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Agendas & Minutes Posted:
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LEHIGH COUNTY AUTHORITY

Published: January 6, 2025

BOARD MEETING AGENDA – January 13, 2025 – 12:00 p.m.

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

1. Call to Order

- **NOTICE OF MEETING RECORDINGS**

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

- *Public Participation Sign-In Request*

2. Review of Agenda / Executive Sessions

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

3. Approval of Minutes

- *December 9, 2024 Board Meeting minutes*

4. Public Comments

5. Action / Discussion Items:

FINANCE AND ADMINISTRATION

SPECIAL AGENDA ITEM – LEAD SERVICE LINE REPLACEMENT, CYCLE 1

- *Rescinding Approval for Resolution 11-2024-2: Revised Borrowing Resolution, PENNVEST Financing (Approval) (yellow) (digital Board packet, pages 8-14)*
- *Allentown Water & Sewer Lease Bonds, Trust Indenture Amendment: Bondholder Consent Process Authorization (Discussion)*
- *Capital Project Authorization Amendment – Construction Phase (Approval) (blue) (digital Board packet, pages 15-19)*

WATER

WASTEWATER

- *Regional Sewer Capacity & Wet-Weather Planning – Regional Act 537 Plan Preparation (Discussion)*

6. Monthly Project Updates / Information Items (1st Board meeting per month) (*digital Board packet, pages 20-27*) – **January report attached**
7. Monthly Financial Review (2nd Board meeting per month)
8. Monthly System Operations Overview (2nd Board meeting per month)
9. Staff Comments
10. Solicitor's Comments
11. Public Comments / Other Comments
12. Board Member Comments
13. Executive Sessions
14. Adjournment

UPCOMING BOARD MEETINGS		
January 27, 2025	February 10, 2025	February 24, 2025

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

December 9, 2024

The Regular Meeting of the Lehigh County Authority Board of Directors was called to order at 12:00 p.m. on Monday, December 9, 2024, Chairman Brian Nagle presiding. The meeting was hybrid via in-person and video and audio advanced communication technology ("ACT"), using the Zoom internet application, including telephone option. Each Board member and other attendees of the meeting were able to hear each other attendee and be heard by each other attendee. The public could also participate in the meeting in-person or via ACT, using the Zoom internet application, including telephone option. A Roll Call of Board members present was taken. Brian Nagle, Amir Famili, Jeff Morgan, Norma Cusick, Linda Rosenfeld, and Sean Ziller were present for Roll Call, and remained for the duration of the meeting. Ted Lyons was present for Roll Call but left the meeting at 12:22 p.m. Kevin Baker entered the meeting at 12:08 p.m. and was present for the duration of the meeting.

Attorney Kevin Reid, the Authority's Solicitor, was present along with Authority Staff, Liesel Gross, Ed Klein, Andrew Moore, Chris Moughan, AJ Capuzzi, Chuck Volk, Phil DePoe, Susan Sampson, and Lisa Miller.

Chairman Nagle announced that the Board received their electronic and hard copies of the Board packet in advance. A copy of the packet is also available online.

REVIEW OF AGENDA

Chairman Nagle announced that there was an Executive Session prior to the start of the regular meeting to discuss personnel. Liesel Gross added that there are no changes to the agenda and no additional Executive Session is planned.

APPROVAL OF MINUTES

November 11, 2024 Meeting Minutes

On a motion by Jeff Morgan, seconded by Amir Famili, the Board approved the minutes from the November 11, 2024 meeting as written (6-0). Linda Rosenfeld abstained.

PUBLIC COMMENTS

None.

SEIU Collective Bargaining Agreement: 2025-2027

Liesel Gross provided a brief overview of the Collective Bargaining Agreement between the Service Employees International Union (SEIU) and the Authority. A significant effort was made to negotiate a new contract and staff members who participated in the process are satisfied that the proposed terms of the new contract are favorable for the organization and its employees. There were a number of changes made to the contract related to the work environment, hours, employee safety, issues related to recruiting and employee retention, and wage adjustments which were included in the memo and attachments provided to the Board.

On a motion by Amir Famili, seconded by Linda Rosenfeld, the Board approved the new Collective Bargaining Agreement with SEIU for the years 2025 through 2027 in the substantial form presented, with such minor non-substantive revisions, if any, as approved by the Chief Executive Officer in consultation with the Authority Solicitor (7-0).

Resolution 12-2024-1: Adoption of 2024 Lehigh Valley Hazard Mitigation Plan

Liesel Gross explained that the Authority is a new participant in the development of a regional Hazard Mitigation Plan (Plan) which covers Lehigh County and Northampton County. In the most recent Plan update, the Authority participated in various meetings and submitted its capital plan for inclusion in the Plan. The regional Plan seeks to detail projects and programs that various municipalities and agencies will implement to improve resiliency to natural disasters such as flooding and prolonged power outages. Ms. Gross explained that the list of Authority projects included in the Plan are almost identical to the capital plan presented by Chuck Volk and his team in 2023. By having the Authority's projects included in the Plan, it makes the projects potentially eligible for grant funding offered by various state and federal emergency management agency programs. Ms. Gross noted that the Authority has already submitted letters of interest for grant funding for three projects included in the Plan: Redundant Power at Kline's Island Wastewater Treatment Plant, North Whitehall Water System Interconnection, and the Applewood Pump Station Upgrade.

On a motion by Linda Rosenfeld, seconded by Norma Cusick, the Board approved Resolution No. 12-2024-1 authorizing the adoption of the 2024 Lehigh Valley Hazard Mitigation Plan for Lehigh and Northampton Counties, in accordance with the Mitigation Act, and authorizing Authority officials to complete such acts consistent with the implementation of the plan (7-0).

Chairman Nagle noted that there is no alternate Authority contact person listed in the Plan. Ms. Gross said an alternate can be added to the Plan in a future update.

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

Brian Nagle – yes
Amir Famili – yes
Ted Lyons – yes
Jeff Morgan – yes
Norma Cusick – yes
Linda Rosenfeld – yes
Sean Ziller – yes

Resolution 12-2024-2: Customer Facility Fees & Connection Fees

Liesel Gross provided an overview of the Resolution to adopt updated customer facility fees and connection fees, known as tapping fees. If adopted, the fees will be adopted into the rate schedule effective January 1, 2025.

On a motion by Linda Rosenfeld, seconded by Norma Cusick, the Board approved Resolution No. 12-2024-2 which establishes the various components of the Lehigh County Authority Capital Recovery Fees for the City Division Water System Connection Fee and the Customer Facilities Fees for the City Division Water System and The Suburban Division Water and Wastewater Systems (7-0).

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

Brian Nagle – yes
Amir Famili – yes
Ted Lyons – yes
Jeff Morgan – yes
Norma Cusick – yes
Linda Rosenfeld – yes
Sean Ziller – yes

Capital Program Management Services

Chuck Volk provided an overview of the project that seeks additional resources and tools to enable better management of the Authority's growing capital program. Envision Consultants will develop a master schedule for all projects from the Capital Plan that includes all phases through construction, along with a scheduling standard process and format to be used by all consultants on future projects. They will also develop a template in MS Project/Primavera for the schedule conforming to the specification that engineers can use to build their project schedules. Mr. Volk said this will standardize the scheduling specifications and also help identify any scheduling conflicts or issues. Amir Famili asked what this program is going to do versus the ProCore software system that is also being implement. AJ Capuzzi explained that ProCore requires a project schedule to be inputted into the system, but does not provide a specific methodology to develop the schedule. The support provided by Envision will be to build out the project scheduling specifications that can be used to generate all project schedules for import into ProCore.

Jeff Morgan asked if the project should be funded through the Administrative capital budget instead of the Suburban Division as noted in the project memo. Ed Klein agreed the project costs should be covered in the Administrative capital budget.

There was some additional discussion about project reporting and the desire to have more project details visible in a summarized way for the Board and staff to review.

On a motion by Jeff Morgan, seconded by Amir Famili, the Board approved the Professional Services Authorization to Envision Consultants, Ltd. in the amount of \$54,065.00 (7-0).

Water Filtration Plant: PFAS Treatment

Amy Rohrbach provided a presentation and overview of the project to design a PFAS treatment system for the Crystal Spring groundwater source in the Allentown Division. A recently completed PFAS Compliance Study identified Crystal Spring as a source requiring treatment due to the exceedance of the new federal regulatory limits for PFAS. The study evaluated three removal technologies: Granular Activated Carbon (GAC), Anion Exchange resin (IX), and the novel absorbent, FLURO-SORB (FS). The GAC method was preferred due to the level of PFAS removal, the effectiveness of removing other contaminants, and its ability to be reactivated, which reduces the need for disposal of contaminated material.

Ms. Rohrbach reviewed the challenges to the project and also provided details on the testing that must be conducted during the design phase. Amir Famili asked how many facilities in the United States have installed a GAC system to remove PFAS, and what lessons learned from those installations can be applied to the Authority's project. Chris Curran from AECOM was present and noted there are quite a few GAC systems already in place around the nation being used for PFAS removal. GAC is also a very common treatment technology in place in water treatment facilities to remove other contaminants and to address taste and odor issues. He described the process of how GAC removes PFAS chemicals and noted the success rate is very high. There was additional discussion regarding the reactivation of the used carbon versus disposal.

Jennifer McKenna, City of Allentown Office of Compliance, asked why Hazen & Sawyer didn't participate in the proposal process for the design phase, since they had conducted the Compliance Study. AJ Capuzzi said there was a business decision on the part of the consultant, with no specific reason provided.

On a motion by Norma Cusick, seconded by Linda Rosenfeld, the Board approved the Capital Project Authorization for Design, Bidding and Funding Assistance Phase in the amount of

\$1,244,830.00 which includes the Professional Services Authorization to AECOM in the amount of \$1,069,830.00 (7-0).

Emmaus Interconnect

Phil DePoe and Andrew Moore provided a presentation to discuss the PFAS contamination in the Emmaus Consecutive Division. Mr. DePoe described the potential for an interconnection with the Authority's Central Lehigh Division. He noted there are approximately 85 Emmaus Consecutive Division customers in the area immediately adjacent to the Central Lehigh Division that could be served by an alternate source if the interconnection is constructed. This approach to reduce the customers' exposure to PFAS from the Borough of Emmaus water supply.

There was some discussion regarding the costs and benefits of this approach versus waiting for the Borough's PFAS treatment project to be completed. There are some additional long-term benefits related to system redundancy that might be achieved with an interconnection, but it is uncertain whether the interconnection could be constructed in time to provide a significant public health benefit.

Amir Famili asked if the interconnection would require additional workload or manpower to operate. Andrew Moore explained there would be no measurable change in workload. Chairman Nagle asked how the Borough of Emmaus feels about the potential interconnection. Ms. Gross said that there have been preliminary discussions with the Borough.

There was some discussion regarding the system structure of the Emmaus Consecutive Division, which is made up of several small sections of customers in neighborhoods surrounding the Borough in different locations. The interconnection described in this report is the only viable option that serves just a small portion of the total Emmaus Consecutive Division, which serves a total of 416 properties.

Andrew Moore described another option for addressing PFAS in this area through the use of point-of-use treatment devices. Commercially available water filter pitchers could be purchased and distributed to customers for a relatively modest cost. It would be up to the customer to ensure the filter cartridges are replaced on a regular basis to ensure continued PFAS removal. Chairman Nagle asked why the Borough is not providing pitchers to the customers. Liesel Gross noted that the Borough is focused on their treatment upgrade project and getting the project moving as quickly as possible.

There was additional discussion about the various options presented by the staff. Ms. Gross said that if the Authority wishes to move forward with the interconnection option, the project would need to be authorized quickly. She noted that the staff will review the Board's feedback. If any action is recommended, it will be brought back to the Board for consideration in January.

Wynnewood Terrace WWTP Expansion – Developer Cost-Sharing Agreement

Chuck Volk presented the project and provided an overview of the Design Phase Agreement. Access Rising Sun Associates, LLC is planning a 110-unit residential development in North Whitehall Township and seeks to utilize the Wynnewood Wastewater Treatment Plant (WWTP) for public sewer service. However, the plant currently only has capacity for an additional 50 equivalent dwelling units (EDUs). With the need for an additional 60 EDUs, the plant would need to be expanded. The developer's engineer, Ebert and Associates, is proposing to add a third 30,000-gallon Sequencing Batch Reactor (SBR) tank as part of the core design of the plan expansion. Mr. Volk said the Authority has looked at the engineer's credentials and are comfortable with the design. Mr. Volk said the plant would have to be re-rated and approved through the Pa. Department of Environmental Protection. The developer will have to go through the permitting process and design

process at their own expense. Kevin Reid added that the Agreement does not create a contractual agreement with the Authority and the developer. It also is limited to the design of the project. The developer will also have to post \$25,000.00 escrow for any costs incurred by the Authority.

On a motion by Jeff Morgan, seconded by Linda Rosenfeld, the Board approved the Design Phase Cost-Sharing Agreement with Access Rising Sun Associates, LLC for the Wynnewood WWTP Expansion at no cost to the Authority (7-0).

MONTHLY PROJECT UPDATES / INFORMATION ITEMS

Liesel Gross reviewed the December report and noted there are no additional items listed for action in December because this is the last meeting of the year. The monthly Financial and System Operations reports will be distributed and posted online.

STAFF COMMENTS

Liesel Gross wished everyone a happy holiday and a healthy, prosperous New Year.

SOLICITOR'S COMMENTS

Kevin Reid wished everyone a happy holiday and a healthy, prosperous New Year.

PUBLIC COMMENTS / OTHER COMMENTS

None.

BOARD MEMBER COMMENTS

Chairman Nagle wished everyone a happy holiday.

Sean Ziller thanked everyone for all their hard work this year.

EXECUTIVE SESSION

None.

ADJOURNMENT

There being no further business, the Chairman adjourned the meeting at 1:24 p.m.

Jeffrey J. Morgan
Secretary

MEMORANDUM

TO: LCA Board of Directors
FROM: Liesel Gross, CEO
DATE: January 6, 2025
RE: Rescinding Approval of Resolution 11-2024-2

Attached: Resolution 11-2024-2: Revised Borrowing Resolution, PENNVEST Financing, Lead Service Line Replacement Program, Cycle 1

Board Action Requested: Rescind Approval of Resolution 11-2024-2

At the November 11, 2024 meeting of the Lehigh County Authority (LCA) Board of Directors, Resolution 11-2024-2 was presented for approval. A copy of the Resolution is attached for reference. The Resolution served as official approval of LCA's acceptance of grant and loan funding from the Pennsylvania Infrastructure Investment Authority (Pennvest) for purposes of completing the Lead Service Line Replacement, Cycle 1 project. This Resolution was required in advance of the closing date for the funding, scheduled for November 14, 2024.

In the intervening period following the passage of the Resolution and the planned closing date, LCA was informed by Pennvest that a significant obstacle was discovered which would prevent the funding documents from being executed. The primary concern relayed to LCA related to the Allentown Water & Sewer Lease Bonds and associated Trust Indenture, which does not allow for adequate security for subordinate financing, such as the anticipated Pennvest grant and loan.

This obstacle was previously known and discussed in detail with Pennvest. A "work-around" solution was developed for a prior project funded by Pennvest in 2021. Another solution was identified in collaboration with Pennvest prior to LCA's application for funding for this project in mid-2023, involving the establishment of a debt service reserve fund. This solution was detailed in the subsequent funding offer from Pennvest and included in the authorization provided via Resolution 11-2024-2.

However, as the loan closing date drew near, it became clear that the previously arranged solution would no longer be acceptable to Pennvest. The closing was postponed to allow time to review alternatives. Upon LCA's review of several options with Pennvest, it was determined that there would be no avenue available to resolve the concern on a timely basis. In addition, the continued project delay has resulted in escalating project costs due

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to change order expenses expected to be incurred by the contractor, and additional fees associated with extended financial and legal counsel provided by LCA financial advisors, Solicitor, and bond counsel.

As a result, LCA staff have developed an alternative strategy for this project to support timely completion of the planned work in a cost-effective manner. Several actions are required to support the change, as outlined below and detailed in other action items included in the January 13, 2025 LCA Board meeting agenda:

- 1. Rescind Approval of Resolution 11-2024-2 (action recommended by this memo)**
2. Approval of Professional Services Authorization to retain specialized consultant support to investigate methods to amend the Trust Indenture associated with the Allentown Water & Sewer Lease Bonds
3. Termination of the construction contract with Pact One, LLC
4. Capital Project Authorization Amendment providing for staff-recommended alternative project delivery method

Items 2 through 4 are detailed in subsequent documentation and recommendations to the LCA Board. Regarding Item 1, LCA staff and Solicitor recommend the Board of Directors take action to rescind its prior approval of Resolution 11-2024-2 in order to formally notify Pennvest that LCA is no longer able to accept the grant and loan funding related to the Lead Service Line Replacement Program, Cycle 1 project. This action relates specifically and exclusively to the project discussed in this memo.

RESOLUTION No. 11-2024-2

Borrower Resolution

(Duly adopted 11 November 2024)

AUTHORIZING THE SECURING OF A LOAN FROM THE PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY ("PENNVEST") IN THE MAXIMUM PRINCIPAL AMOUNT OF \$1,555,508 (THE "LOAN") AND THE ACCEPTANCE OF A PRINCIPAL FORGIVENESS LOAN FROM PENNVEST IN THE MAXIMUM PRINCIPAL AMOUNT OF \$3,383,892 (THE "PFL") FOR THE PURPOSE OF PROVIDING FUNDS TO FINANCE THE REPLACEMENT OF LEAD SERVICE LINES OF THE ALLENTOWN WATER PLANT AND DISTRIBUTION SYSTEM, AND TO PAY COSTS AND EXPENSES OF SECURING SUCH FUNDING; AUTHORIZING THE EXECUTION AND DELIVERY OF A DEBT OBLIGATION OF THE AUTHORITY IN CONNECTION WITH THE LOAN; AUTHORIZING THE CREATION OF A DEBT SERVICE RESERVE FUND TO SECURE THE PAYMENT OF THE DEBT OBLIGATION; AUTHORIZING THE EXECUTION OF THE FUNDING DOCUMENTS, AND PROVIDING FOR THE AUTHENTICATION AND DELIVERY THEREOF; AUTHORIZING THE DISPOSITION OF THE FUNDING PROCEEDS RECEIVED OR TO BE RECEIVED FROM PENNVEST; AUTHORIZING AND DIRECTING THE PROPER OFFICERS OF THE AUTHORITY TO DO ALL THINGS NECESSARY TO CARRY OUT THIS RESOLUTION; AND RESCINDING ALL INCONSISTENT RESOLUTIONS.

WHEREAS, the Lehigh County Authority (the "Authority") is a body corporate and politic organized by the Board of County Commissioners of the County of Lehigh, Pennsylvania (the "County") under the provisions of the Pennsylvania Municipality Authorities Act, 53 Pa. C.S. §5601 et seq., as amended (the "Act"); and

WHEREAS, the City of Allentown, Pennsylvania (the "City") owns the Allentown Sewer Utility System and the Allentown Water Plant and Distribution System; and

WHEREAS, pursuant to the terms and conditions of the Allentown Water and Sewer Utility System Concession and Lease Agreement dated as of May 1, 2013, as amended, including by that Allentown Water and Sewer Utility System Amended and Restated Concession and Lease Agreement dated as of September 1, 2020, and effective as of September 17, 2020 (the "Concession Agreement"), by and between the City and the Authority, the City leased the Concessioned System (as defined in the Concession

Agreement) to the Authority, as concessionaire, and granted to the Authority the right to operate the Concessioned System in order to provide utility services and collect revenues therefrom and in connection therewith, all in accordance with the provisions of the Existing Concession Agreement (as defined in the Concession Agreement); and

WHEREAS, the Authority, in connection with the lease and operation of the Concessioned System pursuant to the Concession Agreement, has from time to time issued bonds under and pursuant to a Trust Indenture dated as of August 1, 2013, as supplemented by a First Supplemental Trust Indenture dated as of August 1, 2015, a Second Supplemental Trust Indenture dated as of October 1, 2018, a 2020-1 Supplemental Trust Indenture dated as of September 1, 2020, and a 2020-2 Supplemental Trust Indenture dated as of September 1, 2020, and as amended and restated by that Amended and Restated Trust Indenture between the Authority and Manufacturers and Traders Trust Company (the "Trustee"), dated as of September 1, 2020, and effective as of September 17, 2020, as further amended and supplemented by a 2023-1 Supplemental Trust Indenture, dated as of February 1, 2023 and a 2024-1 Supplemental Trust Indenture, dated as of March 1, 2024 (collectively, the "Indenture"); and

WHEREAS, the Indenture provides that the Authority, under certain conditions, may incur Subordinated Indebtedness outside of the Indenture, from time to time for any lawful purpose of the Authority; and

WHEREAS, in accordance with the Act and pursuant to the requirements of the Indenture, the Authority desires to incur Subordinate Indebtedness outside of the Indenture to undertake a project (the "Project") consisting of (i) the replacement of lead service lines of the Allentown Water Plant and Distribution System and (ii) the payment of the cost of issuing the Debt Obligation (hereinafter defined); and

WHEREAS, in order to finance the Project and any other costs and expenses and incurred by the Authority in connection with the PENNVEST Funding (hereinafter defined), the Authority intends to secure from the Pennsylvania Infrastructure Investment Authority ("PENNVEST") a loan in the maximum principal amount of \$1,555,508 (the "Loan") and a principal forgiveness loan in the maximum principal amount of \$3,383,892 (the "PFL," and together with the Loan, the "PENNVEST Funding"), such Loan to be evidenced by a Subordinate Lien Sewer and Water Revenue Bond (City of Allentown Concession), Series of 2024 (Pennsylvania Infrastructure Investment Authority) (the "Debt Obligation"); and

WHEREAS, in connection with the PENNVEST Funding, the Authority and PENNVEST shall enter into a Master Consent (the "Master Consent") modifying the Funding Agreement (hereinafter defined) and acknowledging certain provisions of the Indenture; and

WHEREAS, the Debt Obligation shall be issued outside of the Indenture and shall be secured by a lien on the Concession Revenues, as defined in the Indenture (known herein as the "Project Collateral") that is by its terms expressly subordinated to the lien of the Indenture and the Concession Revenues; and

WHEREAS, pursuant to the foregoing, the Debt Obligation constitutes "Subordinated Indebtedness" of the Authority, in accordance with Section 3.05 of the Indenture, which is both outside of and subordinate to the lien of the Indenture, and therefore, as "Subordinated Indebtedness" that is outside of the Indenture, the Debt Obligation shall not constitute "Additional Bonds" under the Indenture; and

WHEREAS, in addition to the Project Collateral, the Debt Obligation shall be secured by (1) a minimum one-year debt service reserve fund to be created outside of the Indenture with funds not obtained from PENNVEST (the "Reserve Fund"), which Reserve Fund shall be for the sole benefit of PENNVEST and shall not be subject to any restrictions of the Indenture nor subject to the lien of the Indenture; and (2) and any other agreements granting and creating security interests, all as more particularly set forth in the funding agreement between the Authority and PENNVEST (the "Funding Agreement"), as amended by the Master Consent, and the funding offer from PENNVEST, dated as of July 19, 2023, as amended, supplemented and extended to date, and as may be further amended, supplemented and extended from time to time (the "Funding Offer," and together with the Debt Obligation, Master Consent, the Funding Agreement, and all other security agreements, other agreements, documents, certificates and instruments described in or contemplated by the Funding Agreement are collectively referred to as the "Funding Documents"); and

WHEREAS, in connection with the PENNVEST Funding, the Authority desires and intends to take all necessary and proper actions to execute and deliver all documents required by PENNVEST to be executed and delivered to obtain and/or accept the PENNVEST Funding and to assure its proper repayment of the Loan, as well as any documents or certificates required under the Indenture relating to Subordinated Indebtedness; and

NOW, THEREFORE, the Board of the Lehigh County Authority hereby resolves as follows:

SECTION 1. For the purpose of providing funds to finance the cost of the Project and to pay costs and expenses in connection with the PENNVEST Funding, the Authority hereby authorizes the execution of all Funding Documents and the taking of all actions necessary and required by PENNVEST to obtain the Loan and accept the PFL, including the issuance of the Debt Obligation in connection with the Loan, all pursuant to the provisions of the Act and the Funding Documents.

SECTION 2. The Debt Obligation shall be secured by the Funding Documents from the Authority to PENNVEST, and to the extent and in the manner therein set forth, the Project Collateral, the Reserve Fund and other agreements granting and creating certain security interests in favor of PENNVEST.

Neither the Debt Obligation nor the Funding Documents shall in any manner pledge the full faith and credit or taxing power of the Commonwealth of Pennsylvania, the County or any political subdivision thereof, nor shall it be deemed to be an obligation of the Commonwealth of Pennsylvania, the County or any political subdivision thereof,

nor shall the Commonwealth of Pennsylvania, the County or any political subdivision thereof be liable for the payment of the principal of, or interest on, such obligation, but it shall be secured upon and payable as provided for in the Indenture and from such other moneys as may be made available for the purpose of repaying the Debt Obligation.

SECTION 3. The Chair or Vice Chair of the Board of the Authority, or the Chief Executive Officer or Chief Financial Officer of the Authority (collectively and individually, the "Authority Officials") are hereby authorized and directed to establish the Reserve Fund and deposit such required funds therein for the sole benefit of PENNVEST pursuant to the requirements contained in the Funding Documents and to execute and deliver the Funding Documents in such form on behalf of the Authority, with the advice of counsel to the Authority and Bond Counsel, subject to such changes and modifications, if any, as may be approved by such Authority Officials, the execution of the Funding Documents to be conclusive evidence of such approval, and, if required, the Secretary is hereby authorized to cause the corporate seal of the Authority to be affixed thereto and to attest the same. Such Authority Officials are further authorized to acknowledge the same on behalf of the Authority and to deliver said Funding Documents to PENNVEST.

SECTION 4. The Debt Obligation shall be repaid in the amounts and on certain dates, all as set forth in the Funding Documents as submitted to this meeting, subject to such changes and modifications, if any, that may be accepted by the Authority based on the advice of Counsel to the Authority and Bond Counsel, the execution of the Debt Obligation by the Authority Officials to be conclusive evidence of such approval of any changes and/or modifications.

SECTION 5. Upon receipt, the proceeds from the PENNVEST Funding authorized to be obtained and/or accepted in this Resolution, shall be applied by the Authority under the terms and conditions set forth in the Funding Documents.

SECTION 6. The Authority hereby ratifies and confirms the appointment of McNees Wallace & Nurick LLC, Harrisburg, Pennsylvania, as bond counsel for the Authority in connection with the PENNVEST Funding. Such firm shall work in cooperation with the Authority's solicitor.

SECTION 7. The proper officers of the Authority are hereby authorized, empowered and directed on behalf of the Authority to execute any and all papers and documents to do and cause to be done any and all acts and things necessary or proper for the execution or carrying out of this Resolution and the Funding Documents.

SECTION 8. All resolutions or parts of resolutions inconsistent herewith shall be, and the same are, hereby rescinded, cancelled and annulled.

NOW THEREFORE, BE IT RESOLVED that the Lehigh County Authority Board hereby approves Resolution No. 11-2024-2.

On motion of Norma Cusick, seconded by Sean Ziller, this resolution was adopted the 11th day of November, 2024.

Tally of Votes: Yeas 8 Nays 0

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I, Kevin C. Reid, of the law firm of King, Spry, Herman, Freund & Faul, LLC, Solicitor to the Lehigh County Authority, do hereby certify that the foregoing is a true, correct and complete copy of a resolution which was duly adopted by the Authority Board at a public meeting of the Authority Board held on 11 November, 2024, after notice thereof had been duly given as required by law, at which meeting a quorum was present and voting and which resolution No. 11-2024-2 is now in full force and effect on the date of this certification.

Kevin C. Reid 11/11/24
Kevin C. Reid, Esquire Date
King, Spry, Herman, Freund & Faul, LLC
Lehigh County Authority Solicitor

Attest:

Lisa J. Miller 11/11/24
Lisa J. Miller Date
Executive Administrative Support Specialist

MEMORANDUM

TO: LCA Board of Directors
FROM: Liesel Gross & Lehigh County Authority (LCA) Staff
DATE: January 6, 2025
RE: Allentown Division – Lead Service Line Replacement Program, Cycle 1
Capital Project Authorization – Construction Phase – Amendment

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	<u>Capital Project Authorization Amendment:</u> Lead Service Line Replacement Program, Cycle 1, Construction Phase	\$1,756,514.00
2	<u>General Construction Contract Termination:</u> <ul style="list-style-type: none">General Construction – Pact One LLC	\$(2,376,445.00)

PROJECT BACKGROUND:

In 2021 and again in 2024, the U.S. Environmental Protection Agency (US EPA) took action to update regulations related to lead in drinking water. Among the new regulatory requirements is a mandate to replace all lead service lines (LSLs) within the water utility system by the year 2037. In 2023, LCA developed the first of a series of LSL replacement projects, with this first “Cycle 1” project intended to service as a pilot project to support organizational learning and process development. The LSL replacement process is expected to be highly detailed work, including significant customer interactions, investigatory work, construction on private property, coordination with other utilities and municipal paving programs, and much more. The Cycle 1 pilot project was intended to support LCA’s development of robust processes and data management methods to ensure smooth implementation of future projects that will be significantly expanded in scope. In the original scope of work for the Cycle 1 pilot project, LCA planned to replace 150 LSLs in a small neighborhood in the City of Allentown, and conduct investigations of service line material for an additional 450 properties in the project area.

On July 19, 2023, LCA was awarded grant and loan funding for this project via the Pennsylvania Infrastructure Investment Authority (Pennvest) and LCA began the design phase, developed customer communication protocols, and bid the project. The Pennvest funding offer included a \$1,555,508 loan and a \$3,383,892 grant, with these figures expected to be adjusted based on final project costs.

On August 26, 2024, the LCA Board of Directors approved the Construction Phase for this pilot project in the amount of \$4,024,857, including a General Construction Contract awarded to Pact One, LLC, in the amount of \$2,376,445.

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LCA expected to close on the Pennvest grant and loan on November 14, 2024. However, an obstacle was encountered with LCA's historical bond documents, and it was determined that the project could not be funded by Pennvest. As a result, the Cycle 1 pilot project was placed on hold until the LCA staff could review and develop alternative strategies to complete the work.

REVIEW OF PROJECT ALTERNATIVES:

The LCA staff met numerous times in November and December 2024 to review the status of the Lead Service Line Replacement Program, Cycle 1 pilot project. The following options were discussed at length:

1. Postpone the project until resolution to Pennvest funding obstacle is achieved.
2. Self-fund the project and complete as planned.
3. Self-fund the project but change scope / approach to reduce cost.
4. Cancel the project.

Each of these options presented various benefits and costs. A significant factor in LCA's staff discussions related to the growing potential exposure for contractor change order costs due to lengthy delays in project kick-off. In addition, the loss of \$3.6 million in grant funding posed a significant concern about the rate impact of this project if it proceeds as planned. For these reasons, Options 1 and 2 listed above were discarded.

As discussed above, the primary focus of this project is to serve as a case study or pilot approach to help LCA develop standard procedures for future projects that will be much larger in scope. With this in mind, LCA staff recommend pursuing option 3 listed above: Self-fund the project but change scope / approach to reduce cost. By scaling the project down and implementing the project differently, LCA can achieve the planned goals of conducting a pilot project while also minimizing the rate impact associated with the loss of grant funding.

REVISED PROJECT SCOPE / APPROACH:

The primary processes that must be developed as part of this pilot project include the following:

- Customer communication protocols
- Site investigation to determine LSL locations in project area
- Tracking mechanisms for customer Right-of-Entry agreements
- Implementation of post-construction risk-mitigation measures
- Post-construction water sampling procedures
- LSL inventory management
- Streamlined permitting
- Streamlined PA One Call line locations
- Post-construction site restoration
- Warranty period monitoring

Approximately 25 percent of these processes have been documented to date prior to construction kick-off. Through staff discussion, the LCA team determined that a smaller set of 100 LSL replacements would be beneficial to test and finalize all other project procedures. Through prior

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design-phase efforts, 44 customer Right-of-Entry agreements have been gathered in the original project area, and the remaining LSLs to be replaced can be identified on the same streets to minimize site restoration and post-construction paving costs.

There are three major components to the revised project scope and approach:

1. Self-Performed LSL Identification & Public Service Line Replacements

Throughout 2024, to meet the new US EPA requirements for removal of lead service lines when they are encountered in emergency situations, LCA's Field Services department staff replaced 155 LSLs located throughout the City of Allentown. Through this experience, the team has developed an efficient protocol for conducting these replacements on the publicly owned portion of the service line. By self-performing the public-side LSL replacements in this pilot project, along with pre-construction site investigations, LCA will enjoy significant savings in engineering and inspection costs. Due to the smaller scope of the project and staff support added in the 2025 Budget, LCA feels confident the team can self-perform this work with the use of existing staff.

2. Plumbing Contractor Performed Private Service Line Replacements

In addition, LCA staff have been working to develop relationships and agreements with private plumbing contractors who are interested in partnering with LCA for the purpose of completing LSL replacements on the customer-owned portion of the service line. The use of a private plumbing contractor for this work is preferred due to the requirement for a licensed plumber to connect internal devices such as thermal expansion tanks and backflow prevention devices.

3. Post-Construction Paving

Through the previously approved cost-sharing agreement with the City of Allentown, post-construction paving will be conducted by the City following LCA contribution toward the cost of paving materials. The Board approved this contract in August 2024, but the cost is estimated to be scaled down by approximately 20 percent as a result of modifying the project scope.

Based on this revised and scaled-down project scope and approach, LCA will achieve the goals of the pilot project while eliminating approximately \$2.3 million in project costs, in the following categories:

Original Cost Estimate – Construction Phase Approved	\$ 4,024,857
Reduction in Engineering Services	(131,520)
Elimination of External Inspection Services	(75,000)
Elimination of General Construction Contract	(2,376,445)
NEW Plumbing Services Contract	550,000
NEW Materials & Equipment	215,000
Reduction in Contingencies	(310,000)
NEW Cost Estimate – Construction Phase Amendment	\$ 1,756,514

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LCA BOARD ACTIONS REQUESTED:

Two actions are requested of the LCA Board of Directors to implement the revised project scope and approach described in this memo.

1. *Capital Project Authorization (CPA) – Construction Phase – Amendment*
The attached CPA Amendment provides additional details regarding the project costs previously approved as compared to the revised project cost estimate.
2. *General Construction Contract Termination: General Construction – Pact One LLC*
In late November 2024, LCA notified Pact One of a contract suspension based on article 15.01 of the contract General Conditions, which allows for a 90-day suspension upon written notice to the contractor. This suspension ends on February 28, 2025. Based on the revised project approach described in this memo, LCA staff recommend the Board take official action to terminate the contract with Pact One under the terms of article 15.03 of the contract General Conditions, which allows for termination of the contract for the convenience of the owner (LCA). The termination, if authorized, will be effective immediately and will terminate the contract in full. This action should be implemented as soon as possible to minimize the accrual of contractor change order costs, if any. In addition, the Board is requested to authorize the CEO or CFO to take any additional actions necessary to implement the contract termination.

FUTURE AUTHORIZATIONS:

Details are under review regarding the private plumbing contracts that will be utilized for the customer-owned portion of the work associated with this project. If needed, Board authorization will be requested at a future meeting.

FUNDING:

This Project represents a Change of Law, and will be funded by the LCA Allentown Division, with cost recovery through the rates for final project costs.

FUTURE LSL PROGRAM PHASES:

In October 2024, LCA was awarded an additional \$12 million in funding from Pennvest for the planned Cycle 2 project, which includes replacement of 1,000 LSLs in the City of Allentown. This project is currently in Design Phase. It is expected that LCA will pursue the necessary modifications to its bond documents in order to allow this project to move forward as planned. Having the Cycle 1 pilot project completed prior to commencing the Construction Phase of the Cycle 2 project will be a significant benefit.

SCHEDULE:

Assuming approval of the Capital Project Authorization Amendment for the Construction Phase at the January 13, 2025 Board meeting, all work is anticipated to be completed by September 30, 2025.

CAPITAL PROJECT AUTHORIZATION - AMENDMENT

PROJECT NO.:	AD-W-24-2	BUDGET FUND:	Allentown Div\Water\Capital
PROJECT TITLE:	Allentown Division - Lead Service Line Replacement Program Cycle 1 AMENDMENT	PROJECT TYPE:	<input checked="" type="checkbox"/> Construction <input type="checkbox"/> Engineering Study <input type="checkbox"/> Equipment Purchase <input type="checkbox"/> Amendment
THIS AUTHORIZATION:	\$1,756,514.00		

DESCRIPTION AND BENEFITS: Pilot Project & Lead Service Line Removal

In 2021 and again in 2024, the U.S. Environmental Protection Agency (US EPA) took action to update regulations related to lead in drinking water. Among the new regulatory requirements is a mandate to replace all lead service lines (LSLs) within the water utility system by the year 2037. In 2023, LCA developed the first of a series of LSL replacement projects, with this first “Cycle 1” project intended to service as a pilot project to support organizational learning and process development. The LSL replacement process is expected to be highly detailed work, including significant customer interactions, investigatory work, construction on private property, coordination with other utilities and municipal paving programs, and much more. The Cycle 1 pilot project will support LCA’s development of robust processes and data management methods to ensure smooth implementation of future projects that will be significantly expanded in scope.

The Construction Phase was originally approved in August 2024. However, due to an obstacle related to project funding, the project scope and approach was modified in January 2025 to eliminate certain costs. This Capital Project Authorization Amendment documents the updated cost estimates for the Construction Phase of this project. Please reference the cover memo for additional information.

	Original Authorization 8/26/2024	AMENDED Authorization 1/13/2025
Staff	\$ 140,000.00	\$ 140,000.00
Material	\$ -	\$ 35,000.00
Equipment	\$ -	\$ 180,000.00
Plumbing Services (Contract TBD)	\$ -	\$ 550,000.00
Construction Engineering (Gannett Fleming)	\$ 171,520.00	\$ 40,000.00
Construction Inspection (Keystone Consulting Eng.)	\$ 75,000.00	\$ -
General Construction Contract (Pact)	\$ 2,376,445.00	\$ -
Roadway Paving Cost Sharing Agreement	\$ 701,892.00	\$ 561,514.00
Contingencies	\$ 560,000.00	\$ 250,000.00
	\$ 4,024,857.00	\$ 1,756,514.00

REVIEW AND APPROVALS:

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

Lehigh County Authority – Monthly Report to Board of Directors

Upcoming Board Agenda Items & Project Updates – January 2025

Published: January 6, 2025

PART 1 – Upcoming Agenda Items – Action & Discussion Items

FINANCE & ADMINISTRATION

Project Title: Lead Service Line Replacement Project Cycle 1

Division / Funding: Allentown Division

Status or Action Desired: Approval

Board Action Date: 1/13/2025

Project Phase: Construction Phase

Project Notes: This project consists of Cycle 1 of the lead service line (LSL) replacement program in the City of Allentown. This project, which was to be funded by a Pennvest grant and loan, consists of the replacement of approximately 150 lead service lines within a prioritized project area. Design and bid phase services were authorized at the 11/13/2023 LCA Board meeting. The LCA Board authorized the construction phase at the August 26, 2024 meeting. However, since these authorizations, additional obstacles related to the Pennvest funding have been discovered. At the 1/13/2025 Board meeting, staff will recommend a change to the project scope, funding approach, and construction approach, to adjust the project as required. Staff Responsibility: Liesel Gross & Staff

Project Title: LCA Strategic Plan - Progress Reporting

Division / Funding: All Divisions

Status or Action Desired: Information

Board Action Date: 1/27/2025

Project Phase: n/a

Project Notes: A report of staff progress on key initiatives outlined in LCA's Strategic Plan will be presented for Board review and discussion. Staff Responsibility: Liesel Gross

Project Title: Monthly Financial Review

Division / Funding: n/a

Status or Action Desired: Information

Board Action Date: 2/10/2025

Project Phase: n/a

Project Notes: The December 2024 monthly financial report will be presented. Staff Responsibility: Ed Klein

SYSTEM OPERATIONS

Project Title: Monthly Operations Report

Division / Funding: n/a

Status or Action Desired: Information

Board Action Date: 1/27/2025

Project Phase: n/a

Project Notes: The December 2024 monthly operations report will be presented. Staff Responsibility: Andrew Moore & Chris Moughan

WATER PROJECTS – SUBURBAN DIVISION

Project Title: North Whitehall Second Interconnection

Division / Funding: Suburban Division

Board Action Date: 1/27/2025

Status or Action Desired: Approval

Project Phase: Design Phase

Project Notes: The North Whitehall Division relies exclusively on one interconnection with Northampton Borough Municipal Authority (NBMA) for its water source. The Source Water Assessment Study that was recently completed by Gannett Fleming identified this single interconnection as the system's primary vulnerability of supply reliability. The report recommends that a second interconnection be established with NBMA. In addition to providing redundancy of supply, the second interconnection will improve fire flow throughout the North Whitehall Division which will alleviate the need for additional water storage in the system. At the 1/27/2025 Board meeting, staff will recommend professional service authorization be awarded for the design phase of the project. Staff Responsibility: Amy Kunkel

WASTEWATER PROJECTS – KISS ACT 537

Project Title: Regional Sewer Capacity & Wet-Weather Planning - Regional Act 537 Plan Preparation

Division / Funding: City of Allentown (AO)

Board Action Date: 1/13/2025

Status or Action Desired: Discussion

Project Phase: Planning Phase

Project Notes: All municipalities flowing into the Kline's Island Wastewater Treatment Plan completed an Interim Act 537 Plan ("Interim Plan") in September 2020. This Interim Plan primarily consisted of projecting new connections to the regional sewer system from 2021 through 2025 and outlining steps to be taken during this timeframe to prepare a full Regional (Long-Term) Act 537 Plan ("Regional Plan"). This two-step planning process has been developed to allow all municipalities to work cooperatively toward a regional plan to meet future sewer capacity needs of the region, and to provide proper regulatory oversight and control of new connections to the system while the Interim Plan is in force from 2021 to 2025. To begin the process of compiling the Regional Act 537 Plan to be submitted in 2025, a Professional Service Authorization for ARRO to complete this work was approved at the February 28, 2022 Board meeting. Costs associated with the development of this Regional Act 537 Plan will be paid by the City of Allentown and reimbursed through existing intermunicipal agreements and by City customers through the use of the Administrative Order Fee. Final writing of the Final Act 537 is under way and is expected for Planning Commission deliveries in early 2025. This will start the Act 537 municipal review and approval process. At the January 13, 2025 LCA Board meeting, staff will present an update on the plan development process and timeline for completion. Staff Responsibility: Phil DePoe

WASTEWATER PROJECTS – SUBURBAN DIVISION

Project Title: Upper Western Lehigh Pump Station & Force Main

Division / Funding: Suburban Division

Board Action Date: 1/27/2025

Status or Action Desired: Approval

Project Phase: Construction Phase

Project Notes: Per the DEP-approved Interim 537 Plan, action is required to alleviate the current sanitary sewer interceptor system hydraulic bottleneck in the Trexlertown area. The Upper Western Lehigh Pump Station and Force Main is the recommended alternative identified in the Special Act 537 Study prepared as part of the Trexlertown Area Capacity Solution Alternatives project, and is supported by both Upper and Lower Macungie townships. Project implementation is required in order to meet the compliance timeline in the Interim Act 537 Plan. Design phase authorization was granted at the February 14, 2022 LCA Board meeting. Permit applications have been submitted to various regulatory agencies, including the DEP for a Part II Water Quality Management Permit. The force main contract was advertised for bid on October 16 with a bid opening date of November 17, 2023. Construction of the force main is substantially complete. Capital Project Authorization for construction of the pump station was awarded at the June 10, 2024 Board meeting. The Notice to Proceed was issued to contractors on 7/19/2024 and a pre-construction meeting was held on 7/31/2024. Site mobilization occurred in November and the station is under construction. At the 1/27/2025 Board meeting, staff will recommend approval of a change order for the Force Main Contract due to unforeseen conditions. Staff Responsibility: Amy Kunkel

PART 2 – Project Updates – Information Items

Project Title: Lehigh River Pump Station Upgrades

Division / Funding: Allentown Division

Status or Action Desired: Updated

Board Action Date: 2/24/2025

Project Phase: Design Phase

Project Notes: The Lehigh River Pump Station is infrequently utilized due to taste and odor concerns as well as operations issues with the existing pumps and intake screens. A preliminary engineering evaluation was performed in 2024 that identified treatment options for taste and odor control as well as pump upgrades and intake screening modifications. The goal is to be able to utilize the Lehigh River source fully in the event the Little Lehigh Creek intake has to be taken out of service for any reason. A Basis of Design Report was completed late 2024 and will be presented to the City of Allentown for Major Capital Improvement consideration. LCA solicited final design and bid phase proposals from 3 firms in late 2024 and Capital Project Authorization for final design and bidding phase services is anticipated to be requested at the 2/24/2025 Board meeting. Staff Responsibility: Amy Rohrbach

PART 3 – Open Project List – No Updates

Project Category	Project Title	Division / Funding	Project Phase	Staff Responsibility
Finance & Administration	LCA Main Office Parking Lot Expansion	All Divisions	Construction Phase	Chuck Volk
Finance & Administration	Project Management / Construction Management Software Installation & Setup	All Divisions	Planning Phase	Jason Peters
Finance & Administration	LCA Munis ERP System Planning & Re-Implementation	All Divisions	Planning Phase	Chris Moughan & Brooke Neve
Finance & Administration	Draft Omnibus Resolution: Delegation of Board Duties	n/a	n/a	Liesel Gross
Finance & Administration	LCA Building Optimization Study & Master Plan	Suburban Division	Planning Phase	Stephen Boone
Finance & Administration	Capital Program Management Services	All Divisions	Planning Phase	Chuck Volk
System Operations	Suburban Water Facilities - SCADA System Upgrade	Suburban Division	Construction Phase	Chris Moughan
System Operations	Watershed Monitoring Program	Suburban Division	Planning Phase	Andrew Moore
Water - Suburban	Suburban Division Lead Service Line Inventory Program & Compliance Planning	Suburban Division	Planning Phase	Albert Capuzzi
Water - Suburban	2024 Meter Replacements	Suburban Division	Construction Phase	Amy Kunkel
Water - Suburban	Central Lehigh and North Whitehall Systems – Water Supply Study	Suburban Division	Planning Phase	Phil DePoe
Water - Suburban	Upper System Pump Station and Main Extension	Suburban Division	Design Phase	Amy Kunkel
Water - Suburban	Water Main Replacement Program Cycle 8	Suburban Division	Design Phase	Jason Peters
Water - Allentown	Water Filtration Plant: PFAS Treatment	Allentown Division	Design Phase	Amy Rohrbach
Water - Allentown	Allentown Division Lead Service Line Inventory Program & Compliance Planning	Allentown Division	Planning Phase	Albert Capuzzi

Project Category	Project Title	Division / Funding	Project Phase	Staff Responsibility
Water - Allentown	Badger Meter Replacements	Allentown Division	Construction Phase	Amy Kunkel
Water - Allentown	Lead Service Line Replacement Project Cycle 2	Allentown Division	Design Phase	Albert Capuzzi
Water - Allentown	Water Filtration Plant: Fluoride System Upgrades	Allentown Division	Design Phase	Amy Rohrbach
Water - Allentown	Water Filtration Plant: HVAC Upgrades - Phase 1	Allentown Division	Construction Phase	Amy Rohrbach
Water - Allentown	Water Filtration Plant: Emergency Power Design	Allentown Division	Design Phase	Amy Rohrbach
Water - Allentown	Water Main Replacement Program Cycles 7 & 8	Allentown Division	Construction	Jason Peters
Water - Allentown	Water Main Replacement Program Cycles 9 - 11	Allentown Division	Design Phase	Jason Peters
Water - Allentown	Water Filtration Plant: Filter Upgrade Project	Allentown Division	Construction Phase	Amy Rohrbach
Water - Allentown	30" & 36" East Side Transmission Main Repair Project	Allentown Division	Design Phase	Jason Peters
Water - Allentown	Water Filtration Plant: 2022-2023 Indenture Upgrades	Allentown Division	Construction Phase	Chuck Volk
Water - Allentown	Large Diameter Valve Rehabilitation & Replacement Program	Allentown Division	Construction Phase	Chuck Volk
Sewer - Act 537	Sanitary Sewer Collection System: City of Allentown Manhole Inspections	Allentown Division	Planning Phase	Phil DePoe
Sewer - Act 537	Sanitary Sewer Collection System: City of Allentown Manhole Rehabilitation	Allentown Division	Construction Phase	Jason Peters
Sewer - Act 537	Sanitary Sewer Collection System: City of Allentown Interceptor Inspections	Allentown Division	Planning Phase	Phil DePoe
Sewer - Act 537	KISS Act 537 Planning - Financial & Institutional Evaluation, Phase 3	City of Allentown (AO)	Planning Phase	Liesel Gross
Sewer - Act 537	Legal Services: Development of New Intermunicipal Agreement(s)	City of Allentown (AO)	Planning Phase	Liesel Gross

Project Category	Project Title	Division / Funding	Project Phase	Staff Responsibility
Sewer - Act 537	KISS System Modeling - Sewage Billing Meter QA/QC Data Analytics and 2021 Flow Metering Preparation	City of Allentown (AO)	Planning Phase	Phil DePoe
Sewer - Act 537	KISS Act 537 Planning - Selection of Solution (SOS) Phase	City of Allentown (AO)	Planning Phase	Phil DePoe
Sewer - Act 537	Industrial Pretreatment Plant Master Plan	Suburban Division	Planning Phase	Liesel Gross & Albert Capuzzi
Sewer - Act 537	Spring Creek Force Main Condition Assessment	Suburban Division	Planning Phase	Amy Kunkel
Sewer - Act 537	Regional Sewer Capacity & Wet-Weather Planning: Engineering & Program Support	Suburban Division	Planning Phase	Phil DePoe
Sewer - Act 537	KISS Relief Interceptor Pre-Design Study	Suburban Division	Planning Phase	Phil DePoe
Sewer - Act 537	Western Lehigh Interceptor Municipalities Test & Seal Lateral Grouting Project	Suburban Division	Construction Phase	Jason Peters
Sewer - Act 537	Western Lehigh Service Area - Engineering & Program Support	Suburban Division	Planning Phase	Phil DePoe
Sewer - Suburban	Wynnewood Terrace WWTP Expansion - Developer Cost-Sharing Agreement	Suburban Division	Planning Phase	Chuck Volk
Sewer - Suburban	Heidelberg Heights Sanitary Sewer Consent Order & Agreement	Suburban Division	Planning Phase	Chuck Volk
Sewer-Suburban	Pretreatment Plant - Critical Upgrades	Suburban Division	Construction Phase	Chuck Volk
Sewer - Suburban	Lynn Township WWTP Final Clarifier Project	Suburban Division	Construction Phase	Chuck Volk
Sewer - Suburban	Spring Creek Force Main Relocation - PA Turnpike Commission	Suburban Division	Construction Phase	Amy Kunkel
Sewer - Suburban	Spring Creek Pump Station Upgrades	Suburban Division	Construction Phase	Amy Kunkel
Sewer - Suburban	Park Pump Station Phase 2 Upgrade	Suburban Division	Construction Phase	Amy Kunkel
Sewer - Suburban	Arcadia WWTP Screening System Project	Suburban Division	Design Phase	Chuck Volk

Project Category	Project Title	Division / Funding	Project Phase	Staff Responsibility
Sewer - Suburban	North Whitehall Township Act 537 Plan	Suburban Division	Planning Phase	Phil DePoe
Sewer - Suburban	Pretreatment Plant (PTP) Electrical Study	Suburban Division	Planning Phase	Chuck Volk
Sewer - Suburban	Lynn Township Corrective Action Plan	Suburban Division	Planning Phase	Jason Peters
Sewer - Suburban	Sand Spring WWTP: Treatment Process Modification	Suburban Division	Design Phase	Chuck Volk
Sewer - Suburban	LCA Meter Stations 1 and 2 Upgrades	Suburban Division	Design Phase	Phil DePoe
Sewer - Allentown	Kline's Island WWTP: Chemically Enhanced Primary Treatment Study	Allentown Division	Planning Phase	Stephen Boone
Sewer - Allentown	Sanitary Sewer Collection System: I&I Source Reduction Program (LCA Year 2)	Allentown Division	Planning Phase	Jason Peters
Sewer- Allentown	Kline's Island WWTP - Wet Weather Improvements - Phase 1	Allentown Division	Design Phase	Amy Rohrbach
Sewer - Allentown	Kline's Island WWTP: Master Plan	Allentown Division	Planning Phase	Amy Rohrbach
Sewer - Allentown	Kline's Island WWTP - Septage Receiving and Vacuum Truck Unloading Modifications	Allentown Division	Construction Phase	Amy Rohrbach
Sewer - Allentown	Kline's Island WWTP: Substation No. 1 and Switchgear Replacement	Allentown Division	Construction Phase	Amy Rohrbach
Sewer - Allentown	Kline's Island WWTP: 2023-2024 Architectural and Structural Upgrades	Allentown Division	Construction Phase	Amy Rohrbach
Sewer - Allentown	Kline's Island WWTP: Solids Process Boiler and HVAC System Upgrade Project	Allentown Division	Construction Phase	Chuck Volk
Sewer- Allentown	Kline's Island WWTP - Primary Sludge System Upgrades	Allentown Division	Construction Phase	Amy Rohrbach
Sewer - Allentown	Kline's Island WWTP - Final Settling Tanks 1-4 Upgrades	Allentown Division	Construction Phase	Amy Rohrbach
Sewer - Allentown	Sanitary Sewer Collection System: I&I Source Reduction Program (LCA Year 1)	Allentown Division	Construction Phase	Jason Peters