



LCA Main Office:
1053 Spruce Road
Wescosville, PA 18106
610-398-2503

Agendas & Minutes Posted:
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LEHIGH COUNTY AUTHORITY

Published: March 20, 2023

BOARD MEETING AGENDA – March 27, 2023 – 12:00 p.m.

In-Person or Virtual Meeting Attendance Options Available: Meetings of the LCA Board of Directors will be held at LCA's Main Office as well as online using the Zoom Meetings application, which includes a telephone option. Public participation is welcomed both in-person or virtually. Instructions for joining the meeting online or by phone are posted on the LCA website in the morning on the day of the meeting, prior to the start of each meeting. You may also issue comment to LCA via email to LCABoard@lehighcountyauthority.org in advance of any meeting or view the meeting at a later time by visiting the LCA website. Please visit <https://www.lehighcountyauthority.org/about/lca-board-meeting-videos/> for specific instructions to join the meeting if you are attending virtually. If attending in-person at LCA's Main Office, please follow all safety and sanitation protocols posted.

1. Call to Order

- **NOTICE OF MEETING RECORDINGS**

Meetings of Lehigh County Authority's Board of Directors that are held at LCA's Main Office at 1053 Spruce Road, Wescosville, PA, may be recorded for viewing online at lehighcountauthority.org. Recordings of LCA meetings are for public convenience and internal use only and are not considered as minutes for the meeting being recorded, nor are they part of public record. Recordings may be retained or destroyed at LCA's discretion.

- *Public Participation Sign-In Request*

2. Review of Agenda / Executive Sessions

- Additions to Agenda (vote required if action will be taken)

3. Approval of Minutes

- *February 27, 2023 Board meeting minutes*

4. Public Comments

5. Action / Discussion Items:

FINANCE AND ADMINISTRATION

WATER

- *Allentown Division – Large Diameter Valve Rehabilitation & Replacement Program (Approval) (yellow) (digital Board packet, pages 8-11)*

WASTEWATER

- *Suburban Division – Industrial Pretreatment Plant Master Plan (Presentation & Discussion)*
- *City of Allentown – KISS System Modeling – Preliminary Screening of Alternatives (PSOA) (Presentation & Discussion)*
- *Suburban Division – Heidelberg Heights Wastewater Treatment Plant – Mechanical Screen Project (Approval) (blue) (digital Board packet, pages 12-16)*

6. Monthly Project Updates / Information Items (1st Board meeting per month)

7. Monthly Financial Review (2nd Board meeting per month) (digital Board packet, pages 17-29) – **February 2023 report attached.**

8. Monthly System Operations Overview (2nd Board meeting per month) (digital Board packet, pages 30-31) – **February 2023 report attached.**
9. Staff Comments
10. Solicitor's Comments
11. Public Comments / Other Comments
12. Board Member Comments
13. Executive Sessions
14. Adjournment

UPCOMING BOARD MEETINGS		
April 10, 2023	April 24, 2023	May 8, 2023

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. During the Public Comment portions of 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.

REGULAR MEETING MINUTES

February 27, 2023

The Regular Meeting of the Lehigh County Authority Board of Directors was called to order at 12:01 p.m. on Monday, February 27, 2023, Chairman Brian Nagle presiding. The meeting was hybrid via in-person and video and audio advanced communication technology ("ACT"), using the Zoom internet application, including telephone option. Each Board member and other attendees of the meeting were able to hear each other attendee and be heard by each other attendee. The public could also participate in the meeting in-person or via ACT, using the Zoom internet application, including telephone option. A Roll Call of Board members present was taken. Brian Nagle, Kevin Baker, Jeff Morgan, Sean Ziller, and Marc Grammes were present for Roll Call, and remained for the duration of the meeting.

Solicitor Michael Gaul of KingSpry was present along with Authority Staff, Liesel Gross, Ed Klein, Chris Moughan, Chuck Volk, Andrew Moore, Phil DePoe, Susan Sampson, Albert Capuzzi, and Lisa Miller.

At the request of Chairman Nagle, and by consensus of the Board, Liesel Gross was appointed to serve as temporary Recording Secretary for the meeting due to the absence of the Secretary and Assistant Secretary.

Chairman Nagle announced that the Board received their electronic and hard copies of the Board packet in advance and asked if anyone did not receive their copy of the packet. A copy of the packet is also available online.

Chairman Nagle introduced the newest Authority Board member, Marc Grammes. Mr. Grammes gave a brief overview of his work history and his experience as a former County Commissioner.

REVIEW OF AGENDA

Liesel Gross announced that there are no changes or additions to the agenda; however, there will be summary presentation to provide background and context for all three of the wastewater projects listed on the agenda. No Executive Session is planned.

APPROVAL OF MINUTES

February 13, 2023 Meeting Minutes

On a motion by Marc Grammes, seconded by Kevin Baker, the Board approved the minutes of the February 13, 2023, Board meeting as presented (5-0).

PUBLIC COMMENTS

None.

Election of Officers

Chairman Nagle reported that Norma Cusick served as the Nominating Committee and had provided a report prior to the meeting detailing the following slate of nominations for 2023 officers:

Brian Nagle, Chair
Amir Famili, Vice Chair
Linda Rosenfeld, Secretary

Ted Lyons, Treasurer
Kevin Baker, Assistant Treasurer
Norma Cusick, Assistant Secretary

Chairman Nagle asked if there were any other nominations, which there were not. On a motion by Jeff Morgan, seconded by Kevin Baker, the Board elected the officers for 2023 as nominated: Brian Nagle as Chair, Amir Famili as Vice Chair, Ted Lyons as Treasurer, Kevin Baker as Assistant Treasurer, Linda Rosenfeld as Secretary, and Norma Cusick as Assistant Secretary (5-0).

Wastewater Projects – Summary Presentation

Liesel Gross presented historical background information on the Kline's Island Sewer System (KISS) and the Authority's efforts to address environmental and economic development goals of the region. She explained prior Administrative Orders issued by the U.S. Environmental Protection Agency to address sanitary sewer overflows and how the KISS municipalities have been working together to address wet-weather flows. In addition, because economic development is continuing, future sewer system capacity must also be addressed. She reviewed the work schedule in place to develop a regional Act 537 Plan by 2025, which will be discussed in more detail at future meetings. A critical component of the planning process is for all municipalities in the KISS region to work on eliminating inflow and infiltration (I&I) from the sanitary sewer system. Flow monitoring and system modeling work was completed in 2021 and 2022, which provided detailed information to all municipalities so they can develop their future I&I source removal programs.

With this background in mind, three projects are on the agenda for today's meeting, which are related to specific system rehabilitation work needed to address I&I. Ms. Gross provided an overview of all three projects. She also provided a summary of the provisions within the Allentown Water & Sewer Lease, as amended in 2020, regarding how the projects in the City of Allentown are to be handled. She highlighted that the City has developed a new 10-year I&I Source Reduction Program that is estimated to cost \$50 million.

Some Board discussion followed regarding the need for intermunicipal collaboration and public communication about the expenses that will be incurred to implement the regional Act 537 Plan.

Suburban Division – Western Lehigh Interceptor Municipalities Test & Seal Lateral Grouting

Chuck Volk reviewed the project to complete sewer system rehabilitation work in Upper Macungie, Lower Macungie, and Upper Milford townships. This project will focus on grouting sewer lateral connections and main line joints, which were determined to be sources of inflow and infiltration (I&I) in the Western Lehigh Interceptor service area. The Authority will manage the project on behalf of Upper Macungie and Lower Macungie townships, working within their established budget constraints. The Upper Milford Township system is owned and operated directly by the Authority. Mr. Volk emphasized the importance of pre-construction sewer cleaning and inspection services, and inspection services during construction. In addition, post-construction sewer cleaning and inspection will be completed 18 months after construction.

Mr. Volk reviewed the bids received for this work, noting that Standard Pipe Services, LLC has successfully completed other sewer rehabilitation projects for the Authority in the past. Arcadis will provide full-time inspection services and project documentation services.

Some Board discussion followed regarding the use of contractors for this work, or the potential to purchase a grouting machine to do the work in house. The Board asked for clarification of the cost share attributed to each township. Mr. Volk explained the quantity of work to be completed won't be known until the pre-construction cleaning and inspection is completed, but the quantities for each township would be adjusted to conform to their budget availability for this project.

On a motion by Jeff Morgan, seconded by Sean Ziller, the Board approved the Capital Project Authorization for the Western Lehigh Interceptor Municipalities Test and Seal Sewer Rehabilitation

Project - Construction Phase, in the amount of \$1,607,578.00, which includes the General Contract Award to Standard Pipe Services, LLC in the amount of \$1,315,078.00 and the Professional Services Authorization to Arcadis in the amount of \$235,000.00 (5-0).

City of Allentown – Sanitary Sewer Collection System: I&I Source Reduction Program (City Year 4)

Phil DePoe reviewed the project to complete sewer system rehabilitation work in the City of Allentown. This is the last phase of the City's initial program to reduce inflow and infiltration (I&I) in the City system, as described in the 2018 Regional Flow Management Strategy. The project will focus on grout sealing and cured-in-place pipelining in areas determined to have high rates of I&I. The project will be paid by the City through the use of Administrative Order Bonds issued in 2020.

There was some discussion regarding the different rehabilitation methods, such as grouting versus pipelining, used in the projects presented for authorization. Mr. DePoe explained the rehabilitation method is generally determined by the engineer's judgement of the appropriate repair technique for each system.

Mr. DePoe explained the bid process and noted that a very low bid was received by Standard Pipe Services, LLC, and the was later withdrawn due to a mathematical error. He also noted an error in the project memo that stated the Authority did not have prior experience with the apparent low bidder, Vortex Services, LLC. He clarified that Vortex Services completed the prior year's project and their service was satisfactory.

There was some discussion regarding the bid withdrawal by Standard Pipe Services. Mr. DePoe explained that the bid documents allow for notice of bid withdrawal to be issued by a bidder within two days of the bid date. Standard Pipe Services withdrew their bid on the same day as the bid date, which is within the acceptable window. Solicitor Gaul advised the Board that as a matter of procedure, the Board may wish to take official action to accept the bid withdrawal from Standard Pipe Services.

On a motion by Jeff Morgan, seconded by Marc Grammes, the Board accepted the request issued on February 16, 2023 by Standard Pipe Services, LLC to withdraw their bid (5-0).

On a motion by Jeff Morgan, seconded by Sean Ziller, the Board approved the Capital Project Authorization for the City of Allentown I&I Source Reduction Program, Year 4 - Construction Phase in the amount of \$885,756.00, which includes the Professional Services Authorization to Kleinfelder in the amount of \$132,720.00 and the Construction Contract to Vortex Services, LLC in the amount of \$723,036.90 (5-0).

Allentown Division – Sanitary Sewer Collection System: I&I Source Reduction Program (LCA Year 1)

Albert Capuzzi reviewed the project to design the upcoming phase of sewer system rehabilitation work in the City of Allentown, which will be constructed in 2024. This will be the first phase of a new 10-year program to reduce inflow and infiltration (I&I) in the City system, which will be implemented and funded by the Authority in accordance with the Allentown Water & Sewer Lease, as amended in 2020. Mr. Capuzzi explained the authorization request is for design and construction phase engineering services only, and further discussion on project scope would occur between the Authority and the City prior to seeking construction bids. He explained the process for selecting the engineering firm, which included issuing a request for proposals to five firms noted for their experience in sewer system rehabilitation work. Kleinfelder was selected based on the merits of their

technical and cost proposals. Mr. Capuzzi noted that Kleinfelder has been working on the City's I&I source reduction program for several years, and their work has been satisfactory.

Chairman Nagle noted that the cost estimate of \$50 million for the full 10-year program is not part of the authorization request today, but the Board should discuss the source of funding for this program at a future meeting.

On a motion by Jeff Morgan, seconded by Kevin Baker, the Board approved the Capital Project Authorization for the City of Allentown I&I Source Reduction Program, Year 1 - Design & Construction Phase Engineering Services in the amount of \$275,103.00, which includes the Professional Services Authorization to Kleinfelder in the amount of \$255,103.00 (5-0).

MONTHLY FINANCIAL REVIEW

Ed Klein informed the Board about the changes made to the presentation by removing some of the extraneous details and focusing more on the high-level variances and metrics by fund. He then gave an overview of the December 2022 financial statements, highlighting variances between actual expenses and budgeted or forecasted expenses. Some discussion followed regarding key financial metrics and critical conclusions of the report. Mr. Klein stated that the Suburban Wastewater revenue variance was significant due to the credits due to the municipalities last year. He noted operating expenses were below budget in all funds, but capital spending was not aligned with budget, which requires additional review.

The Board thanked Mr. Klein for his work to consolidate the presentation and recommended an executive summary be added to the presentation in the future. Mr. Klein thanked the Board for the feedback and acknowledged the staff for their efforts to support ongoing financial reporting to the Board.

MONTHLY SYSTEM OPERATIONS OVERVIEW

Andrew Moore reviewed the January 2023 Operations report and highlighted the new report format, which was modified to include more information about compliance performance of the Authority's water and wastewater systems. He noted that the compliance information shown in the new report is subject to regulatory reporting deadlines, which may not always match up with the Board meeting schedule, so some flexibility in the reporting schedule to the Board may be necessary.

The Board thanked Mr. Moore for providing additional compliance information on the report so the Board is more aware of problem areas as well as systems with good performance.

STAFF COMMENTS

Liesel Gross noted that the schedule for preparing and presenting the Authority's Capital Plan has been adjusted to reflect recommendations by staff as well as consultants who are working with the Authority on the strategic asset management plan development. She also noted that the first five years of the City's new 10-year Inflow & Infiltration Source Reduction Program will be incorporated into the next edition of the Capital Plan, so the Board will see the financial impact of that program in context of the entire plan. Albert Capuzzi explained that the schedule adjustment will also allow for the Capital Plan to align more closely with the Authority's budget process. The staff will present preliminary Capital Plan information later this spring or summer.

SOLICITOR'S COMMENTS

None.

PUBLIC COMMENTS / OTHER COMMENTS

None.

BOARD MEMBER COMMENTS

Chairman Nagle reminded the Board to complete the Conflict-of-Interest forms and the Statement of Financial Interest forms by May 1, 2023.

EXECUTIVE SESSION

None.

ADJOURNMENT

There being no further business, the Chairman adjourned the meeting at 1:47 p.m.

Liesel M. Gross
Recording Secretary (temporary)

MEMORANDUM

Date: March 20, 2023

To: Lehigh County Authority Board of Directors
Liesel Gross, CEO

From: Charles Volk, P.E., Chief Capital Works Officer
Jason Peters, Linear Asset Project Manager

Subject: Allentown Water System – Large Diameter Valve Rehabilitation & Replacement Program – Phase 1 Design

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Capital Project Authorization – Allentown Division – Large Diameter Valve Replacement Program – Phase 1 Design Phase	\$74,400
2	Professional Services Authorization – Gannett Fleming (*)	\$59,400

**Included in the Capital Project Authorization*

PROJECT OVERVIEW:

The LCA Board authorized the Large Diameter Valve Prioritization Program planning phase study on 4/11/2022 as part of LCA's on-going asset management strategy. The goal of the planning effort was to assess the condition of existing large valves and prioritize the replacement of inoperable/poor condition assets in order to minimize customer service outages and reduce reactive/emergency maintenance costs.

The results of the prioritization study will be used as the basis of design for this multi-year valve replacement program. The Phase 1 design scope will focus on three 36-inch diameter valves that are critical to the City of Allentown water system operation and are currently either inoperable or in very poor condition. Two of these valves are located on the Schantz Spring supply line (Martin Luther King Jr. Blvd) and the other valve is on South 12th Street.

FINANCIAL:

This project will be funded by the Allentown Division and is listed in the 2023 Allentown Division capital budget.

PROJECT STATUS:

Design phase commencement pending Board approval.

THIS APPROVAL:

This authorization is for design and bid phase engineering services for the Phase 1 project. The scope of services for this phase of work includes the following tasks:

Professional Services
1. Conduct site meeting with LCA operations to determine new valve installation location and site issues
2. Perform topographic/utility survey of new valve locations.
3. Perform hydraulic analysis using Allentown Division water system model to assess operation of the system when isolating areas to install new valves; determine line stop locations
4. Prepare preliminary design plans and review with LCA staff
5. Prepare final design plans and specifications
6. Provide bid phase services including: Prepare bid documents and upload to PennBid, respond to RFIs, attend pre-bid meeting, issue addenda, review bids, prepare bid recommendation, issue notice of award

LCA intends to retain the services of Gannett Fleming (Gannett) to provide design phase engineering. Gannett Fleming serves as LCA's engineer for the annual water main replacement programs for both the Suburban and Allentown divisions (including prioritization, design, and construction phase services). Gannett also developed the detailed hydraulic model of the Allentown water system that is actively used to this date. Gannett has comprehensive knowledge of the City's water system, and the quality of their work is consistently excellent.

PROJECT SCHEDULE:

Pending Board approval, design phase is anticipated to begin immediately with bid-ready documents prepared by late Spring 2023.

FUTURE AUTHORIZATIONS:

Future construction phase.

CAPITAL PROJECT AUTHORIZATION

PROJECT NO.:	<u>AD-W-22-1</u>	BUDGET FUND:	<u>Allentown Water</u>
PROJECT TITLE:	<u>Allentown Division – Large Diameter Valve Replacement Program – Phase 1 Design Phase</u>	PROJECT TYPE:	<input type="checkbox"/> Construction <input checked="" type="checkbox"/> Engineering Design <input type="checkbox"/> Engineering Study <input type="checkbox"/> Amendment
THIS AUTHORIZATION:	<u>\$ 74,400</u>		
TO DATE (W/ ABOVE)	<u>\$ 153,000</u>		
DESCRIPTION AND BENEFITS:			

Within the recently adopted 2022-2027 Strategic Plan, LCA identified the need to develop a prioritization plan and implement replacement of Allentown Division water distribution system valves 16-inches and greater in diameter that are inoperable or in poor condition. The results of the prioritization plan will be used as the basis of design for annual large diameter valve replacement projects. This authorization is for design and bid services for the Phase 1 project. LCA intends to retain Gannett Fleming to provide engineering services.

Previous Authorizations	
Study and Prioritization Phase	78,600

REQUESTED THIS AUTHORIZATION	
Design + Bid Phase	
Staff	\$10,000
Professional Services – Design and Bid Phase:	
Gannett Fleming, Inc.	\$59,400
Contingency	\$5,000
Total This Authorization	\$74,400

Future Authorization	
Construction - Phase 1 Project	TBD

REVIEW AND APPROVALS:

<u>Project Manager</u>	<u>Date</u>	<u>Chief Executive Officer</u>	<u>Date</u>
<u>Chief Capital Works Officer</u>	<u>Date</u>	<u>Chairman</u>	<u>Date</u>



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PROFESSIONAL SERVICES AUTHORIZATION

Professional: GANNETT FLEMING, INC.
207 Senate Ave
Camp Hill, PA 17011

Date: March 27, 2023

Requested By: Chuck Volk, Jason
Peters

Approvals

Department Head: _____

Chief Executive Officer: _____

Allentown – Large Diameter Valve Replacement Program: Phase 1 Design

This Authorization – Design Phase

Gannett Fleming, Inc. will provide design and bid phase services including the tasks in the following table:

Professional Services
1. Conduct site meeting with LCA operations to determine new valve installation locations (3 each) and site issues
2. Perform topographic/utility survey of new valve locations.
3. Perform hydraulic analysis using Allentown Division water system model to assess operation of the system when isolating areas to install new valves; determine line stop locations
4. Prepare preliminary design plans and review with LCA staff
5. Prepare final design plans and specifications
6. Provide bid phase services including: Prepare bid documents and upload to PennBid, respond to RFIs, attend pre-bid meeting, issue addenda, review bids, prepare bid recommendation, issue notice of award

Cost Estimate (not to be exceeded without further authorization): \$59,400

Time Table and Completion Deadline: As required to meet various critical deadlines as set forth in the proposal.

(For Authority Use Only)

Authorization Completion:

Approval: _____ **Actual Cost:** _____ **Date:** _____

MEMORANDUM

Date: March 20, 2023

To: Lehigh County Authority Board of Directors
Liesel Gross, CEO

From: Charles Volk, P.E., Chief Capital Works Officer

Subject: Suburban Division – Heidelberg Heights Wastewater Treatment Plant
Mechanical Screen Installation Project – Construction Phase

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Capital Project Authorization: Heidelberg Heights Wastewater Treatment Plant Mechanical Screen Installation Project – Construction Phase	\$415,000
2	General Construction Contract: JEV Construction, LLC *	\$354,600
3	Professional Services Authorization: Construction Phase Engineering Services – D’Huy Engineering*	\$35,400

** Included in the Capital Project Authorization.*

BACKGROUND

The Heidelberg Heights wastewater system was installed in the late 1970s by a developer and acquired by LCA in 1998. The all-gravity sewage collection system conveys wastewater from 138 residential customers to the Heidelberg Heights Wastewater Treatment Plant (WWTP), located at 5132 Heidelberg Heights Road.

LCA acquired the Heidelberg Heights wastewater system in 1998 for \$1 from a private owner/operator who had abandoned the system. The community, Heidelberg Township officials, and Pennsylvania Department of Environmental Protection (DEP) officials requested LCA’s intervention at the time to address major environmental noncompliance issues at the failed WWTP. Over the course of the next two years, a new wastewater treatment plant with a Sequencing Batch Reactor (SBR) process was designed, permitted and constructed, with the new plant going online in October 2000.

The original combined equalization tank/sludge holding tank (“EQ tank”) remains in use from the original WWTP. The steel tank was rehabilitated in 2019, which involved cleaning of all exposed tank surfaces, applying an industrial coating system and performing structural repairs. Also remaining from the original plant is a comminutor (grinder) for raw wastewater, located at the head end of the EQ tank.

The existing comminutor is obsolete and ineffective, as rags and bulky inorganic debris pass through it and regularly foul downstream pumps and instrumentation and create an added maintenance burden. A replacement for this equipment is needed to improve plant performance and reduce operations and maintenance issues.

PROJECT OVERVIEW

This project consists of the demolition and removal of the old comminutor and comminutor box, relocation of the influent flowmeter, and the installation of a mechanical screen at the head end of the equalization tank in a new concrete chamber. The mechanical screen will operate in automatic mode to screen and remove rags and bulky inorganic debris from the influent waste stream. The screen will be equipped with a vertical screw conveyor and chute to wash, compact, and transport accumulated debris to a waste container. The new equipment will also be provided with SCADA connectivity for monitoring operating status. A new manual bar screen and bypass will also be installed to facilitate future maintenance of the mechanical screen.

A critical component of this project is maintaining plant operations and the uninterrupted treatment of wastewater. Maintenance of operations provisions are incorporated into the project specifications, which include a requirement for the contractor to install a temporary bypass pumping system to maintain conveyance of raw wastewater to the EQ tank during installation and testing of the new equipment. The contractor will closely coordinate with LCA operations staff during construction to minimize any disruption to plant operations and maintain DEP compliance.

FINANCIAL

The Project will be funded by the LCA Suburban Division.

PROJECT STATUS

Board approval is requested for the Construction Phase.

THIS APPROVAL – CONSTRUCTION PHASE

BIDDING SUMMARY

This project consists of one contract. The project was advertised for bid in early February, a pre-bid meeting was held February 16, and bids were opened on March 9, 2023 via PennBid. Bid results are as follows:

General Construction	
Bidder	Bid Amount
<i>JEV Construction, LLC</i>	<i>\$354,600</i>
PSI Pumping Solutions	\$354,625
Blooming Glen Contractors	\$377,045
Zimmerman Environmental	\$389,510
LB Industries	\$396,244
Linde Corporation	\$453,320

Six bids were received, and the bidding was quite competitive. JEV Construction, LLC from Clinton, NJ (JEV) is the low bidder and has extensive experience in water and wastewater treatment plant construction. JEV has successfully completed several projects for LCA in the past 5 years, including Thickener Tank No. 3 Rehabilitation at the Kline's Island WWTP and Equalization Tank Rehabilitation at the Heidelberg Heights WWTP. The firm's qualifications and experience statement indicate numerous projects of similar type. The bid documents are in order and the firm appears well qualified for to perform the work. The Engineer's construction cost opinion was \$368,000. We recommend award of the single construction contract to JEV Construction, upon receipt of the required bonds and insurance.

PROFESSIONAL SERVICES

Construction management and part-time field inspection is to be performed by D'Huy Engineering. D'Huy is the design engineer, and the firm has provided design and construction phase services on several prior upgrade projects at this facility. The quality of their work is excellent.

PROJECT SCHEDULE

Based on construction phase authorization at the March 27, 2023 LCA Board meeting, it is anticipated that the project will be completed by the end of 2023.

FUTURE AUTHORIZATIONS

None

CAPITAL PROJECT AUTHORIZATION

PROJECT NO.:	SD-S-18	BUDGET FUND:	Suburban Div\Wastewater\Capital
PROJECT TITLE:	Suburban Division – Heidelberg Heights Wastewater Treatment Plant Mechanical Screen Installation Project – Construction Phase	PROJECT TYPE:	<input checked="" type="checkbox"/> Construction <input type="checkbox"/> Engineering Study <input type="checkbox"/> Equipment Purchase <input type="checkbox"/> Amendment
THIS AUTHORIZATION:	\$415,000		
TO DATE (W/ ABOVE)	\$454,300		

DESCRIPTION AND BENEFITS:

Mechanical Screen Installation Project:

This upgrade project consists of the demolition and removal of an obsolete comminutor (grinder) and replacement of the existing equipment with a new mechanical screen, to be installed at the head end of the equalization tank. The new automatic screen will remove rags and other debris from the influent waste stream, thereby extending the life of downstream equipment and reducing maintenance costs.

Previous Authorizations	
<i>Design and bid phase</i>	<i>\$39,300</i>

REQUESTED THIS AUTHORIZATION	
Construction Phase	
Construction Contract - JEV Construction, LLC	\$354,600
Construction Inspection Services – D’Huy Engineering	\$35,400
Staff	\$7,500
Contingency	\$17,500
Total This Authorization	\$415,000

Future Authorization	
none	

REVIEW AND APPROVALS:

_____ Project Manager	_____ Date	_____ Chief Executive Officer	_____ Date
_____ Chief Capital Works Officer	_____ Date	_____ Chairman	_____ Date



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PROFESSIONAL SERVICES AUTHORIZATION

Professional: D;HUY ENGINEERING, INC.
One East Broad St., Suite 310
Bethlehem, PA 18018

Date: March 27, 2023

Requested By: Charles Volk

Approvals

Department Head: _____

Chief Executive

Officer: _____

Heidelberg Heights Wastewater Treatment Plant – Influent Mechanical Screen Project: Construction Phase

D'Huy Engineering, Inc. will provide the following construction phase services for the Heidelberg Heights Influent Mechanical Screen Project per D'Huy proposal letter dated 3/13/23:

Professional Services
1. Attend pre-construction conference
2. Attend construction progress meetings
3. Respond to RFIs
4. Perform part-time field inspection services
5. Contractor payment application review and process
6. Provide weekly construction inspection and inspection during critical operations and start up activities (200 hours)
7. Perform Substantial Completion inspection and issue punchlist to Contractor
8. Perform Final Completion inspection and attend start-up and testing operations

Construction:

Cost Estimate (not to be exceeded without further authorization): \$35,400

Time Table and Completion Deadline: Construction anticipated to be completed by end of 2023

(For Authority Use Only)

Authorization Completion:

Approval: _____ **Actual Cost:** _____ **Date:** _____

**LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS
FEBRUARY 2023**

LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - SUMMARY
For the Period Ended February 28, 2023

	Consolidated Financial Statements														
	Month					Year To Date					FULL YEAR				
	Actual	Q1 FC	Prior Year	FC Var	PY Var	Actual	Q1 FC	Prior Year	FC Var	PY Var	Q1 FC	Budget	Prior Year	Bud Var	PY Var
Income Statement															
Suburban Water	64,518	16,882	215,096	47,636	(150,578)	470,007	115,805	375,674	354,202	94,333	2,169,036	2,169,036	3,944,185	-	(1,775,149)
Suburban Wastewater	(814,160)	(1,019,479)	132,289	205,319	(946,448)	(536,691)	(1,208,113)	59,412	671,422	(596,103)	2,150,192	2,150,192	6,772,406	0	(4,622,213)
City Division	1,107,359	368,498	1,618,526	738,860	(511,167)	2,039,726	1,251,077	2,047,058	788,649	(7,332)	4,780,898	4,780,898	5,813,027	-	(1,032,129)
Total LCA	357,717	(634,099)	1,965,910	991,815	(1,608,193)	1,973,043	158,769	2,482,144	1,814,273	(509,101)	9,100,126	9,100,126	16,529,618	0	(7,429,491)
Cash Flow Statement															
Suburban Water	884,657	627,415	379,487	257,242	505,170	(1,145,317)	(1,762,559)	(219,213)	617,242	(926,104)	1,312,678	46,653	480,110	1,266,025	832,568
Suburban Wastewater	449,115	1,048,548	555,862	(599,433)	(106,748)	790,078	129,512	2,134,729	660,567	(1,344,651)	1,479,163	762,612	1,359,980	716,551	119,183
City Division	2,592,781	2,047,744	2,048,083	545,037	544,698	3,174,384	2,536,047	270,297	638,337	2,904,087	2,674,271	2,671,275	2,809,215	2,997	(134,943)
Total LCA	3,926,553	3,723,707	2,983,433	202,846	943,120	2,819,145	902,999	2,185,813	1,916,145	633,332	5,466,112	3,480,540	4,649,305	1,985,573	816,807
Debt Service Coverage Ratio															
Suburban Water	1.43	1.25	2.18	0.18	(0.74)	2.02	1.39	2.07	0.64	(0.04)	1.83	1.83	2.62	-	(0.78)
Suburban Wastewater	(4.63)	(8.07)	11.29	3.44	(15.92)	4.36	(1.20)	9.58	5.56	(5.22)	11.69	11.69	10.17	0.00	1.52
City Division	2.38	1.82	2.90	0.57	(0.52)	2.24	1.94	2.40	0.31	(0.15)	2.10	2.10	2.35	0.00	(0.25)

LEHIGH COUNTY AUTHORITY
CONSOLIDATED FINANCIAL STATEMENTS
For the Period Ended February 28, 2023

Consolidated Financial Statements																			
Month					Year To Date					Q1 FULL YEAR FORECAST					Full Year Budget				
STATEMENTS OF ACTIVITIES																			
Operating Revenues:																			
User Charges	1,055,613	1,300,189	4,152,212	6,508,015	2,473,858	2,518,326	7,898,349	12,890,532	16,287,500	21,822,513	50,680,860	88,790,873	16,287,500	21,822,513	50,680,860	88,790,873			
Connection & System Charges	72,472	227,758	132,649	432,879	84,583	695,111	277,719	1,057,413	680,700	875,600	4,096,600	5,652,900	680,700	875,600	4,096,600	5,652,900			
Other Miscellaneous Revenues	1,485	45	11,388	12,918	3,750	175	16,688	20,613	31,800	2,300	69,300	103,400	31,800	2,300	69,300	103,400			
Total Operating Revenues	1,129,571	1,527,992	4,296,250	6,953,812	2,562,191	3,213,612	8,192,756	13,968,558	17,000,000	22,700,413	54,846,760	94,547,173	17,000,000	22,700,413	54,846,760	94,547,173			
Operating Expenses:																			
Personnel	264,608	144,904	662,454	1,071,965	621,974	281,885	1,610,113	2,513,972	3,838,376	1,739,145	12,818,583	18,396,104	3,838,376	1,739,145	12,818,583	18,396,104			
Shared Services - General & Administrative	61,402	30,915	186,834	279,151	104,886	47,581	312,305	464,772	847,837	353,525	2,197,452	3,398,813	847,837	353,525	2,197,452	3,398,813			
Utilities	32,865	18,216	114,279	165,360	74,815	42,606	275,481	392,902	516,389	312,787	2,018,173	2,847,348	516,389	312,787	2,018,173	2,847,348			
Materials and Supplies	70,181	42,288	277,196	389,665	82,886	52,080	361,897	496,864	887,370	324,100	2,621,000	3,832,470	887,370	324,100	2,621,000	3,832,470			
Miscellaneous Services	304,986	536,956	132,161	974,103	546,769	1,007,019	151,863	1,705,651	4,610,690	7,212,206	2,112,700	13,935,596	4,610,690	7,212,206	2,112,700	13,935,596			
Treatment and Transportation	-	1,044,755	-	1,044,755	-	1,294,755	-	1,294,755	-	4,293,345	14,318	4,307,662	-	4,293,345	14,318	4,307,662			
Depreciation and Amortization	255,823	519,616	515,817	1,291,257	511,646	1,039,801	1,030,375	2,581,822	3,023,000	6,221,900	6,160,000	15,404,900	3,023,000	6,221,900	6,160,000	15,404,900			
Major Maintenance Expenses	-	233	11,814	12,047	-	2,053	13,818	15,872	-	25,200	4,000,000	4,025,200	-	25,200	4,000,000	4,025,200			
Other Miscellaneous	-	-	-	-	-	-	-	-	41,600	-	-	41,600	41,600	-	-	41,600			
Total Operating Expenses	989,865	2,337,883	1,900,554	5,228,302	1,942,976	3,767,780	3,755,853	9,466,608	13,765,262	20,482,206	31,942,225	66,189,694	13,765,262	20,482,207	31,942,225	66,189,694			
Net Operating Profit	139,706	(809,891)	2,395,695	1,725,510	619,215	(554,168)	4,436,903	4,501,950	3,234,738	2,218,207	22,904,535	28,357,479	3,234,738	2,218,206	22,904,535	28,357,479			
Non-Operating Income (Expense)																			
Interest Income	19,498	22,422	208,790	250,709	37,215	45,871	421,054	504,140	64,782	85,128	128,661	278,572	64,782	85,128	128,661	278,572			
Interest (Expense)	(94,985)	(13,114)	(1,497,126)	(1,605,225)	(189,978)	(26,884)	(2,818,231)	(3,035,094)	(1,130,484)	(153,143)	(18,252,298)	(19,535,925)	(1,130,484)	(153,143)	(18,252,298)	(19,535,925)			
Other Miscellaneous	299	(13,576)	-	(13,278)	3,556	(1,510)	-	2,046	-	-	-	-	-	-	-	-			
Net Non-Operating Income (Expense)	(75,189)	(4,269)	(1,288,336)	(1,367,794)	(149,208)	17,477	(2,397,177)	(2,528,907)	(1,065,702)	(68,015)	(18,123,637)	(19,257,353)	(1,065,702)	(68,015)	(18,123,637)	(19,257,353)			
Net Income (Loss)	64,518	(814,160)	1,107,359	357,717	470,007	(536,691)	2,039,726	1,973,043	2,169,036	2,150,192	4,780,898	9,100,126	2,169,036	2,150,192	4,780,898	9,100,126			
CASH FLOW STATEMENT																			
Cash Flows From Operating Activities																			
Operating Revenues	1,129,571	1,527,992	4,296,250	6,953,812	2,562,191	3,213,612	8,192,756	13,968,558	17,000,000	22,700,413	54,846,760	94,547,173	17,000,000	22,700,413	54,846,760	94,547,173			
Operating Expenses (ex D&A)	(734,042)	(1,818,033)	(1,372,924)	(3,924,999)	(1,431,330)	(2,725,925)	(2,711,660)	(6,868,915)	(10,742,262)	(14,235,106)	(21,782,225)	(46,759,594)	(10,742,262)	(14,235,107)	(21,782,225)	(46,759,594)			
Non-Cash Working Capital Changes	411,697	1,612,665	(28,318)	1,996,044	(2,256,216)	494,805	(2,147,157)	(3,908,568)	1,266,025	691,351	(197,003)	1,760,372	(0)	(25,200)	0	(25,200)			
Net Cash Provided by (Used in) Operating Activities	807,226	1,322,624	2,895,008	5,024,858	(1,125,355)	982,492	3,333,939	3,191,076	7,523,763	9,156,658	32,867,531	49,547,952	6,257,738	8,440,106	33,064,535	47,762,379			
Cash Flows From Financing Activities																			
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Proceeds New Borrowing	-	-	-	-	-	-	-	-	3,950,000	-	1,400,000	5,350,000	3,950,000	-	1,200,000	5,150,000			
Interest Payments	(983)	(12,360)	-	(13,343)	(1,974)	(25,293)	-	(27,267)	(1,130,484)	(153,143)	(11,788,844)	(13,072,471)	(1,130,484)	(153,143)	(11,788,844)	(13,072,471)			
Principal Payments	(6,260)	(47,589)	-	(53,848)	(12,511)	(95,081)	-	(107,592)	(2,344,383)	(575,980)	(3,342,077)	(6,262,440)	(2,344,383)	(575,980)	(3,342,077)	(6,262,440)			
Net Cash Provided by (Used in) Financing Activities	(7,243)	(59,948)	-	(67,191)	(14,485)	(120,374)	-	(134,859)	475,133	(729,123)	(13,730,921)	(13,984,911)	475,133	(729,123)	(13,930,921)	(14,184,911)			
Cash Flows from Capital and Related Activities																			
Non-Operating Income (Expenses)	299	(13,576)	-	(13,278)	3,556	(1,510)	-	2,046	-	-	(1,400,000)	(1,400,000)	-	-	(1,400,000)	(1,400,000)			
Capital Expenditures, net	(180,123)	(60,406)	(511,016)	(751,545)	(291,247)	(93,401)	(580,610)	(965,258)	(6,751,000)	(7,033,500)	(15,191,000)	(28,975,500)	(6,751,000)	(7,033,500)	(15,191,000)	(28,975,500)			
Net Cash Provided By (Used In) Capital and Related Activities	(179,825)	(73,982)	(511,016)	(764,823)	(287,691)	(94,911)	(580,610)	(963,212)	(6,751,000)	(7,033,500)	(16,591,000)	(30,375,500)	(6,751,000)	(7,033,500)	(16,591,000)	(30,375,500)			
Cash Flows From Investing Activities																			
Investments Converting To Cash	245,000	125,000	-	370,000	245,000	1,611,000	-	1,856,000	245,000	1,486,000	-	1,731,000	-	-	-	-			
Purchased Investments	-	(887,000)	-	(887,000)	-	(1,634,000)	-	(1,634,000)	(245,000)	(1,486,000)	-	(1,731,000)	-	-	-	-			
Interest Income	19,498	22,422	208,790	250,709	37,215	45,871	421,054	504,140	64,782	85,128	128,661	278,572	64,782	85,128	128,661	278,572			
Net Cash Provided By (Used In) Investing Activities	264,498	(739,578)	208,790	(266,291)	282,215	22,871	421,054	726,140	64,782	85,128	128,661	278,572	64,782	85,128	128,661	278,572			
FUND NET CASH FLOWS	884,657	449,115	2,592,781	3,926,553	(1,145,317)	790,078	3,174,384	2,819,145	1,312,678	1,479,163	2,674,271	5,466,112	46,653	762,612	2,671,275	3,480,540			
DEBT SERVICE RATIO																			
Debt Service Ratio (Indenture Based)																			
Total Operating Revenues	1,055,613	1,300,189	4,152,212	6,508,015	2,473,858	2,518,326	7,898,349	12,890,532	16,287,500	21,822,513	50,680,860	88,790,873	16,287,500	21,822,513	50,680,860	88,790,873			
Total Operating Expenses (Cash Based)	(734,042)	(1,818,266)	(1,384,737)	(3,937,045)	(1,431,330)	(2,727,979)	(2,725,478)	(6,884,787)	(10,742,262)	(14,260,306)	(21,782,225)	(46,784,794)	(10,742,262)	(14,260,307)	(21,782,225)	(46,784,794)			
Interest Income	19,498	22,422	208,790	250,709	37,215	45,871	421,054	504,140	64,782	85,128	128,661	278,572	64,782	85,128	128,661	278,572			
Annual Lease Payment (City)	-	-	(116,667)	(116,667)	-	-	(233,333)	(233,333)	-	-	(1,400,000)	(1,400,000)	-	-	(1,400,000)	(1,400,000)			
Total Non-Operating Revenues (Expenses)	74,256	214,226	144,037	432,519	91,889	693,776	294,407	1,080,072	754,100	877,900	4,165,900	5,797,900	754,100	877,900	4,165,900	5,797,900			
Cash Available For Debt Service	415,326	(281,429)	3,003,635	3,137,532	1,171,632	529,994	5,654,999	7,356,624	6,364,120	8,525,235	31,793,196	46,682,551	6,364,120	8,525,235	31,793,196	46,682,551			
Interest Paid	94,207	12,762	982,404	1,089,373	188,414	25,524	1,964,807	2,178,745	1,130,484	153,143	11,788,844	13,072,471	1,130,484	153,143	11,788,844	13,072,471			
Debt Retirement (Principal Payments)	195,365	47,998	788,506	521,870	390,731	95,997	557,013	1,043,740	2,344,383	575,980	3,342,077	6,262,440	2,344,383	575,980	3,342,077	6,262,440			
Total Debt Service	289,572	60,760	1,260,910	1,611,243	579,145	121,521	2,521,820	3,222,485	3,474,867	729,123	15,130,921	19,334,911	3,474,867	729,123	15,130,921	19,334,911			
Debt Service Ratio	1.43	(4.63)	2.38	1.95	2.02	4.36	2.24	2.28	1.83	11.69	2.10	2.41	1.83	11.69	2.10	2.41			

LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - SUBURBAN WATER
For the Period Ended February 28, 2023

STATEMENTS OF ACTIVITIES	Suburban - Water														
	Month					Year To Date					Full Year				
	Actual	Q1 FC	Prior Year	FC Var	PY Var	Actual	Q1 FC	Prior Year	FC Var	PY Var	Q1 FC	Budget	Prior Year	Bud Var	PY Var
Operating Revenues:															
User Charges	1,055,613	1,104,477	1,058,158	(48,864)	(2,544)	2,473,858	2,189,050	2,112,170	284,808	361,689	16,287,500	16,287,500	15,748,393	-	539,107
Connection & System Charges	72,472	36,158	38,239	36,314	34,233	84,583	78,791	65,630	5,792	18,953	680,700	680,700	650,786	-	29,914
Other Miscellaneous Revenues	1,485	54	1,035	1,431	450	3,750	201	3,825	3,549	(75)	31,800	31,800	605,956	-	(574,156)
Total Operating Revenues	1,129,571	1,140,690	1,097,432	(11,119)	32,139	2,562,191	2,268,042	2,181,625	294,149	380,566	17,000,000	17,000,000	17,005,135	-	(5,135)
Operating Expenses:															
Personnel	264,608	272,082	126,284	7,474	(138,324)	621,974	587,051	405,766	(34,922)	(216,207)	3,838,376	3,838,376	3,377,883	-	(460,493)
Shared Services - General & Administrative	61,402	58,547	37,946	(2,854)	(23,456)	104,886	109,806	71,168	4,920	(33,719)	847,837	847,837	549,501	-	(298,336)
Utilities	32,865	45,512	42,481	12,647	9,616	74,815	88,966	83,041	14,151	8,226	516,389	516,389	481,998	-	(34,391)
Materials and Supplies	70,181	43,219	41,211	(26,962)	(28,970)	82,886	50,188	48,569	(32,698)	(34,317)	887,370	887,370	864,220	-	(23,150)
Miscellaneous Services	304,986	360,728	277,153	55,743	(27,833)	546,769	632,760	489,844	85,991	(56,925)	4,610,690	4,610,690	3,539,044	-	(1,071,646)
Treatment and Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Depreciation and Amortization	255,823	250,453	251,607	(5,370)	(4,216)	511,646	497,638	499,932	(14,008)	(11,714)	3,023,000	3,023,000	3,036,932	-	13,932
Major Maintenance Expenses	-	-	1,576	-	1,576	-	-	2,098	-	2,098	-	-	9,587	-	9,587
Other Miscellaneous	-	-	-	-	-	-	-	-	-	-	41,600	41,600	250	-	(41,350)
Total Operating Expenses	989,865	1,030,542	778,258	40,677	(211,607)	1,942,976	1,966,410	1,600,417	23,434	(342,559)	13,765,262	13,765,262	11,859,415	-	(1,905,847)
Net Operating Profit	139,706	110,148	319,174	29,558	(179,467)	619,215	301,632	581,208	317,583	38,007	3,234,738	3,234,738	5,145,720	-	(1,910,982)
Non-Operating Income (Expense)															
Interest Income	19,498	2,037	3,253	17,461	16,245	37,215	4,402	7,029	32,813	30,186	64,782	64,782	103,451	-	(38,668)
Interest (Expense)	(94,985)	(95,303)	(100,565)	318	5,579	(189,978)	(190,229)	(200,731)	250	10,752	(1,130,484)	(1,130,484)	(1,192,895)	-	62,411
Other Miscellaneous	299	-	(6,767)	299	7,065	3,556	-	(11,832)	3,556	15,388	-	-	(112,091)	-	112,091
Net Non-Operating Income (Expense)	(75,189)	(93,266)	(104,078)	18,077	28,889	(149,208)	(185,827)	(205,534)	36,619	56,326	(1,065,702)	(1,065,702)	(1,201,535)	-	135,833
Net Income (Loss)	64,518	16,882	215,096	47,636	(150,578)	470,007	115,805	375,674	354,202	94,333	2,169,036	2,169,036	3,944,185	-	(1,775,149)
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	1,129,571	1,140,690	1,097,432	(11,119)	32,139	2,562,191	2,268,042	2,181,625	294,149	380,566	17,000,000	17,000,000	17,005,135	-	(5,135)
Operating Expenses (ex D&A)	(734,042)	(780,089)	(526,651)	46,048	(207,391)	(1,431,330)	(1,468,771)	(1,100,485)	37,441	(330,845)	(10,742,262)	(10,742,262)	(8,822,483)	-	(1,919,779)
Non-Cash Working Capital Changes	411,697	221,562	162,414	190,135	249,283	(2,256,216)	(2,476,518)	(800,857)	220,302	(1,455,359)	1,266,025	(0)	4,728,757	1,266,025	(3,462,732)
Net Cash Provided by (Used in) Operating Activities	807,226	582,163	733,195	225,063	74,031	(1,125,355)	(1,677,248)	280,282	551,893	(1,405,638)	7,523,763	6,257,738	12,911,409	1,266,025	(5,387,646)
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	3,950,000	3,950,000	-	-	3,950,000
Interest Payments	(983)	(1,132)	(1,202)	149	219	(1,974)	(2,296)	(2,437)	322	463	(1,130,484)	(1,130,484)	(1,200,136)	-	69,652
Principal Payments	(6,260)	(20,461)	(16,803)	14,202	10,543	(12,511)	(40,881)	(33,572)	28,370	21,061	(2,344,383)	(2,344,383)	(1,925,231)	-	(419,152)
Net Cash Provided by (Used in) Financing Activities	(7,243)	(21,593)	(18,005)	14,351	10,762	(14,485)	(43,177)	(36,010)	28,692	21,524	475,133	475,133	(3,125,367)	-	3,600,500
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	299	-	(6,767)	299	7,065	3,556	-	(11,832)	3,556	15,388	-	-	(3,373,726)	-	3,373,726
Capital Expenditures, net	(180,123)	(180,192)	(332,190)	68	152,066	(291,247)	(291,535)	(458,682)	288	167,435	(6,751,000)	(6,751,000)	(6,041,656)	-	(709,344)
Net Cash Provided By (Used In) Capital and Related Activities	(179,825)	(180,192)	(338,956)	367	159,132	(287,691)	(291,535)	(470,514)	3,844	182,823	(6,751,000)	(6,751,000)	(9,415,382)	-	2,664,382
Cash Flows From Investing Activities															
Investments Converting To Cash	245,000	245,000	249,000	-	(4,000)	245,000	245,000	249,000	-	(4,000)	245,000	-	990,000	245,000	(745,000)
Purchased Investments	-	-	(249,000)	-	249,000	-	-	(249,000)	-	249,000	(245,000)	-	(984,000)	(245,000)	739,000
Interest Income	19,498	2,037	3,253	17,461	16,245	37,215	4,402	7,029	32,813	30,186	64,782	64,782	103,451	-	(38,668)
Net Cash Provided By (Used In) Investing Activities	264,498	247,037	3,253	17,461	261,245	282,215	249,402	7,029	32,813	275,186	64,782	64,782	109,451	-	(44,668)
FUND NET CASH FLOWS	884,657	627,415	379,487	257,242	505,170	(1,145,317)	(1,762,559)	(219,213)	617,242	(926,104)	1,312,678	46,653	480,110	1,266,025	832,568
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	1,055,613	1,104,477	1,058,158	(48,864)	(2,544)	2,473,858	2,189,050	2,112,170	284,808	361,689	16,287,500	16,287,500	15,748,393	-	539,107
Operating Expenses (Cash Based)	(734,042)	(780,089)	(526,651)	46,048	(207,391)	(1,431,330)	(1,468,771)	(1,100,485)	37,441	(330,845)	(10,742,262)	(10,742,262)	(8,822,483)	-	(1,919,779)
Interest Income	19,498	2,037	3,253	17,461	16,245	37,215	4,402	7,029	32,813	30,186	64,782	64,782	103,451	-	(38,668)
Annual Lease Payment (City)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Operating Revenues (Expenses)	74,256	36,212	32,507	38,043	41,748	91,889	78,992	57,623	12,897	34,266	754,100	754,100	1,144,651	-	(390,551)
Cash Available For Debt Service	415,326	362,638	567,267	52,688	(151,941)	1,171,632	803,672	1,076,336	367,960	95,295	6,364,120	6,364,120	8,174,012	-	(1,809,892)
Interest Paid	94,207	94,207	100,011	-	(5,804)	188,414	188,414	200,023	-	(11,609)	1,130,484	1,130,484	1,200,136	-	(69,652)
Debt Retirement (Principal Payments)	195,365	195,365	160,436	-	34,929	390,731	390,731	320,872	-	69,859	2,344,383	2,344,383	1,925,231	-	419,152
Total Debt Service	289,572	289,572	260,447	-	29,125	579,145	579,145	520,895	-	58,250	3,474,867	3,474,867	3,125,367	-	349,500
Debt Service Ratio	1.43	1.25	2.18	0.18	(0.74)	2.02	1.39	2.07	0.64	(0.04)	1.83	1.83	2.62	-	(0.78)

LEHIGH COUNTY AUTHORITY
VARIANCE ANALYSIS - YTD
For the Period Ended February 28, 2023

STATEMENTS OF ACTIVITIES

Operating Revenues:

User Charges
Connection & System Charges
Other Miscellaneous Revenues

Total Operating Revenues

Operating Expenses:

Personnel
Shared Services - General & Administrative
Utilities
Materials and Supplies
Miscellaneous Services
Treatment and Transportation
Depreciation and Amortization
Major Maintenance Expenses
Other Miscellaneous

Total Operating Expenses

Net Operating Profit

Non-Operating Income (Expense)

Interest Income
Interest (Expense)
Other Miscellaneous

Net Non-Operating Income (Expense)

Net Income (Loss)

CASH FLOW STATEMENT

Cash Flows From Operating Activities

Operating Revenues
Operating Expenses (ex D&A)
Non-Cash Working Capital Changes

Net Cash Provided by (Used in) Operating Activities

Cash Flows From Financing Activities

Capital Contributions
Proceeds New Borrowing
Interest Payments
Principal Payments

Net Cash Provided by (Used in) Financing Activities

Cash Flows from Capital and Related Activities

Non-Operating Income (Expenses)
Capital Expenditures, net

Net Cash Provided By (Used In) Capital and Related Activities

Cash Flows From Investing Activities

Investments Converting To Cash
Purchased Investments
Interest Income

Net Cash Provided By (Used In) Investing Activities

FUND NET CASH FLOWS

Suburban - Water				
Actual	Q1 FC	FC Var	Comments	
2,473,858	2,189,050	284,808	Higher due to higher residential, commercial, and industrial volumes	
84,583	78,791	5,792		
3,750	201	3,549		
2,562,191	2,268,042	294,149	Higher due to higher user charges	
621,974	587,051	(34,922)		
104,886	109,806	4,920		
74,815	88,966	14,151		
82,886	50,188	(32,698)		
546,769	632,760	85,991		
-	-	-		
511,646	497,638	(14,008)		
-	-	-		
-	-	-		
1,942,976	1,966,410	23,434	Loer due to lower services spending	
619,215	301,632	317,583	Higher due to higher operating revenues along with lower operating expenses	
37,215	4,402	32,813		
(189,978)	(190,229)	250		
3,556	-	3,556		
(149,208)	(185,827)	36,619	Higher due to higher interest income	
470,007	115,805	354,202	Higher due to higher net operating income along with higher interest income	
2,562,191	2,268,042	294,149		
(1,431,330)	(1,468,771)	37,441		
(2,256,216)	(2,476,518)	220,302		
(1,125,355)	(1,677,248)	551,893	Higher due due higher net operating income	
-	-	-		
-	-	-		
(1,974)	(2,296)	322		
(12,511)	(40,881)	28,370		
(14,485)	(43,177)	28,692	Favorable due to lower debt service	
3,556	-	3,556		
(291,247)	(291,535)	288		
(287,691)	(291,535)	3,844	Favorable due to lower debt service	
245,000	245,000	-		
-	-	-		
37,215	4,402	32,813		
282,215	249,402	32,813	Favorable due to higher interest income	
(1,145,317)	(1,762,559)	617,242	Higher due due higher cash from operations, lower debt service, and higher interest income	

LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - SUBURBAN WASTEWATER
For the Period Ended February 28, 2023

STATEMENTS OF ACTIVITIES	Suburban - Wastewater														
	Month					Year To Date					Full Year				
	Actual	Q1 FC	Prior Year	FC Var	PY Var	Actual	Q1 FC	Prior Year	FC Var	PY Var	Q1 FC	Budget	Prior Year	Bud Var	PY Var
Operating Revenues:															
User Charges	1,300,189	1,276,683	1,493,261	23,506	(193,072)	2,518,326	2,644,136	2,678,718	(125,811)	(160,392)	21,822,513	21,822,513	15,030,893	0	6,791,621
Connection & System Charges	227,758	13,336	56,391	214,422	171,367	695,111	54,563	230,723	640,548	464,388	875,600	875,600	3,650,195	-	(2,774,595)
Other Miscellaneous Revenues	45	44	30	1	15	175	44	30	131	145	2,300	2,300	1,586	-	715
Total Operating Revenues	1,527,992	1,290,063	1,549,682	237,929	(21,690)	3,213,612	2,698,742	2,909,471	514,869	304,141	22,700,413	22,700,413	18,682,673	0	4,017,740
Operating Expenses:															
Personnel	144,904	136,664	88,296	(8,240)	(56,608)	281,885	272,676	194,841	(9,208)	(87,043)	1,739,145	1,739,145	1,382,837	-	(356,307)
Shared Services - General & Administrative	30,915	27,959	17,783	(2,956)	(13,132)	47,581	47,861	30,441	280	(17,140)	353,525	353,525	224,850	-	(128,675)
Utilities	18,216	29,297	25,464	11,081	7,248	42,606	61,434	53,396	18,828	10,790	312,787	312,787	271,864	-	(40,922)
Materials and Supplies	42,288	29,385	30,825	(12,902)	(11,462)	52,080	32,785	34,946	(19,296)	(17,134)	324,100	324,100	339,718	-	15,618
Miscellaneous Services	536,956	532,181	469,883	(4,775)	(67,072)	1,007,019	1,117,513	977,259	110,494	(29,760)	7,212,206	7,212,206	6,488,175	(0)	(724,031)
Treatment and Transportation	1,044,755	1,025,000	230,000	(19,755)	(814,755)	1,294,755	1,314,383	460,000	19,628	(834,755)	4,293,345	4,293,345	2,786,445	0	(1,506,900)
Depreciation and Amortization	519,616	516,622	514,641	(2,994)	(4,975)	1,039,801	1,036,456	1,032,482	(3,344)	(7,319)	6,221,900	6,221,900	201,498	-	(6,020,402)
Major Maintenance Expenses	233	2,184	2,182	1,951	1,949	2,053	3,082	3,079	1,029	1,025	25,200	25,200	25,172	-	(28)
Other Miscellaneous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating Expenses	2,337,883	2,299,293	1,379,074	(38,590)	(958,809)	3,767,780	3,886,190	2,786,444	118,410	(981,336)	20,482,206	20,482,207	11,720,558	0	(8,761,649)
Net Operating Profit	(809,891)	(1,009,230)	170,608	199,339	(980,499)	(554,168)	(1,187,448)	123,027	633,280	(677,195)	2,218,207	2,218,206	6,962,115	0	(4,743,909)
Non-Operating Income (Expense)															
Interest Income	22,422	2,276	3,484	20,145	18,938	45,871	5,306	8,120	40,565	37,751	85,128	85,128	130,271	-	(45,142)
Interest (Expense)	(13,114)	(12,525)	(15,207)	(589)	2,093	(26,884)	(25,971)	(31,532)	(913)	4,648	(153,143)	(153,143)	(185,934)	-	32,791
Other Miscellaneous	(13,576)	-	(26,596)	(13,576)	13,019	(1,510)	-	(40,203)	(1,510)	38,693	-	-	(134,047)	-	134,047
Net Non-Operating Income (Expense)	(4,269)	(10,249)	(38,319)	5,980	34,050	17,477	(20,665)	(63,615)	38,142	81,092	(68,015)	(68,015)	(189,710)	-	121,695
Net Income (Loss)	(814,160)	(1,019,479)	132,289	205,319	(946,448)	(536,691)	(1,208,113)	59,412	671,422	(596,103)	2,150,192	2,150,192	6,772,406	0	(4,622,213)
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	1,527,992	1,290,063	1,549,682	237,929	(21,690)	3,213,612	2,698,742	2,909,471	514,869	304,141	22,700,413	22,700,413	18,682,673	0	4,017,740
Operating Expenses (ex D&A)	(1,818,033)	(1,780,486)	(862,251)	(37,547)	(955,783)	(2,725,925)	(2,846,651)	(1,750,883)	120,726	(975,043)	(14,235,106)	(14,235,107)	(11,493,888)	0	(2,741,218)
Non-Cash Working Capital Changes	1,612,665	2,401,745	(774,644)	(789,080)	2,387,309	494,805	492,849	546,605	1,957	(51,800)	691,351	(25,200)	374,499	716,551	316,852
Net Cash Provided by (Used in) Operating Activities	1,322,624	1,911,321	(87,213)	(588,698)	1,409,837	982,492	344,940	1,705,193	637,552	(722,702)	9,156,658	8,440,106	7,563,284	716,551	1,593,374
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Payments	(12,360)	(12,766)	(11,776)	406	(583)	(25,293)	(25,970)	(23,957)	677	(1,336)	(153,143)	(153,143)	(141,271)	-	(11,872)
Principal Payments	(47,589)	(47,560)	(46,441)	(29)	(1,148)	(95,081)	(95,023)	(92,788)	(58)	(2,293)	(575,980)	(575,980)	(562,430)	-	(13,550)
Net Cash Provided by (Used in) Financing Activities	(59,948)	(60,326)	(58,217)	377	(1,731)	(120,374)	(120,994)	(116,745)	620	(3,629)	(729,123)	(729,123)	(703,701)	-	(25,422)
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	(13,576)	-	(26,596)	(13,576)	13,019	(1,510)	-	(40,203)	(1,510)	38,693	-	-	(556,347)	-	556,347
Capital Expenditures, net	(60,406)	(65,724)	(217,595)	5,318	157,189	(93,401)	(99,741)	(363,637)	6,340	270,236	(7,033,500)	(7,033,500)	(3,081,527)	-	(3,951,973)
Net Cash Provided By (Used In) Capital and Related Activities	(73,982)	(65,724)	(244,191)	(8,258)	170,208	(94,911)	(99,741)	(403,840)	4,830	308,929	(7,033,500)	(7,033,500)	(3,637,873)	-	(3,395,627)
Cash Flows From Investing Activities															
Investments Converting To Cash	125,000	-	942,000	125,000	(817,000)	1,611,000	1,486,000	1,677,000	125,000	(66,000)	1,486,000	-	2,906,000	1,486,000	(1,420,000)
Purchased Investments	(887,000)	(739,000)	-	(148,000)	(887,000)	(1,634,000)	(1,486,000)	(735,000)	(148,000)	(899,000)	(1,486,000)	-	(4,898,000)	(1,486,000)	3,412,000
Interest Income	22,422	2,276	3,484	20,145	18,938	45,871	5,306	8,120	40,565	37,751	85,128	85,128	130,271	-	(45,142)
Net Cash Provided By (Used In) Investing Activities	(739,578)	(736,724)	945,484	(2,855)	(1,685,062)	22,871	5,306	950,120	17,565	(927,249)	85,128	85,128	(1,861,729)	-	1,946,858
FUND NET CASH FLOWS	449,115	1,048,548	555,862	(599,433)	(106,748)	790,078	129,512	2,134,729	660,567	(1,344,651)	1,479,163	762,612	1,359,980	716,551	119,183
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	1,300,189	1,276,683	1,493,261	23,506	(193,072)	2,518,326	2,644,136	2,678,718	(125,811)	(160,392)	21,822,513	21,822,513	15,030,893	0	6,791,621
Operating Expenses (Cash Based)	(1,818,266)	(1,782,670)	(864,433)	(35,596)	(953,834)	(2,727,979)	(2,849,734)	(1,753,962)	121,755	(974,017)	(14,260,306)	(14,260,307)	(11,519,060)	0	(2,741,246)
Interest Income	22,422	2,276	3,484	20,145	18,938	45,871	5,306	8,120	40,565	37,751	85,128	85,128	130,271	-	(45,142)
Annual Lease Payment (City)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Operating Revenues (Expenses)	214,226	13,379	29,825	200,847	184,401	693,776	54,606	190,550	639,170	503,226	877,900	877,900	3,517,734	-	(2,639,834)
Cash Available For Debt Service	(281,429)	(490,331)	662,137	208,902	(943,567)	529,994	(145,685)	1,123,426	675,679	(593,432)	8,525,235	8,525,235	7,159,837	0	1,365,398
Interest Paid	12,762	12,762	11,773	-	989	25,524	25,524	23,545	-	1,979	153,143	153,143	141,271	-	11,872
Debt Retirement (Principal Payments)	47,998	47,998	46,869	-	1,129	95,997	95,997	93,738	-	2,258	575,980	575,980	562,430	-	13,550
Total Debt Service	60,760	60,760	58,642	-	2,118	121,521	121,521	117,284	-	4,237	729,123	729,123	703,701	-	25,422
Debt Service Ratio	(4.63)	(8.07)	11.29	3.44	(15.92)	4.36	(1.20)	9.58	5.56	(5.22)	11.69	11.69	10.17	0.00	1.52

LEHIGH COUNTY AUTHORITY
VARIANCE ANALYSIS - YTD
For the Period Ended February 28, 2023

STATEMENTS OF ACTIVITIES

Operating Revenues:

User Charges
Connection & System Charges
Other Miscellaneous Revenues

Total Operating Revenues

Operating Expenses:

Personnel
Shared Services - General & Administrative
Utilities
Materials and Supplies
Miscellaneous Services
Treatment and Transportation
Depreciation and Amortization
Major Maintenance Expenses
Other Miscellaneous

Total Operating Expenses

Net Operating Profit

Non-Operating Income (Expense)

Interest Income
Interest (Expense)
Other Miscellaneous

Net Non-Operating Income (Expense)

Net Income (Loss)

CASH FLOW STATEMENT

Cash Flows From Operating Activities

Operating Revenues
Operating Expenses (ex D&A)
Non-Cash Working Capital Changes

Net Cash Provided by (Used in) Operating Activities

Cash Flows From Financing Activities

Capital Contributions
Proceeds New Borrowing
Interest Payments
Principal Payments

Net Cash Provided by (Used in) Financing Activities

Cash Flows from Capital and Related Activities

Non-Operating Income (Expenses)
Capital Expenditures, net

Net Cash Provided By (Used In) Capital and Related Activities

Cash Flows From Investing Activities

Investments Converting To Cash
Purchased Investments
Interest Income

Net Cash Provided By (Used In) Investing Activities

FUND NET CASH FLOWS

Suburban - Wastewater				
Actual	Q1 FC	FC Var	Comments	
2,518,326	2,644,136	(125,811)	Higher tapping fees	
695,111	54,563	640,548		
175	44	131		
3,213,612	2,698,742	514,869	Higher due to higher tapping fees	
281,885	272,676	(9,208)		
47,581	47,861	280		
42,606	61,434	18,828		
52,080	32,785	(19,296)		
1,007,019	1,117,513	110,494		
1,294,755	1,314,383	19,628		
1,039,801	1,036,456	(3,344)		
2,053	3,082	1,029		
-	-	-		
3,767,780	3,886,190	118,410	Favorable due to lower services spending	
(554,168)	(1,187,448)	633,280	Favorable due to higher operating revenues along with lower operating expenses	
45,871	5,306	40,565		
(26,884)	(25,971)	(913)		
(1,510)	-	(1,510)		
17,477	(20,665)	38,142	Favorable due to higher interest income	
(536,691)	(1,208,113)	671,422	Favorable due to higher net operating income and higher interest income	
3,213,612	2,698,742	514,869		
(2,725,925)	(2,846,651)	120,726		
494,805	492,849	1,957		
982,492	344,940	637,552	Favorable due to higher cash from operations from higher net operating income	
-	-	-		
-	-	-		
(25,293)	(25,970)	677		
(95,081)	(95,023)	(58)		
(120,374)	(120,994)	620		
(1,510)	-	(1,510)		
(93,401)	(99,741)	6,340		
(94,911)	(99,741)	4,830		
1,611,000	1,486,000	125,000		
(1,634,000)	(1,486,000)	(148,000)		
45,871	5,306	40,565		
22,871	5,306	17,565	Favorable due due higher interest income	
790,078	129,512	660,567	Favorable due to higher cash from operations and higher interest income	

LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - CITY DIVISION
For the Period Ended February 28, 2023

STATEMENTS OF ACTIVITIES	City Division														
	Month					Year To Date					Full Year				
	Actual	Q1 FC	Prior Year	FC Var	PY Var	Actual	Q1 FC	Prior Year	FC Var	PY Var	Q1 FC	Budget	Prior Year	Bud Var	PY Var
Operating Revenues:															
User Charges	4,152,212	3,804,210	4,278,571	348,002	(126,359)	7,898,349	7,591,288	7,820,555	307,060	77,794	50,680,860	50,680,860	46,757,244	-	3,923,616
Connection & System Charges	132,649	117,040	316,575	15,246	(183,925)	277,719	236,940	454,450	40,778	(176,732)	4,096,600	4,096,600	5,367,463	-	(1,270,863)
Other Miscellaneous Revenues	11,388	1,026	3,180	10,362	8,208	16,688	2,410	7,470	14,279	9,218	69,300	69,300	214,812	-	(145,512)
Total Operating Revenues	4,296,250	3,922,640	4,598,326	373,610	(302,076)	8,192,756	7,830,638	8,282,475	362,117	(89,719)	54,846,760	54,846,760	52,339,519	-	2,507,241
Operating Expenses:															
Personnel	662,454	643,555	458,859	(18,899)	(203,595)	1,610,113	1,621,533	1,449,970	11,419	(160,144)	12,818,583	12,818,583	11,209,176	(0)	(1,609,407)
Shared Services - General & Administrative	186,834	147,766	107,978	(39,068)	(78,856)	312,305	314,609	229,896	2,304	(82,409)	2,197,452	2,197,452	1,605,755	-	(591,697)
Utilities	114,279	141,405	126,279	27,126	12,000	275,481	319,418	285,250	43,937	9,769	2,018,173	2,018,173	1,802,290	0	(215,883)
Materials and Supplies	277,196	214,706	182,382	(62,490)	(94,814)	361,897	266,204	226,686	(95,693)	(135,211)	2,621,000	2,621,000	2,227,858	-	(393,143)
Miscellaneous Services	132,161	146,914	140,348	14,753	8,186	151,863	170,675	160,495	18,812	8,632	2,112,700	2,112,700	1,807,096	-	(305,604)
Treatment and Transportation											14,318	14,318	11,594	-	(2,724)
Depreciation and Amortization	515,817	504,072	521,492	(11,745)	5,675	1,030,375	1,008,224	1,043,067	(22,151)	12,692	6,160,000	6,160,000	6,372,883	0	212,883
Major Maintenance Expenses	11,814	221,395	48,718	209,581	36,905	13,818	235,123	51,739	221,304	37,921	4,000,000	4,000,000	5,817,436	0	1,817,436
Other Miscellaneous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating Expenses	1,900,554	2,019,814	1,586,056	119,259	(314,499)	3,755,853	3,935,786	3,447,104	179,933	(308,749)	31,942,225	31,942,225	30,854,087	(0)	(1,088,138)
Net Operating Profit	2,395,695	1,902,826	3,012,270	492,869	(616,575)	4,436,903	3,894,852	4,835,372	542,051	(398,469)	22,904,535	22,904,535	21,485,432	(0)	1,419,103
Non-Operating Income (Expense)															
Interest Income	208,790	97	691	208,692	208,099	421,054	212,079	559	208,975	420,495	128,661	128,661	914,680	-	(786,019)
Interest (Expense)	(1,497,126)	(1,534,425)	(1,394,435)	37,299	(102,691)	(2,818,231)	(2,855,854)	(2,788,873)	37,623	(29,358)	(18,252,298)	(18,252,298)	(16,587,085)	-	(1,665,213)
Other Miscellaneous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Non-Operating Income (Expense)	(1,288,336)	(1,534,328)	(1,393,744)	245,991	105,407	(2,397,177)	(2,643,775)	(2,788,314)	246,598	391,137	(18,123,637)	(18,123,637)	(15,672,405)	-	(2,451,232)
Net Income (Loss)	1,107,359	368,498	1,618,526	738,860	(511,167)	2,039,726	1,251,077	2,047,058	788,649	(7,332)	4,780,898	4,780,898	5,813,027	(0)	(1,032,129)
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	4,296,250	3,922,640	4,598,326	373,610	(302,076)	8,192,756	7,830,638	8,282,475	362,117	(89,719)	54,846,760	54,846,760	52,339,519	-	2,507,241
Operating Expenses (ex D&A)	(1,372,924)	(1,294,347)	(1,015,845)	(78,577)	(357,078)	(2,711,660)	(2,692,439)	(2,352,297)	(19,220)	(359,363)	(21,782,225)	(21,782,225)	(24,481,204)	-	2,698,978
Non-Cash Working Capital Changes	(28,318)	-	(1,078,500)	(28,318)	1,050,182	(2,147,157)	(2,145,763)	(5,116,710)	(1,394)	2,969,553	(197,003)	0	2,213,393	(197,003)	(2,410,396)
Net Cash Provided by (Used in) Operating Activities	2,895,008	2,628,293	2,503,980	266,715	391,028	3,333,939	2,992,436	813,468	341,503	2,520,471	32,867,531	33,064,535	30,071,708	(197,003)	2,795,823
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	1,400,000	1,200,000	200,000	1,400,000	-
Interest Payments	-	-	-	-	-	-	-	-	-	-	(11,788,844)	(11,788,844)	(11,670,361)	-	(118,483)
Principal Payments	-	-	-	-	-	-	-	-	-	-	(3,342,077)	(3,342,077)	(2,514,642)	0	(827,435)
Net Cash Provided by (Used in) Financing Activities	-	-	-	-	-	-	-	-	-	-	(13,730,921)	(13,930,921)	(14,185,003)	200,000	454,082
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	-	-	-	-	-	-	-	-	-	-	(1,400,000)	(1,400,000)	(1,286,651)	-	(113,349)
Capital Expenditures, net	(511,016)	(580,646)	(456,588)	69,630	(54,428)	(580,610)	(668,468)	(543,731)	87,858	(36,879)	(15,191,000)	(15,191,000)	(12,705,520)	-	(2,485,480)
Net Cash Provided By (Used In) Capital and Related Activities	(511,016)	(580,646)	(456,588)	69,630	(54,428)	(580,610)	(668,468)	(543,731)	87,858	(36,879)	(16,591,000)	(16,591,000)	(13,992,171)	-	(2,598,829)
Cash Flows From Investing Activities															
Investments Converting To Cash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Purchased Investments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	208,790	97	691	208,692	208,099	421,054	212,079	559	208,975	420,495	128,661	128,661	914,680	-	(786,019)
Net Cash Provided By (Used In) Investing Activities	208,790	97	691	208,692	208,099	421,054	212,079	559	208,975	420,495	128,661	128,661	914,680	-	(786,019)
FUND NET CASH FLOWS	2,592,781	2,047,744	2,048,083	545,037	544,698	3,174,384	2,536,047	270,297	638,337	2,904,087	2,674,271	2,671,275	2,809,215	2,997	(134,943)
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	4,152,212	3,804,210	4,278,571	348,002	(126,359)	7,898,349	7,591,288	7,820,555	307,060	77,794	50,680,860	50,680,860	46,757,244	-	3,923,616
Operating Expenses (Cash Based)	(1,384,737)	(1,515,742)	(1,064,564)	131,005	(320,173)	(2,725,478)	(2,927,562)	(2,404,036)	202,084	(321,442)	(21,782,225)	(21,782,225)	(18,663,768)	-	(3,118,457)
Interest Income	208,790	97	691	208,692	208,099	421,054	212,079	559	208,975	420,495	128,661	128,661	914,680	-	(786,019)
Annual Lease Payment (City)	(116,667)	(116,667)	(107,221)	-	(9,446)	(233,333)	(233,333)	(214,442)	-	(18,892)	(1,400,000)	(1,400,000)	(1,286,651)	-	(113,349)
Non-Operating Revenues (Expenses)	144,037	118,429	319,755	25,608	(175,717)	294,407	239,350	461,920	55,057	(167,513)	4,165,900	4,165,900	5,582,275	-	(1,416,375)
Cash Available For Debt Service	3,003,635	2,290,329	3,427,232	713,307	(423,597)	5,654,999	4,881,822	5,664,556	773,177	(9,558)	31,793,196	31,793,196	33,303,780	-	(1,510,585)
Interest Paid	982,404	982,404	972,530	-	9,874	1,964,807	1,964,807	1,945,060	-	19,747	11,788,844	11,788,844	11,670,361	-	118,483
Debt Retirement (Principal Payments)	278,506	278,506	209,554	(0)	68,953	557,013	557,013	419,107	-	137,906	3,342,077	3,342,077	2,514,642	(0)	827,435
Total Debt Service	1,260,910	1,260,910	1,182,084	(0)	78,827	2,521,820	2,521,820	2,364,167	-	157,653	15,130,921	15,130,921	14,185,003	(0)	945,918
Debt Service Ratio	2.38	1.82	2.90	0.57	(0.52)	2.24	1.94	2.40	0.31	(0.15)	2.10	2.10	2.35	0.00	(0.25)

LEHIGH COUNTY AUTHORITY
VARIANCE ANALYSIS - YTD
For the Period Ended February 28, 2023

STATEMENTS OF ACTIVITIES

Operating Revenues:

User Charges
Connection & System Charges
Other Miscellaneous Revenues

Total Operating Revenues

Operating Expenses:

Personnel
Shared Services - General & Administrative
Utilities
Materials and Supplies
Miscellaneous Services
Treatment and Transportation
Depreciation and Amortization
Major Maintenance Expenses
Other Miscellaneous

Total Operating Expenses

Net Operating Profit

Non-Operating Income (Expense)

Interest Income
Interest (Expense)
Other Miscellaneous

Net Non-Operating Income (Expense)

Net Income (Loss)

CASH FLOW STATEMENT

Cash Flows From Operating Activities

Operating Revenues
Operating Expenses (ex D&A)
Non-Cash Working Capital Changes

Net Cash Provided by (Used in) Operating Activities

Cash Flows From Financing Activities

Capital Contributions
Proceeds New Borrowing
Interest Payments
Principal Payments

Net Cash Provided by (Used in) Financing Activities

Cash Flows from Capital and Related Activities

Non-Operating Income (Expenses)
Capital Expenditures, net

Net Cash Provided By (Used In) Capital and Related Activities

Cash Flows From Investing Activities

Investments Converting To Cash
Purchased Investments
Interest Income

Net Cash Provided By (Used In) Investing Activities

FUND NET CASH FLOWS

City Division			
Actual	Q1 FC	FC Var	Comments
7,898,349	7,591,288	307,060	Higher residential, commercial, and industrial volumes
277,719	236,940	40,778	
16,688	2,410	14,279	
8,192,756	7,830,638	362,117	Higher due to higher user charges and higher system charges
1,610,113	1,621,533	11,419	
312,305	314,609	2,304	
275,481	319,418	43,937	
361,897	266,204	(95,693)	
151,863	170,675	18,812	
-	-	-	
1,030,375	1,008,224	(22,151)	
13,818	235,123	221,304	Lower expensed capex for major maintenance
-	-	-	
3,755,853	3,935,786	179,933	Favorable due to lower expensed capex
4,436,903	3,894,852	542,051	Favorable due to higher operating revenues along with lower operating expenses
421,054	212,079	208,975	
(2,818,231)	(2,855,854)	37,623	
-	-	-	
(2,397,177)	(2,643,775)	246,598	Favorable due to higher interest income
2,039,726	1,251,077	788,649	Favorable due to higher net operating income and higher interest income

8,192,756	7,830,638	362,117	
(2,711,660)	(2,692,439)	(19,220)	
(2,147,157)	(2,145,763)	(1,394)	
3,333,939	2,992,436	341,503	Favorable due to higher net operating income from higher operating revenues along with lower operating expenses
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
(580,610)	(668,468)	87,858	
(580,610)	(668,468)	87,858	Favorable due to lower capex
-	-	-	
-	-	-	
421,054	212,079	208,975	Higher interest income on invested balances
421,054	212,079	208,975	Favorable due to higher investment income
3,174,384	2,536,047	638,337	Favorable due to higher cash generated by operations, lower capex, and higher interest income

LEHIGH COUNTY AUTHORITY
CASH & INVESTMENT SUMMARY
For the Period Ended February 28, 2023

	Suburban Water				Suburban Wastewater				City Division				Total			
	2/28/2023 Actual	2023 Forecast	2023 Budget	2022 Actual	2/28/2023 Actual	2023 Forecast	2023 Budget	2022 Actual	2/28/2023 Actual	2023 Forecast	2023 Budget	2022 Actual	2/28/2023 Actual	2023 Forecast	2023 Budget	2022 Actual
Cash																
Operating																
Unrestricted	4,051,064	6,519,774	7,075,935	5,207,096	994,738	2,379,617	4,964,460	900,454	17,655,000	11,682,286	23,660,027	9,008,015	21,802,337	20,581,677	35,700,423	15,115,564
Restricted	-	-	-	-	-	-	-	-	16,630,653	25,438,613	18,916,156	25,794,847	16,630,653	25,438,613	18,916,156	25,794,847
Total Operating	4,051,064	6,519,774	7,075,935	5,207,096	994,738	2,379,617	4,964,460	900,454	34,285,653	37,120,899	42,576,183	34,802,862	38,432,990	46,020,290	54,616,578	40,910,412
Capital																
Unrestricted	258,072	257,425	319,718	257,425	7,558,233	6,862,722	5,955,385	6,862,722	3,391,354	3,022,601	3,022,601	3,022,601	11,207,659	10,142,748	9,297,704	10,142,748
Restricted	-	-	-	-	338,961	338,677	338,360	338,677	7,527,992	7,500,035	7,500,035	7,500,035	7,866,953	7,838,712	7,838,396	7,838,712
Total Capital	258,072	257,425	319,718	257,425	7,897,194	7,201,399	6,293,745	7,201,399	10,919,346	10,522,636	10,522,636	10,522,636	19,074,612	17,981,461	17,136,099	17,981,461
Other Restricted																
Debt Reserves	1,666,635	1,656,568	1,648,569	1,656,568	-	-	-	-	31,274,131	28,335,482	28,976,677	27,979,247	32,940,766	29,992,050	30,625,246	29,635,815
Escrow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Other Restricted	1,666,635	1,656,568	1,648,569	1,656,568	-	-	-	-	31,274,131	28,335,482	28,976,677	27,979,247	32,940,766	29,992,050	30,625,246	29,635,815
Total Cash	5,975,771	8,433,767	9,044,222	7,121,089	8,891,931	9,581,016	11,258,205	8,101,853	76,479,129	75,979,017	82,075,496	73,304,746	90,448,368	93,993,800	102,377,924	88,527,688
Investments																
Operating																
Unrestricted	1,688,431	1,944,885	1,975,123	1,944,885	8,902,165	8,866,269	6,977,548	8,866,269	-	-	-	-	10,590,596	10,811,154	8,952,671	10,811,154
Restricted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating	1,688,431	1,944,885	1,975,123	1,944,885	8,902,165	8,866,269	6,977,548	8,866,269	-	-	-	-	10,590,596	10,811,154	8,952,671	10,811,154
Capital																
Unrestricted	1,022,402	1,000,184	1,000,000	1,000,184	-	-	-	-	-	-	-	-	1,022,402	1,000,184	1,000,000	1,000,184
Restricted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Capital	1,022,402	1,000,184	1,000,000	1,000,184	-	-	-	-	-	-	-	-	1,022,402	1,000,184	1,000,000	1,000,184
Other Restricted																
Debt Reserves	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Escrow	545,907	218,888	295,372	218,888	56,654	-	-	-	32,090	32,090	-	32,090	634,650	250,978	295,372	250,978
Total Other Restricted	545,907	218,888	295,372	218,888	56,654	-	-	-	32,090	32,090	-	32,090	634,650	250,978	295,372	250,978
Total Investments	3,256,741	3,163,957	3,270,496	3,163,957	8,958,819	8,866,269	6,977,548	8,866,269	32,090	32,090	-	32,090	12,247,649	12,062,316	10,248,043	12,062,316
Total Cash and Investments	9,232,512	11,597,724	12,314,718	10,285,046	17,850,750	18,447,285	18,235,753	16,968,122	76,511,219	76,011,107	82,075,496	73,336,835	102,696,017	106,056,116	112,625,967	100,590,003
Summary																
Cash																
Unrestricted	4,309,136	6,777,199	7,395,653	5,464,521	8,552,970	9,242,339	10,919,845	7,763,176	21,046,354	14,704,887	26,682,628	12,030,616	33,009,996	30,724,425	44,998,126	25,258,313
Restricted	1,666,635	1,656,568	1,648,569	1,656,568	338,961	338,677	338,360	338,677	55,432,776	61,274,130	55,392,868	61,274,130	57,438,372	63,269,375	57,379,797	63,269,375
Total Cash	5,975,771	8,433,767	9,044,222	7,121,089	8,891,931	9,581,016	11,258,205	8,101,853	76,479,129	75,979,017	82,075,496	73,304,746	90,448,368	93,993,800	102,377,924	88,527,688
Investments																
Unrestricted	2,710,834	2,945,069	2,975,123	2,945,069	8,902,165	8,866,269	6,977,548	8,866,269	-	-	-	-	11,612,998	11,811,338	9,952,671	11,811,338
Restricted	545,907	218,888	295,372	218,888	56,654	-	-	-	32,090	32,090	-	32,090	634,650	250,978	295,372	250,978
Total Investments	3,256,741	3,163,957	3,270,496	3,163,957	8,958,819	8,866,269	6,977,548	8,866,269	32,090	32,090	-	32,090	12,247,649	12,062,316	10,248,043	12,062,316
Total Cash and Investments	9,232,512	11,597,724	12,314,718	10,285,046	17,850,750	18,447,285	18,235,753	16,968,122	76,511,219	76,011,107	82,075,496	73,336,835	102,696,017	106,056,116	112,625,967	100,590,003

CERTIFICATES OF DEPOSIT

Feb 2023

Fund	Bank	Location	Gross Amount	Date of Purchase	Date Due	Net Rate %
WW Capac	First Foundation Bank	Irvine, CA	249,000.00	2/2/23	2/3/25	4.400
WW Capac	Medallion Bank	Salt Lake City, Ut	148,000.00	2/6/23	2/6/25	4.350
LLRI CR	Pacific Western Bank	Beverly Hills, CA	245,000.00	2/8/23	2/10/25	4.650
LLRI CR	Jefferson Bank	San Antonio TX	245,000.00	2/22/23	2/21/25	4.700

DEVELOPMENT ACTIVITY

Water system construction is occurring in the following developments:

7034 Ambassador Drive -Warehouse, UMT
Macungie Crossings Home Depot, LMT
8323/8449 Congdon Hill Drive, 2 industrial lots with warehouses, LMT
ABE Doors & Windows Redevelopment, 1 commercial lot, LMT
Estates at Maple Ridge, Water main extension-UMiLT
Fields at Indian Creek, Phases 4 & 5, 86 residential units (sfd), water and sewer, UMiLT & Emmaus
Fields at Brookside Water Main Re Route. 66 Lots
Kohler Tract, 123 residential lots (sfa), water and sewer, UMiLT
Lehigh Hills, Lot 5 Phase 2, 240 residential units (sfd.), UMT
Lehigh Hills Townhouses, 24 townhouse units (sfa), UMT
Mountain View Estates, 27 residential units (sfd), LMT
Posh Properties 4316,4320,4330,4344 Hamilton Blvd LMT, day care-self storage 4 lots water
Parkland Crossings Main Extension 144 Town homes UMT
Sauerkraut Lane Extension, Roadway & water line extension, LMT
West Hills Business Center Lot H, 1 commercial lot, WeisT
Green Hills Commerce Center 3 Possible Water Main Extension/Change of plans UMT
3369 Rt 100 Neighborhood Hospital & Medical Offices, 1 commercial lot, LMT
Guardian Self Storage Main Extension 1 commercial lot,LMT
749 Route 100,UMT

Water system plans are being reviewed for the following developments:

2619 Grove Street Sewer Main Extension,Washington Township
3400 Brookside Road, Indian Creek- 26 Single family homes-Main extension, LMT
3952 Independence Drive,NW
4002 Chestnut Street water main extension,Umilford
Valley at Indian Creek 3510 Macungie Road 22 Single family homes-LMT
5329-5347-5357 Hamilton Blvd., 1 commercial lot, LMT
Advanced Health Care of Allentown, 1 commercial lot, LMT
Air Products & Chemicals-Cetronia Road, 1 commercial lot, UMT
ATAS International, 1 industrial lot, UMT
Carriage East Residential Development, 11 residential units, (sfd), UMT
Chick-Fil-A Redevelopment, LMT
Estates at Maple Ridge, 30 residential units (sfd), UMiLT
Fallbrooke Residential Subdivision, 90 sf residential units, UMT
Fields at Brookside, water main relocation, LMT
Glenlivet Drive West Main extension and subdivision
Grant Street Townes, 18 Townhouse, WT
Green Hills Commerce Center III, 1 commercial lot, UMT
Hidden Meadows - Phase 3, 20 townhouse units, UMT
Home Depot Sub Lot Condo unit LMT
Laurel Field, Phase 5, 25 townhouses, UMT
Macungie Crossings Home Depot, LMT

DEVELOPMENT ACTIVITY

Madison Village at Penn's View, 66 manufactured homes, 1 lot, water and sewer, LynnT
Mertztown Residential Subdivision, 264 sf units & 136 townhouse units, LMT
Mosser Road Subdivision, 10 sf units, UMT
Ridings at Parkland, Phase 2, 38 residential units (sfd), NWT
Schoeneck Road, Lot 1, 1 lot, warehouse, LMT
Self-Storage Facility, Cedarbrook Road – 1 Commercial Lot, LMT
Spring Creek Properties, Lot 12, 1 lot, warehouse, LMT
Spring Creek Estates 2022 LMT 2 lots, 2 6 unit Apt, 8 single family homes, water
Taco Bell 248 Route 100-UMT
The Annex at Fields at Indian Creek, 22 sf residential units, Emmaus Borough
Towneplace Suites by Marriott, 91-room hotel, UMT
Towns At Schaefer Run, 128 townhouse unit (sfa), UMT
Trexler Center Unit 5-Wawa-LMT
Upper Macungie Community Center UMT commercial lot, water and Main Extension
Woodmont Valley 2, 129 apartment units (former Allen Organ Co.) LMT-New
3510 Macungie Road(Valley at Indian Creek LMT 22 Town Homes

Sewage Facilities Planning Modules Reviewed in Prior Month:

Whitehall Farms	3855 Lehigh St	Whitehall	GPD 9,245
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Presented: March 27, 2023

Critical Activities	System	Description	Feb-23	2023 Totals	2022 Totals	Permit
			Daily Avg (MGD)	Daily Avg (MGD)	Daily Avg (MGD)	Daily Max (MGD)
Water Production	Allentown	Total	22.52	22.18	22.47	39.0
		Schantz Spring	7.27	7.37	6.90	9.0
		Crystal Spring	3.89	3.88	3.87	4.0
		Little Lehigh Creek	11.36	10.91	11.68	30.0
		Lehigh River	0.00	0.02	0.03	28.0
	Central Lehigh	Total	9.59	10.01	11.30	19.04 MGD Avg
		Feed from Allentown	6.77	7.10	7.20	7.0 MGD Avg 10.5 MGD Max
		Well Production (CLD)	2.83	2.91	4.10	8.54 MGD Avg
		Sum of all (12) other Suburban Water Systems	0.11	0.12	0.14	1.71 Sum of all wells
Wastewater Treatment		Kline's Island	30.04	31.77	32.61	40.0
		Pretreatment Plant	4.68	4.78	5.06	5.75 (design capacity)
		Sum of all (5) other Suburban WW Systems	0.16	0.20	0.20	0.36
			Feb-23	2023 Totals	2022 Totals	2021 Totals
Precipitation Totals (inches)			1.05	5.12	46.47	44.67
Compliance Reports Submitted to Allentown			22	53	277	280
Notices of Violation (NOVs)	(Allentown + Suburban)		0	0	4	3
Sanitary Sewer Overflows (SSOs)/Bypasses	(Allentown + Suburban)		3	4	18	26
Main Breaks Repaired	Allentown		1	1	34	20
	Suburban		1	3	15	14
Customer Service Phone Inquiries	(Allentown + Suburban)		845	1838	10,539	15,857
Water Shutoffs for Non-Payment	(Allentown + Suburban)		168	325	1,975	1,773
Injury Accidents	(Allentown + Suburban)		2	2	7	8
Emergency Declarations	Allentown		0	0	(3) @ \$386,225.43	0
	Suburban		0	0	(4) @ \$933,077.1	(1) @ \$48,000
<u>Significant Repairs/Upgrades:</u>						
N/A						
<u>Description of NOVs and/or SSOs:</u>						
One SSO occurred on Brick Street in Allentown due to a build up of grease and rags. Two SSOs also occurred in the Wynnewood system. The initial SSO occurred at the Amanda Street lift station and was caused by build up of grease on the level floats. The second SSO was caused by a failed lining which caused a blockage in the line.						
<u>Other Highlights:</u>						
N/A						

Lehigh County Authority
System Operations Review - February 2023

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<u>Critical Activities</u>	<u>System</u>	<u>Description</u>	<u>Feb-23</u>	<u>2023 Totals</u>	<u>2022 Totals</u>
Wastewater Compliance	Allentown	Bypass	0	0	2
		Bypass Volume	0	0	369,704
		Permit Exceedances	0	0	1
		Sanitary Sewer Overflows	1	1	3
		COA Issued NOVs	0	0	1
		Regulatory Agency issued NOVs	0	0	0
	Arcadia	Bypass	0	0	0
		Bypass Volume	0	0	0
		Permit Exceedances	0	0	7
		Sanitary Sewer Overflows	0	0	0
		NOVs	0	0	0
	Heidelberg Heights	Bypass	0	1	8
		Bypass Volume	0	122,880	1,392,261
		Permit Exceedances	1	2	16
		Sanitary Sewer Overflows	0	0	0
		NOVs	0	0	0
	Lynn	Bypass	0	0	2
		Bypass Volume	0	0	472,000
		Permit Exceedances	0	0	7
		Sanitary Sewer Overflows	0	0	1
		NOVs	0	0	0
	Sand Spring	Bypass	0	0	0
		Bypass Volume	0	0	0
		Permit Exceedances	2	6	77
		Sanitary Sewer Overflows	0	0	0
		NOVs	0	0	1
	Wynnewood	Bypass	0	0	0
		Bypass Volume	0	0	0
		Permit Exceedances	0	0	4
		Sanitary Sewer Overflows	2	2	0
		NOVs	0	0	0
Water Compliance	Allentown	Boil Water Advisories	0	0	1
	Central Lehigh	Boil Water Advisories	0	0	2
	Suburban Water Systems	Boil Water Advisories	0	1	4