CITY DIVISION

2015 BUDGET CITY DIVISION SUMMARY OF REVENUES AND RESERVE FUNDS

	2013 Actual		2014 Budget	2014 Estimate		2015 Budget
OPERATING FUNDING				 		
OPERATING REVENUES:						
Water System	\$ 6,748,381	\$	16,411,329	\$ 16,380,020	\$	16,696,347
Wastewater System	 6,244,922		16,400,394	 14,667,870	_	14,308,588
Total	12,993,303		32,811,723	31,047,891		31,004,934
OPERATING EXPENSES (NET OF DEPRECIATION):						
Water System	2,260,974		8,550,634	7,458,961		7,570,895
Wastewater System	2,028,199		9,337,414	8,237,887		8,961,100
Other Expenses	-		-	-		
Total	4,289,172		17,888,048	15,696,848		16,531,995
SURPLUS (DEFICIT) - OPERATING RESERVE	8,704,131	-	14,923,675	15,351,042		14,472,940
DEBT SERVICE & RESERVES:						
Interest Expense	4,131,778		13,047,722	13,047,722		13,047,722
Interest Income	-		(20,000)	(8,071)		(462,500)
Bond Discount Amortization	-		316,622	316,622		316,622
Capitalized Interest	-		(1,350,000)	(1,350,000)		(1,350,000)
Total	 4,131,778		11,994,344	12,006,273		11,551,844
SURPLUS (DEFICIT) AFTER USE OF RESERVES	\$ 4,572,353	\$	2,929,331	\$ 3,344,769	\$	2,921,096
Debt Service Coverage	2.11		1.28	1.31		1.28
CAPITAL FUNDING						
NON-OPERATING REVENUES:						
Water System	\$ 21,269	\$		\$ -	\$	-
Wastewater System	 -		<u>.</u>	-		
Total	21,269		-	-		~
CAPITAL CONTRIBUTIONS:						
Water System	571,000		1,620,000	-		1,903,500
Wastewater System	405,000		3,769,000	-		3,730,000
Total	 976,000		5,389,000	-		5,633,500
BORROWED FUNDS & RESERVES:						
Water System	367,500		3,359,000	4,053,807		7,264,500
Wastewater System	446,000		5,278,000	3,451,893		5,329,995
Total	813,500		8,637,000	7,505,700		12,594,495
CAPITAL EXPENDITURES	 1,789,500		14,026,000	 7,505,700		18,227,995
SURPLUS (DEFICIT) - CAPITAL RESERVE FUND	\$ 21,269	\$	· -	\$ -	\$	-

CITY DIVISION WATER

2015 BUDGET

WATER FUND-CITY OPERATING BUDGET

The Authority operates the Water System for the City of Allentown under a long term lease/concession agreement. The system consists of a 30 mgd water treatment plant, water intake structure, various storage tanks, reservoirs and numerous pump stations. There are two Water Fund divisions – Treatment Plant Division and Distribution Division. Separate budgets are presented for each division to track and maintain expenses.

Responsibilities for services include monitoring water quality; operating and maintaining the supply sources for the treatment facility, reservoirs, tanks, transmission and distribution pipe networks; customer metering, billing and response to customer service needs.

Each division is affected by Federal and Pennsylvania Safe Drinking Water Regulations. Depending on the source, differing analyses are required for water quality monitoring. State and Local regulations also have an impact on water quality, performance monitoring and reporting.

The consumer base is located throughout the City of Allentown. Water is also provided to surrounding areas through the use of system interconnects. Sources of supply include two groundwater springs – Schantz and Crystal. In addition, two surface water sources include the Little Lehigh Creek and the Lehigh River. Average daily demand for 11 months of 2014 was 18.1 mgd.

Customer growth in the Allentown Division is expected to be minimal, although we expect increased consumption mainly through the interconnection with the Suburban Division. The Suburban Division is expected to increase from an average of 4 mgd to 7 mgd by 2017.

Major budget activities place an emphasis on providing consumers with outstanding quality water and service. A Preventive Maintenance Program continues to prolong the useful life of existing facilities and equipment. Programs for valve exercising, leak detection, fire hydrant repair/replacement will continue. Maintenance programs for the treatment plant processes such as filter evaluations, plant equipment repair/replacement will continue to meet the stringent regulations mandated by EPA and DEP. Continued membership with the Partnership for Safe Water Program for the Treatment Plant and Distribution System will provide a means and method for improvement to the overall performance of the system and water quality. Significant activities include:

- Cost effective use of all 4 water sources
- Optimization of the Treatment Process through the Partnership for Safe Water
- Preventative/Predictive maintenance programs, utilizing the CMMS
- Aggressive Leak Detection Program
- Use/Upgrade of the SCADA System to allow for more cost effective operations
- Long term service contract for Reservoir/Tank maintenance program
- Enhanced CMMS to maintain cost
- Fleet management to control/maintain vehicle expenses
- Upgrade/replace aging/ineffective equipment that is beyond it's useful life

ALLENTOWN DIVISION SUMMARY OF WATER EXPENSES

OPERATING EXPENSES:	PROPOSED FUNDING
PERSONNEL:	\$3,343,681
PURCHASE OF SERVICES:	3,319,514
MATERIALS AND SUPPLIES:	907,700
TOTAL OPERATING EXPENSES	\$7,570,895

2015 BUDGET CITY DIVISION SUMMARY OF REVENUES AND RESERVE FUNDS WATER SYSTEM

		2013 Actual		2014 Budget	2014 Estimate	2015 Budget
OPERATING FUNDING OPERATING REVENUES:						
Residential/Industrial/Commercial	\$	5,521,113	\$	13,301,657	\$ 13,166,278	\$ 13,297,940
Penalties		96,094		236,391	295,004	300,000
Fire Service		32,458		79,848	56,178	60,000
Reserves				-	-	-
Other Water Sales		1,098,716		2,793,433	 2,862,560	3,038,406
Total	\$	6,748,381	\$	16,411,329	\$ 16,380,020	\$ 16,696,347
OPERATING EXPENSES		2,260,974		8,550,634	7,458,961	7,570,895
SURPLUS (DEFICIT) - OPERATING RESERVE	\$	4,487,407	\$	7,860,695	\$ 8,921,059	\$ 9,125,452
CAPITAL FUNDING NONOPERATING REVENUES: Supply/Special Tapping Fees Meter Sales & Installations Distribution Tapping Fees Inspection & Review Fees Reimbursement from Wastewater Funds	\$	21,269 - - - -	\$	- - - -	\$ - - - -	\$ - - -
Other Income		<u>.</u>		-	-	_
Total Nonoperating Revenues		21,269		н		 -
CAPITAL CONTRIBUTIONS: Grants		_		_	-	-
Reimbursement from Other Entities		571,000		1,620,000		1,903,500
Total Capital Contributions		571,000		1,620,000		1,903,500
BORROWED FUNDS & RESERVES		367,500		3,359,000	4,053,807	7,264,500
TOTAL CAPITAL FUNDING		959,769	-	4,979,000	 4,053,807	 9,168,000
CAPITAL EXPENDITURES		938,500	<u> </u>	4,979,000	4,053,807	9,168,000

21,269 \$ -

SURPLUS TO CAPITAL RESERVE FUND

2015 BUDGET SUPPORTING DETAIL WATER FUND-CITY

OPERATING AND NONOPERATING REVENUES

Residential/Industrial

LCA projects customer growth of 1% over estimated 2014 revenues (\$13,297,940).

Penalties

Assume penalties to stay in line with 2014 performance (\$300,000).

Public Fire Service

Assume fire hydrants to stay in line with 2014 performance (\$60,000).

Interest Income

Assume investment of approximately \$40 million of reserves and other cash in Treasury Bills and Treasury Notes at 6 month to 5 year maturities (\$462,500). This is reflected on the City Division Summary of Revenues and Reserves Funds page.

Other Water Sales

Includes miscellaneous revenues received for LCA water supply contract, as well as

Salisbury and South Whitehall Township (\$3,038,406).

CAPITAL REVENUES

Supply Tapping Fees

No new charges are assumed.

2015 BUDGET CITY DIVISION OPERATING EXPENSES WATER SYSTEM TOTAL

		, 2013 Actual	2014 Budget	2014 Estimate	2015 Budget
OPERATING EXPENSES:					_
PERSONNEL:					
Permanent	\$	751,961 \$	2,218,241	\$ 2,240,648 \$	2,113,644
Overtime	٠	131,799	300,542	385,529	326,414
Employee Benefits		258,977	1,261,102	836,350	903,622
Total		1,142,736	3,779,885	3,462,527	3,343,681
PURCHASE OF SERVICES:					
Internal Services - Overhead & Support (including Lab)		251,305	1,589,129	1,466,045	1,700,389
Utilities	-	309,795	1,077,570	829,160	688,325
Engineering		-	25,000	14,000	10,500
Contract Operating Svcs		101,724	53,400	47,500	61,900
Residuals		6,381	-	30,000	30,000
Analyses (External)		-	-	-	-
Maintenance Services		52,763	490,100	455,750	690,800
Extraordinary Expenditures		41,667	125,000	70,000	20,000
Industrial Meter Testing & Repair		, -	-	1,000	10,500
Miscellaneous Services		18,382	118,100	99,700	107,100
Total		782,017	3,478,299	3,013,155	3,319,514
MATERIALS AND SUPPLIES:		· <u></u>			
Pump Supplies		-	38,500	37,500	31,000
Purification Supplies		143,950	514,500	340,500	311,000
Distribution & Transmission Supplies		98,728	433,800	355,000	326,500
Misc. Materials & Supplies		61,976	88,400	128,000	121,700
Fuel & Mileage		19,311	122,500	75,000	78,000
Total		323,965	1,197,700	936,000	868,200
Equipment		12,256	94,750	47,280	39,500
TOTAL OPERATING EXPENSES	\$	2,260,974 \$	8,550,634	\$ 7,458,961 \$	7,570,895

2015 BUDGET CITY DIVISION OPERATING EXPENSES WATER FILTRATION PLANT

	2013 Actual	2014 Budget	2014 Estimate	2015 Budget
OPERATING EXPENSES:				
PERSONNEL:				* .
Permanent	\$ 371,902	\$ 1,054,339	\$ 1,047,251	\$ 998,508
Overtime	76,561	150,271	206,861	186,838
Employee Benefits	131,470	 612,370	400,748	438,967
Total	579,932	1,816,980	1,654,860	1,624,312
PURCHASE OF SERVICES:	 			
Internal Services - Overhead & Support (including Lab)	113,230	918,455	827,181	970,265
Utilities	303,965	1,041,200	803,700	655,600
Engineering	-	25,000	14,000	10,500
Contract Operating Svcs	75,566	-	**	-
Residuals	6,381	-	30,000	30,000
Analyses (External)	-	-	-	-
Maintenance Services	34,567	165,800	160,050	460,800
Extraordinary Expenditures	•	-	-	-
Industrial Meter Testing & Repair	-	-	1,000	500
Miscellaneous Services	 2,971	108,500	64,700	64,600
Total	536,681	 2,258,955	1,900,631	2,192,265
MATERIALS AND SUPPLIES:				
Pump Supplies	_	38,500	37,500	31,000
Purification Supplies	143,950	514,500	340,500	311,000
Misc. Materials & Supplies	32,358	74,000	73,600	82,200
Fuel & Mileage	3,350	 18,000	10,000	 11,000
Total	179,658	645,000	 461,600	435,200
Equipment	20,909	47,470	-	18,300
TOTAL OPERATING EXPENSES	\$ 1,317,181	\$ 4,768,405	\$ 4,017,091	\$ 4,270,077

2015 BUDGET SUPPORTING DETAIL WATER FUND-CITY

OPERATING AND NONOPERATING EXPENSES WATER FILTRATION PLANT DIVISION

PERSONNEL

Permanent/Overtime

Represent salaries and off-time of employees' direct time at Water Filtration Plant.

Employee Benefits

Comprised of medical coverage, defined benefit pension, long-term and short term disability, social security and Medicare contributions, flexible spending and

unemployment insurance.

PURCHASE OF SERVICES

Internal Services -Overhead & Lab Overhead costs (\$970,265), which are not directly allocable to certain funds, divisions or departments are allocated based on salaries within a fund, division or department as a percentage to total salaries. City Laboratory costs are allocated

(\$280,585) based on the percentage of use (33%).

Utilities

Power costs of (\$597,000), gas service (\$50,000), phone service (\$7,100) and

garbage service (\$1,500).

Engineering

This budget includes consulting services that may be required throughout the year

(\$10,500), such as minor permitting for the facility and engineering work.

Residuals

Disposal of treatment residuals to the Wastewater treatment facility (\$30,000).

Maintenance Services

This budget includes contracted maintenance service expenses for maintenance and repair of plant equipment (\$47,000), vehicles (\$20,000), as well as SCADA service (\$23,600), site and building maintenance (\$245,700), and steel tank maintenance and other misc. services (\$124,500).

Indust. Mtr Test & Repair

Interconnect meter testing, calibration, and service (\$500).

Miscellaneous Services

This budget line item includes expenses for DEP storage tank registration fees (\$1,000), USGS service fee (\$36,000), employee uniforms (\$6,000), DRBC fees (\$5,000) and other fees & services (\$16,600).

MATERIALS & SUPPLIES

Purification Supplies

This budget includes chemicals used throughout the treatment process including sodium hypochlorite, sodium hydroxide, alum, pac, fluoride and other chemicals utilized in the treatment process and laboratory (\$311,000).

Miscellaneous Materials & Supplies

This budget includes an estimate for miscellaneous materials and supplies, safety equipment and building supplies (\$82,200).

Pump Supplies

This line item includes expenses to purchase oil, lubricants, pipe, fittings and parts for pump & valve maintenance repairs throughout the treatment process and reservoir/tank locations. (\$31,000)

Fuel

This item includes the allocation of a share of the total fuel expense for the service vehicles (\$11,000).

Equipment

Funding to replace/update process metering and various equipment used at the treatment plant, reservoirs and booster pump stations (\$18,300).

2015 BUDGET CITY DIVISION OPERATING EXPENSES WATER DISTRIBUTION SYSTEM

	2013		2014		2014	2015	
		Actual	Budget		Estimate	Budget	
OPERATING EXPENSES:							
PERSONNEL:			•				
Permanent	\$	380,059 \$	1,163,902	\$	1,193,398 \$	1,115,137	
Overtime		55,238	150,271		178,668	139,577	
Employee Benefits		127,507	648,732		435,601	464,655_	
Total		562,804	1,962,905		1,807,667	1,719,369	
PURCHASE OF SERVICES:		· ·			·		
Internal Services - Overhead & Support (including Lab)		138,075	670,674		638,863	730,125	
Utilities		5,830	36,370		25,460	32,725	
Engineering		-	-		-	-	
Contract Operating Svcs		26,158	53,400		47,500	61,900	
Analyses (External)		-	-		-	-	
Maintenance Services		18,195	324,300		295,700	230,000	
Extraordinary Expenditures		41,667	125,000		70,000	20,000	
Industrial Meter Testing & Repair		•	-		-	10,000	
Miscellaneous Services		15,410	9,600		35,000	42,500	
Total		245,336	1,219,344		1,112,523	1,127,250	
MATERIALS AND SUPPLIES:						-	
Pump Supplies		•			•	-	
Purification Supplies		-	•		-	-	
Distribution & Transmission Supplies		98,728	433,800		355,000	326,500	
Misc. Materials & Supplies		29,618	14,400		54,400	39,500	
Fuel & Mileage		15,961	104,500		65,000	67,0 <u>00</u>	
Total		144,307	552,700		474,400	433,000	
Equipment		(8,654)	47,280		47,280	21,200	
TOTAL OPERATING EXPENSES	\$	943,793 \$	3,782,229	\$	3,441,870 \$	3,300,818	

2015 BUDGET SUPPORTING DETAIL WATER FUND-CITY

OPERATING AND NONOPERATING EXPENSES

WATER DISTRIBUTION SYSTEM DIVISION

PERSONNEL

Represent salaries and off-time of employees' direct time in Water Distribution. Permanent/Overtime

Comprised of medical coverage, defined benefit pension, long-term and short term **Employee Benefits**

disability, social security and Medicare contributions, flexible spending and

unemployment insurance.

PURCHASE OF SERVICES

Overhead costs (\$730,125), which are not directly allocable to certain funds, Internal Services -Overhead

divisions or departments, are allocated based on salaries within a fund, division or

department as a percentage to total salaries.

Power costs of (\$13,500), gas service (\$15,000), phone service (\$2,825) and Utilities

garbage service (\$1,400).

Funding for large repairs, valves associated within the dist. system, sinkhole Contract Operating Services

restoration, and required water system services. (\$61,900).

This budget includes expenses required for site and building maintenance (\$5,000), **Maintenance Services**

equipment rental (\$10,000), paving restorations (\$105,000), permitting (\$20,000), equipment repairs and maintenance (\$10,000) and mobile equipment maintenance

(\$30,000), janitorial services (\$9,500), leak detection and hydrant services

(\$12,500), and miscellaneous expenses (\$28,000).

Extraordinary Service &

Equip. Expenditures

This budget line maintains the same level of insurance against an extraordinary

leak repair and restoration (\$20,000).

This budget includes uniforms (\$4,500); other uniforms not covered by Unifirst Miscellaneous Services (\$3,900) customer notification (\$500) radio repairs and communications center fees

(\$9,900) Pennsylvania One Call system (\$18,000) Boiler maintenance (\$1,200)

Industrial Meter testing (\$10,000), and other services (\$4,500).

MATERIALS & SUPPLIES

Fuel This item includes the allocation of a share of the total fuel expense for the

service vehicles (\$67,000).

Miscellaneous Materials &

Supplies

Funding to purchase supplies to repair and maintain the distribution system,

buildings and equipment. Major items include repair clamps, fittings and pipes (\$95,000), "No-Lead" brass and copper (\$80,000), hydrants (\$63,000), crushed stone and blacktop (\$60,000), valve and curb boxes (\$14,000), meter fitting and

supplies (\$25,000), Service, billing, and customer service forms (\$8,500) and

other miscellaneous supplies (\$20,500).

Funding to replace/update equipment used to maintain the distribution system. Equipment

> Major items include handheld radio replacements (\$12,000), leak survey equipment (\$2,500), metal detector (\$2,500) and other equipment and supplies

(\$4,200).

2015 BUDGET

WATER FUND-CITY CAPITAL BUDGET

Water projects in the 2015 Budget focus on regulatory compliance, future needs, assuring the reliability& improving the water transmission/distribution network, and Water Filtration Plant; and addressing the Lease operating standards. Key projects include the rehabilitation of the 28th Street elevated tank and the construction of a chlorine booster station on the Schantz Spring main. Funding is also provided to comply with the Lease requirement to replace 2-miles of aged and/or failing spun cast and pit cast water mains annually. To assist in future planning needs, an "all pipe" City water system hydraulic model is included. Finally, studies will be conducted to; pilot test the change in coagulants at the Water Filtration Plant (WFP) to identify any issues prior to the changeover; and to evaluate both operational and capital improvements options to minimize water age in the reservoirs

The projects identified in the water Budget fall into to two primary categories, those funded by LCA and those funded by the City, with the latter pertaining to Uncompleted Work (UW).

• Uncompleted Work Projects (UW): Are projects that were the City's responsibility to fund and complete prior to the closing of the Concession Lease, however the majority of the projects were not started and none have been completed. The City has requested that LCA execute these projects. Funding will be provided by the City.

Project	2015 Budget	2015 Project Stage		
28th Street Elevated Steel Tank Rehabilitation	\$ 427,000	Construction		
Schantz Spring Chlorine Booster Station	246,500	Design/ Construction		
Water Main Replacement Program	4,270,000	Design/ Construction		
WFP SCADA Upgrades	300,000	Design/ Construction		
Pre-Lease Valve Replacements	1,110,000	Design/ Construction		
Water System Hydraulic Model	381,500	Model Development		

2015 BUDGET CAPITAL EXPENDITURES ALLENTOWN DIVISION WATER

Project	Priority	Estimated Project Cost	Estimated Costs Through 2014	2015 Budget	Beyond 2015
LCA Funded Projects					
Capital Management		Annual		65,000	
Capital Works Supplies, Software & Other Work		Annual		15,000	
Distribution Mains, Service Connections & System Planning		Annuai		110,000	
Distribution Mains - Upsizing *		Annual		30,000	
Distribution System Improvements (3rd Party)		Annual		10,000	
New & Replacement Meter Installations (non-project)		Annual		145,000	
Mobile Equipment		Annual		223,000	
Other Equipment		Annual		250,000	
WFP General Improvements		Annual		350,000	
Water Main Replacement Program ⁽²⁾		45,270,000	3,010,000	4,270,000	37,990,000
WFP SCADA Upgrades		460,000	-	300,000	160,000
Various Water System Related Studies		1,250,000	50,000	250,000	950,000
Transmission Main Evaluation, Replacements & Rehabilitation		9,100,000	<u>-</u>	150,000	8,950,000
General Water System Replacements/Improvements		5,700,000	-	500,000	5,200,000
Fix Base Meter Reading System		1,705,000	-	5,000	1,700,000
Emergency Power - Water & Wastewater Facilities		750,000	-	150,000	600,000
Schantz Spring Main Replacement & Leak Rehabilitation (2)		1,405,000	-	50,000	1,355,000
Water System Hydraulic Model		391,500	10,000	381,500	-
Backflow Control Prevention Program Planning		50,000	•	10,000	40,000
Sub-total Allentown Division Water Capital Funded by LCA	,	<u>-</u>	3,070,000	7,264,500	56,945,000
City Funded Projects					-
28th Street Elevated Steel Tank Rehabilitation (3)	High	430,000	3,000	427,000	-
Schantz Spring Chlorine Booster Station (3)	High	250,000	3,500	246,500	· -
AMR Meter Project (3), (4)	High	245,000	20,000	120,000	105,000
Pre-Lease Valve Replacements (3)	High	1,110,000	20,000	1,110,000	-
	nign	1,110,000	26.500	1,903,500	105,000
Sub-total Allentown Division Water Capital Funded by the City			20,000	1,303,300	100,000
Total Allentown Division Water Capital Expenditures:		•	\$ 3,096,500 \$	9,168,000	57,050,000

Note: Projects in bold type will not proceed beyond the planning phase, or beyond current authorized phase without specific authorization from the LCA Board subsequent to the adoption of this budget.

- (2) Required Capital Improvement Projects as shown on Schedule 7 of the Agreement and will be funded by LCA.
- (3) "Uncompleted Work" City Projects that were supposed to be complete by the time of settlement or executed by City personnel after settlement.

 The City will fund these projects but has requested that LCA execute them.
- (4) Costs reflected from 2014 forward. Previous City costs in excess of \$8 Million not shown

^{*} Individual upsizing contributions less than \$75,000 will not require additional authorization beyond adoption of this budget.

OPERATING AND NONOPERATING REVENUES

CAPITAL EXPENDITURES

Capital Management

Costs of providing general management and administrative services for the water capital programs (2015 Cap Ex \$65,000).

Capital Works Supplies, Software & Other Work Miscellaneous supplies and the Allentown Divisions share of updating Water and Wastewater General Design & Construction Specifications. (2015 Cap Ex \$15,000).

Distribution Mains, Service Connections & System Planning Capital Works services required for distribution system extensions and connections including the reimbursable costs of plan review and construction inspection. Also includes the cost of providing general system engineering and planning (2015 Cap Ex \$110,000).

Distribution Mains Upsizing Economically provides proper pipe capacities and extensions to meet future service needs by increasing pipe sizes in proposed developer-installed systems to provide sizes as desired by LCA or if applicable may fund the a portion of a off-site water main extension to serve a development (2015 Cap Ex \$30,000).

Distribution System - Improvements (3rd Party) Costs of additional valves or piping to improve the operation of the existing system. Where it is economical, improvements are made under a third party's contract (2015 Cap Ex \$10,000).

New & Replacement Meter Installations (non-project)

Material and labor costs for meters, radio read receivers and if applicable backflow prevention devices installed for new customers and defective or customer damaged meters. The costs of installations for the new customers and damaged meters are reimbursed through collection of meter installation fees (2015 Cap Ex \$145,000).

Mobile Equipment

Purchase of 1-SUV, 1-Small Van and 1-Full size Pickup Truck (2015 Cap Ex \$223,000).

Other Equipment

Contains individual equipment over \$5,000. Replacement and new equipment is required from time to time to maintain and improve service integrity and reliability. Items include electric and electronic equipment, pumping equipment, leak detection equipment and other equipment as needed (2015 Cap Ex \$250,000)

WFP General Improvements

Funding to cover the on-going replacement of equipment that is nearing the end of its useful life and to address unforeseen equipment failures. Equipment will be constantly evaluated and repaired or replaced as needed. (2015 Cap Ex \$350,000)

Water Main Replacement Program

Over 50% of the Allentown Divisions water system is pit cast iron or spun cast iron mains. Some of the pit cast mains date back to the turn of the century, however the spun cast mains have a higher failure. Although the entire system will be evaluated, LCA will work closely with the City Streets department to coordinate main replacements in advance of the annual City Street paving schedule. (\$4,270,000)

WFP SCADA Upgrades

Upgrade of the current Dynac plant wide SCADA system hardware and software to the latest version of Dynac ES. This will standardize the SCADA systems at both WWTP and WFP. (2015 Cap Ex \$300,000)

Various Water System Related Studies

1) Water Filtration Plant (WFP) –Complete a study to assure that the change in the type of coagulants will not impact the quality of the finished water; (2) Schantz Spring- Identify the impact of and improvements necessary at the WFP when DEP designates Schantz Spring "as under the influence of ground water"; (3) Reservoirs- Identify physical improvements and/or operating changes to minimize water age in the reservoirs; (4) Conduct preliminary design of a new Little Lehigh Creek intake that will meet current regulatory criteria. (5) Evaluate upgrading the dual media filters @ the WFP to higher rate mixed media filters. (2015 Cap Ex \$250,000)

Transmission Main Evaluation, Replacements & Rehabilitation

This project involves leak detection of many older and large sized water transmission mains that are located within the city. Based on the findings, appropriate repairs or replacements of those mains will be made. The costs of the replacements and repairs are included in this project. The 2015 Budget will focus on non-invasive leak detection of approximately 32,000 feet of cast iron and steel transmission mains. If warranted future budgets will address rehabilitation or replacement of approximately 1000 feet of transmission main annually. (2015 Cap Ex \$150,000)

General Water System Replacements/ Improvements

Provides funding on as as-needed basis for distribution system valve replacements; the replacement of some lead services and to provide looping for problematic dead end water mains; and for other issues as they are identified. (2015 Cap Ex \$500,000)

Fixed Base Meter Reading System

A fixed base system provides instantaneous readings of any water meter via a radio signal directly to the customer care center via a series transmitters and repeaters installed throughout the water system service area this a multi-year project where the 2015 work will be investigatory ... (2015 Cap Ex \$5,000)

Emergency Power Water & Wastewater Facilities

There have been several instances over the past few years when the water plant and/or the high level distribution systems were without power. The four (4) high level distribution systems all have manual transfer switches but a mobile generator needs to be purchased. The wastewater plant needs a portable generator and manual transfer switch for the chlorination building. 2015 will include buying both portable generators and installing a manual transfer switch at the chlorination building. Subsequent Budget Years will include installations of manual transfer switches for both the Crystal Spring and Schantz Spring Pumps in the Water Plant and the installation of the generators. 40% of the costs for 2015 will come out of Water Capital and the other 60% will come out of Wastewater Capital. Subsequent years will be 100% Water Capital (2015 Cap Ex \$150,000)

Schantz Spring Main Replacement & Leak Rehabilitation

This multi-year Project, includes the replacement of approximately 2,000 lf, 1903 vintage, 30-inch diameter main in Martin Luther King, Jr. Boulevard from Schribers Bridge to the Water Filtration plant. The project also includes addressing other leaks that were identified during the Smart Ball leak detection work. (2015 Cap Ex \$50,000)

Water System Hydraulic Model

There is no model of the City water system, as such there is no dynamic way to evaluate the capabilities of the water system, identify areas where pipe sizes or network configuration impacts fire flow capability. A model will be required evaluate sections of aged mains that have not structurally failed to determine if replacement is warranted. (2015 Cap Ex \$381,500)

Backflow Control Prevention Program Planning

The Pennsylvania Department of Environmental Resources requires all water suppliers to implement a Backflow Control Prevention Program. The Allentown Division does not have a program; and since records are incomplete or non-existent it is assumed that a majority of the 2,000 non-residential customers do not have a backflow device. This multi-year project will identify, survey, inspect and implement a mandatory backflow protection program, where the customers will be responsible to install at their cost an acceptable backflow prevention device. 2015 efforts will focus on high level planning. (2015 Cap Ex \$10,000)

28th Street Elevated Steel Tank Rehabilitation

The project will repair structural deficiencies, make improvements and recoat (paint both interior and exterior surfaces. (2015 Cap Ex \$427,000) *Uncompleted Work- City Funded*

Schantz Spring Chlorine Booster Station

The City's initial concept was the construction of Chlorine Booster Station, located on City park property north of Honochick Drive, between Ott Street and the park pavilions along a section of the Schantz Spring water transmission main. However LCA is developing an alternate plan that will eliminate the need for a remote building.

(2015 Cap Ex \$246,500) *Uncompleted Work- City Funded*

AMR Meter Project

This multi-year project completes the remaining work of the City's AMR project and includes the purchase and implementation of Water Analytics software package to a repository to store data gathered from the meters in the division for use in identifying customer metering issues; and the installation of 747 meters were not completed because the sites were either vacant or not accessible. (2015 Cap Ex \$120,000) *Uncompleted Work- City Funded*

Pre-Lease Valve Replacements

The Project includes the replacement of 52 valves that were identified as inoperable prior to the Lease settlement. (2015 Cap Ex \$1,110,000) Uncompleted Work- City Funded

CITY DIVISION WASTEWATER

2015 SUMMARY WASTEWATER FUND-CITY

OPERATING BUDGET

LCA's operation and maintenance responsibilities include the operation of the Kline's Island Wastewater Treatment Plant and the portion of the collection system that resides in the geographic boundaries of the City of Allentown.

The 2014 budget was developed to provide, accordance with applicable regulatory requirements and utilizing recognized operational, maintenance and industrial pretreatment procedures to effectively convey and process the wastewater generated in the service area of treatment facility. Compliance with the Standards of Practice agreed upon as part of the lease will be an essential focus for the wastewater staff of the city division, as well as compliance with the 2007 and 2009 administrative orders. In addition, the plant's staff will be working closely with the LCA Capital Works group in completion of the numerous plant improvement projects that are planned for the coming year.

OPERATING EXPENSES:	PROPOSED FUNDING
PERSONNEL:	\$3,611,534
PURCHASE OF SERVICES	\$4,301,914
MATERIALS AND SUPPLIES	\$1,047,652
TOTAL OPERATING EXPENSES	\$8,961,100

2015 BUDGET CITY DIVISION SUMMARY OF REVENUES AND RESERVE FUNDS WASTEWATER SYSTEM

		2013 Actual	2014 Budget	2014 Estimate	2015 Budget
OPERATING FUNDING		, · · · · · · · · · · · · · · · · · · ·			
OPERATING REVENUES:					
User Charges - Municipal	\$	2,667,428	\$ 7,210,215	\$ 6,036,235	\$ 5,412,370
User Charges - Residential and Commercial		3,173,900	7,903,855	8,065,562	8,146,218
Other Income		403,594	1,286,324	 566,072	 750,000
Total		6,244,922	16,400,394	 14,667,870	 14,308,588
OPERATING EXPENSES		2,028,199	9,337,414	8,237,887	8,961,100
SURPLUS (DEFICIT) - OPERATING RESERVE	<u> \$ </u>	4,216,723	\$ 7,062,980	\$ 6,429,983	\$ 5,347,488
CAPITAL FUNDING NON-OPERATING REVENUES:					
Total ·	\$	-	\$ -	\$ - -	\$ -
CAPITAL CONTRIBUTIONS: Grants					
Reimbursement from other entities		405,000	3,769,000	 	3,730,000
Total		405,000	3,769,000	•	3,730,000
		446,000	5,278,000	3,451,893	5,329,995
BORROWED FUNDS & RESERVES:					-,,
	·	851,000	 9,047,000	3,451,893	 9,059,995
BORROWED FUNDS & RESERVES: TOTAL CAPITAL FUNDING CAPITAL EXPENDITURES	\$. •	\$ 9,047,000 9,047,000	\$ 3,451,893 3,451,893	\$

2015 BUDGET CITY DIVISION OPERATING EXPENSES WASTEWATER SYSTEM TOTAL

	2013 Actual		2014 Budget	2014 Estimate	2015 Budget
OPERATING EXPENSES:		***			
PERSONNEL:					
Permanent	\$ 728,926	\$	2,267,682	\$ 2,160,554 \$	2,288,450
Overtime	143,378		259,028	352,673	347,075
Employee Benefits	 257,981		1,284,467	795,144	976,008
Total	1,130,285		3,811,177	3,308,371	3,611,534
PURCHASE OF SERVICES:			<u>_</u> _		
Internal Services - Overhead & Support (including Lab)	63,543		1,907,305	1,795,985	2,103,138
Utilities	289,283		1,065,395	1,053,692	1,005,427
Engineering	-		60,000	32,833	45,000
Contract Operating Services	48,123		201,915	169,117	200,400
General Analyses	-		20,000	15,000	20,000
Maintenance Services	93,149		569,008	427,375	502,966
Miscellaneous Services	119,800		414,590	372,234	424,983
System Planning/Capital Management	-		-	-	-
I/I Rehabilitation Program	 -		-	 	-
Total	613,899		4,238,213	3,866,237	4,301,914
MATERIALS AND SUPPLIES:					
Fuel	42,852		117,600	88,789	95,800
Purification Chemicals	126,711		450,574	581,416	367,100
Miscellaneous Supplies	93,783		674,450	366,937	520,102
Equipment	20,668		45,400	26,137	64,650
Amortized Equipment	 -		-	 <u>.</u>	
Total	284,015		1,288,024	1,063,278	1,047,652
AMORTIZED PLANNING	•		•	-	-
RESERVE FUND ALLOCATION	=		-	•	•
DEPRECIATION & AMORTIZATION	-		-	-	-
TOTAL OPERATING EXPENSES	\$ 2,028,199	\$	9,337,414	\$ 8,237,887 \$	8,961,100

2015 BUDGET CITY DIVISION OPERATING EXPENSES

KLINE ISLAND WASTEWATER TREATMENT PLANT

		Actual	Budget	Estimate	Budget
OPERATING EXPENSES:	4		 		
PERSONNEL:					
Permanent	\$	578,634	\$ 1,753,192	1,706,069 \$	1,698,371
Overtime		118,315	203,564	267,494	230,926
Employee Benefits		206,946	 994,728	624,102	714,472
Total	-	903,895	2,951,484	2,597,665	2,643,769
PURCHASE OF SERVICES:					
Internal Services - Overhead & Support (including Lab)		17,730	1,607,766	1,436,394	1,692,180
Utilities	•	285,901	1,030,525	1,037,292	969,802
Engineering		•	60,000	32,833	45,000
Contract Operating Svcs		40,879	27,965	4,316	1,900
General Analyses	•	-	20,000	15,000	20,000
Maintenance Services		45,037	203,908	194,800	266,616
Miscellaneous Services		111,577	406,790	360,474	381,783
System Planning/Capital Management			-	-	-
Total		501,124	 3,356,954	3,081,109	3,377,281
MATERIALS AND SUPPLIES:					
Fuel		29,945	76,800	51,316	55,000
Purification Chemicals		126,711	450,574	581,416	367,100
Miscellaneous Supplies		62,896	333,000	227,960	286,482
Equipment		11,267	45,400	25,976	49,000
Amortized Equipment			-		
Total		230,819	 905,774	886,668	757,582
AMORTIZED PLANNING					
RESERVE FUND ALLOCATION					
DEPRECIATION & AMORTIZATION					
TOTAL OPERATING EXPENSES	\$	1,635,838	\$ 7,214,212	6,565,442 \$	6,778,632

OPERATING AND NONOPERATING EXPENSES

WASTEWATER TREATMENT PLANT DIVISION

PERSONNEL

Permanent/Overtime Represent salaries and off-time of employees' direct time at the Kline's Island

Wastewater Treatment Plant and the Industrial Pretreatment Program. The budget provides for one additional Treatment Plant Operator to better manage overtime incurred as a result on staffing the divisions treatment plant on a 24/7 basis.

Employee Benefits Comprised of medical coverage, defined benefit pension, long-term and short term

disability, social security and Medicare contributions, flexible spending and

unemployment insurance.

PURCHASE OF SERVICES

Internal Services - Overhead costs (\$1,122,669) which are not chargeable to certain funds are allocated based on salaries within a fund as a percentage to total salaries. City

Laboratory costs are allocated (\$569,511) based on the percentage of use (67%).

Utilities This account includes the power costs of (\$900,802) to operate the Kline's Island

WWTP, natural gas service (\$60,000), telephone (\$6,600) and garbage hauling

(\$2,400).

Engineering This budget line item is for miscellaneous consultant assistance with the: EPA

Administrative Order reporting, operator shift schedule development, and plant

operations consultation (\$45,000).

Contract Operating Services Contract services (\$1,900) including Accu-Weather storm warnings and

meteorological data are provided for in this item.

Analysis (External) This account provides for external laboratory analysis of samples to support the

biosolids disposal program, landfill disposal requirements, and Industrial

Pretreatment Program (\$20,000).

Maintenance Services This budget includes: annual maintenance contracts for: office cleaning (\$48,243);

site and building maintenance (\$43,446), equipment rental (\$5,000); pump maintenance services (\$45,000); other maintenance services (\$3,250); SCADA expenses (\$6,100); mobile equipment maintenance (\$60,000); treatment plant

maintenance (\$54,577); and CCTV services (\$1,000).

Miscellaneous Services Miscellaneous expenses include employee costs such as uniforms and safety

shoes: PADEP fees for licenses, permits and registrations (\$31,333); residuals

disposal (\$346,000); and flow monitoring (\$4,450).

MATERIALS & SUPPLIES

Fuel This item includes the allocation of a share of the total fuel expense for the service

vehicles (\$55,000).

Purification Supplies The treatment plant chemical budget includes: LOX (\$33,200); sodium hypochlorite

(\$100,000); chlorine (\$55,000); polymer (\$119,040); larvicide (\$27,000); potassium

permanganate (\$17,000): and other chemicals (\$15,860).

Miscellaneous Materials and Supplies

This budget item provides for the supplies required to maintain the wastewater treatment plant: mechanical (\$150,000); electrical (\$20,000); plumbing (\$27,000); belt filter press supplies (\$30,000); instrumentation supplies (\$15,000); and lubricants (\$9,000). In addition, the pumping supplies category includes: small pump parts (\$20,000); pipe (\$5,000); and valves/fittings (\$5,000). Other miscellaneous materials are mobile equipment supplies (\$5,482).

Equipment

This budget includes equipment expenses associated with the biosolids dewatering operation and preventive maintenance of the odor control units (\$49,000).

2015 BUDGET CITY DIVISION OPERATING EXPENSES WASTEWATER COLLECTION SYSTEM

		2013 Actual		2014 Budget	2014 Estimate	 2015 Budget
OPERATING EXPENSES:	•	, , , , , , , , , , , , , , , , , , , ,				
PERSONNEL:						
Permanent	\$	150,292	\$	514,490 \$	· ·	\$ 590,079
Overtime		25,063		55,464	85,178	116,149
Employee Benefits		51,035		289,739	171,042	261,536
Total		226,390		859,693	710,706	967,765
PURCHASE OF SERVICES:						
Internal Services - Overhead & Support (including Lab)		45,813		299,539	359,591	410,958
Utilities		3,382		34,870	16,400	35,625
Engineering		-		-	-	_
Contract Operating Services		7,243		173,950	164,801	198,500
General Analyses		-		-	-	-
Maintenance Services		48,113		365,100	232,576	236,350
Miscellaneous Services		8,223		7,800	11,760	43,200
System Planning/Capital Management				-	-	-
I/I Rehabilitation Program				•		
Total		112,775		881,259	785,128	 924,633
MATERIALS AND SUPPLIES:	<u> </u>					
Fuel		12,907		40,800	37,473	40,800
Misc. Materials & Supplies		30,887		341,450	138,977	233,620
Equipment		9,402		•	161	15,650
Amortized Equipment		-		•	-	
Total		53,196		382,250	176,611	290,070
AMORTIZED PLANNING						
RESERVE FUND ALLOCATION						
DEPRECIATION & AMORTIZATION						
TOTAL OPERATING EXPENSES	\$	392,361	\$	2,123,202	1,672,445	\$ 2,182,468

OPERATING AND NONOPERATING EXPENSES WASTEWATER COLLECTION SYSTEM DIVISION

PERSONNEL

Permanent/Overtime

Represent salaries and off-time allocated for staff oversight.

Employee Benefits

Comprised of medical coverage, defined benefit pension, long-term and short term

disability, social security and Medicare contributions, flexible spending and

unemployment insurance.

PURCHASE OF SERVICES

Internal Services -

Overhead

Overhead costs, which are not chargeable to certain funds, are allocated based on

salaries within a fund as a percentage to total salaries (\$410,958).

Utilities Budget is for garbage hauling (\$5,000); Electric costs of (\$12,000); telephone

(\$3,625); and natural gas service (\$15,000).

Contract Operating Services Budget includes such services as CCTV truck software maintenance (\$1,600); root

control program (\$85,000); railroad easement fee (\$8,500); Farland Development (\$3,000); trenchless spot repairs (\$50,000); street cut restorations (\$50,000); and

pest control (\$400).

Maintenance Services This budget includes: annual maintenance contracts for: office cleaning (\$6,000);

site and building maintenance (\$7,500); equipment maintenance and rental (\$61,000); other maintenance services (\$6,600); mobile equipment maintenance (\$50,250); extraordinary sewer repairs (\$65,000); and CCTV services (\$40,000).

Miscellaneous Services This budget includes traffic control, uniform service, clothing, communication

centers, PA 1 system, radio repairs, and miscellaneous services (\$43,200).

MATERIALS & SUPPLIES

Fuel This item includes the allocation of a share of the total fuel expense for the

service vehicles (\$40,800).

Mobile Equipment Supplies Budget is for small vehicle repairs (\$5,200)

Misc. Supplies Budget provides for work order forms and supplies, misc. supplies for mini

camera and line tracer (\$17,400) and additional AO supplies (\$40,000).

Collection System Supplies This budget includes degreaser (\$10,000); inspection die & deodorizer (\$500);

concrete additive (\$1,200); PVC pipe & fittings (\$3,000); manhole frames and covers (\$30,370); risers and inserts (\$55,000); ferncos & couplings (\$10,000); concrete SDR pipe (\$5,500); hose lines (\$5,000) paving material (\$15,000); lubricating oils & grease (\$2,500); root cutter (\$8,950) crushed stone (\$15,000);

and maintenance & construction materials (\$9,000)

Equipment Budget includes two (2) radio units (\$8,000), Light Stick (\$5,000) and a Trash

Pump (\$2,650).

2015 SUMMARY WASTEWATER FUND-CITY

CAPITAL BUDGET

Wastewater projects in 2015 focus on regulatory compliance, critical needs at the Wastewater Treatment Plant (WWTP) and addressing the Lease operating standards. Key projects include, the replacement of five motor control centers, replacement of two digester covers all at the WWTP; WWTP SCADA Upgrade, and for the replacement and/or rehabilitation of defective sewer mains. In addition funding is provided to replace the aged and failing roofing systems on many Allentown Division facilities.

The projects identified in the Budget fall into to two primary categories, those funded by LCA and those funded by the City, with the latter further categorized as Administrative Order (AO) projects and Uncompleted Work (UW).

- Administrative Order Projects (AO): Are projects necessary to bring the City's wastewater system
 into compliance with the US Environmental Protection Agency (USEPA) Administrative Order to
 eliminate Sanitary Sewer Overflows / By-passes at Outfall 003 of the wastewater treatment plant.
 Pursuant to the Concession Lease Agreement (Lease) the City is responsible for making all
 decisions related to this work; and for funding said work. LCA is responsible for the execution of
 the work.
- Uncompleted Work Projects (UW): Are projects that were the City's responsibility to fund and
 complete prior to the closing of the Concession Lease, however the majority of the projects were
 not started and none have been completed. The City has requested that LCA execute these
 projects. Funding will be provided by the City.

Project	2015 Budget	2015 Project Stage
WWTP SCADA Upgrades	\$1,200,000	Construction
WWTP- Replacement of Motor Control Centers	\$2,422,000	Construction
Facility Roof Replacements	\$1,325,000	Construction
WWTP- Digester Cover Replacements	\$75,000	Design

2015 BUDGET CAPITAL EXPENDITURES CITY DIVISION WASTEWATER

Project	Priority	Estimated Project Cost	Estimated Costs Through 2014	2015 Budget			Beyond 2015
LOS Frieded Projects							
LCA Funded Projects					00.000		
Capital Management	High	Annual			60,000		
Collection System - Development, Service Connections & System F	lannin High	Annual			40,000		
Mobile Equipment	High	Annual			464,500		
Other Equipment	High	Annual			50,000		
WWTP General Improvements	High	Annual			440,000		
WWTP- Replacement of Motor Control Centers (2)	High	2,662,000	240,000		2,422,000		-
WWTP- Belt Filter Press Rebuilds & Replacement (2)	High	1,643,495	1,190,000		453,495		- '
WWTP- Digester Cover Replacements (2)	High	2,305,000	5,000		75,000		2,225,000
Facility Roof Replacements (Water & Wastewater Facilities)	High	1,686,000	36,000		1,325,000		325,000
Sub-total Allentown Division Wastewater Capital Funded by LC/	4		\$ 1,471,000	\$	5,329,995	\$	2,550,000
City Funded Projects							
	High	1,210,000	10.000		1,200,000		-
WWTP-SCADA Upgrades (3)	Medium	1,250,000	-		1,250,000		
WWTP Interim Blending Pumping System ⁽⁴⁾	Mandated	378,000	1.000		377,000		_
WRA Phase II RDII Corrective Action Plan Tasks 1-6 (4)	Mandated	290,000	1,000		289,000		_
Sanitary Sewer Manhole Lining (4)	Mandated	•	1,000		339,000		_
Sanitary Sewer Manhole Collars & Water Tight Covers (4)		340,000	1,000		275,000		2,475,000
Sanitary Sewer Main Replacements and/or Rehabilitation (4)	High	2,750,000	-	_		•	
Sub-total Allentown Division Wastewater Capital Funded by the	City		\$ 13,000	\$	3,730,000	ş	2,475,000
Total Wastewater Capital Expenditures:		•	\$ 1,484,000	\$	9.059,996	\$	5,025,000

Note: Projects in bold type will not proceed beyond the planning phase, or beyond current authorized phase without specific authorization from the LCA Board subsequent to the adoption of this budget.

- (2) Required Capital Improvement Projects as shown on Schedule 7 of the Agreement and will be funded by LCA.
- (3) "Uncompleted Work" City Projects that were supposed to be complete by the time of settlement or executed by City personnel after settlement.

 The City will fund these projects but has requested that LCA execute them.
- (4) "Administrative Order" Projects as per the Agreement are to be Funded by the City and executed by LCA.

CAPITAL EXPENDITURES

Capital Management

Costs of providing general management and administrative services for the waste water capital programs (2015 Cap Ex \$60,000).

Collection System-Development, Service Connections & System Planning Plan review and construction inspection of extensions and connections to the sanitary sewer system. Also includes the cost of providing general system engineering and planning (2015 Cap Ex \$40,000).

Mobile Equipment

Purchase one Vac-Truck and one ATV Gator (2015 Cap Ex \$464,500).

Other Equipment

Generally utilized for purchase of individual equipment greater than \$5,000. Replacement equipment is required from time to time to maintain service integrity. Items include valves, sampling equipment, electric and electronic equipment, Infiltration & Inflow (I/I) equipment and other equipment as needed. (2015 Cap Ex \$50,000)

WWTP General Improvements Funding to cover the on-going replacement of equipment that is nearing the end of its useful life and to address unforeseen equipment failures. Equipment will be constantly evaluated and repaired or replaced as needed. (2015 Cap Ex \$440,000)

Sanitary Sewer Main Replacements and/or Rehabilitation Replacement and/or rehabilitation of sanitary sewer mains that have been found to be defective. The replacement and/or rehabilitation of "Building Sewers" or Laterals as defined in City Ordinance "Title Five- Sewers" that are connected to said sewer mains is not included because these laterals are owned and maintained by the owners of the improved properties. (2015 Cap Ex \$275,000) *Note: Some repairs may be considered by LCA as City Funded Administrative Order work.*

WWTP-Replacement of Motor Control Centers This Project will replace five aged motor control centers that provide power on a 24/7 basis to various parts of the WWTP. (2015 Cap Ex \$2,422,000)

WWTP-Belt Filter Press Rebuilds & Replacement The completion of the project started in 2014 that will replace one Belt Filter Press (BFP) and rebuild in place two BFPs. (2015 Cap Ex \$453,495)

WWTP-Digester Cover Replacements

Design with bid-ready plans is anticipated in 2015; with Phase 1 of the Project the replacement of the primary digester cover taking place in 2016; and Phase-2 the replacement of the secondary digester cover in 2017. (2015 Cap Ex. \$75,000)

Facility Roof Replacements

Many roof systems at the WFP, WWTP, distribution/collection building and water system remote stations are in various stages of disrepair. In 2014 LCA retained a consultant to perform condition assessments on 43 different roof systems, some of them the original slate roofs from as far back as 1916. The roof assessment report identified the need for immediate roof replacements and/or repairs for a significant number of buildings. 75% of the proposed work being related to wastewater infrastructure and the remaining 25% being related to water. (2015 Cap Ex. \$1,325,000)

WWTP-SCADA Upgrades

Installation of a plant wide SCADA system that would enable operators to monitor and remotely control equipment at the WWTP (2015 Cap Ex \$1,200,000). *Uncompleted Work, City Funded*

WWTP Interim Blending Pumping System

This project provides for the installation of 4 diesel power pumps and associated pipeline to increase the hydraulic capacity of Kline's Island WWTP (KIWWTP) during significant wet-weather events which result from the remnants of hurricane and tropical storms. Once installed blending of wastewater that has received primary treatment with fully treated plant effluent will be made possible reducing environmental concerns related to the current practice of discharging raw sewage to the Little Lehigh Creek during these extreme wet-weather events. Note: This Project is contingent upon PADEP approval of blending. (2015 Cap Ex. \$1,250,000). *Administrative Order Project, City Funded*

WRA Phase II RDII Corrective Action Plan, Tasks 1-6 & C-1,2 &3 The work will include Task-1 finalization of the alternatives as identified in the Phase 1 Corrective Action Plan; Task-2: Determination of Flow Equalization Volume; Task-3 Evaulation of Effulent Blending; and 3 other tasks one of which will be developing the Phase II Corrective Action Plan. This work is a component of the work that will be necessary to comply with the EPA Administrative Order. (2015 Cap Ex. \$377,000) Administrative Order Project, City Funded

Sanitary Sewer Manhole Linings

This annual project will install lining in approximately 50- aged brick manholes to eliminate infiltration and provide structural reinforcement. The City has directed LCA to bring the project to a bid ready stage, but not to bid unless authorized to do so by the City. This work is a component of the work that will be necessary to comply with the EPA Administrative Order. (2015 Cap Ex. \$289,000). Administrative Order Project, City Funded

Sanitary Sewer Manhole Chimneys & Water Tight Covers This four year project involves securing new watertight frames and covers to approximately 400 aged brick riparian manholes. The preferred method is to install a 5' diameter/4' deep concrete collar to secure the new watertight frames and covers to the manhole, however because of access issues alternative methodologies will need to be developed and utilized. This work will eliminate the potential for inflow into and Sanitary Sewer Overflows from these manholes. (2015 Cap Ex. \$339,000). Administrative Order Project, City Funded

OPERATING AND NONOPERATING REVENUES

User Charges-Municipal

The City is party to Municipal Sewer Service Agreements under which the Sewer Utility System provides sewer services to seven municipalities or municipal authorities: the Borough of Emmaus, Hanover Township, Salisbury Township, South Whitehall Township, the Coplay-Whitehall Authority, the Existing LCA System and Lower Macungie Township. Pursuant to these agreements, LCA will act as the agent of the City and will perform all of the contractual obligations of the City under each Municipal Agreement Charges, including the billing and collection of the revenues (\$5,412,370).

User Charges-Residential

LCA projects a baseline of 33,096 residential and commercial customers being billed at a rate of 85% of water usage, under service charges based on concession rate schedule (\$8,146,218).

Other Income

Includes penalties and interest (\$175,000), leachate treatment, septic disposal fees, industrial waste charges and other miscellaneous income totaling \$ 750,000.

CAPITAL REVENUES

Special Sewer Charges

No new charges are assumed.

Connection Fees

No new charges are assumed.

CITY DIVISION SUPPORT SERVICES

2015 BUDGET CITY DIVISION OPERATING EXPENSES ALLOCATION UNIT: LABORATORY

		2013 Actual	2014 Budge	et	2014 Estimate		2015 Budget	
OPERATING EXPENSES:	·····							
PERSONNEL:								
Permanent (A)	\$	149,360	\$ 36	54,466 \$	318,512	\$	327,864	
Overtime		2,284		3,852	, 3,095		-	
Benefits		104,625	18	31,136	97,350		121,417	
Total		256,270	54	19,454	418,957		449,281	
PURCHASE OF SERVICES:								
Internal Services - Overhead & Support		38,332	18	37,263	166,939		190,786	
Engineering		-		3,000	-		26,000	
Contract Operating Services		-		-	11,500		29,000	
Laboratory Maintenance Services		1,670	;	33,350	33,350		48,950	
Analyses (External)		11,903	:	26,700	19,700		33,000	
Compliance Expense	•	-		-	-		-	
Miscellaneous		14,003		3,700	5,500		11,000	
Total		65,908	2	54,013	236,989		338,736	
MATERIALS & SUPPLIES:								
Lab Supplies		-	2	27,000	5,000		45,000	
Miscellaneous Supplies		11,843	•	15,300	2,000		5,000	
		. •		-	_			
Total		11,843		12,300	7,000		50,000	
EQUIPMENT:		-		-	-			
Total		11,843		19,000	14,745		12,000	
DEPRECIATION:		-		-	-			
TOTAL EXPENSES	\$	345,863	\$ 81	64,767 \$	677,690	\$	850,016	

OPERATING AND NONOPERATING EXPENSES

CITY - LABORATORY

PERSONNEL

Permanent/Overtime Represent salaries and off-time of employees' direct time at the Laboratory.

Employee Benefits Comprised of medical coverage, defined benefit pension, long-term and short term

disability, social security and Medicare contributions, flexible spending and

unemployment insurance.

PURCHASE OF SERVICES

Internal Services - Overhead costs, which are not directly allocable to certain funds, divisions or departments are allocated based on salaries within a fund, division or department

as a percentage to total salaries.

Lab Maintenance Services This budget includes service and maintenance for laboratory equipment (\$48,950).

External Analysis This budget includes analysis for effluent and waste hauler metals, and various

water analyses (\$33,000).

Miscellaneous Services This budget includes application fees for regulatory permits (\$11,000).

MATERIALS & SUPPLIES

Misc Supplies This budget includes lab supplies, chemicals, and controls (\$50,000).

Equipment This budget includes the replacement of a muffle furnace and dishwasher

(\$12,000).

INTERNAL SERVICE FUNDS

2015 BUDGET SUPPORTING DETAIL INTERNAL SERVICE-CONSOLIDATED

The City Internal Service Budget includes overhead, support and general administrative services, which are included in the City Operating and Capital Budgets. These costs are recovered through reimbursements from the City Divisions' operating and capital budget, based upon services provided. The budget incorporates six functions: Accounting, Risk Management, Personnel, Legal, Customer Care and General Administration.

The development of a separate City Internal Service Budget was based on the realization that the City Division was similar to the Suburban Division, in that it maintained a level of exclusive support functions for the productive activities of water and wastewater services. As a result, LCA isolated specific elements of costs, which were allocated to each area of operation, based on the pro-rata share of its salaries.

Today, in addition to the City Internal Service Budget and the Suburban Internal Service Budget, LCA has established a Consolidated Internal Service Budget to capture those costs which benefit both the City and Suburban Division, but whose capture is uneconomical or unreasonable. These Consolidated Internal Service costs are allocated to each Division on its pro rata share or revenue.

2015 BUDGET

OPERATING EXPENSES

ALLOCATION UNIT: CONSOLIDATED INTERNAL SERVICE

	201			2014		2014		2015
	Act	ual		Budget		Estimate		Budget
PERSONNEL:			_	440.045	æ	E00 000	\$	EEE 008
Permanent (A)			\$	443,915	\$	592,229	Ф	556,096
Overtime				-		4,080		- 140 507
Benefits				117,444		150,593		146,567
Total				561,359		746,903		702,663
PURCHASE OF SERVICES:								
Postage				16,184		22,664		23,344
Telephone				-		24,413		77,800
Computer Services				126,556		128,87 9		156,230
IT Consultant Services				•		-		
Advertising				5,000		4,150		5,000
Building & Equipment Maintenance				42,550		53,577		62,120
Utilities				84,100		53,344		46,900
Audit Fees				37,455		52,855		55,000
Dues & Subscriptions				25,000		33,191		36,305
Travel & Mileage				5,000		6,199		7,000
Education & Training				76,680		57,895		42,015
Worker's Compensation Insurance				22,175		19,713		22,816
P&L Insurance				-		1,161		1,500
Legal/Litigation Fees				50,000		102,039		95,500
Miscellaneous				121,075		85,181		260,250
Risk Management				-		•		61,700
Compliance Expense				•		-		17,750
Public Relations				98,625		43,347		84,525
Special Studies			_	25,000		27,648		35,000
Total		-		735,400		716,256		1,090,755
MATERIALS & SUPPLIES:			,					
Office Supplies				8,761		17,163		17,678
Maintenance Materials and								
Supplies				_		_		-
Total		-		8,761		17,163		17,678
EQUIPMENT/SITE IMPROVEMENT:								
Gen'l Office Furniture and Equipment				· _		41,270		25,000
Computer Equipment & Software				22,700		· -		33,200
Operation Center Improvement				,		_		· <u>-</u>
Total				22,700	_	41,270		58,200
DEPRECIATION:				22,100		,		,
DEFRECIATION.					_	·		
TOTAL EXPENSES	\$	-	\$	1,328,220	\$	1,521,591	\$	1,869,295

⁽A) Salaries include bonus payout.

2015 BUDGET REVENUE SUMMARY CONSOLIDATED INTERNAL SERVICE FUND

	2013 Actual				2014 Estimate	2015 Budget		
Service Fee Allocation (1)		\$	1,328,220	\$	1,521,591	\$ 1,869,295		
Interest and Other Income (2)						 ···		
TOTAL REVENUES (3)	\$ -	\$	1,328,220	\$	1,521,591	\$ 1,869,295		

- (1) Internal Service charges to other budgets.
- (2) 2013 includes a \$3,000 Safety grant from the Delaware Valley Worker's Compensation Trust.
- (3) Excludes recovery of depreciation since actual equipment & furniture payouts are recovered in full in the year of the expenditure or through use of reserves.

2015 BUDGET SUPPORTING DETAIL INTERNAL SERVICE-CONSOLIDATED

Expenses

PERSONNEL

Permanent/Overtime Represents salaries and off-time of employees' indirect time in support of LCA's

City and Suburban Divisions.

Employee Benefits Comprised of medical coverage, defined benefit pension, long-term and short

term disability, social security and Medicare contributions, flexible spending and

unemployment insurance.

PURCHASE OF SERVICES

Postage Represents cost for general mailings, not identified as either City or Suburban

(\$23,344).

Computer Services Represents costs benefiting both City and Suburban systems, such as

MUNIS Service License (\$66,000), MUNIS Dashboard, Human Resources and Maplink (\$10,000), GIS ESRI Software Maintenance (\$15,500), GIS Consulting

Services (\$10,000), EZ Micro (\$32,850) and other services (\$21,880).

Building & Equipment

Maintenance

Represents Operations Center costs, such as office cleaning (\$18,000), security

services (\$7,500), site maintenance (\$16,500) and other maintenance

(\$20,120).

Utilities Budget includes Operations Center Costs, such as electric (\$36,000), propane

(\$4,000), cable (\$2,500) and other utilities (\$4,400).

Audit Fees Represents an extension of Zelenkofske Axelrod's contract for the audit of LCA.

Dues and SubscriptionsOrganization membership fees and contributions and periodical subscriptions.

Travel and Mileage Includes reimbursement to employees at prevailing IRS rate for personal vehicle

use for business purposes.

Education and Training Represents primarily the leadership team's expenses of seminars, conferences

and training.

Workers Compensation Required Coverage for workforce.

Legal/Litigation Represents costs associated with labor relations, part-time Solicitor and other

global legal issues (\$95,500),

Miscellaneous Comprised of human resource projects (\$100,000), banking costs (\$73,000), risk

management activities (\$61,700), compliance expenses (\$17,750) outsourced billing (\$35,000), lien processing (\$15,000), company picnic and other employee

activities (\$11,000), other miscellaneous (\$26,250).

Public Relations Represents costs associated with reaching out to stakeholders with educational

programs and a host of interactive agendas.

Special Study Budget includes a compensation study.

2015 BUDGET SUPPORTING DETAIL INTERNAL SERVICE-CONSOLIDATED

MATERIALS & SUPPLIES

Office Supplies

Purchase of copier and computer supplies and general office supplies.

Office Furniture

Represents costs of furniture for new employees.

Computer Equipment

Includes purchase of (20) Verizon Tablets (\$10,000), (6) desktop computers (\$7,500), Domain Controller and Exchange Server Upgrade (\$7,000) and other hardware purchases (\$8,700).

2015 BUDGET SUPPORTING DETAIL INTERNAL SERVICE-CITY

The City Internal Service Budget includes overhead, support and general administrative services, which are included in the City Operating and Capital Budgets. These costs are recovered through reimbursements from the City Divisions' operating and capital budget, based upon services provided. The budget incorporates six functions: Accounting, Risk Management, Personnel, Legal, Customer Care and General Administration.

The development of a separate City Internal Service Budget was based on the realization that the City Division was similar to the Suburban Division, in that it maintained a level of exclusive support functions for the productive activities of water and wastewater services. As a result, LCA isolated specific elements of costs, which were allocated to each area of operation, based on the pro-rata share of its salaries.

Today, in addition to the City Internal Service Budget and the Suburban Internal Service Budget, LCA has established a Consolidated Internal Service Budget to capture those costs which benefit both the City and Suburban Division, but whose capture is uneconomical or unreasonable. These Consolidated Internal Service costs are allocated to each Division on its pro rata share or revenue.

2015 BUDGET OPERATING EXPENSES

ALLOCATION UNIT: CITY INTERNAL SERVICE

				2014 Budget	J	2014 Estimate	2015 Budget		
PERSONNEL:									
Permanent (A)	\$	489,828	\$	573,990	\$	533,839	\$	693,292	
Overtime		15,165		16,879		17,001		10,390	
Benefits		75,299		300,371		176,551		260,593	
Total		580,292		891,240		727,391		964,276	
CONSOLIDATED INTERNAL SERVICES				917,121		1,217,273		1,391,379	
PURCHASE OF SERVICES:									
Postage		22,500		101,823		89,333		92,013	
Computer Services		11,724		34,050		11,092		36,700	
IT Consultant Services								-	
Advertising		-		_		-		_	
Building & Equipment Maintenance		367		25,000		_		•	
Utilities		10,376		10,000		21,041		-	
Dues and Subscriptions		-		-		5,559		-	
Travel & Mileage		432		-		1,904		-	
Education & Training		4,265		45,890		36,101		44,046	
Worker's Compensation Insurance		· •		153,163		140,250		162,326	
Property & Liability Insurance		124,115		316,887		310,315		287,344	
Legal/Litigation Fees				-		1,498		2,500	
Miscellaneous		20,439		103,200		142,709		-	
Risk Management		•				-		74,100	
Compliance Expense						-		5,500	
Public Relations		-		•		-		-	
Special Studies		-		-		•		-	
Uncollectible Receivables		-		125,000		99		-	
Total		194,216		915,013		759,902		704,529	
MATERIALS & SUPPLIES:		•				•			
Office Supplies		2,019		20,652		12,495		12,870	
Maintenance Materials and									
Supplies		240				480			
Total		2,259		20,652		12,975		12,870	
EQUIPMENT/SITE IMPROVEMENT:									
Gen'l Office Furniture and Equipment		-				33,738		-	
Computer Equipment & Software		507		74,904		-		71,243	
Total		507		74,904		33,738		71,243	
DEPRECIATION:									
TOTAL EXPENSES	\$	777,275	\$	2,818,930	\$	2,751,278	\$	3,144,297	

⁽A) Salaries include bonus payout.

2015 BUDGET REVENUE SUMMARY CITY INTERNAL SERVICE FUND

	 2013 Budget	2014 Annualized			2014 Estimate	2015 Budget		
Service Fee Allocation (1)	\$ 777,275	\$	2,818,930	\$	2,751,278	\$	3,144,297	
Interest and Other Income (2)	 							
TOTAL REVENUES (3)	\$ 777,275	\$	2,818,930	\$	2,751,278	\$	3 <u>,144,297</u>	

- (1) Internal Service charges to other budgets.
- (2) 2013 includes a \$3,000 Safety grant from the Delaware Valley Worker's Compensation Trust.
- (3) Excludes recovery of depreciation since actual equipment & furniture payouts are recovered in full in the year of the expenditure or through use of reserves.

2015 BUDGET SUPPORTING DETAIL INTERNAL SERVICE-CITY

Expenses

PERSONNEL

Permanent/Overtime

Represents salaries and off-time of employees' direct time in the City System supporting either the Water Filtration Plant, Water Distribution System, Wastewater Treatment Plant, Wastewater Collection System or Lab.

Employee Benefits

Comprised of medical coverage, defined benefit pension, long-term and short term disability, social security and Medicare contributions, flexible spending and unemployment insurance.

PURCHASE OF SERVICES

Internal Services Overhead (Consolidated)

Overhead costs (\$1,391,379), which are not directly allocable to certain funds are indirectly allocated based on salaries within a fund, division or department as a percentage of total salaries.

Postage

Represents cost to mail City customer water and wastewater billings (\$92,013).

Computer Services

Represents costs such as PennTeledata Fiber (\$23,600) and Advanced Copier Service and Supplies (\$3,050) and other services (\$10,050).

Education and Training

Budget includes specifically identified training for City Division employees, whether through participation in seminars or classes (\$44,046).

Workers Compensation

Required Coverage for City Division workforce (\$162,326).

Property & Liability Insurance

Required Coverage required under the Concession Agreement for the City Division assets (\$287,344).

Legal/Litigation Fees

Budgeted fees for legal assistance in Concession compliance (\$2,500).

Miscellaneous

Represents Risk Management (\$75,100) and Compliance Expenses (\$5,500) for City Division. Comprised of fleet management, professional services, safety shoe reimbursement, other safety equipment and other expenses.

MATERIALS & SUPPLIES

Office Supplies

Purchase of computer supplies and general office supplies (\$12,870).

Computer Equipment

Includes replacement of ten desktop computers (\$15,000), twenty Verizon Tablets (\$10,000), two Laptop computers with Docking Stations (\$10,000) and some printers and other hardware (\$36,243).

2015 BUDGET CAPITAL EXPENDITURES CITY DIVISION ADMINISTRATIVE

Project	Priority	Estimated Project Cost	Estimated Costs Through 2014	2015 Budget	Beyond 2015
LCA Funded Projects					
Geographic Information System Upgrades & Application Dev. (1)	•	Annual		64,000	
Computer System Hardware & Software Upgrades (1)		Annual		53,000	
Information Technology Master Plan Implementation (1)		1,804,190	213,120	166,500	1,424,570
Total Allentown Division Administrative Capital Expenditure	es:		\$ 213,120	\$ 283,500	\$1,424,570

⁽¹⁾ This Project benefits both the Alientown and Suburban Divisions. Project cost shown is 2/3 to the total project cost which reflects

Note: Projects in bold type will not proceed beyond the planning phase, or beyond current authorized phase without specific authorization from the LCA Board subsequent to the adoption of this budget.

2015 BUDGET SUPPORTING DETAIL INTERNAL SERVICE-CITY

CAPITAL EXPENDITURES

GIS Data Conversion & Application Development)

Includes project costs associated with application development. Also includes data acquisition purchases as needed (2015 Cap Ex \$64,000.see note below)

Computer System Hardware & Software Upgrades

This annual project includes the upgrade of the Microsoft Office software, purchase of Human Resources software; and server replacements for units older than 6 years. (2015 Cap Ex \$53,000 see note below).

Information Technology
Master Plan Update &
Implementation

This multi-year on-going project will implement some of the recommendations made in the Master Plan update). (2015 Cap Ex \$166.500 see note below).

Note: This Project benefits both the Allentown and Suburban Divisions. The 2015 Cap. Ex. cost shown is 2/3 of the total 2015 Cap Ex. For the Project which reflects an allocation based upon system revenue where the Suburban Divisions share is 1/3 and the City Division 2/3 of the total project cost

2015 BUDGET SUPPORTING DETAIL INTERNAL SERVICE-SUBURBAN

The Suburban Internal Service Budget includes overhead, support and general administrative services, which are included in the Suburban Operating and Capital Budgets. These costs are recovered through reimbursements from each operating and capital budget, based upon services provided. The budget incorporates six functions: Accounting, Risk Management, Personnel, Legal, Customer Care and General Administration.

The 2015 budget includes several significant activities and changes as follows:

- Operation Center expenses are now included in the Consolidated Internal Service Budget, for indirect
 allocation to both the City and Suburban Internal Services Budget. These expenses include utilities such as
 electric, telephone and garbage collection.
- Other expenses, which in the past were classified as Suburban Internal Services, such as audit fees, legal
 fees, education and training and public relations will be largely classified as Consolidated Internal Services
 with an indirect allocation to both Divisions.

The Suburban Internal Service Fund is reimbursed monthly from other Suburban Budget centers. Actual costs are allocated to each budget based upon salaries within each fund. For systems with less than 250 customers, the allocation percentage is further reduced to 20% of the salary ratio to limit cost exposure. At year-end a final reconciliation is prepared with the reimbursement amounts for each fund determined by first allocating Internal Service costs that exclusively benefit an individual budget center and then allocating remaining costs to each budget based upon the salary percentage method described above.

The Authority performs certain work, which is reimbursed by others (municipalities, developers, etc.). Such charges are billed on a direct payroll cost with a cost multiplier applied for benefits and internal service costs. This factor only includes benefits and internal service costs which are not directly allocated to a specific fund. The cost multiplier for 2015 is 2.25 times direct salary and is based on budget figures.

2015 BUDGET OPERATING EXPENSES

ALLOCATION UNIT: SUBURBAN INTERNAL SERVICE

	2013 Actual	2014 Budget	2014 Estimate	2015 Budget
PERSONNEL:				
Permanent (A)	\$ 709,413	\$ 464,422	\$ 475,015	\$ 475,392
Overtime	7,578		3,273	320
Benefits	173,119	•	177,450	129,324
Total	890,110		655,738	605,037
CONSOLIDATED INTERNAL SERVICES	_	411,098	304,318	477,916
PURCHASE OF SERVICES:		•		
Postage	59,223	67,882	40,204	41,410
Computer Services	87,200	•	1,165	3,000
IT Consultant Services	-	-	.,	•
Advertising	2,682	_	•	-
Building & Equipment Maintenance	54,180		19,376	-
Utilities	69,571	-	-	
Travel & Mileage	8,041	-	871	1,000
Education & Training	19,513	20,270	14,649	42,829
Worker's Compensation Insurance	8,938		33,591	38,878
Property & Liability Insurance	129,103	•	158,659	175,128
Legal/Litigation Fees	93,256	•	31,517	10,000
Miscellaneous	142,280		33,772	1,500
Risk Management				20,000
Compliance Expense				3,000
Public Relations	27,260	-	-	-
Special Studies	34,872	•		-
Total	736,119	308,728	333,804	336,745
MATERIALS & SUPPLIES:				
Office Supplies	19,473	10,435	1,804	1,858
Maintenance Materials and				
Supplies	11,017		7,007	7,500
Total	30,490	10,435	8,811	9,358
EQUIPMENT/SITE IMPROVEMENT:				
Gen'l Office Furniture and Equipment	3,315		20,387	.
Computer Equipment & Software	19,594		7,281	26,100
Total	22,909	24,100	27,668	26,100
DEPRECIATION:	16,983	7,000	6,996	7,000
TOTAL EXPENSES	\$ 1,696,611	\$ 1,371,158	\$ 1,337,335	\$ 1,462,156

⁽A) Salaries include bonus payout.

2015 BUDGET REVENUE SUMMARY SUBURBAN INTERNAL SERVICE FUND

	 2013 Actual	 2014 Budget	2014 Estimate	÷	2015 Budget
Service Fee Allocation (1)	\$ 1,680,150	\$ 1,788,055	\$ 1,330,339	\$	1,455,156
Interest and Other Income (2)	 2,258	 3,100			
TOTAL REVENUES (3)	\$ 1,682,408	\$ 1,791,155	\$ 1,330,339	\$	1,455,156

- (1) Internal Service charges to other budgets.
- (2) 2013 includes a \$3,000 Safety grant from the Delaware Valley Worker's Compensation Trust.
- (3) Excludes recovery of depreciation since actual equipment & furniture payouts are recovered in full in the year of the expenditure or through use of reserves.

2015 BUDGET SUPPORTING DETAIL INTERNAL SERVICE-SUBURBAN

Expenses

PERSONNEL

Represents salaries and off-time of employees' direct time in the Suburban System supporting the water and/or wastewater operations, including lab analysis or pretreatment operations (\$483,277).

PURCHASE OF SERVICES

Internal Services -Overhead (Consolidated)

Overhead costs (\$477,916), which are not directly allocable to certain funds are indirectly allocated based on salaries within a fund, division or department as a percentage of total salaries.

Postage

Represents cost to mail Suburban customer billings (\$41,410).

Computer Services

Nominal services for \$3,000.

Education and Training

Budget includes specifically identified training for Suburban Division employees, whether through participation in seminars or classes (\$42,829).

Workers Compensation

Workplace injury coverage for those continuing Suburban workers (\$38,878).

Property & Liability

Insurance

Premiums for all Suburban properties, with the exception of the Wastewater

Treatment Plant in Upper Macungie (\$175,128).

Legal/Litigation

Represents general litigation expenses within Suburban Division (\$10,000).

Miscellaneous

Represents Risk Management (\$20,000) and Compliance Expenses (\$3,000) for the Suburban Division. Comprised of fleet management, professional services, safety shoe reimbursement, other safety equipment and other

miscellaneous expenses (\$1,500).

MATERIALS & SUPPLIES

Office Supplies

Purchase of computer supplies and general office supplies (\$1,858).

Maintenance Supplies

Represents general maintenance supplies for Suburban offices (\$7,500).

Computer Equipment

Budget includes fifty (50) upgrades to Microsoft Office 2013 (\$8,800) and a

variety of other software upgrades (\$17,300).

DEPRECIATION

Straight-line method of Depreciation is used for office equipment and other

furnishings.

CAPITAL EXPENDITURES SUBURBAN DIVISION ADMINISTRATIVE

Project	Priority	Estimated Project Cost	Estimated Costs Through 2014	2015 Budget	Beyond 2015
Knowledge Management / Sharing Program	High	596,250	458,000	138,250	,
SCADA Programming, Hardware Upgrades, Software & Training	High	Annual		148,000	
Geographic Information System Upgrades & Application Dev. (1)	High	Annual		31,670	
Computer System Hardware & Software Upgrades (1)	High	Annual		26,260	
Information Technology Master Plan Implementation (1)	High	903,180	106,690	83,350	713,140
Total Suburban Divisions Administrative Capital Expenditures	:		\$ 564,690	\$ 427,530	\$ 713,140

⁽¹⁾ This Project benefits both the Allentown and Suburban Divisions. Project cost shown is 1/3 of the total project cost which reflects an allocation based upon system revenue where the Suburban Divisions share is 1/3 and the City Division 2/3 of the total project cost.

Note: Projects in bold type will not proceed beyond the planning phase, or beyond current authorized phase without specific authorization from the LCA Board subsequent to the adoption of this budget.

2015 BUDGET SUPPORTING DETAIL INTERNAL SERVICE-SUBURBAN

CAPITAL EXPENDITURES

Knowledge Management / Sharing Program

This is the final year of a multi-year project that addressed certain items identified in the Knowledge Management assessment recommendations completed in 2011. Among other things the Project focused on operations department issues, compliance tracking, addressing transitions for planned retirements and included the development and implementation of a skill-based pay system in the Suburban Operations (2015 Cap Ex \$138,250).

SCADA Programming, Hardware Upgrades, Software & Training

This on-going project includes hardware, software and programming to enhance system control and to provide training for LCA (2015 Cap Ex \$148,000).

GIS Data Conversion & Application Development)

Includes project costs associated with application development. Also includes data acquisition purchases as needed (2015 Cap Ex \$64,000.see note below)

Computer System Hardware & Software Upgrades

This annual project includes the upgrade of the Microsoft Office software, purchase of Human Resources software; and server replacements for units older than 6 years. (2015 Cap Ex \$53,000 see note below).

Information Technology Master Plan Update & Implementation

This multi-year on-going project will implement some of the recommendations made in the Master Plan update). (2015 Cap Ex \$166,500 see note below)

Note: This Project benefits both the Allentown and Suburban Divisions. 2015 Cap Ex. Amount shown is 1/3 of the total 2015 Cap Ex. for the Project which reflects an allocation based upon system revenue where the Suburban Divisions share is 1/3 and the City Division 2/3 of the total project cost

II. Meter Test Fee

(adopted 6/16/98; effective 6/16/98)

Meter Size	Fee
5/8", 3/4", 1"	\$15.00
Larger than 1"	Actual Cost

New Fee: \$50 or Actual Cost if >\$50

III. Meter Inspection Fee

(adopted 5/11/99; effective 5/11/99)

\$40.00

<u>New Fee</u>: \$50

IV. Service Order / Site Visit Fees

(adopted 12/07/11; effective 01/01/12)

Business Hours – 7:00 a.m. and 4:45 p.m., Monday through Friday (except holidays)

\$40.00 <u>New Fee</u>: \$50

340.00 <u>New Fee</u>.

After Hours

New Fee: \$150

Service Termination & Restoration Charge

NEW New Fee: \$100

V. Site Revisitation Charge

(adopted 12/16/02; effective 3/1/03)

\$80.00

\$120.00

New Fee: \$100

VI. Lien Administration Fee

(adopted 12/13/04; effective 01/1/05)

\$56.50 + Current Lehigh County Clerk of Court's Filing Fee

VII. <u>Hydrant Security Device Fee</u>

Central Lehigh Division

\$115.00

(adopted 06/27/05; effective 07/1/05)

VIII. Fire Flow Test Charge

(adopted 12/07/11; effective 01/01/12)

\$180.00

IX. <u>Use of Easement Preparation Fee</u>

(adopted 12/07/11; effective 01/01/12)

\$90.00

X. Backflow Prevention Non-compliance Charge

(adopted 12/07/11; effective 01/01/12)

\$50.00

Customer Facilities Fee (adopted 3/12/12; effective 3/12/12)

This fee includes the supply and installation of a water meter and a backflow protection device for residential facilities (meter component). The fee can also include, at the customer's option and based on actual cost, installation of a service line from the property line to the customer's facility by the Authority.

All service lines must have an approved backflow protection device installed. The Authority will furnish a DC (dual check) device for residential facilities.

Meter Size	Meter Fee - With DC Backflow		Wit	Meter Fee - h No Backflow
5/8"	\$	362	\$	322
5/8" Pit	\$	388	\$	348
3/4"	\$	395	\$	355
3/4" Pit	\$	408	\$	368
1"			\$	397
1" Pit			\$	410
1 1/2" Displacement			\$	690
1 1/2" Turbine			\$	942
1 1/2" Compound			\$	1,274
2" Displacement			\$	878
2" Turbine			\$	1,076
2" Compound			\$	1,435

Meter Size	NEW Meter Fee - With DC Backflow		 V Meter Fee - No Backflow
5/8"	\$	357	\$ 320
5/8" Pit	\$	383	\$ 346
3/4"	\$	363	\$ 326
3/4" Pit	\$	389	\$ 352
1"			\$ 386
1" Pit			\$ 412
1 1/2" Displacement *			\$ 651
1 1/2" Turbine *			\$ 913
1 1/2" Compound *			\$ 1,261
2" Displacement *			\$ 844
2" Turbine *			\$ 1,042
2" Compound *			\$ 1,401

^{*} LCA will install all meters 1" or smaller. Larger meters may be purchased from LCA at the prices listed above, which includes a \$50 inspection fee. If LCA installation of a larger meter is requested, the customer will pay actual costs, on a time and materials basis.

Notes: (cont'd)

Backflow protection devices for commercial/industrial facilities shall be approved by the Authority, and supplied, installed and tested by the applicant. Meters larger than 2" shall be

CITY OF ALLENTOWN

Adopted & Effective 7/22/2013

<u>NOTE</u>: Unless expressed specifically in this Schedule of Rates and Charges, customers of the City of Allentown water system are subject to any and all additional charges, fees, penalties and policies stated in Lehigh County Authority's Rules & Regulations for Water Service and its Schedule of Water Rates and Charges duly adopted for its non-City systems.

A. <u>Metered Water Use</u>

Fixed Char	ges	
Meter Size	Monthly Fixed	Quarterly Fixed
	Charge**	Charge*
5/8" *	\$ 17.21	\$ 25.21
3/4" *	\$ 19.09	\$ 30.91
1" *	\$ 22.95	\$ 42.29
1 1/2"	\$ 32.45	\$ 71.12
2"	\$ 43.83	\$ 105.63
3"	\$ 74.10	\$ 197.76
4"	\$ 108.33	\$ 301.30
6"	\$ 203.11	\$ 589.09
8"	\$ 316.98	\$ 934.19

^{*}Typical residential meter sizes (5/8", 3/4" and 1") are billed Quarterly.

^{**} Larger meters sized 1 1/2" and larger are billed Monthly.

Volume	Rate per 1,000 Gallons
All Volume	\$ 3.10125

B. Capital Cost Recovery Charge

To be determined.

C. <u>Private Fire Protection</u>

Each Hydrant	\$310 per year	
	(may be billed monthly or	
	quarterly)	

D. <u>Service Termination & Restoration Charge</u>

\$100.00

DELETE

E. Tapping Fees

Part 1 \$810.00 per Equivalent Dwelling Unit

Part 2 To be determined based on Capital Recovery Fee calculation

F. <u>Customer Facilities Fees</u> (adopted & effective 9/23/13)

Fees includes the supply and installation of a water meter and associated components.

Meter Size	With LCA Installation*	Without LCA Installation*
5/8"	\$270.59	
3/4"	\$293.45	
1"	\$323.17	
1 1/2"	\$532.24	
2"	\$662.95	
3" Compound		\$1,220.19
3" Turbine		\$1,187.43
4" Compound		\$1,487.20
4" Turbine		\$1,504.63
6" Compound		\$2,615.00
6" Turbine		\$2,650.80
8" Compound		\$7,057.25
8" Turbine		\$6,567.95

^{*} LCA will install all meters 2" or smaller. Larger meters may be purchased from LCA at the prices listed above, which includes a \$40 inspection fee. If LCA installation of a larger meter is requested, the customer will pay actual costs, on a time and materials basis.

Meter Size	NEW Meter Fee - With LCA Installation*	NEW Meter Fee - Without LCA Installation*
5/8"	\$258	
3/4"	\$280	
1"	\$308	
1 1/2"	\$463	
2"	\$562	
3" Compound		\$1,318
3" Turbine		\$1,317
4" Compound		\$1,594
4" Turbine		\$1,594
6" Compound		\$2,764
6" Turbine		\$2,764
8" Compound		\$7,404
8" Turbine		\$7,404

Other Components	Price	NEW FEES
5/8" Meter Horn	\$36.50	\$49.00
3/4" Meter Horn	\$56.00	\$59.00
Curb Box	\$62.24	\$53.33

G. Connection Fee (adopted & effective 9/23/13)

Actual cost of connecting to the Authority water line, completed by Authority personnel. Additional fees may apply for service line inspection, plan review, construction permits and/or capital recovery charges. Please contact the Authority's Capital Works department for more information.

Tap Size	Charge
1"	\$237.02
1 1/2"	\$394.82
2"	\$509.98
4" x 4"	\$1,696.33
6" x 4"	\$1,666.33
6" x 6"	\$1,827.33
8" x 4"	\$1,681.33
8" x 6"	\$1,837.33
8" x 8"	\$2,294.33
12" x 4"	\$1,816.33
12" x 6"	\$2,002.33
12" x 8"	\$2,379.33
12" x 12"	\$3,759.33

Tap Size	NEW Charge	
3/4"	\$248	
1"	\$270	
1 1/2"	\$429	
2"	\$564	
4" x 4"	\$1,622	
6" x 4"	\$1,655	
6" x 6"	\$1,832	
8" x 4"	\$1,651	
8" x 6"	\$1,832	
8" x 8"	\$2,322	
12" x 4"	\$1,776	
12" x 6"	\$1,964	
12" x 8"	\$2,459	
12" x 12"	\$3,897	

LEHIGH COUNTY AUTHORITY SCHEDULE OF WASTEWATER RATES AND CHARGES

II. Metering Fees

A. Meter Purchase/Installation Fee

(adopted 3/12/12; effective 3/12/12)

	Purchase	
Meter Size	Only *	Purchase & Installation *
5/8"	\$ 108	\$ 213
5/8" Pit	128	233
3/4"	141	246
3/4" Pit	148	253
1"	183	288
1" Pit	190	295
1-1/2"	476	581
1-1/2" Pit	728	833
2" Displacement	1,060	1,165
2" Displacement Pit	664	769
2" Turbine	862	967
2" Compound	1,221	1,326

^{*} Prices include ECR meter with touchpad and installation wire. LCA reserves the right to include additional equipment, such as a radio unit for more efficient metering operations. Pricing to be adjusted at the time of application to include any additional requirements or labor costs.

Meter Size	Purchase & Inspection *
5/8"	\$ 277
5/8" Pit	303
3/4"	283
3/4" Pit	309
1"	343
1" Pit	369
1-1/2"	651
1-1/2" Pit	913
2" Displacement	1,261
2" Displacement Pit	844
2" Turbine	1,042
2" Compound	1,401

^{*} Prices include ECR meter with touchpad, radio read unit and installation wire, plus \$50 inspection fee. Plumber shall install all components and call for meter inspection by LCA personnel.

Updated: January 1, 2015

LEHIGH COUNTY AUTHORITY SCHEDULE OF WASTEWATER RATES AND CHARGES

G. Exceptional Strength Charges (adopted 12/10/12; effective 01/01/13)

(Commercial & Industrial)	\$/pound	NEW FEE
BOD	0.33	0.22
TSS	0.30	0.20
TKN	0.53	0.29

LEHIGH COUNTY AUTHORITY SCHEDULE OF WASTEWATER RATES AND CHARGES

WESTERN LEHIGH INTERCEPTOR SYSTEM

I. Schedule of Wastewater Rates

(adopted 7/22/13; effective 8/1/13)

LCA Signatories	Rate (\$)	NEW RATE
Flow (per 1,000 gallons)	1.03	1.26
BOD (per pound)	0.33	0.22
TSS (per pound)	0.30	0.20
TKN (per pound)	0.53	0.29
Allocation (per 1,000 gallons per day)	0.25	0.21
Emmaus		
Flow (per 1,000 gallons)	0.38	0.74

II. Tapping Fee

(adopted 7/14/14; effective 7/1/14)

<u>System</u>	Tapping Fee \$/gal/day	Tapping Fee \$/EDU
Treatment Allocation	5.51	1,229.00
Western Lehigh Interceptor	2.65	591.00

LITTLE LEHIGH RELIEF INTERCEPTOR SYSTEM

I. Schedule of Wastewater Rates

(adopted 12/10/12; effective 01/01/13)

LCA Signatories	Rate (\$)	NEW RATE
Phase 1 Flow (per 1,000 gallons)	0.17	0.12
Other Users – Lower Macungie Phase 2 & Brookside Road,		
Salisbury, and So. Whitehall Townships		
Phase 1 Flow (per 1,000 gallons)	0.12	0.09
LCA Signatories – Phase 2 Flow (per 1,000 gallons)	0.03	0.03

II. Tapping Fee

(adopted 7/14/14; effective 7/1/14)

<u>System</u>	Tapping Fee \$/gal/day	Tapping Fee <u>\$/EDU</u>
Little Lehigh Relief Interceptor	0.94	210.00