



LEHIGH COUNTY AUTHORITY

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

Agendas & Minutes Posted:
www.lehighcountyauthority.org

Published: April 19, 2021

BOARD MEETING AGENDA – April 26, 2021 – 12:00 p.m.

Notice of COVID-19 Pandemic Meeting Format: Effective March 23, 2020 and until further notice, meetings of the LCA Board of Directors will be held virtually using the Zoom Meetings application, to avoid risk of infection during the national COVID-19 pandemic emergency. Public participation is welcomed via Zoom, and 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.

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

3. Approval of Minutes

• *April 12, 2021 Board meeting minutes*

4. Public Comments

5. Action / Discussion Items:

FINANCE AND ADMINISTRATION

• *2022-2026 Capital Plan (Approval) (**gray**) (digital Board packet, page 8-18)*

WATER

WASTEWATER

• *Suburban Division – Heidelberg Heights 2021 Sanitary Sewer Replacement Project (Rejection of Bids) (**goldenrod**) (digital Board packet, page 19-20)*

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

7. Monthly Financial Review (2nd Board meeting per month) – **March report attached** (digital Board packet, page 21-30)

8. Monthly System Operations Overview (2nd Board meeting per month) – **March report attached** (digital Board packet, page 31)

9. Staff Comments

10. Solicitor's Comments

11. Public Comments / Other Comments

12. Executive Sessions

13. Adjournment

UPCOMING BOARD MEETINGS		
May 10, 2021	May 24, 2021	June 14, 2021

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

April 12, 2021

The Regular Meeting of the Lehigh County Authority Board of Directors was called to order at 12:01 p.m. on Monday, April 12, 2021, Chairman Brian Nagle presiding. The meeting was held via video and audio advanced communication technology ("ACT"), using the Zoom internet application, including telephone option, due to the COVID-19 pandemic emergency. 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 via ACT, using the Zoom internet application, including telephone option. A Roll Call of Board members present was taken. Chairman Brian Nagle, Scott Bieber, Richard Bohner, Norma Cusick, Ted Lyons, Kevin Baker, Linda Rosenfeld, Jeff Morgan, and Amir Famili were present 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, Susan Sampson, Andrew Moore, Phil DePoe, Lisa Miller, Todd Marion and Mark Bowen. John Parsons joined the meeting during the approval of minutes.

Chairman Nagle stated that the Board received their electronic copy of the Board packet in advance and asked if anyone did not receive their hard copy of the packet. No Board members indicated they had not received their packet by mail.

Chairman Nagle announced that the Authority received a Certificate of Achievement for Excellence in Financial Reporting from the Government Finance Officers Association (GFOA) for its Comprehensive Annual Financial Report for the Fiscal Year ended December 31, 2019. The award recognizes Ed Klein, Todd Marion, Linda Eberhardt and the Finance staff for their excellent financial reporting. He stated this award demonstrates the Authority's spirit of full disclosure and is a significant accomplishment. He congratulated the Finance team for this achievement. Sue Sampson reported that the award is posted on the Authority's website. Ed Klein stated the award acknowledges the hard work of the Finance team employees, and he is very proud of their dedication and hard work.

REVIEW OF AGENDA

Liesel Gross stated there are no changes to the agenda; however, there are some brief items for Staff Comments. There are no items for Executive Session. Chairman Nagle asked that the Staff Comments include a follow-up to the questions the Board asked at the previous meeting regarding the Standard Pipe Services contract.

APPROVAL OF MINUTES

March 22, 2021 Meeting Minutes

Richard Bohner noted some grammatical errors. On a motion by Richard Bohner, seconded by Norma Cusick, the Board approved the minutes of the March 22, 2021 Board meeting as corrected (9-0).

PUBLIC COMMENTS

None.

ACTION AND DISCUSSION ITEMS

PENNVEST Financing Resolutions No. 04-2021-01, No. 04-2021-02, No. 04-2021-03 – Allentown Division – Water Filtration Plant; High Lift Pump VFD Upgrade Project

Liesel Gross stated there are three Resolutions for consideration and approval that are required by the Authority and by the Pennsylvania Infrastructure Investment Authority (PENNVEST) in order to complete the financing for the High Lift Pumps and Variable Frequency Drives at the Water Filtration Plant (VFD project). Tim Horstmann, the Authority's bond counsel from McNees, Wallace and Nurick was present to review each of the Resolutions in more detail. Resolution No. 04-2021-01 is the borrower's resolution authorizing the issuance of the loan by PENNVEST. Atty Horstmann noted that the debt obligation for this loan will be in a subordinate lien position, pursuant to the 2020 Supplemental Trust Indenture associated with the bonds issued for the Allentown Concession Lease agreement.

Resolution No. 04-2021-02 is referred to as a reimbursement resolution and is required by PENNVEST to comply with the tax code. In the event there are any project reimbursements for capital costs prior to the May 25, 2021 loan closing date, the Authority would be able to reimburse itself for those costs.

Resolution No. 04-2021-03 is referred to as a rate resolution which is also required by PENNVEST. It states that the Authority will raise rates, consistent with the Allentown Concession Lease agreement, to pay the debt service costs associated with the PENNVEST loan.

Liesel Gross commented that the settlement agreement with the City of Allentown made this type of borrowing possible in terms of addressing how capital cost recovery rates are developed and establishing the Authority's capital financing approach. She noted that the updated method for calculating the capital cost recovery charge allows the Authority to establish rates necessary to guarantee repayment of the loan as described in Resolution No. 04-2021-03.

Jennifer McKenna, City of Allentown Office of Compliance, thanked the Authority for pursuing the PENNVEST financing which translates into a reduced capital expense for the rate payers.

Kevin Baker commented that this is a good example of how the Lease negotiations have benefitted the community. Jeff Morgan asked how the costs will be shared among the users, including the surrounding municipalities. Liesel Gross stated that in the update to the Water Purchase Agreement approved last year, the Authority and the City of Allentown agreed on how costs for projects like this will be shared. As a result, all the municipalities that use Allentown water, along with City customers, will share in the capital cost recovery for this project through a small addition to the volumetric rate all customers pay.

On a motion by Linda Rosenfeld, seconded by Norma Cusick, the Board approved Resolution No. 04-2021-01 authorizing the financing of the Allentown Division Water Filtration Plant High Lift Pump VFD Upgrade project through PENNVEST (9-0).

A roll call vote was taken with the following votes cast:

Brian Nagle – yes
Scott Bieber – yes
Richard Bohner – yes
Norma Cusick – yes
Ted Lyons – yes
Kevin Baker – yes

Linda Rosenfeld – yes
Jeff Morgan – yes
Amir Famili – yes

On a motion by Linda Rosenfeld, seconded by Scott Bieber, the Board approved Resolution No. 04-2021-02 authorizing the reimbursement of project costs to Lehigh County Authority via the PENNVEST loan (9-0).

On a motion by Richard Bohner, seconded by Norma Cusick, the Board approved Resolution No. 04-2021-03 authorizing adoption and implementation of rates adequate to pay the full debt service on the PENNVEST loan (9-0).

Allentown Division – Water Main Replacement Program Cycle 5

Chuck Volk introduced the project and invited the project manager, Jason Peters, to provide details to the Board. Mr. Peters explained the Authority intends to replace 1.13 miles of aged spun- or pit-cast iron water main in 2021 as part of the Allentown Division Water Main Replacement Program per the amended and restated Concession Lease agreement. He reviewed the bidding process, noting that the apparent low bidder is JOAO Bradley Construction Co., (Bradley) Inc., a contractor that is well known to the Authority and acceptable for this project. He noted that Bradley had completed Cycles 2 and 3 water main replacements with good results.

Mr. Peters then explained that a cost-sharing agreement between the City of Allentown and the Authority was developed for Cycle 5 regarding the final paving for the project. Chuck Volk commented that the construction cost is below the engineer's estimate and the cost-sharing agreement benefits both parties by yielding significant cost savings, better control over construction schedule and improved quality control. The paving will also include ADA ramp construction.

Jeff Morgan asked where the project will take place. Jason Peters explained that the project will take place in several different locations spread out through the City. Amir Famili asked what the relative cost comparison is from Cycles 2 and 3 versus Cycle 5. Mr. Volk stated he can provide this information but noted that prior project costs may not be comparable due to fluctuating materials costs, which are often impacted by oil costs. Mr. Famili asked if there are any challenges with Bradley. Jason Peters explained that JOAO Bradley has worked on several prior projects for the Authority providing good work. The contractor is known for completing projects on-time, and the crew members are cordial to work with. Chuck Volk also noted that Bradley is frequently retained by the Authority to address emergency repairs.

On a motion by Linda Rosenfeld, seconded by Jeff Morgan, the Board approved the Capital Project Authorization of the Construction Phase in the amount of \$2,011,718.00 which includes the Professional Services Authorization for the Construction Engineering and Administration Services to Gannett Fleming Inc. in the amount of \$43,540.00 and Construction Inspection Services to Keystone Consulting Engineers in the amount of \$75,000.00, the General Construction Contract to JOAO Bradley Construction Co., Inc. in the amount of \$1,547,636.00, and the Paving Restoration Contract – Cost Sharing Agreement to the City of Allentown in the amount of \$195,542.00 (9-0).

MONTHLY PROJECT UPDATES / INFORMATION ITEMS

Liesel Gross highlighted some of the items for the next Board meeting on April 26, 2021, including approval of the 2022-2026 Capital Plan and the Suburban Division Heidelberg Heights 2021 Sanitary Sewer rehabilitation project.

STAFF COMMENTS

Liesel Gross provided answers to the Board's questions from the previous meeting regarding the sewer pipeline lining project to be completed by Standard Pipe Services. She noted the design engineer has stated the product that will be used for this project is a hard polyvinyl resin that, once hardened, has a design life of 50 years. The design engineer stated this product has zero risk of delamination. The real risk lies in the preparation of the pipe prior to installation, so it is important for the contractor to make sure of the proper temperature and time for curing and that the interior of the pipe is cleaned properly prior to installation. If a failure were to occur, it would happen very shortly after installation and well within the 18-month corrective action period of the contract. Chairman Nagle commented that construction inspection will be critical. Ms. Gross said the CCTV work is also critical prior to the installation.

Ms. Gross also reported there will be Strategic Planning subcommittee meetings this week with a small group of 3 Board members in each meeting to kick off the strategic planning project. Chairman Nagle noted that this is just for the Board at this time and the Authority will reach out to other stakeholders for their comment as well at a later date.

Ms. Gross stated that today marks the opening of phase 1C for COVID-19 vaccinations. Utility workers are in the 1C group allowing Authority workers to schedule their vaccinations. Sue Sampson had an interview this morning with WFMZ regarding this topic.

Ms. Gross announced that Kevin Baker's reappointment is scheduled to be considered for approval by the Lehigh County Board of Commissioners on Wednesday at their virtual meeting, which the public can link to from the County's website. She stated there are no known barriers to Mr. Baker being reappointed to the Authority Board. Chairman Nagle said Mr. Baker is an important part of the Board.

And lastly, Mr. Gross noted that Chris Moughan has worked through most of the email system conversion for the Board member's Authority email accounts. If anyone requires any assistance with the new process, they should contact Mr. Moughan directly.

SOLICITOR'S COMMENTS

None.

PUBLIC COMMENTS / OTHER COMMENTS

None.

EXECUTIVE SESSION**ADJOURNMENT**

There being no further business, the Chairman adjourned the meeting at 12:47 p.m.

Richard Bohner

Secretary



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

MEMORANDUM

TO: LCA Board of Directors
FROM: Liesel Gross, CEO
DATE: April 19, 2021
RE: Final Draft Capital Plan (2022-2026) – All Divisions

In February and March 2021, Lehigh County Authority staff presented the draft Capital Plan for the years 2022-2026 for Suburban and Allentown Divisions. The plans were also distributed to various external stakeholders including municipalities within LCA's service area, the Lehigh County Board of Commissioners, Lehigh Valley Planning Commission, and the City of Allentown. This memo summarizes the comments received and provides an overview of the Final Draft Capital Plan, for Board consideration for approval at the April 26, 2021 meeting.

It is important to note that approval of the plan by LCA's Board does not indicate authorization for Plan funding. Such authorization occurs through several other mechanisms including:

- **Annual Budget** – The LCA Board approves the capital budget for the upcoming calendar year as part of the annual budget process that is completed in October each year. This approval provides authorization for routine/recurring capital expenses that fall within LCA's purchasing guidelines.
- **Project Authorizations** – The LCA Board approves individual capital projects and expenditures at the time they are more concretely developed with a full project scope, project budget, cost justification and alternatives analysis if required.
- **Project Financing** – The LCA Board approves all new debt issuances including new loans or grant applications that may be secured to fund the capital program.

At each of these approval stages, the LCA staff and Board may discuss and adjust project scope and prioritization. However, this Capital Plan should be viewed as the guiding document for moving forward on system improvements that are required for the provision of safe and reliable service to the communities we serve.

The 2022-2026 Capital Plan also includes financial analysis of the impacts to revenue requirements that will drive annual rate-making decisions. This analysis includes a review of funding sources for all projects, movement toward self-funding annual and recurring asset rehabilitation via operating revenues, expected inflation of operating expenses, and achievement of key financial metrics including debt service coverage ratio and operating cash reserve requirements.

Final Draft Capital Plan (2022-2026) – All Divisions: Board members should refer to the draft plan documents presented previously. If acceptable, Board approval on April 26, 2021 is requested.

Plan Summary

While the presentation and publication of the LCA Capital Plan is divided into budgetary categories of Administrative, Suburban Water, Suburban Wastewater and Allentown Division, implementation is viewed holistically in the summary below to illustrate the categories and breadth of investment required to maintain and enhance the large regional water and sewer system that LCA operates.

<u>Investment Category</u>	<u>Estimate</u>
Technology Upgrades / Cyber Security / Automation	\$4,075,000
Water Supply & Sewer Capacity Management - Studies	1,650,000
Small Water / Sewer Systems (Satellite Systems) Upgrades	3,710,000
Metering Upgrades	7,342,000
Allentown Water Filtration Plant Upgrades (projects >\$1,000,000)	9,100,000
Allentown Wastewater Treatment Plant Upgrades (projects >\$1,000,000)	11,300,000
Regional Sewer System Upgrades/Wet Weather Management	15,820,000
Water Main Replacements AD & SD (7 & 5 miles, respectively)	26,583,650
Small Projects, Capital Purchases & Equipment Upgrades (projects <\$1,000,000)	33,858,350
Total Capital Improvements – Estimated Cost (2022-2026)	\$113,439,000

Project Highlights:

Sewer Capacity Management → \$1,650,000 included to develop a regional Act 537 Plan to address future sewage facility plans for regional system to address current and future capacity needs, plus wet-weather flows.

Small Water / Sewer Systems (Satellite Systems) Upgrades → Eight important projects to upgrade small developer-built systems that LCA has acquired in poor condition over the past several decades. Small systems range in size from 35 to 1,000 customers. These are important upgrades to address environmental and regulatory compliance issues in these under-served areas of the County.

Allentown Water Filtration Plant Upgrades → Largest project is a \$6,100,000 upgrade to the filters at the plant, which are about 60 years old. Approximately 50% of the project is expected to be completed in the next five years, and an additional \$6,000,000 will be needed to complete the full scope of the project by 2029.

Allentown Wastewater Treatment Plant Upgrades → Three significant electrical and pump improvement projects are estimated to cost \$9,100,000 over the next five years. This work is required to replace equipment and other components dating from the 1960s that have become difficult to maintain but provide critical service, especially during periods of peak flows due to wet weather.

Regional Sewer System Upgrades / Wet Weather Management → While the region develops its first regional Act 537 Sewage Facilities Plan between now and 2025, significant projects will be completed to address inflow and infiltration into the system and to relieve current hydraulic restrictions (bottlenecks) in the system. The largest project is a \$5,800,000 capacity improvement in the Trexlertown area which is a portion of the system that is currently overloaded.

Capital Financing:

In 2019, LCA made an important adjustment to its capital financing strategy to reflect the realities of an aging utility with significant ongoing system rehabilitation work that will be required for the foreseeable future. The updated philosophy embraced by LCA’s Board of Directors includes the following elements:

1. **Annual / Recurring Projects & System Rehabilitation** – Projects in this category, including regular water main replacements, ongoing system rehab and equipment purchases, should be funded directly through annual revenues or existing operating reserves.
2. **One-Time Projects or Capacity-Development to Meet Future Demand** – Borrowing would be limited to those larger projects that include full-scale replacement or significant asset rehab that is not expected to be repeated for many years (decades) or large investments needed to develop water or sewer capacity to meet future customer requirements.
3. **Allentown System Projects** – Due to the financial structure of the 50-year Allentown Concession Lease agreement, LCA’s ability to borrow for capital improvements is severely limited. Therefore, some minor borrowing using low-interest financing available from PENNVEST may be acceptable to allow high-priority critical projects to move forward in the near term, but the financing plan will focus on supporting these projects through the use of project reserves.
4. **Forecast of Revenue Requirements & Financial Metrics** – To balance these funding strategies, a forecast of future revenue requirements is presented annually to ensure the plan goals can be met and community conversations can take place regarding the impact of these important infrastructure investments. These revenue requirements are balanced with LCA’s financial goals of ensuring debt service coverage ratio of at least 1.20 and having 180 days (6 months) of operating cash in reserves.

Sources of funding planned to support the 2022-2026 Capital Plan are:

<u>Project Category</u>	<u>Funding Source</u>	<u>Estimate</u>
Suburban Division Annual / Ongoing Rehabilitation	Operating Revenues / Reserves	\$47,430,500
Suburban Division Large-Scale / Capacity Projects	New Borrowing	10,275,000
Allentown Division – All Projects	Operating Revenues / Reserves	66,008,500
Total Capital Improvements Cost (2022-2026)		\$ 113,439,000

To complete the projects included in the draft 2022-2026 Capital Plan in accordance with the financial strategy described above, the following annual revenue increases will be required:

LCA's Suburban Water systems → 6.75% per year

LCA's Suburban Wastewater systems → 1.4% per year

LCA's Allentown Division water and sewer systems → Current lease rates increase by inflation (CPI-U) plus 2.5%.

Important Note: *The annual revenue increases shown above are not the same as rate increases to our customers. LCA evaluates rate increases annually during the preparation of the following year's budget and includes a review of factors such as customer growth, tapping fees paid in the prior year, changes in sales volume (water sales, sewer flows) and other economic factors prior to determining the actual rate increases needed in each calendar year.*

Public Comments Received

City of Allentown: City officials review the Allentown Division capital plan annually and provide comments, primarily on upcoming projects that may have an impact on user rates. The City's letter for LCA's draft 2022-2026 capital plan is attached noting areas of agreement on cost recovery and projects for which additional discussion will be required. LCA staff's response letter to the City is attached as well. Minor text clarifications were inserted in the Capital Plan for the WFP Filter and Intake Upgrade projects.

Lehigh Valley Planning Commission: The planning commission reviews LCA's plan annually and provides comment. The Commission's letter for LCA's draft 2022-2026 capital plan is attached noting that the new projects included in the plan are consistent with the regional comprehensive plan.



Craig W Messinger
Director of Public Works
Department of Public Works
641 S 10th Street, 3rd Floor
Allentown, PA 18103
610.437.7587 ext.2275
Craig.Messinger@allentownpa.gov
www.AllentownPA.gov

March 30, 2021

Charles Volk, P.E.
Chief Capital Works Officer
Lehigh County Authority
P.O. Box 3348
1053 Spruce Street
Allentown, PA 18106-0348

RE: Draft 5-Year Capital Plan, Allentown Division, 2022-2026

Dear Mr. Volk,

Pursuant to Article 4 of the Concession and Lease Agreement (Lease), the City of Allentown (City) is responding to your *Draft 5-Year Capital Plan, Allentown Division, 2022-2026 (Plan)* received March 9, 2021. The City's comments are on the entirety of the five-year program.

WATER

AD-W-7 Water Main Replacements

The mileage requirements for this Major Capital Improvement Project (MCIP) should be modified; per Lease §6.19.2b Evaluation and Replacement Requirements (Effective January 1, 2021), LCA is only required to complete a minimum of one mile of water main replacement in calendar year 2021. For the remainder of the four-year period, LCA may combine the individual annual water main replacement projects so long as at least four miles of water main replacement will have been completed by the end of 2024. Beginning in 2024, representatives of the City and LCA will review leak detection history and repairs, etc. and may consider modifying the replacement mileage for the following four-year period. The annual mileage determination will never be less than one mile per year nor more than two miles per year. Budget Funding Needs for Water Main Replacements should be adjusted for the years 2022, 2023, and 2024.

AD-W-22 Filter Upgrades

Although it is LCA's responsibility/prerogative to determine the capital improvements needed in the System to comply with all regulatory and Lease requirements including the priority, timing, and implementation of those capital improvements, the City feels the need to express its concern about the delaying the start of work on the construction phase of upgrading the filters in this MCIP until 2025/2026. The filters are the most critical process in the treatment train and are the primary means of achieving the required turbidity level of the finished water.

The Operating Standards (OS) in the Lease require more stringent turbidity requirements than those mandated by drinking water regulations. Section A.4.1.1 (City Water Quality Requirements) and Section A 4.1.2 (Partnership for Safe Water Optimization Goals) of the OS both include operational liquidated damages for failure to meet the Lease requirements for turbidities.

The Detailed Project Description re-states information about the age and poor condition of the filters and the inability to get replacement parts from the WFP Master Plan, Arcadis, March 2017. Four years have passed since the report wherein Arcadis recommended (Appendix C and Appendix D) all eight filters be upgraded within 0-5 years at a total project cost of ~\$12,000,000 (2020 dollars). LCA's 2022-2026 Capital Plan indicates only 4 filters are going to be done in 2025-2026 and the other 4 filters in subsequent years.

Prior to LCA's realization of its dire financial situation which resulted in a reassessment and re-prioritization of capital improvements based on LCA's ability to fund projects, the Filter Upgrade project had been planned for construction as follows:

- 2018-2022 Capital Plan - 2019 \$7,020,000 and 2020 \$5,120,000
- 2019-2023 Capital Plan - 2020 \$7,100,000 and 2023 \$5,120,000

The concern for the timing of filter upgrades is further amplified by the information provided by the contributors to the Kline's Island Sewage Treatment Plant for the 537 Plan. Although the City does not expect development to proceed in accordance with the projected sewage flows, we still must consider the regional projected increases in sewage of 4.4 MGD by 2025. Typically, sewage only represents ~85% of the water volume, so the associated water volume to generate 4.4 MGD of sewage would be ~5.2 MGD. Most of the contributors get their water from the City's water filtration plant. There is a compounding risk having filters out of service for renovation when the demand for water is higher. The remaining filters would need to take on the additional workload, increasing water volume and frequency of offline backwash maintenance. Ultimately, this can reduce the amount of water which can be filtered.

AD-W-23 Intake Upgrades

The Detailed Project Description for this MCIP states that LCA limits pumping from the Lehigh River to 3 MGD due to concerns for taste and odor complaints. None of the monthly operating reports the City receives provide the details of which pumps are used, the discharge rate of the pumps used, or the time the pumps were exercised. It has been assumed that the running of the pumps ensures that should the Little Lehigh be contaminated, the full volume of raw water otherwise provided by the Little Lehigh could be supplied from the Lehigh River. The concern under this capital project is that when the intake on the Little Lehigh is replaced that the Little Lehigh will not be available for some time. Please provide specific information on the three planned upgrade phases noted to include estimated costs for each and confirmation that the routine exercising of pumps within the Big Lehigh Pump Station includes running those pumps at rates equivalent to those pumping from the Little Lehigh.

AD-W-26 Large Diameter Valve Replacement Project

The City notes that this capital project is extracted from ADW19 last listed in the 2017-2022 Capital Plan where LCA established that one large inoperable transmission main valve will be replaced annually.

AD-W-24 High Lift Pumps

The City notes that the borrowing information does not reflect PENNVEST funding.

WASTEWATER

AD-S-11 Regional Flow Management Strategy (RFMS)

Please correct the *Projects Drivers and Needs to be Met by the Project* section to reflect that the RFMS was required by EPA as fulfilling compliance to the Administrative Orders.

AD-S- 21 WWTP 480V MCC Replacement

The Project Funding designation is incorrect. The project scope does not comply with the terms of the Settlement Agreement, specifically the modification of the definition, "Major Capital Improvement" -Aggregation which states, "The equipment, components, structures, or treatment units referenced in this subparagraph (1) must be in the same physical location. For purposes hereof, the "same physical location" means under the same roof or in adjacent buildings for interior equipment, components, structures or treatment units or, for exterior capital improvements, such equipment, components, structures or treatment units must be physically and operationally performing with similar equipment, components, structures or treatment units as part of the same treatment process." Therefore, the funding source cannot be a Capital Cost Recovery Charge as shown in the Capital Plan.

As prior practice, the City will anticipate LCA's response to these comments and after receipt of which the City may request meeting to review the comments and positions of LCA and the City.

Thank you for providing your proposed program and for your continued cooperation. If you have any questions or require additional information, please do not hesitate to contact the Office of Compliance.

Sincerely,



Craig Messinger
Director of Public Works

CC: Brian Nagle, LCA Board of Directors
Liesel Gross, LCA
Ed Klein, LCA
Daniel Koplish, COA
Office of Compliance, COA



1053 SPRUCE ROAD - P.O. BOX 3348 - ALLENTOWN, PA 18106-0348
610-398-2503 - FAX 610-351-8363 - www.lehighcountyauthority.org
email: kathymartin@lehighcountyauthority.org

April 9, 2021

Craig W. Messinger, Director of Public Works
Department of Public Works
641 S. 10th Street, 3rd floor
Allentown, PA 18103

RE: Draft 2022-2026 Allentown Division Capital Plan

Dear Mr. Messinger:

We are in receipt of your letter dated March 30, 2021 that contains the City's review comments on the draft 2022-2026 LCA Allentown Division Capital Plan ("Plan"). Our responses to the City's comments are as follows in the order they appear in your letter:

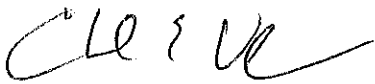
- 1) **AD-W-7 Water Main Replacements:** The Plan as presented incorporates the amended Lease requirements of one mile of water main replacement per year up to and including 2024, equivalent to four miles of replaced water main from this year until the end of 2024. Based upon an upcoming assessment of water distribution system condition and repair history to be performed in 2024 per the amended Lease, the future pipeline replacement requirement will be determined at that time, but will not exceed two miles per year. To accurately reflect the potential cost of this program, considering the unknown outcome of the 2024 evaluation, the Plan includes annual costs, adjusted for inflation, based on replacing one mile per year up to and including 2024, then resuming two miles per year in 2025 and 2026.
- 2) **AD-W-22 Filter Upgrades:** In 2020 LCA commissioned a study of the filters at the Water Filtration Plant be performed by Hazen. The Hazen study contained a condition assessment of the filters and identified short- and long-term rehabilitation recommendations. We are in the process of implementing the short-term rehabilitation work identified in the study, which includes backwash valve replacement, verification of surface sweeps pressure, removal of top one inch layer of filter media fines, and repair of filter troughs. This work will be done as part of general improvements or as a separate small capital project. For the long-term rehabilitation project, design phase will commence in 2024 with construction anticipated for 2025 and 2026. If the City is interested in discussing more about this project and our short- and long-term approaches to rehabilitating the filters at the plant, please contact me.
- 3) **AD-W-23 Intake Upgrades:** As described in the Plan, the Water Master Plan outlined a series of upgrade phases for the water intakes. However, the specific project in the Capital Plan captures only the distinct work related to rehabilitating the 1953 Little Lehigh Intake including replacement of the mechanical screen. The project detail sheet in the Plan will be revised to more clearly explain the work captured by this project vs. future intake upgrade projects. For

this project, construction will be expedited and scheduled to occur during a period of good water quality at the Big Lehigh intake to avoid taste and odor issues. This can be discussed in further detail with the City when we are further into the planning and design phase of this project. Other phases of upgrades to the intakes as described in the Water Master Plan fall outside of the current five-year Plan. Discussion with the City about the logistics and project approaches for those additional phases will occur at a later date.

- 4) **AD-26 Large Diameter Valve Replacement Project:** No response necessary. If the City has a specific question or concern about this project, please contact me.
- 5) **AD-W-24 High Lift Pumps:** Settlement for the PENNVEST loan associated with this project is scheduled for May 25, 2021. Therefore, the borrowing will be completed outside of the timeframe that is the focus of the Plan (2022-2026). The project is listed appropriately on the summary sheet as being financed with borrowed funds.
- 6) **AD-S-11 Regional Flow Management Strategy (RFMS):** The Plan will be revised to provide clarification in the "Project Drivers and Needs to be met by the Project" that the RFMS was required by EPA as fulfilling compliance with the Administrative Order.
- 7) **AD-S-21 KIWWTP 480V MCC Replacement:** This project will be reviewed with the City prior to initiating planning and design. The application of capital cost recovery will be discussed at that time. There is insufficient detail provided in the Plan at this time for a conclusive determination to be made on cost recovery.

If you have any questions about this response or wish to discuss any project included in the Plan in more detail, please don't hesitate to contact me.

Sincerely,



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

Cc: Liesel Gross, CEO
Edward Klein, CFO
John Parsons, COO

RECEIVED MAR 30 2021



GREG ZEBROWSKI
Chair

STEVEN GLICKMAN
Vice Chair

PAMELA PEARSON
Treasurer

BECKY A. BRADLEY, AICP
Executive Director

March 26, 2021

Mr. Charles Volk, PE
Chief Capital Works Officer
Lehigh County Authority
P.O. Box 3348
Allentown, Pennsylvania 18106-0348

Re: LCA Preliminary Capital Plans - Allentown and Suburban Divisions 2022-2026

Dear Mr. Volk:

The Lehigh Valley Planning Commission (LVPC), at its regular monthly meeting on March 25, 2021, reviewed the above-referenced plans and offers the following comments. The comments, as shown on the attached page, are provided for both water and wastewater projects appearing for the first time and significantly modified projects from previous Capital Plans. The Allentown Division Plan includes one new project and one significantly modified project, and the Suburban Division Plan includes one significantly modified project for which comments are provided.

Please call me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. L. Rockwell'.

Susan L. Rockwell
Senior Environmental Planner

Attachment

cc: Lehigh County Commissioners

Environment Committee		LVPC PROJECT REVIEW SUMMARY SHEET		Date: March 2021
TITLE	BRIEF DESCRIPTION		LVPC COMMENT	
Lehigh County Authority Preliminary Capital Plans (2022-2026)	<p><u>Suburban Division</u> Significantly Modified Project: <u>Water</u></p> <ul style="list-style-type: none"> • Central Lehigh Division Distribution System Improvements - Modification of study to evaluate future water demand scenarios and alternatives for Upper System (higher elevation) improvements. Water modeling completed for a potential large industrial water user north of I-78 in Fogelsville determined the site would be best served by an interconnection with the Lower System. <p><u>Allentown Division</u> Significantly Modified Project: <u>Water</u></p> <ul style="list-style-type: none"> • Water Meter Replacement Program - Replacement of 4,300 water meters with an outdated style of radio, which are approaching the end of their useful lives. The new meters will have mobile read capability and provide more efficiency of use. <p>New Project: <u>Sewer</u></p> <ul style="list-style-type: none"> • Flow Characterization Study - Project is needed to comply with the Kline's Island Sewer System Regional Flow Management Strategy, which is focused on infiltration and inflow reduction in the sewer system. Study includes metering of municipal sewer systems, development of a regional sewer model, scenario planning and evaluation of sewage facilities alternatives to meet the needs of the region. 		<p>Evaluating system improvements to meet existing and future needs is consistent with FutureLV: The Regional Plan Action: Improve the utility and mobility infrastructure of the region (under Policy 1.1). No land development plan for any specific site has been submitted to the LVPC.</p> <p>Consistent with FutureLV: The regional Plan Action: Improve the utility and mobility infrastructure of the region (under Policy 1.1).</p>	

MEMORANDUM

Date: April 26, 2021

To: Lehigh County Authority Board of Directors

From: Charles Volk, P.E., and Jason Peters, Capital Works Project Coordinator

Subject: Suburban Division – Heidelberg Heights Sanitary Sewer Rehabilitation
(Phase 4) – Construction Phase

MOTIONS / APPROVALS REQUESTED:

Rejection of Bids.

BACKGROUND

Annual projects to replace segments of original vitrified clay sewer main and lateral pipe are required as part of the Heidelberg Heights Sanitary Sewer System Consent Order and Agreement (CO&A), which was executed by DEP and LCA in Spring 2020. The CO&A mandates implementation of a Corrective Action Plan ("CAP"), which was drafted by Capital Works and submitted to DEP in Spring 2019. The CO&A commits LCA to eliminating hydraulic overloads and bypasses at the Heidelberg Heights Wastewater Treatment Plant, which are caused by wet weather inflow and infiltration into the sanitary sewage collection system. The CO&A contains an implementation schedule that mandates the replacement of all original vitrified clay pipe (VCP) main line and laterals in the sanitary sewer system within five years. Capital Works is on schedule to satisfy the pipe replacement milestones of the CO&A.

PROJECT OVERVIEW

This project is the fourth phase of annual sanitary sewer main and lateral replacements, and involves the replacement of approximately 700 feet of 8-inch VCP sewer main and 20 residential sewer laterals in the Heidelberg Heights sanitary sewage system. Sewer laterals are to be replaced to the property line with a cleanout assembly installed on each one. Existing manhole structures are to be re-used and new frames and covers retrofitted, watertight manhole chimney wrap will be installed, and new watertight gaskets will be installed at manhole pipe connections. The contractor is responsible for temporary measures, including bypass pumping, in order to minimize sanitary sewer service disruption. Roadway and lawn area restoration is included.

FUNDING

The annual projects are funded by the LCA Suburban Division

BUDGET AMENDMENT

Not required

PROJECT STATUS

Board authorization of rejection of bids.

THIS APPROVAL – CONSTRUCTION PHASE BID REJECTION:

BIDDING SUMMARY

This project consists of one contract. The project was advertised for bid via PennBid in March 2021 and bids were opened on March 31, 2021. Bids results are follows:

General Construction	
Bidder	Bid Amount
R-III Construction Corp.	\$310,550
Joao & Bradley Co., Inc.	\$391,650

The low bid cost exceeds the construction phase budget of \$250,000, and Capital Works believes the bid price is excessive given the length of pipe to be installed (engineer's estimate is \$238,000). Also, Capital Works is of the opinion that the low bid represents an "unbalanced bid", in that the line item cost for permanent paving is over three times current average construction costs for paving. Capital Works recommends rejection of all bids.

PROFESSIONAL SERVICES

N/A.

PROJECT SCHEDULE

Based on board rejection of bids at the April 26, 2021 board meeting, Capital Works will re-package and re-bid the project this summer. The project scope will be modified to reflect additional lengths of main and lateral pipe with the objective of realizing better economy of scale. The re-bid project scope will include next year's phase of pipe replacement and the project budget will roll into 2022.

FUTURE AUTHORIZATIONS

Award of re-bid project, late Summer 2021.

**LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS
MARCH 2021**

LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - SUMMARY
For the Period Ended March 31, 2021

	Month					Consolidated Financial Statements					FULL YEAR				
	Year To Date														
	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	17,168	(98,000)	18,927	115,168	(1,759)	(3,527)	(138,000)	146,368	134,473	(149,895)	308,000	183,548	262,090	124,452	45,910
Suburban Wastewater	245,240	193,000	13,586	52,240	231,654	773,599	725,000	2,991,220	48,599	(2,217,621)	1,313,000	1,175,879	2,681,321	137,121	(1,368,321)
City Division	(109,469)	351,500	(181,300)	(460,969)	71,831	911,043	1,328,000	(100,421)	(416,957)	1,011,464	1,019,414	865,692	(1,104,731)	153,722	2,124,145
Total LCA	152,939	446,500	(148,787)	(293,561)	301,726	1,681,116	1,915,000	3,037,168	(233,884)	(1,356,052)	2,640,414	2,225,119	1,838,681	415,295	801,734
Cash Flow Statement															
Suburban Water	(338,803)	(458,844)	580,364	120,041	(919,166)	(56,657)	(185,577)	238,341	128,920	(294,998)	(3,356,733)	(3,490,153)	(3,945,823)	133,420	589,090
Suburban Wastewater	(124,996)	(182,753)	(430,803)	57,757	305,807	(139,657)	506,588	35,667	(646,245)	(175,325)	2,377,166	2,321,828	409,330	55,338	1,967,836
City Division	2,084,983	2,045,500	1,965,404	39,483	119,578	5,381,407	5,242,000	4,273,676	139,407	1,107,731	4,698,288	4,663,547	2,118,999	34,740	2,579,289
Total LCA	1,621,184	1,403,903	2,114,965	217,280	(493,782)	5,185,093	5,563,011	4,547,685	(377,918)	637,409	3,718,720	3,495,222	(1,417,494)	223,498	5,136,215
Debt Service Coverage Ratio															
Suburban Water	1.16	0.80	1.15	0.36	0.01	1.09	0.97	1.24	0.13	(0.14)	1.23	1.20	1.21	0.03	0.02
Suburban Wastewater	10.69	9.64	7.03	1.05	3.66	10.80	10.46	23.73	0.35	(12.93)	8.36	8.17	12.49	0.19	(4.13)
City Division	1.31	1.65	1.79	(0.34)	(0.48)	1.78	1.91	1.94	(0.14)	(0.16)	1.69	1.68	1.90	0.01	(0.21)

LEHIGH COUNTY AUTHORITY
CONSOLIDATED FINANCIAL STATEMENTS
For the Period Ended March 31, 2021

Consolidated Financial Statements																
STATEMENTS OF ACTIVITIES	Month				Year To Date				Q1 FULL YEAR FORECAST				Full Year Budget			
	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA
Operating Revenues:																
User Charges	911,784	1,510,273	3,245,878	5,667,935	2,695,333	4,309,148	9,777,951	16,782,432	11,793,000	18,959,000	41,810,000	72,562,000	11,799,441	19,166,369	41,996,514	72,962,324
Connection & System Charges	48,605	48,843	129,178	226,625	113,091	249,065	729,031	1,091,187	926,000	972,000	3,991,000	5,889,000	912,039	865,588	3,947,981	5,725,607
Other Miscellaneous Revenues	2,455	1,625	3,420	7,500	6,895	1,730	11,400	20,025	32,000	-	59,000	91,000	30,944	628	59,249	90,821
Total Operating Revenues	962,844	1,560,741	3,378,475	5,902,060	2,815,319	4,559,943	10,518,382	17,893,644	12,751,000	19,931,000	45,860,000	78,542,000	12,742,423	20,032,585	46,003,744	78,778,752
Operating Expenses:																
Personnel	238,962	113,224	995,526	1,347,712	774,942	333,660	2,544,742	3,653,344	3,306,000	1,731,000	11,467,000	16,504,000	3,289,603	1,760,954	11,561,494	16,612,051
Shared Services - General & Administrative	51,652	23,617	164,509	239,778	116,717	50,368	357,254	524,339	629,000	153,000	1,660,000	2,442,000	663,734	155,415	1,739,417	2,558,565
Utilities	44,366	25,988	155,606	225,960	116,746	75,299	524,959	717,004	528,000	428,000	2,165,000	3,121,000	543,917	449,484	2,156,620	3,150,021
Materials and Supplies	42,893	35,433	167,636	245,962	78,794	63,975	295,223	437,992	532,000	601,000	1,828,000	2,961,000	547,582	649,208	1,932,267	3,129,057
Miscellaneous Services	254,917	480,339	118,477	853,733	774,794	1,368,660	239,486	2,382,940	3,459,000	6,137,000	1,773,500	11,369,500	3,518,076	6,209,376	1,813,371	11,540,823
Treatment and Transportation	-	228,151	-	228,151	-	690,000	-	690,000	-	3,981,000	11,000	3,992,000	-	3,977,539	12,000	3,989,539
Depreciation and Amortization	217,141	384,727	491,154	1,093,022	651,423	1,154,181	1,473,462	3,279,066	2,604,000	4,619,000	5,892,000	13,115,000	2,605,699	4,616,783	5,893,862	13,116,343
Major Maintenance Expenses	1,094	4,973	12,967	19,034	2,093	12,310	25,755	40,158	1,000	916,000	500,000	1,417,000	3,400	1,000,000	542,924	1,546,324
Other Miscellaneous	-	-	-	-	-	-	-	-	66,000	44,000	2,121,000	2,231,000	74,864	46,422	2,123,972	2,245,258
Total Operating Expenses	851,025	1,296,452	2,105,875	4,253,352	2,515,510	3,748,451	5,460,881	11,724,843	11,125,000	18,610,000	27,417,500	57,152,500	11,246,874	18,865,181	27,775,926	57,887,982
Net Operating Profit	111,819	264,288	1,272,600	1,648,707	299,809	811,492	5,057,501	6,168,801	1,626,000	1,321,000	18,442,500	21,389,500	1,495,549	1,167,404	18,227,817	20,890,770
Non-Operating Income (Expense)																
Interest Income	9,735	8,407	665	18,807	12,236	27,359	1,748	41,343	81,000	176,000	112,000	369,000	94,327	190,471	172,960	457,758
Interest (Expense)	(103,258)	(21,243)	(1,382,735)	(1,507,236)	(309,946)	(46,544)	(4,148,205)	(4,504,696)	(1,398,000)	(178,000)	(17,535,086)	(19,111,086)	(1,406,328)	(181,995)	(17,535,086)	(19,123,409)
Other Miscellaneous	(1,128)	(6,212)	-	(7,340)	(5,625)	(18,708)	-	(24,333)	(1,000)	(6,000)	-	(7,000)	-	-	-	-
Net Non-Operating Income (Expense)	(94,651)	(19,048)	(1,382,070)	(1,495,769)	(303,336)	(37,893)	(4,146,457)	(4,487,686)	(1,318,000)	(8,000)	(17,423,086)	(18,749,086)	(1,312,001)	8,475	(17,362,125)	(18,665,651)
Net Income (Loss)	17,168	245,240	(109,469)	152,939	(3,527)	773,599	911,043	1,681,116	308,000	1,313,000	1,019,414	2,640,414	183,548	1,175,879	865,692	2,225,119
CASH FLOW STATEMENT																
Cash Flows From Operating Activities																
Operating Revenues	962,844	1,560,741	3,378,475	5,902,060	2,815,319	4,559,943	10,518,382	17,893,644	12,751,000	19,931,000	45,860,000	78,542,000	12,742,423	20,032,585	46,003,744	78,778,752
Operating Expenses (ex D&A)	(633,884)	(911,725)	(1,614,721)	(3,160,330)	(1,864,087)	(2,594,270)	(3,987,419)	(8,445,777)	(8,521,000)	(13,991,000)	(21,525,500)	(44,037,500)	(8,641,176)	(14,248,398)	(21,882,064)	(44,771,639)
Non-Cash Working Capital Changes	(301,650)	(225,200)	743,509	216,659	(429,671)	(578,744)	(315,237)	(1,323,652)	21,413	3,995	(67,119)	(41,711)	3,418	(0)	50,001	53,419
Net Cash Provided by (Used in) Operating Activities	27,310	423,815	2,507,263	2,958,388	521,561	1,386,929	6,215,725	8,124,215	4,251,413	5,943,995	24,267,381	34,462,789	4,104,666	5,784,186	24,171,680	34,060,532
Cash Flows From Financing Activities																
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	-	-	2,000,000	2,000,000
Interest Payments	(3,671)	(21,245)	-	(24,917)	(11,194)	(46,552)	-	(57,746)	(1,406,328)	(181,995)	(11,565,086)	(13,153,409)	(1,406,328)	(181,995)	(11,565,086)	(13,153,409)
Principal Payments	(31,346)	(45,576)	-	(76,922)	(93,858)	(136,456)	-	(230,315)	(2,092,818)	(549,034)	(2,660,831)	(5,302,683)	(2,092,818)	(549,034)	(2,660,831)	(5,302,683)
Net Cash Provided by (Used in) Financing Activities	(35,017)	(66,821)	-	(101,838)	(105,052)	(183,008)	-	(288,061)	(3,499,146)	(731,029)	(12,225,917)	(16,456,092)	(3,499,146)	(731,029)	(12,225,917)	(16,456,092)
Cash Flows from Capital and Related Activities																
Non-Operating Income (Expenses)	(1,128)	(6,212)	-	(7,340)	(5,625)	(18,708)	-	(24,333)	(1,000)	(6,000)	(1,230,600)	(1,237,600)	-	-	(1,230,600)	(1,230,600)
Capital Expenditures, net	(339,703)	(484,185)	(422,946)	(1,246,834)	(479,776)	(609,230)	(836,066)	(1,925,072)	(4,189,000)	(3,005,800)	(6,224,576)	(13,419,376)	(4,190,000)	(2,921,800)	(6,224,576)	(13,336,376)
Net Cash Provided By (Used In) Capital and Related Activities	(340,830)	(490,397)	(422,946)	(1,254,173)	(485,401)	(627,937)	(836,066)	(1,949,404)	(4,190,000)	(3,011,800)	(7,455,176)	(14,656,976)	(4,190,000)	(2,921,800)	(7,455,176)	(14,566,976)
Cash Flows From Investing Activities																
Investments Converting To Cash	-	-	-	-	-	743,000	-	743,000	-	-	-	-	-	-	-	-
Purchased Investments	-	-	-	-	-	(1,486,000)	-	(1,486,000)	-	-	-	-	-	-	-	-
Interest Income	9,735	8,407	665	18,807	12,236	27,359	1,748	41,343	81,000	176,000	112,000	369,000	94,327	190,471	172,960	457,758
Net Cash Provided By (Used In) Investing Activities	9,735	8,407	665	18,807	12,236	(715,641)	1,748	(701,657)	81,000	176,000	112,000	369,000	94,327	190,471	172,960	457,758
FUND NET CASH FLOWS	(338,803)	(124,996)	2,084,983	1,621,184	(56,657)	(139,657)	5,381,407	5,185,093	(3,356,733)	2,377,166	4,698,288	3,718,720	(3,490,153)	2,321,828	4,663,547	3,495,222
DEBT SERVICE RATIO																
Debt Service Ratio (Indenture Based)																
Total Operating Revenues	911,784	1,510,273	3,245,878	5,667,935	2,695,333	4,309,148	9,777,951	16,782,432	11,793,000	18,959,000	41,810,000	72,562,000	11,799,441	19,166,369	41,996,514	72,962,324
Total Operating Expenses (Cash Based)	(633,884)	(911,725)	(1,614,721)	(3,160,330)	(1,864,087)	(2,594,270)	(3,987,419)	(8,445,777)	(8,521,000)	(13,991,000)	(21,525,500)	(44,037,500)	(8,641,176)	(14,248,398)	(21,882,064)	(44,771,639)
Interest Income	9,735	8,407	665	18,807	12,236	27,359	1,748	41,343	81,000	176,000	112,000	369,000	94,327	190,471	172,960	457,758
Annual Lease Payment (City)	-	-	-	-	-	-	(210,107)	(210,107)	-	-	(398,325)	(398,325)	-	-	(398,325)	(398,325)
Total Non-Operating Revenues (Expenses)	49,932	44,256	132,598	226,786	114,361	232,087	740,431	1,086,879	957,000	966,000	4,050,000	5,973,000	942,983	866,216	4,007,230	5,816,428
Cash Available For Debt Service	337,567	651,210	1,764,420	2,753,197	957,842	1,974,325	6,322,603	9,254,770	4,310,000	6,110,000	24,048,175	34,468,175	4,195,575	5,974,657	23,896,315	34,066,546
Interest Paid	117,194	15,166	1,144,745	1,277,105	351,582	45,499	2,891,272	3,288,352	1,406,328	181,995	11,565,086	13,153,409	1,406,328	181,995	11,565,086	13,153,409
Debt Retirement (Principal Payments)	174,402	45,753	205,124	425,278	523,205	137,259	665,208	1,325,671	2,092,818	549,034	2,660,831	5,302,683	2,092,818	549,034	2,660,831	5,302,683
Total Debt Service	291,596	60,919	1,349,869	1,702,383	874,787	182,757	3,556,479	4,614,023	3,499,146	731,029	14,225,917	18,456,092	3,499,146	731,029	14,225,917	18,456,092
Debt Service Ratio	1.16	10.69	1.31	1.62	1.09	10.80	1.78	2.01	1.23	8.36	1.69	1.87	1.20	8.17	1.68	1.85

LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - SUBURBAN WATER
For the Period Ended March 31, 2021

STATEMENTS OF ACTIVITIES	Suburban - Water														
	Month					Year To Date					Full Year				
	Actual	Q1 FC	Prior Yr	FC Var	PY Var	Actual	Q1 FC	Prior Yr	FC Var	PY Var	Q1 FC	Budget	Prior Yr	Bud Var	PY Var
Operating Revenues:															
User Charges	911,784	878,000	805,825	33,784	105,959	2,695,333	2,651,000	2,432,521	44,333	262,811	11,793,000	11,799,441	10,876,328	(6,441)	916,672
Connection & System Charges	48,605	14,000	30,853	34,605	17,752	113,091	80,000	74,321	33,091	38,770	926,000	912,039	860,600	13,961	65,400
Other Miscellaneous Revenues	2,455	3,000	1,605	(545)	850	6,895	7,000	5,040	(105)	1,855	32,000	30,944	90,408	1,056	(58,408)
Total Operating Revenues	962,844	895,000	838,283	67,844	124,561	2,815,319	2,738,000	2,511,882	77,319	303,437	12,751,000	12,742,423	11,827,336	8,577	923,664
Operating Expenses:															
Personnel	238,962	251,000	116,069	12,038	(122,893)	774,942	772,000	386,631	(2,942)	(388,312)	3,306,000	3,289,603	2,776,020	(16,397)	(529,980)
Shared Services - General & Administrative	51,652	55,000	131,484	3,348	79,832	116,717	134,000	250,647	17,283	133,930	629,000	663,734	301,192	34,734	(327,808)
Utilities	44,366	45,000	37,821	634	(6,546)	116,746	123,000	97,397	6,254	(19,349)	528,000	543,917	419,492	15,917	(108,508)
Materials and Supplies	42,893	22,000	14,622	(20,893)	(28,271)	78,794	52,000	44,399	(26,794)	(34,395)	532,000	547,582	279,455	15,582	(252,545)
Miscellaneous Services	254,917	293,000	181,272	38,083	(73,645)	774,794	822,000	582,507	47,206	(192,287)	3,459,000	3,518,076	3,644,354	59,076	185,354
Treatment and Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Depreciation and Amortization	217,141	217,000	220,000	(141)	2,859	651,423	651,000	660,000	(423)	8,577	2,604,000	2,605,699	2,939,143	1,699	335,143
Major Maintenance Expenses	1,094	-	935	(1,094)	(159)	2,093	1,000	1,904	(1,093)	(189)	1,000	3,400	-	2,400	(1,000)
Other Miscellaneous	-	6,000	-	6,000	-	-	12,000	-	12,000	-	66,000	74,864	44,785	8,864	(21,215)
Total Operating Expenses	851,025	889,000	702,203	37,975	(148,822)	2,515,510	2,567,000	2,023,486	51,490	(492,024)	11,125,000	11,246,874	10,404,442	121,874	(720,558)
Net Operating Profit	111,819	6,000	136,080	105,819	(24,262)	299,809	171,000	488,397	128,809	(188,588)	1,626,000	1,495,549	1,422,894	130,451	203,106
Non-Operating Income (Expense)															
Interest Income	9,735	11,000	8,946	(1,265)	789	12,236	25,000	32,177	(12,764)	(19,941)	81,000	94,327	74,594	(13,327)	6,406
Interest (Expense)	(103,258)	(115,000)	(127,692)	11,742	24,434	(309,946)	(333,000)	(383,176)	23,054	73,230	(1,398,000)	(1,406,328)	(1,442,549)	8,328	44,549
Other Miscellaneous	(1,128)	-	1,593	(1,128)	(2,721)	(5,625)	(1,000)	8,971	(4,625)	(14,596)	(1,000)	-	207,152	(1,000)	(208,152)
Net Non-Operating Income (Expense)	(94,651)	(104,000)	(117,154)	9,349	22,503	(303,336)	(309,000)	(342,029)	5,664	38,693	(1,318,000)	(1,312,001)	(1,160,804)	(5,999)	(157,196)
Net Income (Loss)	17,168	(98,000)	18,927	115,168	(1,759)	(3,527)	(138,000)	146,368	134,473	(149,895)	308,000	183,548	262,090	124,452	45,910
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	962,844	895,000	838,283	67,844	124,561	2,815,319	2,738,000	2,511,882	77,319	303,437	12,751,000	12,742,423	11,827,336	8,577	923,664
Operating Expenses (ex D&A)	(633,884)	(672,000)	(482,203)	38,116	(151,681)	(1,864,087)	(1,916,000)	(1,363,486)	51,913	(500,601)	(8,521,000)	(8,641,176)	(7,465,299)	120,176	(1,055,701)
Non-Cash Working Capital Changes	(301,650)	(309,439)	74,120	7,790	(375,770)	(429,671)	(180,378)	(653,594)	(249,293)	223,923	21,413	3,418	(112,551)	17,995	133,964
Net Cash Provided by (Used in) Operating Activities	27,310	(86,439)	430,200	113,750	(402,890)	521,561	641,622	494,803	(120,061)	26,758	4,251,413	4,104,666	4,249,486	146,747	1,928
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Payments	(3,671)	(3,477)	-	(194)	(3,671)	(11,194)	(11,000)	(13,194)	(194)	2,000	(1,406,328)	(1,406,328)	(1,756,050)	-	349,722
Principal Payments	(31,346)	(30,844)	(30,676)	(502)	(671)	(93,858)	(93,356)	(91,858)	(502)	(2,000)	(2,092,818)	(2,092,818)	(2,081,390)	-	(11,428)
Net Cash Provided by (Used in) Financing Activities	(35,017)	(34,321)	(30,676)	(696)	(4,342)	(105,052)	(104,356)	(105,052)	(696)	-	(3,499,146)	(3,499,146)	(3,837,440)	-	338,294
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	(1,128)	-	1,593	(1,128)	(2,721)	(5,625)	(1,000)	8,971	(4,625)	(14,596)	(1,000)	-	207,152	(1,000)	(208,152)
Capital Expenditures, net	(339,703)	(349,083)	(322,700)	9,381	(17,003)	(479,776)	(746,843)	(685,557)	267,067	205,781	(4,189,000)	(4,190,000)	(5,043,931)	1,000	854,931
Net Cash Provided By (Used In) Capital and Related Activities	(340,830)	(349,083)	(321,107)	8,253	(19,723)	(485,401)	(747,843)	(676,586)	262,442	191,185	(4,190,000)	(4,190,000)	(4,836,779)	-	646,779
Cash Flows From Investing Activities															
Investments Converting To Cash	-	-	493,000	-	(493,000)	-	-	1,236,000	-	(1,236,000)	-	-	2,382,000	-	(2,382,000)
Purchased Investments	-	-	-	-	-	-	-	(743,000)	-	743,000	-	-	(1,977,682)	-	1,977,682
Interest Income	9,735	11,000	8,946	(1,265)	789	12,236	25,000	32,177	(12,764)	(19,941)	81,000	94,327	74,594	(13,327)	6,406
Net Cash Provided By (Used In) Investing Activities	9,735	11,000	501,946	(1,265)	(492,211)	12,236	25,000	525,177	(12,764)	(512,941)	81,000	94,327	478,911	(13,327)	(397,911)
FUND NET CASH FLOWS	(338,803)	(458,844)	580,364	120,041	(919,166)	(56,657)	(185,577)	238,341	128,920	(294,998)	(3,356,733)	(3,490,153)	(3,945,823)	133,420	589,090
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	911,784	878,000	805,825	33,784	105,959	2,695,333	2,651,000	2,432,521	44,333	262,811	11,793,000	11,799,441	10,876,328	(6,441)	916,672
Operating Expenses (Cash Based)	(633,884)	(672,000)	(482,203)	38,116	(151,681)	(1,864,087)	(1,916,000)	(1,363,486)	51,913	(500,601)	(8,521,000)	(8,641,176)	(7,465,299)	120,176	(1,055,701)
Interest Income	9,735	11,000	8,946	(1,265)	789	12,236	25,000	32,177	(12,764)	(19,941)	81,000	94,327	74,594	(13,327)	6,406
Annual Lease Payment (City)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Operating Revenues (Expenses)	49,932	17,000	34,051	32,932	15,881	114,361	86,000	88,332	28,361	26,029	957,000	942,983	1,158,159	14,017	(201,159)
Cash Available For Debt Service	337,567	234,000	366,619	103,567	(29,052)	957,842	846,000	1,189,544	111,842	(231,702)	4,310,000	4,195,575	4,643,782	114,425	(333,782)
Interest Paid	117,194	117,194	146,338	-	(29,144)	351,582	351,582	439,013	-	(87,431)	1,406,328	1,406,328	1,756,050	-	(349,722)
Debt Retirement (Principal Payments)	174,402	174,402	173,449	-	952	523,205	523,205	523,348	-	2,857	2,092,818	2,092,818	2,081,390	-	11,428
Total Debt Service	291,596	291,596	319,787	-	(28,191)	874,787	874,787	959,360	-	(84,574)	3,499,146	3,499,146	3,837,440	-	(338,294)
Debt Service Ratio	1.16	0.80	1.15	0.36	0.01	1.09	0.97	1.24	0.13	(0.14)	1.23	1.20	1.21	0.03	0.02

LEHIGH COUNTY AUTHORITY
VARIANCE ANALYSIS - MONTH
For the Period Ended March 31, 2021

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	
911,784	878,000	33,784	Higher industrial/commercial/residential user volumes	
48,605	14,000	34,605	Higher tapping fees and higher inspection and review fees	
2,455	3,000	(545)		
962,844	895,000	67,844	Higher user volumes and higher connection and inspection/review fees	
238,962	251,000	12,038		
51,652	55,000	3,348		
44,366	45,000	634		
42,893	22,000	(20,893)	Higher pump supplies and higher fuel costs on fleet	
254,917	293,000	38,083	Lower maintenance services	
-	-	-		
217,141	217,000	(141)		
1,094	-	(1,094)		
-	6,000	6,000		
851,025	889,000	37,975	Lower personnel costs and lower services spending partially offset by higher spending on materials and supplies	
111,819	6,000	105,819	Higher operating revenues along with lower operating expenses	
9,735	11,000	(1,265)		
(103,258)	(115,000)	11,742		
(1,128)	-	(1,128)		
(94,651)	(104,000)	9,349	Lower interest expense	
17,168	(98,000)	115,168	Higher net operating profit aided by higher non-operating income	

962,844	895,000	67,844	Higher user charges and higher system charges
(633,884)	(672,000)	38,116	Lower personnel costs and lower spending on services partially offset by higher spending on materials and supplies
(301,650)	(309,439)	7,790	Slight favorable working capital variance
27,310	(86,439)	113,750	Higher operating revenues, lower operating expenses, and favorable working capital variance
-	-	-	
-	-	-	
(3,671)	(3,477)	(194)	
(31,346)	(30,844)	(502)	
(35,017)	(34,321)	(696)	Slightly higher interest and principal payments
(1,128)	-	(1,128)	
(339,703)	(349,083)	9,381	Lower Capex
(340,830)	(349,083)	8,253	Favorable capex variance and slightly unfavorable non-operating activity
-	-	-	
-	-	-	
9,735	11,000	(1,265)	
9,735	11,000	(1,265)	Lower interest income
(338,803)	(458,844)	120,041	Higher cash from operations and higher cash from capital related activities

LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - SUBURBAN WASTEWATER
For the Period Ended March 31, 2021

STATEMENTS OF ACTIVITIES	Suburban - Wastewater														
	Month					Year To Date					Full Year				
	Actual	Q1 FC	Prior Yr	FC Var	PY Var	Actual	Q1 FC	Prior Yr	FC Var	PY Var	Q1 FC	Budget	Prior Yr	Bud Var	PY Var
Operating Revenues:															
User Charges	1,510,273	1,535,000	1,233,718	(24,727)	276,555	4,309,148	4,554,000	3,858,406	(244,852)	450,742	18,959,000	19,166,369	16,185,466	(207,369)	2,773,534
Connection & System Charges	48,843	13,000	51,969	35,843	(3,126)	249,065	214,000	2,770,233	35,065	(2,521,168)	972,000	865,588	3,562,508	106,412	(2,590,508)
Other Miscellaneous Revenues	1,625	-	45	1,625	1,580	1,730	-	75	1,730	1,655	-	628	22,440	(628)	(22,440)
Total Operating Revenues	1,560,741	1,548,000	1,285,732	12,741	275,008	4,559,943	4,768,000	6,628,714	(208,057)	(2,068,771)	19,931,000	20,032,585	19,770,413	(101,585)	160,587
Operating Expenses:															
Personnel	113,224	134,000	51,114	20,776	(62,110)	333,660	376,000	179,292	42,340	(154,367)	1,731,000	1,760,954	1,330,832	29,954	(400,168)
Shared Services - General & Administrative	23,617	13,000	62,281	(10,617)	38,663	50,368	36,000	133,713	(14,368)	83,345	153,000	155,415	142,031	2,415	(10,969)
Utilities	25,988	37,000	23,147	11,012	(2,840)	75,299	95,000	69,137	19,701	(6,162)	428,000	449,484	296,419	21,484	(131,581)
Materials and Supplies	35,433	54,000	30,194	18,567	(5,239)	63,975	115,000	69,646	51,025	5,672	601,000	649,208	376,802	48,208	(224,198)
Miscellaneous Services	480,339	517,000	488,508	36,661	8,168	1,368,660	1,484,000	1,334,804	115,340	(33,856)	6,137,000	6,209,376	6,048,191	72,376	(88,809)
Treatment and Transportation	228,151	228,000	240,000	(151)	11,849	690,000	799,000	720,000	109,000	30,000	3,981,000	3,977,539	2,906,957	(3,461)	(1,074,043)
Depreciation and Amortization	384,727	379,000	383,460	(5,727)	(1,267)	1,154,181	1,143,000	1,150,380	(11,181)	(3,801)	4,619,000	4,616,783	5,947,005	(2,217)	1,328,005
Major Maintenance Expenses	4,973	5,000	6,032	27	1,059	12,310	11,000	10,624	(1,310)	(1,686)	916,000	1,000,000	-	84,000	(916,000)
Other Miscellaneous	-	4,000	-	4,000	-	-	8,000	-	8,000	-	44,000	46,422	42,698	2,422	(1,302)
Total Operating Expenses	1,296,452	1,371,000	1,284,736	74,548	(11,716)	3,748,451	4,067,000	3,667,597	318,549	(80,855)	18,610,000	18,865,181	17,090,934	255,181	(1,519,066)
Net Operating Profit	264,288	177,000	996	87,288	263,292	811,492	701,000	2,961,117	110,492	(2,149,625)	1,321,000	1,167,404	2,679,479	153,596	(1,358,479)
Non-Operating Income (Expense)															
Interest Income	8,407	31,000	21,899	(22,593)	(13,492)	27,359	73,000	65,091	(45,641)	(37,731)	176,000	190,471	185,407	(14,471)	(9,407)
Interest (Expense)	(21,243)	(15,000)	(17,105)	(6,243)	(4,138)	(46,544)	(43,000)	(51,141)	(3,544)	4,596	(178,000)	(181,995)	(199,654)	3,995	21,654
Other Miscellaneous	(6,212)	-	7,796	(6,212)	(14,008)	(18,708)	(6,000)	16,153	(12,708)	(34,861)	(6,000)	-	16,089	(6,000)	(22,089)
Net Non-Operating Income (Expense)	(19,048)	16,000	12,590	(35,048)	(31,638)	(37,893)	24,000	30,103	(61,893)	(67,996)	(8,000)	8,475	1,842	(16,475)	(9,842)
Net Income (Loss)	245,240	193,000	13,586	52,240	231,654	773,599	725,000	2,991,220	48,599	(2,217,621)	1,313,000	1,175,879	2,681,321	137,121	(1,368,321)
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	1,560,741	1,548,000	1,285,732	12,741	275,008	4,559,943	4,768,000	6,628,714	(208,057)	(2,068,771)	19,931,000	20,032,585	19,770,413	(101,585)	160,587
Operating Expenses (ex D&A)	(911,725)	(992,000)	(901,276)	80,275	(10,449)	(2,594,270)	(2,924,000)	(2,517,217)	329,730	(77,054)	(13,991,000)	(14,248,398)	(11,143,929)	257,398	(2,847,071)
Non-Cash Working Capital Changes	(225,200)	(225,017)	(503,688)	(183)	278,487	(578,744)	(610,205)	(2,403,454)	31,461	1,824,709	3,995	(0)	(833,441)	3,995	837,436
Net Cash Provided by (Used in) Operating Activities	423,815	330,983	(119,231)	92,832	543,046	1,386,929	1,233,795	1,708,044	153,134	(321,115)	5,943,995	5,784,186	7,793,043	159,808	(1,849,048)
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Payments	(21,245)	(15,166)	-	(6,079)	(21,245)	(46,552)	(45,499)	(42,401)	(1,053)	(4,151)	(181,995)	(181,995)	(164,692)	-	(17,304)
Principal Payments	(45,576)	(45,753)	(44,505)	177	(1,071)	(136,456)	(137,259)	(137,530)	802	1,073	(549,034)	(549,034)	(542,065)	-	(6,969)
Net Cash Provided by (Used in) Financing Activities	(66,821)	(60,919)	(44,505)	(5,902)	(22,316)	(183,008)	(182,757)	(179,931)	(251)	(3,078)	(731,029)	(731,029)	(706,757)	-	(24,272)
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	(6,212)	-	7,796	(6,212)	(14,008)	(18,708)	(6,000)	16,153	(12,708)	(34,861)	(6,000)	-	16,089	(6,000)	(22,089)
Capital Expenditures, net	(484,185)	(483,817)	(1,035,761)	(368)	551,576	(609,230)	(611,450)	(1,577,690)	2,220	968,460	(3,005,800)	(2,921,800)	(8,381,452)	(84,000)	5,375,652
Net Cash Provided By (Used In) Capital and Related Activities	(490,397)	(483,817)	(1,027,965)	(6,580)	537,568	(627,937)	(617,450)	(1,561,536)	(10,487)	933,599	(3,011,800)	(2,921,800)	(8,365,363)	(90,000)	5,353,563
Cash Flows From Investing Activities															
Investments Converting To Cash	-	-	739,000	-	(739,000)	743,000	-	1,237,000	743,000	(494,000)	-	-	5,156,000	-	(5,156,000)
Purchased Investments	-	-	-	-	-	(1,486,000)	-	(1,233,000)	(1,486,000)	(253,000)	-	-	(3,653,000)	-	3,653,000
Interest Income	8,407	31,000	21,899	(22,593)	(13,492)	27,359	73,000	65,091	(45,641)	(37,731)	176,000	190,471	185,407	(14,471)	(9,407)
Net Cash Provided By (Used In) Investing Activities	8,407	31,000	760,899	(22,593)	(752,492)	(715,641)	73,000	69,091	(788,641)	(784,731)	176,000	190,471	1,688,407	(14,471)	(1,512,407)
FUND NET CASH FLOWS	(124,996)	(182,753)	(430,803)	57,757	305,807	(139,657)	506,588	35,667	(646,245)	(175,325)	2,377,166	2,321,828	409,330	55,338	1,967,836
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	1,510,273	1,535,000	1,233,718	(24,727)	276,555	4,309,148	4,554,000	3,858,406	(244,852)	450,742	18,959,000	19,166,369	16,185,466	(207,369)	2,773,534
Operating Expenses (Cash Based)	(911,725)	(992,000)	(901,276)	80,275	(10,449)	(2,594,270)	(2,924,000)	(2,517,217)	329,730	(77,054)	(13,991,000)	(14,248,398)	(11,143,929)	257,398	(2,847,071)
Interest Income	8,407	31,000	21,899	(22,593)	(13,492)	27,359	73,000	65,091	(45,641)	(37,731)	176,000	190,471	185,407	(14,471)	(9,407)
Annual Lease Payment (City)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Operating Revenues (Expenses)	44,256	13,000	59,810	31,256	(15,555)	232,087	208,000	2,786,461	24,087	(2,554,374)	966,000	866,216	3,601,037	99,784	(2,635,037)
Cash Available For Debt Service	651,210	587,000	414,151	64,210	237,059	1,974,325	1,911,000	4,192,741	63,325	(2,218,416)	6,110,000	5,974,657	8,827,981	135,343	(2,717,981)
Interest Paid	15,166	15,166	13,724	-	1,442	45,499	45,499	41,173	-	4,326	181,995	181,995	164,692	-	17,304
Debt Retirement (Principal Payments)	45,753	45,753	45,172	-	581	137,259	137,259	135,516	-	1,742	549,034	549,034	542,065	-	6,969
Total Debt Service	60,919	60,919	58,896	-	2,023	182,757	182,757	176,689	-	6,068	731,029	731,029	706,757	-	24,272
Debt Service Ratio	10.69	9.64	7.03	1.05	3.66	10.80	10.46	23.73	0.35	(12.93)	8.36	8.17	12.49	0.19	(4.13)

LEHIGH COUNTY AUTHORITY
VARIANCE ANALYSIS - MONTH
For the Period Ended March 31, 2021

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	
1,510,273	1,535,000	(24,727)	Lower municipal charges and lower hauler revenues mostly recovered by higher residential/commercial revenues and higher penalties	
48,843	13,000	35,843	Higher tapping fees	
1,625	-	1,625		
1,560,741	1,548,000	12,741	Higher connection & system charges more than offset lower user charges	
113,224	134,000	20,776	Lower salaries & wages	
23,617	13,000	(10,617)		
25,988	37,000	11,012		
35,433	54,000	18,567	Lower spending on purification chemicals and supplies	
480,339	517,000	36,661	Lower contract operating services	
228,151	228,000	(151)		
384,727	379,000	(5,727)		
4,973	5,000	27		
-	4,000	4,000		
1,296,452	1,371,000	74,548	Lower personnel costs, lower utilities, and lower spending on materials/supplies and services partially offset by higher G&A	
264,288	177,000	87,288	Higher operating revenues and lower operating expenses	
8,407	31,000	(22,593)		
(21,243)	(15,000)	(6,243)		
(6,212)	-	(6,212)		
(19,048)	16,000	(35,048)	Lower interest income and higher interest expense	
245,240	193,000	52,240	Higher net operating profit partially eroded by unfavorable non-operating activity	
1,560,741	1,548,000	12,741		
(911,725)	(992,000)	80,275		
(225,200)	(225,017)	(183)		
423,815	330,983	92,832	Higher operating revenues along with lower operating expenses	
-	-	-		
-	-	-		
(21,245)	(15,166)	(6,079)		
(45,576)	(45,753)	177		
(66,821)	(60,919)	(5,902)	Higher interest payments	
(6,212)	-	(6,212)		
(484,185)	(483,817)	(368)	No major capex variance	
(490,397)	(483,817)	(6,580)	Unfavorable non-operating activity	
-	-	-		
-	-	-		
8,407	31,000	(22,593)		
8,407	31,000	(22,593)	Lower interest income	
(124,996)	(182,753)	57,757	Higher cash from operations partially eroded by lower cash from financing activity, lower other non-operating activity and lower cash from investing activity	

LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - CITY DIVISION
For the Period Ended March 31, 2021

STATEMENTS OF ACTIVITIES	City Division														
	Month					Year To Date					Full Year				
	Actual	Q1 FC	Prior Yr	FC Var	PY Var	Actual	Q1 FC	Prior Yr	FC Var	PY Var	Q1 FC	Budget	Prior Yr	Bud Var	PY Var
Operating Revenues:															
User Charges	3,245,878	3,657,000	3,224,776	(411,122)	21,101	9,777,951	10,404,000	9,295,897	(626,049)	482,055	41,810,000	41,996,514	37,987,232	(186,514)	3,822,768
Connection & System Charges	129,178	137,000	127,778	(7,822)	1,399	729,031	547,000	386,586	182,031	342,445	3,991,000	3,947,981	2,767,986	43,019	1,223,014
Other Miscellaneous Revenues	3,420	5,000	5,090	(1,580)	(1,670)	11,400	14,000	13,115	(2,600)	(1,715)	59,000	59,249	48,120	(249)	10,880
Total Operating Revenues	3,378,475	3,799,000	3,357,645	(420,525)	20,830	10,518,382	10,965,000	9,695,598	(446,618)	822,784	45,860,000	46,003,744	40,803,339	(143,744)	5,056,661
Operating Expenses:															
Personnel	995,526	876,000	1,213,653	(119,526)	218,127	2,544,742	2,427,000	2,259,245	(117,742)	(285,497)	11,467,000	11,561,494	10,745,135	94,494	(721,865)
Shared Services - General & Administrative	164,509	145,000	(6,749)	(19,509)	(171,258)	357,254	355,000	802,995	(2,254)	445,741	1,660,000	1,739,417	1,575,917	79,417	(84,083)
Utilities	155,606	180,000	153,485	24,394	(2,121)	524,959	545,000	450,717	20,041	(74,241)	2,165,000	2,156,620	1,815,047	(8,380)	(349,953)
Materials and Supplies	167,636	165,000	143,727	(2,636)	(23,909)	295,223	302,000	300,210	6,777	4,987	1,828,000	1,932,267	1,464,251	104,267	(363,749)
Miscellaneous Services	118,477	160,500	73,476	42,023	(45,001)	239,486	289,000	219,840	49,514	(19,646)	1,773,500	1,813,371	1,794,424	39,871	20,924
Treatment and Transportation	-	1,000	-	1,000	-	-	2,000	-	2,000	-	11,000	12,000	11,926	1,000	926
Depreciation and Amortization	491,154	491,000	490,000	(154)	(1,154)	1,473,462	1,473,000	1,470,000	(462)	(3,462)	5,892,000	5,893,862	5,756,210	1,862	(135,790)
Major Maintenance Expenses	12,967	45,000	47,350	32,033	34,384	25,755	95,000	92,775	69,245	67,020	500,000	542,924	-	42,924	(500,000)
Other Miscellaneous	-	1,000	-	1,000	-	-	2,000	-	2,000	-	2,121,000	2,123,972	2,206,837	2,972	85,837
Total Operating Expenses	2,105,875	2,064,500	2,114,943	(41,375)	9,068	5,460,881	5,490,000	5,595,783	29,119	134,901	27,417,500	27,775,926	25,369,748	358,426	(2,047,752)
Net Operating Profit	1,272,600	1,734,500	1,242,702	(461,900)	29,898	5,057,501	5,475,000	4,099,815	(417,499)	957,686	18,442,500	18,227,817	15,433,590	214,683	3,008,910
Non-Operating Income (Expense)															
Interest Income	665	-	29,281	665	(28,615)	1,748	2,000	152,298	(252)	(150,551)	112,000	172,960	162,074	(60,960)	(50,074)
Interest (Expense)	(1,382,735)	(1,383,000)	(1,453,283)	265	70,548	(4,148,205)	(4,149,000)	(4,359,849)	795	211,644	(17,535,086)	(17,535,086)	(14,701,033)	-	(2,834,053)
Other Miscellaneous	-	-	-	-	-	-	-	7,315	-	(7,315)	-	-	(1,999,362)	-	1,999,362
Net Non-Operating Income (Expense)	(1,382,070)	(1,383,000)	(1,424,003)	930	41,933	(4,146,457)	(4,147,000)	(4,200,236)	543	53,778	(17,423,086)	(17,362,125)	(16,538,321)	(60,960)	(884,765)
Net Income (Loss)	(109,469)	351,500	(181,300)	(460,969)	71,831	911,043	1,328,000	(100,421)	(416,957)	1,011,464	1,019,414	865,692	(1,104,731)	153,722	2,124,145
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	3,378,475	3,799,000	3,357,645	(420,525)	20,830	10,518,382	10,965,000	9,695,598	(446,618)	822,784	45,860,000	46,003,744	40,803,339	(143,744)	5,056,661
Operating Expenses (ex D&A)	(1,614,721)	(1,573,500)	(1,624,943)	(41,221)	10,222	(3,987,419)	(4,017,000)	(4,125,783)	29,581	138,363	(21,525,500)	(21,882,064)	(19,613,539)	356,564	(1,911,961)
Non-Cash Working Capital Changes	743,509	243,792	375,881	499,717	367,628	(315,237)	(804,625)	(1,177,784)	489,388	862,547	(67,119)	50,000	(2,404,261)	(117,120)	2,337,142
Net Cash Provided by (Used in) Operating Activities	2,507,263	2,469,292	2,108,583	37,971	398,680	6,215,725	6,143,375	4,392,031	72,350	1,823,694	24,267,381	24,171,680	18,785,539	95,701	5,481,842
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	-	-	2,000,000
Interest Payments	-	-	-	-	-	-	-	-	-	-	(11,565,086)	(11,565,086)	(10,651,666)	-	(913,420)
Principal Payments	-	-	-	-	-	-	-	-	-	-	(2,660,831)	(2,660,831)	(1,149,035)	-	(1,511,796)
Net Cash Provided by (Used in) Financing Activities	-	-	-	-	-	-	-	-	-	-	(12,225,917)	(12,225,917)	(11,800,701)	-	(425,216)
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	-	-	-	-	-	-	-	7,315	-	(7,315)	(1,230,600)	(1,230,600)	(1,999,362)	-	768,762
Capital Expenditures, net	(422,946)	(423,792)	(172,459)	846	(250,487)	(836,066)	(903,375)	(277,969)	67,309	(558,097)	(6,224,576)	(6,224,576)	(3,028,551)	-	(3,196,025)
Net Cash Provided By (Used In) Capital and Related Activities	(422,946)	(423,792)	(172,459)	846	(250,487)	(836,066)	(903,375)	(270,654)	67,309	(565,412)	(7,455,176)	(7,455,176)	(5,027,913)	-	(2,427,263)
Cash Flows From Investing Activities															
Investments Converting To Cash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Purchased Investments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	665	-	29,281	665	(28,615)	1,748	2,000	152,298	(252)	(150,551)	112,000	172,960	162,074	(60,960)	(50,074)
Net Cash Provided By (Used In) Investing Activities	665	-	29,281	665	(28,615)	1,748	2,000	152,298	(252)	(150,551)	112,000	172,960	162,074	(60,960)	(50,074)
FUND NET CASH FLOWS	2,084,983	2,045,500	1,965,404	39,483	119,578	5,381,407	5,242,000	4,273,676	139,407	1,107,731	4,698,288	4,663,547	2,118,999	34,740	2,579,289
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	3,245,878	3,657,000	3,224,776	(411,122)	21,101	9,777,951	10,404,000	9,295,897	(626,049)	482,055	41,810,000	41,996,514	37,987,232	(186,514)	3,822,768
Operating Expenses (Cash Based)	(1,614,721)	(1,573,500)	(1,624,943)	(41,221)	10,222	(3,987,419)	(4,017,000)	(4,125,783)	29,581	138,363	(21,525,500)	(21,882,064)	(19,613,539)	356,564	(1,911,961)
Interest Income	665	-	29,281	665	(28,615)	1,748	2,000	152,298	(252)	(150,551)	112,000	172,960	162,074	(60,960)	(50,074)
Annual Lease Payment (City)	-	-	-	-	-	(210,107)	(140,312)	-	(69,795)	(210,107)	(398,325)	(398,325)	3,048,411	-	(3,446,736)
Non-Operating Revenues (Expenses)	132,598	142,000	132,869	(9,402)	(271)	740,431	561,000	407,017	179,431	333,414	4,050,000	4,007,230	816,744	42,770	3,233,256
Cash Available For Debt Service	1,764,420	2,225,500	1,761,983	(461,080)	2,437	6,322,603	6,809,688	5,729,429	(487,085)	593,175	24,048,175	23,896,315	22,400,923	151,860	1,647,252
Interest Paid	1,144,745	1,144,745	887,639	-	257,106	2,891,272	2,891,272	2,662,917	-	228,355	11,565,086	11,565,086	10,651,666	-	913,420
Debt Retirement (Principal Payments)	205,124	205,124	95,753	-	109,371	665,208	665,208	287,259	-	377,949	2,660,831	2,660,831	1,149,035	-	1,511,796
Total Debt Service	1,349,869	1,349,869	983,392	-	366,477	3,556,479	3,556,479	2,950,175	-	606,304	14,225,917	14,225,917	11,800,701	-	2,425,216
Debt Service Ratio	1.31	1.65	1.79	(0.34)	(0.48)	1.78	1.91	1.94	(0.14)	(0.16)	1.69	1.68	1.90	0.01	(0.21)

LEHIGH COUNTY AUTHORITY
VARIANCE ANALYSIS - MONTH
For the Period Ended March 31, 2021

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	
3,245,878	3,657,000	(411,122)	Unfavorably impacted by a \$500k adjustment for the funding of the hardship fund. Other operating revenue activity was \$89k favorable to forecast	
129,178	137,000	(7,822)	Lower tapping fees	
3,420	5,000	(1,580)		
3,378,475	3,799,000	(420,525)	Lower user charges from the \$500k doubtful accounts provision adjustment	
995,526	876,000	(119,526)	Unfavorable fringe benefit true-up	
164,509	145,000	(19,509)	Higher G&A from other functions	
155,606	180,000	24,394		
167,636	165,000	(2,636)		
118,477	160,500	42,023	Lower maintenance services	
-	1,000	1,000		
491,154	491,000	(154)		
12,967	45,000	32,033		
-	1,000	1,000		
2,105,875	2,064,500	(41,375)	Unfavorable personnel cost and G&A variance partially offset by favorable variances for utilities, services, and major maintenance	
1,272,600	1,734,500	(461,900)	Lower operating revenues and lower operating expenses	
665	-	665		
(1,382,735)	(1,383,000)	265		
-	-	-		
(1,382,070)	(1,383,000)	930	No major variances	
(109,469)	351,500	(460,969)	Lower net operating profit	
3,378,475	3,799,000	(420,525)	Negative variance from \$500k provision adjustment	
(1,614,721)	(1,573,500)	(41,221)		
743,509	243,792	499,717	Negatively impacted by Hardship funding of \$500k	
2,507,263	2,469,292	37,971	Favorable variance from other operating revenues outside of \$500k hardship funding	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
(422,946)	(423,792)	846		
(422,946)	(423,792)	846	Slightly lower capex	
-	-	-		
-	-	-		
665	-	665		
665	-	665	Slightly higher interest income	
2,084,983	2,045,500	39,483	Higher cash from operations	

LEHIGH COUNTY AUTHORITY
CASH & INVESTMENT SUMMARY
For the Period Ended March 31, 2021

	Suburban Water				Suburban Wastewater				City Division				Total			
	3/31/2021 Actual	2021 Forecast	2021 Budget	2020 Actual	3/31/2021 Actual	2021 Forecast	2021 Budget	2020 Actual	3/31/2021 Actual	2021 Forecast	2021 Budget	2020 Actual	3/31/2021 Actual	2021 Forecast	2021 Budget	2020 Actual
Cash																
Operating																
Unrestricted	7,038,344	3,833,721	1,173,430	5,472,832	(3,016,447)	(499,582)	4,315,728	(124,835)	6,018,930	10,613,030	19,638,366	1,461,088	9,985,970	13,947,170	25,127,525	6,809,085
Restricted	-	-	2,532,181	-	-	272	0	272	16,760,491	12,907,772	1,614,754	23,992,617	-	-	-	-
Total Operating	7,038,344	3,833,721	3,705,611	5,472,832	(3,016,447)	(499,310)	4,315,728	(124,563)	22,779,421	23,520,802	21,253,120	25,453,705	9,985,970	13,947,170	25,127,525	6,809,085
Capital																
Unrestricted	319,626	319,626	2,037,248	2,037,248	10,423,932	10,423,932	7,672,019	7,672,019	6,042,809	6,042,809	169,980	169,980	16,786,367	16,786,367	9,879,247	9,879,247
Restricted	95,417	-	-	-	338,245	337,932	337,932	337,932	7,500,058	7,500,058	7,500,000	7,500,000	7,933,720	7,837,990	7,837,932	7,837,932
Total Capital	415,043	319,626	2,037,248	2,037,248	10,762,177	10,761,864	8,009,951	8,009,951	13,542,867	13,542,867	7,669,980	7,669,980	24,720,087	24,624,356	17,717,179	17,717,179
Other Restricted																
Debt Reserves	1,499,856	1,499,820	1,043,094	1,499,820	-	-	-	-	30,637,473	29,212,973	37,684,197	28,454,669	32,137,330	30,712,793	38,727,291	29,954,489
Escrow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Other Restricted	1,499,856	1,499,820	1,043,094	1,499,820	-	-	-	-	30,637,473	29,212,973	37,684,197	28,454,669	32,137,330	30,712,793	38,727,291	29,954,489
Total Cash	8,953,243	5,653,167	6,785,954	9,009,900	7,745,730	10,262,553	12,325,679	7,885,388	66,959,761	66,276,642	66,607,297	61,578,354	66,843,386	69,284,319	81,571,995	54,480,754
Investments																
Operating																
Unrestricted	1,984,874	1,742,749	2,136,930	1,742,749	-	5,387,745	6,757,276	5,387,745	-	-	-	-	1,984,874	7,130,494	8,894,206	7,130,494
Restricted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating	1,984,874	1,742,749	2,136,930	1,742,749	-	5,387,745	6,757,276	5,387,745	-	-	-	-	1,984,874	7,130,494	8,894,206	7,130,494
Capital																
Unrestricted	1,000,032	1,000,000	1,000,000	1,000,000	6,894,038	1,000,000	1,000,000	1,000,000	-	-	-	-	7,894,070	2,000,000	2,000,000	2,000,000
Restricted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Capital	1,000,032	1,000,000	1,000,000	1,000,000	6,894,038	1,000,000	1,000,000	1,000,000	-	-	-	-	7,894,070	2,000,000	2,000,000	2,000,000
Other Restricted																
Debt Reserves	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Escrow	4,824,913	4,474,010	4,236,279	4,474,010	-	-	-	-	-	-	-	-	4,824,913	4,474,010	4,236,279	4,474,010
Total Other Restricted	4,824,913	4,474,010	4,236,279	4,474,010	-	-	-	-	-	-	-	-	4,824,913	4,474,010	4,236,279	4,474,010
Total Investments	7,809,819	7,216,759	7,373,209	7,216,759	6,894,038	6,387,745	7,757,276	6,387,745	-	-	-	-	14,703,857	13,604,504	15,130,485	13,604,504
Total Cash and Investments	16,763,062	12,869,926	14,159,163	16,226,659	14,639,768	16,650,299	20,082,955	14,273,133	66,959,761	66,276,642	66,607,297	61,578,354	81,547,243	82,888,823	96,702,480	68,085,258
Summary																
Cash																
Unrestricted	7,357,970	4,153,347	3,210,679	7,510,080	7,407,485	9,924,350	11,987,747	7,547,184	12,061,739	16,655,840	19,808,346	1,631,068	26,772,337	30,733,537	35,006,772	16,688,333
Restricted	1,595,273	1,499,820	3,575,275	1,499,820	338,245	338,204	337,932	338,204	54,898,022	49,620,802	46,798,951	59,947,286	56,831,541	51,458,826	50,712,158	61,785,310
Total Cash	8,953,243	5,653,167	6,785,954	9,009,900	7,745,730	10,262,553	12,325,679	7,885,388	66,959,761	66,276,642	66,607,297	61,578,354	83,603,878	82,192,362	85,718,930	78,473,642
Investments																
Unrestricted	2,984,906	2,742,749	3,136,930	2,742,749	6,894,038	6,387,745	7,757,276	6,387,745	-	-	-	-	9,878,944	9,130,494	10,894,206	9,130,494
Restricted	4,824,913	4,474,010	4,236,279	4,474,010	-	-	-	-	-	-	-	-	4,824,913	4,474,010	4,236,279	4,474,010
Total Investments	7,809,819	7,216,759	7,373,209	7,216,759	6,894,038	6,387,745	7,757,276	6,387,745	-	-	-	-	14,703,857	13,604,504	15,130,485	13,604,504
Total Cash and Investments	16,763,062	12,869,926	14,159,163	16,226,659	14,639,768	16,650,299	20,082,955	14,273,133	66,959,761	66,276,642	66,607,297	61,578,354	98,307,734	95,796,867	100,849,415	92,078,146

Presented: April 26, 2021

Critical Activities	System	Description	Mar-21	2021 Totals	2020 Totals	Permit
			Daily Avg (MGD)	Daily Avg (MGD)	Daily Avg (MGD)	Daily Max (MGD)
Water Production	Allentown	Total	21.08	21.24	21.37	39.0
		Schantz Spring	8.00	7.72	7.31	9.0
		Crystal Spring	3.74	3.69	3.80	4.0
		Little Lehigh Creek	9.30	9.76	10.17	30.0
		Lehigh River	0.04	0.06	0.09	28.0
	Central Lehigh	Total	10.60	10.07	10.24	19.04 MGD Avg
		Feed from Allentown	7.18	6.87	6.71	7.0 MGD Avg 10.5 MGD Max
		Well Production (CLD)	3.42	3.19	3.53	8.54 MGD Avg
		Sum of all (12) other Suburban Water Systems	0.12	0.13	0.15	1.71 Sum of all wells
Wastewater Treatment		Kline's Island	37.59	34.28	32.27	40.0
		Pretreatment Plant	5.97	5.25	4.94	5.75 (design capacity)
		Sum of all (5) other Suburban WW Systems	0.29	0.23	0.21	0.36
			Mar-21	2021 Totals	2020 Totals	2019 Totals
Precipitation Totals (inches)			2.93	10.13	49.57	60.66
Compliance Reports Submitted to Allentown			38	85	275	278
Notices of Violation (NOVs)		(Allentown + Suburban)	0	0	2	1
Sanitary Sewer Overflows (SSOs)/Bypasses		(Allentown + Suburban)	3	4	44	37
Main Breaks Repaired		Allentown	2	15	19	20
		Suburban	1	4	17	12
Customer Service Phone Inquiries		(Allentown + Suburban)	1,813	4,827	16,772	22,992
Water Shutoffs for Non-Payment		(Allentown + Suburban)	0	0	280	1,956
Injury Accidents		(Allentown + Suburban)	1	5	10	10
Emergency Declarations		Allentown	0	0	(4)@\$750,058	(2)@ \$152,053
		Suburban	0	0	(1)@\$110,000	(1) @ \$19,335
Significant Repairs/Upgrades: Nothing to report.						
Description of NOVs and/or SSOs: There were two (2) SSOs and (1) bypass during March, 2021. Both bypasses occurred on 3/23/2021 and resulted during trial runs for the Park Pump Station Force Main Assessment project. An estimated 7,250 gallons were released immediately downstream of the PPS. There was one (1) bypass that occurred on 3/27/2021 at the Allentown WWTP. A very small amount of flow was discharged via Outfall 003 due to fault in the Climber Screen.						
Other Highlights: During March, there were multiple project meetings between LCA, Arcadis and contractors Blooming Glen and Franc Environmental. The purpose of these meetings was to prepare for a full scale condition assessment on the Park Pump Station Force Main. There were multiple trial runs during March that were conducted to find out how long we could take the PPS out of service before we risked SSOs. Unfortunately, the trial run on 3/23/2021 ran too close to the breakpoint and two small SSOs resulted. The condition assessment, which was conducted on April 10, 2021, will include an engineering assessment of the FM.						