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October 17, 2022

Via Electronic Filing

Rosemary Chiavetta, Secretary
Secretary's Bureau
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, Second Floor
Harrisburg, PA 17120

RE: Petition of Columbia Water Company for approval of a Second Long-Term Infrastructure Improvement Plan; Docket No. P-2022-3034702; **RESPONSE TO BUREAU OF TECHNICAL SERVICES' DATA REQUESTS, SET I**

Dear Secretary Chiavetta:

Enclosed for filing on behalf of Columbia Water Company please find responses to BTUS Data Requests, Set I in this proceeding.

Thank you for your attention to this matter. If you have any questions, please feel free to contact me at (717) 236-1300.

Respectfully submitted,

/s/ Whitney E. Snyder

Thomas J. Sniscak
Whitney E. Snyder

Counsel for Columbia Water Company

WES/jld
Enclosure
cc: Ken Shaffer, BTUS (via email kennshaffe@pa.gov)
David Lewis

Petition of The Columbia Water Company for approval of its Second Long-Term Infrastructure Improvement Plan; Docket No. P-2022-3034702

COLUMBIA WATER COMPANY'S RESPONSES TO BUREAU OF TECHNICAL SERVICES' DATA REQUESTS, SET 1

1) Reference Appendix A, Section 2: Schedule for Planned Repair and Replacement of Eligible Property

   1) State the general goals of Columbia's Second LTIIP and identify any of the company's priorities for infrastructure repair and replacement. Also identify the measures Columbia plans to use to track its progress, i.e., leak rates, unaccounted for water reduction, main break rates, etc.

   2) Provide a table, similar in form to tables 3 and 5 in Appendix A, that shows Columbia's planned replacements of eligible property by category for each year of its Second LTIIP.

RESPONSE: The general goals for our Second LTIIP is to accelerate the replacement of old age infrastructure. This will help us maintain our low unaccounted for water rates and maintain our low main break rates. This ties directly into our overarching goals of minimizing customer service disruptions and minimizing the withdraw of natural resources from the environment.

Columbia's planned replacements of eligible property by category for each year of its Second LTIIP can be found in Appendix A of our Second LTIIP on page 8, table 3, which is attached as Exhibit 1.

PROVIDED BY: David Lewis, President and General Manager

DATE: October 14, 2022

Petition of The Columbia Water Company for approval of its Second Long-Term Infrastructure Improvement Plan; Docket No. P-2022-3034702

COLUMBIA WATER COMPANY'S RESPONSES TO BUREAU OF TECHNICAL SERVICES' DATA REQUESTS, SET 1

2) Reference Appendix A, Section 4: Estimate of the Quantity of Eligible DSIC Property and Reference Appendix A, Section 5: Projected Annual Expenditures

1) Provide a table, similar in similar form to tables 3 and 5 in Appendix A, that details Columbia's actual amounts of mains, service lines, valves, hydrants, and meters replaced for each year of Columbia's original LTIIP.

2) Describe in detail how Columbia will ensure its Second LTIIP is cost effective and will be financed.

3) Describe in detail how Columbia competitively bids its capital improvement contracts and how Columbia manages its costs for materials.

RESPONSE: Columbia's actual mains, service lines, valves, hydrants, and meters for 2019 can be found in Table 1, page 2 of Columbia's 2019 AAOP, which is attached as Exhibit 2(a).

Columbia's actual mains, service lines, valves, hydrants, and metes for 2020 can be found in Table 1, page 2 of Columbia's 2020 AAOP, which is attached as Exhibit 2(b).

Columbia's actual mains, service lines, valves, hydrants, and meters for 2021 can be found in Table 1, page 2 of Columbia's 2021 AAOP, which is attached as Exhibit 2(c).

To ensure system reliability, public safety, quality installation and cost-effectiveness, all DSIC eligible projects will be constructed by qualified personnel. CWC uses a competitive bidding process for the purchase of piping, valves and hydrants. A list of materials is prepared for the project and sent to the four (4) major pipe suppliers for price quotes. CWC utilizes its own staff and equipment for the installation of water mains, company-owned service lines, valves, hydrants and meters. Company employees utilized for this type of work have extensive training in the use of heavy equipment, pipe laying procedures, disinfection procedures and safety training. For water mains greater than 12-inches in diameter, stream crossings or expedited PennDOT projects, CWC uses qualified local contractors for water main, valves and hydrant installations. These local contractors are prequalified based upon experience with similar projects, safety record, and qualifications of personnel. We receive competitive quotes to make sure the project remains cost effective. All project sites are inspected regularly throughout the construction process by Company

personnel. While Columbia Water Company cannot control the market price of goods and materials, we can obtain the best price through competitive bids.

Regarding financing, historically the Columbia Water Company has funded capital projects using a mix of cash flow from operations and bank or Pennvest loans.

PROVIDED BY: David Lewis, President and General Manager

DATE: October 14, 2022

Petition of The Columbia Water Company for approval of its Second Long-Term Infrastructure Improvement Plan; Docket No. P-2022-3034702

COLUMBIA WATER COMPANY'S RESPONSES TO BUREAU OF TECHNICAL SERVICES' DATA REQUESTS, SET 1

3) Reference Appendix A, Section 6: Accelerated Replacement and Maintaining Adequate, Efficient, Safe, Reliable and Reasonable Service to Customers

1) Provide a table, in similar form to tables 3 and 5 in Appendix A, that details Columbia's actual expenditures for each year of Columbia's original LTIIP.

2) Describe in detail how the Second LTIIP is a continuation of an already accelerated capital spending process.

RESPONSE: Columbia's actual expenditures for 2019 can be found on Table 2, page 2 of Columbia's 2019 AAOP attached as Exhibit 2(a).

Columbia's actual expenditures for 2020 can be found on Table 2, page 2 of Columbia's 2020 AAOP attached as Exhibit 2(b).

Columbia's actual expenditures for 2021 can be found on Table 2, page 2 of Columbia's 2021 AAOP attached as Exhibit 2(c).

Since the establishment of our DSIC in April of 2003, CWC has replaced over 27,400 feet of pipe. This represents about 3.8% of our distribution system pipe that has been renewed through the DSIC program. In addition to pipe, we have replaced 940 service lines which is approximately 9% of the total service lines and 5,330 old age meters which is over 51% of the Company's meters. This Second LTIIP proposes to replace more old age water main, services and meters, exactly as we have been doing for nearly 20 years.

PROVIDED BY: David Lewis, President and General Manager

DATE: October 14, 2022

COLUMBIA WATER COMPANY'S RESPONSES TO BUREAU OF TECHNICAL SERVICES' DATA REQUESTS, SET 1

4) Describe in detail how the Second LTIIP will help Columbia improve system resiliency, reliability, and safety.

RESPONSE: The Second LTIIP is a plan to accelerate the replacement of old age infrastructure. This will help us maintain our low unaccounted for water rates and maintain our low main break rates. This new infrastructure will help minimize customer service disruptions and minimize the withdraw of resources from the environment. Newer infrastructure is less susceptible to natural disasters and terrorism. It will also minimize the chance of failure which makes it safer for our employees and customers.

PROVIDED BY: David Lewis, President and General Manager

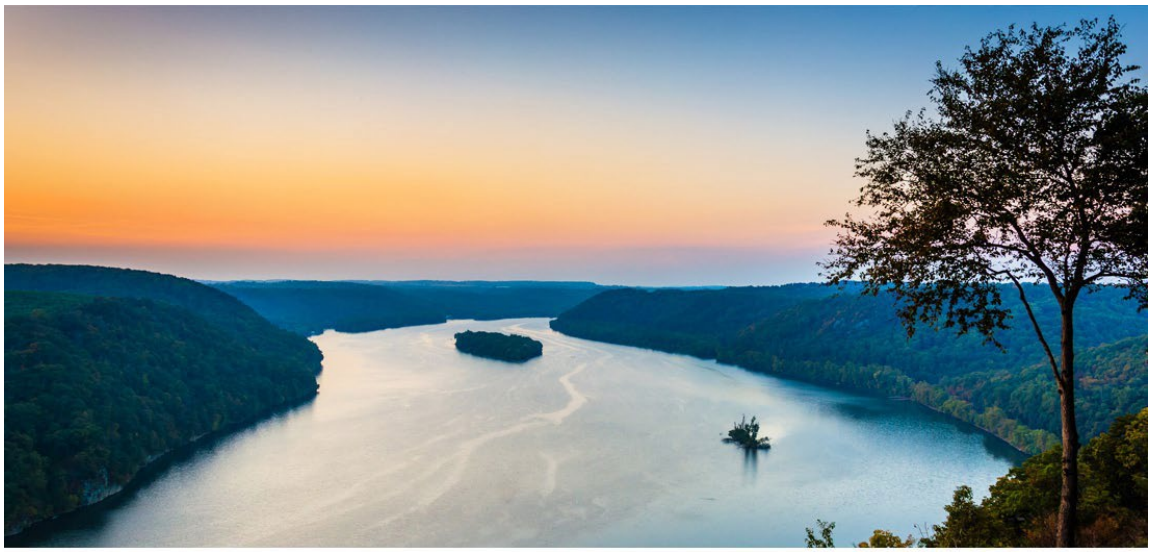
DATE: October 14, 2022

EXHIBIT 1

COLUMBIA WATER COMPANY

LONG-TERM INFRASTRUCTURE IMPROVEMENT PLAN

2023-2027



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Introduction

In accordance with the requirements of 66 Pa. C.S. §§ 1350 - 1360 and the Public Utility Commission's Final Order for the Implementation of Act 11 of 2012 (Public Meeting of August 2, 2012, Docket No. M-2012-2293611), Columbia Water Company (CWC) is submitting this Long-Term Infrastructure Improvement Plan (LTIIP). CWC's LTIIP addresses infrastructure investment through its long-established and cost-effective Distribution System Improvement Charge (DSIC)[1,2]. This LTIIP incorporates the Marietta rate district and adjusts future spending projections to account for changes in available capital and the regulatory environment.

Since its establishment of a DSIC in April of 2003, CWC has replaced over 27,400 feet of pipe. This represents about 3.8% of its distribution system pipe that has been renewed through the DSIC program. In addition to pipe, CWC has replaced 940 service lines which is approximately 9% of the total service lines and 5,330 old age meters which is over 51% of the Company's meters. This has allowed CWC to continue to provide safe and reliable service to its customers. In addition, the DSIC has allowed the Company to manage infrastructure replacement costs in an effective manner by directly targeting those costs without the need for additional rate case filings, the reasonable costs of which are borne by the ratepayers.

Prior to Commission approval of the Company's last rate filing on March 1, 2018 at Docket No. R-2017-2598203, the Company operated two districts known as the Columbia District and the Marietta District. For purposes of the DSIC, the March 1, 2018 Commission Order combined the rate districts and made the Marietta Rate District DSIC eligible. Prior to the March 1, 2018 Commission Order, only the Columbia Rate District was DSIC eligible. This LTIIP is for CWC's distribution system which is located the Columbia and Marietta rate districts. It does not include the East Donegal rate district.

CWC provides public water service to residential, commercial, public and industrial customers in Columbia, Marietta and Mountville Boroughs, West Hempfield, Manor, and East Donegal Townships, Lancaster County and Hellam Township, York County, Pennsylvania. CWC served approximately 10,400 customers at the end of year 2021. Figure 1 shows the CWC service area covered by this LTIIP.

[1] The Pennsylvania Public Utility Commission authorized CWC to establish a DSIC through Final Order dated April 17, 2003 at Docket No. P-00021979.

[2.] The Pennsylvania Public Utility Commission authorized CWC to include the Marietta Rate District into its DSIC program through Final Order dated March 1, 2018 at Docket No. R-2017-2598203.

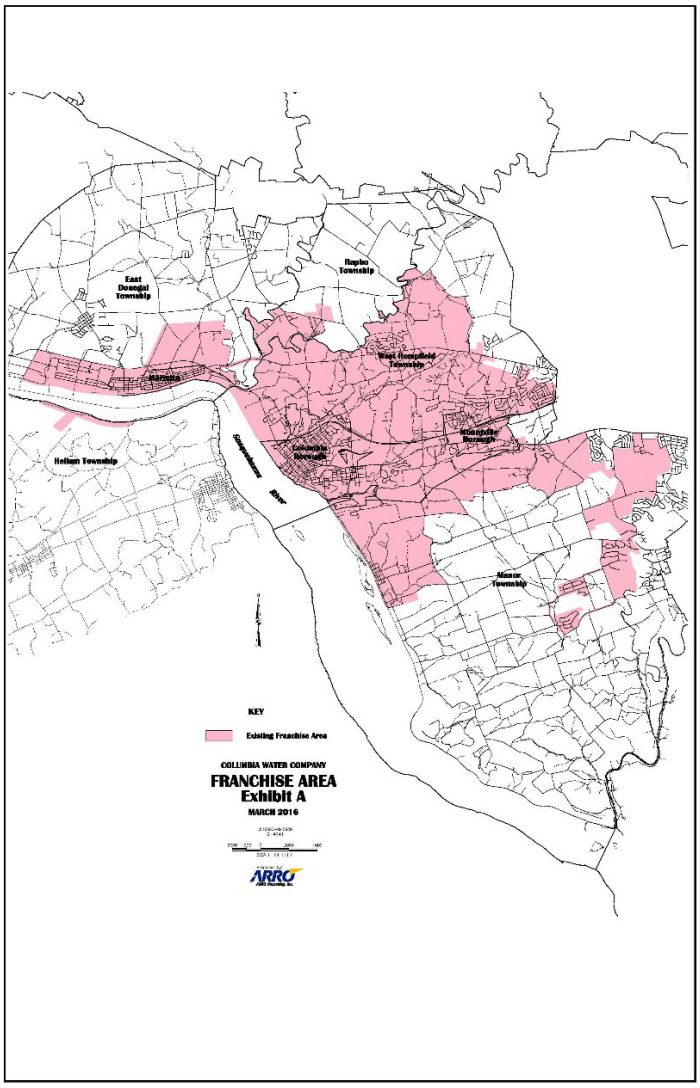


Figure 1 – Columbia Water Company Service Area

The CWC distribution system is comprised of water mains that vary in size from 4-inch through 36-inch with the material type being mainly cast iron and ductile iron. The age of the water mains range from the 1870s through 2021. The condition of the pipes vary throughout the system and age is not always the best indicator of pipe condition. Other factors like the original quality of the pipe, installation and geology impact the pipe condition and reliability.

This LTIIP identifies how CWC will use the DSIC to replace aging infrastructure at an accelerated pace. This LTIIP will identify the types and ages of infrastructure eligible for DSIC recovery; schedule for the planned replacements; location of the eligible property; estimates of the quantity to be replaced; projected annual expenditures; manner in which the replacement will be accelerated; workforce management plan to ensure work is completed safely and cost effectively; and description of outreach to other utilities to minimize disruption to customers; as well as the benefit to customers of accelerated infrastructure rehabilitation and replacement.

Section 1 – Types and Age of Eligible Property

A listing of all eligible property, as defined in 66 Pa. C.S. §1351 (3), is provided in this section. CWC developed and integrated a Geographic Information Systems (GIS) to map and manage its water system assets. The water system assets such as water mains, valves, hydrants, tanks, and service lines are spatially located and attributed with information about the distribution system. This information is supplemented with paper mapping and files as necessary. This process provides the means for CWC to document data and provides the Company with an efficient means to identify DSIC eligible facilities for replacement. These efficiencies translate into direct savings to the customers by specifically targeting the appropriate facilities to be replaced.

CWC owns the following water system components:

Water mains – In a water distribution system the water mains form the network necessary to distribute water to the customers. Larger water mains are used to move large volumes of water to pressure zones and key demand areas. Smaller mains fill in the network and are normally located beneath the streets and roads in the front of homes, businesses, schools and factories. Water gets delivered from the water main to the customer through a service line. CWC owns approximately 722,890 LF of water mains. The material type of the water main generally depends on the installation date and the installing party. Newer mains are normally ductile iron cement lined (DICL) pipe with the older mains being mainly unlined cast iron pipe. Very limited pockets of polyvinyl chloride (PVC) exist within the system.

Company-Owned Service lines - Water gets delivered from the water main to the customer's curb stop through a Company-owned, pressurized service line. CWC owns the service line between the water main and the curb stop ("Company-owned service line"). The service line from the curb stop to the customer's building ("Customer-owned service line") is owned by the customer and any replacement of the customer's portion of the service line is the responsibility of the customer and thus Customer-owned service lines are not included in this LTIIP. The Company-owned service lines vary in size from 6-inch down to ¾-inch with a majority of CWC's service lines being constructed of copper. Only copper is used when Company-owned service lines are replaced.

Valves – Valves are used to control the volume and direction of flow in the distribution system. They are also used to isolate sections of water main for replacements or repairs. Almost all valves are buried and are opened or closed through a valve box that extends from the valve to the ground surface. The valves vary in size from 4-inch through 16-inch. CWC owns approximately 3,535 valves in its system.

Hydrants – Hydrants are typically located along roadways and right-of-ways. Hydrants are used to flush water from the water system and to assist in fighting fires. Generally, a hydrant can be isolated from the distribution system by opening or closing a dedicated hydrant valve. Hydrants play a critical role in system maintenance and community fire protection. CWC owns approximately 978 hydrants in its system.

Meters – Meters are used to measure the amount of water used by a customer. Meters are sized based upon the amount of water a customer uses. Typically residential customers have a 5/8-inch

or 3/4-inch meter. Commercial customers have meters that range from 3/4-inch through 2-inch meters. Industrial customers normally have meters in the 2-inch through 6-inch range. CWC owns approximately 10,407 meters in its system.

Table 1 provides a breakdown of eligible property by type. Table 2 provides a breakdown of the water main by size.

Table 1 – Types and Age of Eligible Property

Property Type	Quantity	Age (Year)
Water mains **	722,890 LF	1875 - 2021
Company-owned service lines	10,407 EA	1875 - 2021
Valves	3,535 EA	1875 - 2021
Hydrants	978 EA	1875 - 2021
Meters	10,407 EA	1990 - 2021

** - less than 1% of all water mains were installed prior to 1900.

Table 2 – Quantity of Water Mains by Size

Water Main Diameter (inches)	Quantity (Linear Feet)
4	7,550
6	143,650
8	311,050
10	52,200
12	195,000
16	13,100
36	340
TOTAL	**722,890**

Section 2 – Schedule for Planned Replacement of Eligible Property

CWC understands the importance and benefits of continuous renewal of aging infrastructure to continue to provide safe and reliable service to our customers. This section provides an overview of the planning process for replacing aging water distribution system infrastructure. This section does not discuss the planning process for new water main extensions or for improvements to treatment, storage and pumping facilities since they are not DSIC eligible.

Many components must be evaluated and weighted when determining which infrastructure to replace in a given year. In general the following components, in order of priority, are used to select infrastructure to replace each year:

- Planned state highway improvements;
- Planned municipal street improvements;
- Planned large scale improvements by other utilities;
- Water main break frequency;
- Age;
- Material quality; and
- Installation quality.

The first three items are given the highest priority since CWC has little to no influence on the scheduling of work by outside entities. CWC understands the significant benefit to the customers and municipalities when infrastructure is replaced and/or improved concurrently with other public infrastructure work. CWC meets at least annually with the municipalities in which it serves public water to coordinate the replacement of water system infrastructure with planned street upgrades. This directly reduces the cost to the Company and thus, to customers, by providing for less construction work and expense to replace these lines.

Water main replacement – Work normally entails full replacement of the water main (as opposed to rehabilitate) since this option eliminates long-term structural and integrity deficiencies that remain when a water main is simply rehabilitated. Further, this option is also considerably less disruptive to the customer since the new main can be installed, tested and placed into service before moving service lines from the old main to the new main. Disruption of water service is minimal since the customer is without service during their service line switch over only. In areas where considerable construction or restoration costs would be incurred to replace a water main, rehabilitation of the existing main is pursued.

Valve and hydrant replacement – Work normally involves the full replacement of the valve and hydrant. Occasionally a relatively new valve or hydrant will be rebuilt and/or reused but only in those situations where the reliability and integrity are well known. Valves and hydrants normally get replaced at the same time a water main is being replaced or rehabilitated. There are times when critical valves and hydrants are replaced independently of a full scale water replacement project. Properly operating valves greatly benefit the customers since it minimizes the geographic area impacted by a main repair and minimizes the amount of time needed to make a repair. A schedule of valve and hydrant replacements is provided in Table 1.

Company-Owned Service line replacement – Work normally involves the full replacement of the company-owned service line between the water main and the curb stop. The work will include replacement of the curb stop and curb box. Company-owned service lines get replaced during full scale water replacement projects or if the Company determines they otherwise need to be replaced due to conditions including but not limited to leaks or malfunction.

Meter replacement or repair– Residential and commercial meters normally involve full replacement. Some commercial and industrial meters can be rehabilitated. Meter replacement is typically based upon meter age. CWC replaces its meters in compliance with the schedule in the Commission's regulation at 52 Pa. Code § 65.8. Accelerated replacement of meters will benefit customers directly through more accurate meter readings.

Section 3 – Location of Eligible Property

All of the CWC's eligible property is located in Lancaster and York Counties, Pennsylvania. More specifically, the property is located in the boroughs of Columbia, Marietta and Mountville and in portions of the townships of West Hempfield, East Donegal, Hellam and Manor. See Figure 1 for additional details.

Section 4 – Estimate of the Quantity of Eligible Property to be Replaced

Table 3 identifies eligible property that is projected to be replaced in the next five years. These quantities were prepared based upon the best available information (planned municipal and utility projects, main break data, pipe age, etc.) at the time this plan was prepared. Actual quantities may vary depending on conditions that could change in the distribution system or changes made by the municipalities to their street projects.

Table 3 – Projected Quantities of Eligible Property to be Replaced for 2023 - 2027

Year	Water Main (LF)	Service lines (ea.)	Valves	Hydrants	Meters
2023	1,200	30	5	3	140
2024	1,200	30	5	3	140
2025	1,200	30	5	3	140
2026	1,200	30	5	3	140
2027	1,200	30	5	3	140

Section 5 – Projected Annual Expenditures

The projected annual expenditures for the 2023 to 2027 period are listed in Table 4 below. These estimates are based upon the quantities listed in Table 3 and recent construction costs. A break down by category is provided in Table 5.

Table 4 – Projected Annual Expenditures for 2023 - 2027

Year	Projected Annual Expenditures
2023	$280,000
2024	$280,000
2025	$280,000
2026	$280,000
2027	$280,000

Table 5 – Projected Annual Expenditures by Category for 2023 - 2027

Year	Water Main	Service lines	Valves	Hydrants	Meters	Total
2023	$160,000	$45,000	$15,000	$10,000	$50,000	$280,000
2024	$160,000	$45,000	$15,000	$10,000	$50,000	$280,000
2025	$160,000	$45,000	$15,000	$10,000	$50,000	$280,000
2026	$160,000	$45,000	$15,000	$10,000	$50,000	$280,000
2027	$160,000	$45,000	$15,000	$10,000	$50,000	$280,000

For all projects, the most prudent, cost-effective methods will be used to complete the project. Almost all eligible property is abandoned in place after the replacement infrastructure is installed and therefore is not salvageable. Meters can be salvaged and are sold at local salvage yards.

Section 6 – Acceleration of Infrastructure Replacement

CWC has a track record of investing in its infrastructure to maintain safe and reliable service to all of its customers including infrastructure not eligible for DSIC. Over the past 5 years considerable investment has occurred in major upgrades of its water system including a system-wide security system, four (4) emergency generators, repainted two tanks, and installing a new intake in the Susquehanna River. In addition CWC purchased an adjacent water system that was being operated by part-time contractors.

In addition to the capital expenditures listed above, CWC, through the use of its DSIC, continued to replace water mains, Company-owned service lines, valves, hydrants and meters. Figure 2 graphs the projected and historical DSIC eligible capital expenditures. With the completion of the large projects listed above, additional capital will be directed towards expediting infrastructure replacement.

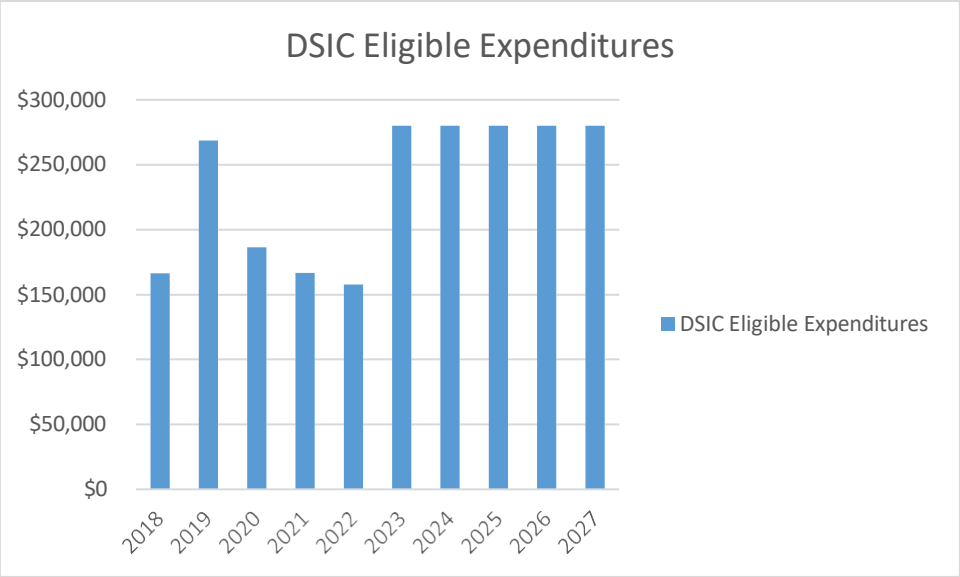


Figure 2 – Projected and Historic DSIC Eligible Expenditures

The projected DSIC eligible expenditures will accelerate the replacement of infrastructure by approximately 80 percent.

Section 7 – Workforce Management Plan and Training

To ensure system reliability, public safety, quality installation and cost-effectiveness, all DSIC eligible projects will be constructed by qualified personnel. CWC uses a competitive bidding process for the purchase of piping, valves and hydrants. A list of materials is prepared for the project and sent to the four (4) major pipe suppliers for price quotes. CWC utilizes its own staff and equipment for the installation of water mains, company-owned service lines, valves, hydrants and meters. Company employees utilized for this type of work have extensive training in the use of heavy equipment, pipe laying procedures, disinfection procedures and safety training. For water mains greater than 12-inches in diameter, stream crossings or expedited Pa DOT projects, CWC uses qualified local contractors for water main, valves and hydrant installations. These local contractors are prequalified based upon experience with similar projects, safety record, and qualifications of personnel. All project sites are inspected regularly throughout the construction process by Company personnel.

Section 8 – Outreach and Coordination with other Utilities

CWC meets annually, and often times more frequently, with the municipalities where it provides pubic water service to coordinate the replacement of water main with the reconstruction and/or repaving of streets and roadways. These meetings often times include the other utilities serving the same areas. CWC coordinates its replacement projects to coincide with other planned roadway

and utility work. PaDOT is very effective at notifying utilities well ahead of planned state highway projects making coordination of the work an easy process. In each of the municipalities where CWC provides public water service, public officials have a strong record of planning street projects far enough in advance to allow each of the major utilities to upgrade facilities as necessary.

For each project, CWC coordinates all work with the state or local municipality through planning meetings and the permitting process. In addition, CWC utilizes the PA One Call system to minimize utility conflicts and notifies customers of proposed work with door hangers throughout the construction process.

EXHIBIT 2(a)

Columbia
WATER
Company

February 19, 2020

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17105-3265

Re: Annual Asset Optimization Plan for year ending December 31, 2019

Dear Ms. Chiavetta:

Attached please find our Annual Asset Optimization Plan for year ending December 31, 2019. The plan also provides projections for the period ending December 31, 2020.

Should you have any questions, please feel free to contact me.

Sincerely,

David T. Lewis, P.E.
Vice President and
General Manager

eMail Copy: John Van Zant
Kenneth Shaffer

COLUMBIA WATER COMPANY

2019 Annual Asset Optimization Plan

The Columbia Water Company ("CWC" or "Company") is submitting this Annual Asset Optimization Plan ("AAOP") in accordance with the requirements for the Long Term Infrastructure Improvement Plan ("LTIIP") as previously submitted on August 21, 2018 in accordance with the requirements of 66 Pa. C.S. §§ 1350 - 1360 and the Public Utility Commission's Final Order for the Implementation of Act 11 of 2012 (Public Meeting of August 2, 2012, Docket No. M-2012-2293611). The Company's LTIIP covers infrastructure investment through its established Distribution System Improvement Charge ("DSIC"). The Company received Commission approval of its LTIIP on December 6, 2018 in Docket No. P-2017-2590193. This AAOP provides information on the reporting period ending December 31, 2019 and projections for the upcoming year ending December 31, 2020.

I. INTRODUCTION

The Columbia Water Company provides public water service to residential, commercial, public and industrial customers in Columbia, Marietta and Mountville Boroughs, and in West Hempfield, Manor, East Donegal and Hellam Townships, Lancaster and York Counties, Pennsylvania. The Columbia Water Company served 10,421 customers at the end of year 2019. The distribution system is comprised of water mains that vary in size from 4-inch through 16-inch with the material type being mainly cast iron and ductile iron. There is approximately 135.9 miles of water main, 10,421 service lines, 2,855 valves, 818 hydrants and 10,421 meters.

Under Commission regulations, a utility with an approved DSIC shall file an AAOP with the Commission. The AAOP must include a description the specifies all the eligible property repaired, improved and replaced in the prior 12-month period under its LTIIP and a description of the eligible property to be repaired, improved and replaced in the upcoming 12-month period.

II. ELIGIBLE PROPERTY REPAIRED, IMPROVED AND REPLACED IN THE PRIOR 12-MONTH PERIOD

ewe filed its first LTIIP on February 21, 2017 and received approval on June 14, 2017. ewe filed a modification of its LTIIP on August 21, 2018 and received approval on December 6, 2018.

The information below presents a comparison of ewe's budgeted LTIIP expenditures and quantities of property versus actual expenditures and quantities.

Table 1 - 2019 Planned versus Actual Quantities

	Mains (ft.)		Services (ea.)		Hydrants/ Valves (ea.)		Meters (ea.)	
Year	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual
2019	1,200	3,442	20	39	7	5	175	388

Table 2 - 2019 Planned versus Actual Expenditures

2019 Expenditures		
	LTIIP	**Repaired, Improved or Replaced**
Description	**Budget**	**Total**
Mains	$106,000	$174,895.89
Service	$2,400	$16,563.41
Valves	$5,000	$1,008.32
Hydrants	$5,000	$8,755.98
Meters	$39,500	$67,588.75
Total	**$157,900**	**$268,812.35**

III. ELIGIBLE PROPERTY TO BE REPAIRED, IMPROVED AND REPLACED IN THE UPCOMING 12-MONTH PERIOD

In the upcoming 12-month pe1iod ending December 31, 2020, the Company expects to make the following repairs, improvements or replacements:

Table 3 - Planned Quantities of Repairs, Improvements and Replacements for year ending December 31, 2020

Year	Mains	Services	Valves/Hydrants	Meters
2020	1,200	20	7	175

Table 4 - Planned Expenditures for Repairs, Improvements and Replacements for year ending December 31, 2020

Description	2020 Projections
Mains	$106,000
Service	$2,400
Valves	$5,000
Hydrants	$5,000
Meters	$39,500
Total	**$157,900**

VERIFICATION

I, David T. Lewis, on behalf of Columbia Water Company, hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing in this matter. This verification is made subject to the penalties of 18 Pa.C.S. § 4904 relating to unswom falsification to authorities.

David T. Lewis, P.E.
Vice President and General Manager
Columbia Water Company

EXHIBIT 2(b)

Columbia
WATER
Company

February 19, 2021

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17105-3265

Re: Annual Asset Optimization Plan for year ending December 31, 2020

Dear Ms. Chiavetta:

Attached please find our Annual Asset Optimization Plan for year ending December 31, 2020. The plan also provides projections for the period ending December 31, 2021.

Should you have any questions, please feel free to contact me.

Sincerely,

David T. Lewis, P.E.
Vice President and
General Manager

eMail Copy: John Van Zant
Kenneth Shaffer

Columbia Water Company
220 Locust Street ■ P.O. Box 350 ■ Columbia, PA 17512
Phone: 717-684-2188 ■ Fax: 717-684-4566

COLUMBIA WATER COMPANY

2020 Annual Asset Optimization Plan

The Columbia Water Company ("CWC" or "Company") is submitting this Annual Asset Optimization Plan ("AAOP") in accordance with the requirements for the Long Term Infrastructure Improvement Plan ("LTIIP") as previously submitted on August 21, 2018 in accordance with the requirements of 66 Pa. C.S. §§ 1350 - 1360 and the Public Utility Commission's Final Order for the Implementation of Act 11 of 2012 (Public Meeting of August 2, 2012, Docket No. M-2012-2293611). The Company's LTIIP covers infrastructure investment through its established Distribution System Improvement Charge ("DSIC"). The Company received Commission approval of its LTIIP on December 6, 2018 in Docket No. P-2017-2590193. A Period Review of the LTIIP was conducted by the Public Utility Commission in 2020 with the findings identified in the Opinion and Order dated October 8, 2020 at Docket No. M-2020-3019706. This AAOP provides information on the reporting period ending December 31, 2020 and projections for the upcoming year ending December 31, 2021.

I. INTRODUCTION

The Columbia Water Company provides public water service to residential, commercial, public and industrial customers in Columbia, Marietta and Mountville Boroughs, and in West Hempfield, Manor, East Donegal and Hellam Townships, Lancaster and York Counties, Pennsylvania. The Columbia Water Company served 10,481 customers at the end of year 2020. The distribution system is comprised of water mains that vary in size from 4-inch through 16-inch with the material type being mainly cast iron and ductile iron. There is approximately 136.0 miles of water main, 10,481 service lines, 2,883 valves, 829 hydrants and 10,481 meters.

Under Commission regulations, a utility with an approved DSIC shall file an AAOP with the Commission. The AAOP must include a description the specifies all the eligible property repaired, improved and replaced in the prior 12-month period under its LTIIP and a description of the eligible property to be repaired, improved and replaced in the upcoming 12-month period.

II. ELIGIBLE PROPERTY REPAIRED, IMPROVED AND REPLACED IN THE PRIOR 12-MONTH PERIOD

CWC filed its first LTIIP on February 21, 2017 and received approval on June 14, 2017. CWC filed a modification of its LTIIP on August 21, 2018 and received approval on December 6, 2018.

The information below presents a comparison of CWC's budgeted LTIIP expenditures and quantities of property versus actual expenditures and quantities.

Table 1 – 2020 Planned versus Actual Quantities

	Mains (ft.)		Services (ea.)		Hydrants/ Valves (ea.)		Meters (ea.)	
Year	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual
2020	1,200	1,262	20	43	7	11	175	150

Table 2 – 2020 Planned versus Actual Expenditures

2020 Expenditures		
	LTIIP	**Repaired, Improved or Replaced**
Description	**Budget**	**Total**
Mains	$106,000	$106,722.28
Service	$2,400	$21,337.35
Valves	$5,000	$12,709.12
Hydrants	$5,000	$8,324.00
Meters	$39,500	$37,330.00
Total	**$157,900**	**$186,422.75**

III. ELIGIBLE PROPERTY TO BE REPAIRED, IMPROVED AND REPLACED IN THE UPCOMING 12-MONTH PERIOD

In the upcoming 12-month period ending December 31, 2021, the Company expects to make the following repairs, improvements or replacements:

Table 3 – Planned Quantities of Repairs, Improvements and Replacements for year ending December 31, 2021

Year	Mains	Services	Valves/Hydrants	Meters
2021	1,200	20	7	175

Table 4 – Planned Expenditures for Repairs, Improvements and Replacements for year ending December 31, 2021

Description	**2021 Projections**
Mains	$106,000
Service	$2,400
Valves	$5,000
Hydrants	$5,000
Meters	$39,500
Total	**$157,900**

VERIFICATION

I, David T. Lewis, on behalf of Columbia Water Company, hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing in this matter This verification is made subject to the penalties of 18 Pa.C.S. § 4904 relating to unswom falsification to authorities.

David T. Lewis, P.E.
Vice President and General Manager
Columbia Water Company

EXHIBIT 2(c)

Columbia
WATER
Company

February 23, 2022

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17105-3265

Re: Annual Asset Optimization Plan for year ending December 31, 2021

Dear Ms. Chiavetta:

Attached please find our Annual Asset Optimization Plan for year ending December 31, 2021. The plan also provides projections for the period ending December 31, 2022.

Should you have any questions, please feel free to contact me.

Sincerely,

David T. Lewis, P.E.
Vice President and
General Manager

eMail Copy: John Van Zant
Kenneth Shaffer

Columbia Water Company
220 Locust Street ■ P.O. Box 350 ■ Columbia, PA 17512
Phone: 717-684-2188 ■ Fax: 717-684-4566

COLUMBIA WATER COMPANY

2021 Annual Asset Optimization Plan

The Columbia Water Company ("CWC" or "Company") is submitting this Annual Asset Optimization Plan ("AAOP") in accordance with the requirements for the Long Term Infrastructure Improvement Plan ("LTIIP") as previously submitted on August 21, 2018 in accordance with the requirements of 66 Pa. C.S. §§ 1350 - 1360 and the Public Utility Commission's Final Order for the Implementation of Act 11 of 2012 (Public Meeting of August 2, 2012, Docket No. M-2012-2293611). The Company's LTIIP covers infrastructure investment through its established Distribution System Improvement Charge ("DSIC"). The Company received Commission approval of its LTIIP on December 6, 2018 in Docket No. P-2017-2590193. A Period Review of the LTIIP was conducted by the Public Utility Commission in 2020 with the findings identified in the Opinion and Order dated October 8, 2020 at Docket No. M-2020-3019706. This AAOP provides information on the reporting period ending December 31, 2021 and projections for the upcoming year ending December 31, 2022.

I. INTRODUCTION

The Columbia Water Company provides public water service to residential, commercial, public and industrial customers in Columbia, Marietta and Mountville Boroughs, and in West Hempfield, Manor, East Donegal and Hellam Townships, Lancaster and York Counties, Pennsylvania. The Columbia Water Company served 10,529 customers at the end of year 2021. The distribution system is comprised of water mains that vary in size from 4-inch through 16-inch with the material type being mainly cast iron and ductil iron. There is approximately 138.6 miles of water main, 10,529 service lines, 2,883 valves, 828 hydrants and 10,529 meters.

Under Commission regulations, a utility with an approved DSICshall file an AAOP with the Commission. The AAOP must include a description the specifies all the eligible property repaired, improved and replaced in the prior 12-month period under its LTIIP and a description of the eligible property to be repaired, improved and replaced in the upcoming 12-month period.

II. ELIGIBLE PROPERTY REPAIRED, IMPROVED AND REPLACED IN THE PRIOR 12-MONTH PERIOD

ewe filed its first LTIIP on February 21, 2017 and received approval on June 14, 2017. ewe filed a modification of its LTIIP on August 21, 2018 and received approval on December 6, 2018.

The information below presents a comparison of ewe's budgeted LTIIP expenditures and quantities of property versus actual expenditures and quantities.

Table 1 - 2021 Planned versus Actual Quantities

	Mains (ft.)		Services (ea.)		Hydrants/ Valves (ea.)		Meters (ea.)	
Year	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual
2021	1,200	1,160	20	24	7	10	175	126

Table 2 - 2021 Planned versus Actual Expenditures

2021 Expenditures		
	LTIIP	**Repaired, Improved or Replaced**
Description	**Budget**	**Total**
Mains	$106,000	$110,068.67
Service	$2,400	$2,644.60
Valves	$5,000	$5,988.77
Hydrants	$5,000	$7,640.99
Meters	$39,500	$40,251.76
Total	**$157,900**	**$166,594.79**

III. ELIGIBLE PROPERTY TO BE REPAIRED, IMPROVED AND REPLACED IN THE UPCOMING 12-MONTH PERIOD

In the upcoming 12-month period ending December 31, 2022, the Company expects to make the following repairs, improvements or replacements:

Table 3 - Planned Quantities of Repairs, Improvements and Replacements for year ending December 31, 2022

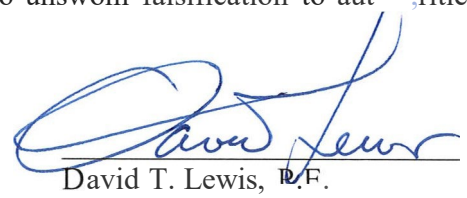
Year	Mains	Services	Valves/Hydrants	Meters
2022	1,200	20	7	175

Table 4 - Planned Expenditures for Repairs, Improvements and Replacements for year ending December 31, 2022

Description	2022 Projections
Mains	$106,000
Service	$2,400
Valves	$5,000
Hydrants	$5,000
Meters	$39,500
Total	**$157,900**

VERIFICATION

I, David T. Lewis, on behalf of Columbia Water Company, hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing in this matter. This verification is made subject to the penalties of 18 Pa.C.S. § 4904 relating to unswom falsification to aut ,rities.



David T. Lewis, P.E.
Vice President and General Manager
Columbia Water Company

VERIFICATION

I, David T. Lewis, President, on behalf of Columbia Water Company, hereby state that the facts set forth in the foregoing document are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing in this matter. This verification is made subject to the penalties of 18 Pa.C.S. § 4904 relating to unsworn falsification to authorities.

David T. Lewis, P.E.
President
Columbia Water Company

Dated: October 14, 2022

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of the foregoing document upon the parties, listed below, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a party).

VIA EMAIL ONLY

Patrick Cicero, Esquire
Office of Consumer Advocate
555 Walnut Street
5th Floor, Forum Place
Harrisburg, PA 17101-1923
pcicero@paoca.org

Richard Kanaskie, Esquire
Pennsylvania Public Utility Commission
Bureau of Investigation & Enforcement
Commonwealth Keystone Building
400 North Street
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rkanaskie@pa.gov

NazAarah Sabree
Small Business Advocate
Pennsylvania Office of Small Business Advocate
555 Walnut Street, 1st Floor
Forum Place
Harrisburg, PA 17101
ra-sba@pa.gov
tereswagne@pa.gov

/s/ Whitney E. Snyder
Thomas J. Sniscak
Whitney E. Snyder

Dated: October 17, 2022