#### STATE OF NEW JERSEY BOARD OF PUBLIC UTILITIES

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IN THE MATTER OF
AQUA NEW JERSEY, INC.'S
2022 DISTRIBUTION SYSTEM
IMPROVEMENT CHARGE
FOUNDATIONAL FILING

BPU DKT. NO. WR2205\_

**PETITION** 

#### TO THE HONORABLE COMMISSIONERS OF THE BOARD OF PUBLIC UTILITIES:

**PETITIONER**, Aqua New Jersey, Inc. (hereinafter "Petitioner," "Aqua" or the "Company"), respectfully submits this Petition pursuant to N.J.A.C. 14:9-10.1 *et seq*. to enable the implementation of a Distribution System Improvement Charge ("DSIC") and shows that:

- 1. Petitioner is a public utility corporation of the State of New Jersey subject to the jurisdiction of the New Jersey Board of Public Utilities (the "Board"). Petitioner's principal business office is located at 10 Black Forest Road, Hamilton, New Jersey 08691.
- 2. Petitioner is engaged in the business of collecting, treating and distributing water for retail service to appoximately 55,000 customers.<sup>1</sup> The Company's customers are located in several municipalities in Warren, Hunterdon, Mercer, Morris, Burlington, Monmouth, Camden, Atlantic, Ocean, Sussex and Gloucester Counties, New Jersey. The Company has generally organized its business by the following Divisions: Northern Division (based in Phillipsburg), Central Division (based in Hamilton), Eastern Division (based in Berkeley) and the Southern Division (based in Blackwood).

<sup>1</sup> Petitioner is also engaged in the wastewater collection, treatment and transmission business and currently serves approximately 6,500 wastewater customers. Accelerated wastewater investments are not the subject of this Petition.

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- 3. The purpose of this Petition is to satisfy the foundational filing requirement specified in the DSIC regulations at N.J.A.C. 14:9-10.4. As required at N.J.A.C. 14:9-10.4(c), the Company concluded a base rate proceeding and implemented base rates pursuant to an Order of the Board effective June 1, 2019 in BPU Docket No. WR18121351.
- 4. Pursuant to N.J.A.C. 14:9-10.4(b)(1), attached as Exhibit P-1 is an engineering evaluation report which identifies the rationale for the DSIC-eligible work to be performed; demonstrates that the proposed plan is cost-effective; identifies elements of the distribution system that require investment including assets which are susceptible to failure; and identifies efforts to extend the life of the distribution system assets. Pursuant to N.J.A.C. 14:9-10.4(b)(2), also included with Exhibit P-1 is DSIC project information which includes the following elements:
  - a. a list of DSIC-eligible projects;
  - b. project descriptions (with unique project identification numbers) including the nature, location, estimated duration of work (including estimated in-service dates, as well as the vintage and condition of the facilities being replaced or rehabilitated), estimated project costs, and a description and reason for the project; and
  - c. aggregate information capturing blanket-type, DSIC-eligible infrastructure projects and the estimated annual cost of such blanket-type replacement programs.
- 5. Pursuant to N.J.A.C. 14:9-10.4(b)(3), attached as Exhibit P-2 is a calculation of Aqua's base infrastructure spending. As shown on Exhibit P-2, Aqua has calculated that its base spending requirement is approximately \$4,648,617. Please note that Aqua utilized the authorized depreciation rates and balances for utility plant accounts 343, 345 and 348 as reported in its 2021 BPU Annual Report.

- 6. Pursuant to N.J.A.C. 14:9-10.4(b)(3), attached as Exhibit P-3 is a proposed DSIC rate assessment schedule showing the maximum dollar amount of the proposed DSIC rate assessment by customer class and meter size (or service connection) over the entire DSIC period, as well as the estimated maximum rate impact on customers for the entire DSIC period. As noted on Exhibit P-3, the maximum amount of annual DSIC revenues Aqua may be authorized to recover through the DSIC is capped at five percent of Aqua's total revenues established in its most recent base rate proceeding, which is approximately \$2,173,362.
- 7. Pursuant to N.J.A.C. 14:9-10.4(b)(4), attached as Exhibit P-4 is a proposed form of public notice. Aqua intends to consult with Board Staff and the Division of Rate Counsel to finalize a form of public notice acceptable to all parties.
- 8. Included in the list of DSIC-eligible projects are certain projects that are currently under way, or that may commence, during the pendency of this filing. Aqua fully intends that any spending associated with these DSIC-eligible projects will be used either to meet Aqua's base spending requirement or will be recoverable in Aqua's DSIC mechanism consistent with the Board's DSIC regulations.
- 9. Annexed hereto and made a part hereof as if fully set forth herein are the following exhibits:
  - Exhibit P-1 Engineering Evaluation Report & DSIC Project Information
  - Exhibit P-2 DSIC Base Spending Schedule
  - Exhibit P-3 DSIC Rate Assessment Schedule
  - Exhibit P-4 Proposed Form of Public Notice
- 10. The Company will supplement this Petition as needed, and as may be required by the Board for the processing of this application. Petitioner believes that it has provided all of the

information required by N.J.A.C. 14:9-10.4, and that its filing is complete at this time. Therefore, consistent with the provisions of N.J.A.C. 14:9-10.4(c), Aqua anticipates that the Board will act on its request on, or before, September 28, 2022. Further, the Company respectfully requests that the Board retain this matter for hearing and that the Board also permit the required public comment hearing to be conducted virtually to facilitate public input given the continued presence of COVID-19.

11. In addition to the Secretary of the Board, copies of this filing and all annexed exhibits are being served upon the Division of Rate Counsel and the Office of the Attorney General. Notice of the filing, a statement of its effect and of the scheduling of a public comment hearing will be furnished to Petitioner's customers by a public notice placed in newspapers published and circulated in Petitioner's service areas pursuant to the rules of the Board after the Parties have concurred on its substance. Copies of an approved form of Notice and the proposed DSIC rates will be served upon the respective municipalities, County Executives and Clerks of the Boards of County Commissioners pursuant to the Board's regulations. Proof of service of the notices referred to herein will be filed with the Board in accordance with the Board's regulations.

12. Correspondence in this matter should be addressed to the following:

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WHEREFORE, Petitioner, Aqua New Jersey, Inc., respectfully requests that the Board approve this Foundational Filing and authorize the projects and investments described herein to be eligible for inclusion in the DSIC pursuant to N.J.A.C. 14:9-10.1 *et seq.*, and that such other relief as described herein be granted by the Board.

Respectfully submitted,

Dated: May 31, 2022

By: Collen X Toley

Colleen A. Foley

Saul Ewing Arnstein & Lehr LLP Attorneys for Aqua New Jersey, Inc.

**CERTIFICATION** 

STATE OF NEW JERSEY ):

COUNTY OF MERCER

DAWN PESLAK, of full age, being duly sworn, upon her oath deposes and

says:

1. I am Controller of Aqua New Jersey, Inc., the Petitioner in the

foregoing Petition, and in that capacity I am authorized to make this Certification on behalf of

Aqua New Jersey, Inc. in this matter.

2. I have reviewed the within Petition and exhibits thereto, and the

same are true and correct to the best of my knowledge, information and belief.

3. I certify that the foregoing statements made by me are true. I am

aware that if any of the foregoing statements made by me are willfully false, I am subject to

punishment.

Dated: May 31, 2022

Dawn Peslak

### Exhibit P-1

### AQUA NEW JERSEY FOUNDATIONAL DSIC FILING REPORT

**MAY 2022** 

#### Prepared by:



Project No. 4101.003

Dated: May 2022

Entech Engineering, Inc. 500 North Centre Street | PO Box 389 | Pottsville, PA 17901-1764 (p) 570.628.5655 (f) 570.628.5097



### AQUA NEW JERSEY FOUNDATIONAL DSIC FILING REPORT May 2022

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#### > Transmission and Distribution Assessment

#### Introduction

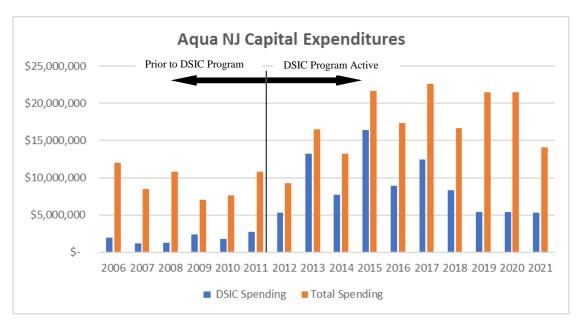
Aqua owns and operates water systems throughout the State of New Jersey. There are three main operating divisions, which serve approximately 41,000 customers in Warren, Mercer, and Camden counties. Other satellite operating divisions serving customers in Sussex, Ocean, and Gloucester Counties include numerous smaller systems. Aqua distribution systems have approximately 830 miles of pipe, serving more than 61,000 customers.

The characteristics of Aqua's systems vary across the state. The oldest three systems include the original Garden State Water Company, which was derived primarily through the previous acquisitions of People's Water Company (Phillipsburg), Hamilton Square Water Company, and Blackwood Water Company. These companies, now identified as the Northern, Central, and Southern Divisions, have expanded over the years. Still, these original companies contain the largest share of the distribution assets and the oldest assets. The other systems are much smaller and are scattered throughout the state. The largest of these other systems are the Berkeley Water Company, Lawrenceville Water Company, and Woolwich Water Company. Aqua acquired these systems within the last ten years. Lawrenceville is typical of an older community with deteriorating infrastructure. The Woolwich Water Company is a newer system that has seen tremendous growth over the past fifteen years. The water distribution systems in some of these acquired systems are in poor condition and have high water loss. Corrective measures, including water main replacement, are needed to curb the ongoing system losses.

Agua NJ's ongoing water main renewal program includes replacing aged pipes and cleaning and lining unlined cast iron pipes when deemed appropriate. The renewal program is both reactive and proactive. The reactive renewal includes targeting specific pipes that have experienced performance issues or exhibit customer service problems. For example, pipes with multiple main breaks are targeted for a replacement to eliminate service interruptions and mitigate the risk of water quality problems associated with main breaks. Similarly, dirty or red water complaints due to unlined cast iron pipes can typically be addressed by cleaning and lining that pipe. The renewal program is also proactive by targeting broad categories of pipe that have historically been problematic. An example of proactive renewal at Aqua NJ is targeting undersized water mains and asbestos cement water mains for replacement. Undersized Water mains, typically 2", 4" and 6" water mains, do not meet the current Safe Drinking Water regulations for systems with an average demand greater than 1 MGD. Asbestos Cement (AC) water mains tend to have a higher incidence of main breaks, hence demonstrating a shorter life expectancy than cast iron or ductile iron. Asbestos cement pipe failures often require extensive repair efforts and recur over time in adjacent, compromised pipe segments. Targeting this category of pipe for proactive replacement is more cost-effective to

our customers and less disruptive to communities than dealing with emergency response measures associated with main breaks.

The proposed water main renewal program for 2023 and 2024 will be primarily funded through the Distribution System Improvement Charge (DSIC) mechanism. If the NJ State legislation for the DSIC is extended, Aqua NJ will continue funding infrastructure improvements through the DSIC mechanism. All projects previously approved under the last foundational filing may start construction until this foundational filing is approved in a Board Order. The DSIC spending would be in addition to a base level of spending required by the rule-making process. On average, Aqua New Jersey has renewed just over one mile of pipe per year before implementing the NJ DSIC program. Figure 1 is a Capital Expenditure Chart showing total DSIC expenditures (covering all DSIC-eligible categories) and total capital expenditures over the period the DSIC program has been in place. Aqua has increased its investment in DSIC-related assets to improve infrastructure.



**Figure 1: Capital Expenditure History** 

The DSIC program contains a spending limit of a 5% surcharge "ceiling" between rate cases, which creates the regulatory framework needed to increase the rate of capital investment in the water main infrastructure. The regulations require both a base level of spending and the DSIC eligible spending to ensure that water utility companies increase their investment in the DSIC eligible spending categories and not just receive the 5% surcharge on capital each company had already planned to spend. For Aqua New Jersey, the base spending will be approximately \$4.65 million/year. The increase in expenditures above the base will include increasing the number of water main replacement projects, water main cleaning and lining projects, service line renewal projects, and fire hydrant and valve replacement efforts. Projects may be accelerated or deferred depending on the field conditions and the

ability to complete a specific project within the allowed time. Also, projects from new acquisitions may be added to this schedule as needed. The details of this engineering analysis will identify the rationale for accelerating the particular work needed, demonstrate that the accelerated work is the most cost-effective, identify possible failure mechanisms and identify practices that will extend the life of the distribution system assets.

#### Water Main Background

Aqua NJ initiated coordination of the water main infrastructure records in 2009. Aqua NJ has created mapping to centrally track the location of all water main and service leaks/breaks across all operating divisions. Each division has an AutoCAD map that contains the location of all the pipes, hydrants, and valves and is updated regularly to show main rehabilitation projects and developer main extension projects. This type of tracking allows Aqua to target the most problematic areas of the system with "needle mapping" so that the most problematic areas are addressed on a priority basis for the most prudent expenditure of DSIC funds.

The following tables describe the Aqua pipe inventory in terms of material, diameter, and age.

Table 1
Breakdown of Water Pipe in Aqua NJ

Area	Length (Miles)	% Of Total
Berkeley Eastern System	57.57	6.93
Blackwood System	186.63	22.47
Hamilton System	240.25	28.92
Lawrenceville System	44.29	5.33
Miscellaneous Systems	80.06	9.64
Phillipsburg System	221.78	26.70
Total	830.59	100

Table 2
Breakdown of Aqua NJ Water Pipe by Material

Metavial	Phillipsburg System		Hamilton :	Hamilton System		ood em	All Others		
Material	Length (Miles)	% of Total	Length (Miles)	% of Total	Length (Miles)	% of Total	Length (Miles)	% of Total	
Asbestos Cement	0.00	0.00	12.69	5.28	6.32	3.38	34.74	19.09	
Cast Iron	102.33	46.14	25.05	10.43	29.75	15.94	23.42	12.88	
Ductile Iron	118.36	53.37	201.95	84.06	145.85	78.15	99.68	54.79	
Other (PVC, HDPE, GALV)	0.95	0.43	0.52	0.21	4.24	2.27	23.67	13.01	
Unknown	0.14	0.06	0.04	0.02	0.47	0.25	0.41	0.23	
Total	221.78	100	240.25	100	186.63	100	181.92	100	

Table 3
Breakdown of Aqua NJ Water Pipe by Diameter

Size	Phillips Syste	•	Hamil Syste		Blackv Syste		All Others		
Size	Length (Miles)	% of Total	Length (Miles)	% of Total	Length (Miles)	% of Total	Length (Miles)	% of Total	
<=4	8.86	3.99	10.51	4.37	16.71	8.95	14.85	8.16	
6	53.45	24.10	34.70	14.44	30.22	16.19	61.53	33.82	
8	67.38	30.38	108.84	45.30	90.10	48.28	73.52	40.41	
10	11.15	5.03	2.17	0.90	0.08	0.04	3.60	1.98	
12	49.32	22.24	70.88	29.50	47.64	25.53	26.30	14.46	
>12	31.63	14.26	13.15	5.47	1.88	1.01	2.12	1.17	
Total	221.79	100.00	240.25	99.98	186.63	100.00	181.92	100.00	

Table 4
Breakdown of Aqua NJ Water Pipe by Vintage

Vaca	Phillips Syste		Hamilton :	Hamilton System		ood m	All Others		
Year	Length (Miles)	% of Total	Length (Miles)	% of Total	Length (Miles)	% of Total	Length (Miles)	% of Total	
1885-1899	4.87	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
1900-1930	39.61	17.86	1.65	0.69	0.00	0.00	3.11	1.71	
1931-1950	9.59	4.32	1.09	0.45	3.45	1.85	3.17	1.74	
1951-1980	51.91	23.41	76.71	31.93	76.63	41.06	49.32	27.11	
1981-2000	67.38	30.38	82.45	34.32	69.04	36.99	35.32	19.41	
>=2001	35.86	16.17	68.34	28.45	33.58	17.99	7.91	4.35	
Unknown Year	12.56	5.66	10.01	4.17	3.93	2.11	83.09	45.67	
Total	221.78	100	240.25	100	186.63	100	181.92	100	

Table 1 shows that most of the water mains within Aqua NJ, approximately 78% of the 831 miles, are located within the three core Aqua Systems of Phillipsburg, Hamilton, and Blackwood. Table 2 breaks down the pipe inventory by material. Of particular interest in the "All Others" systems is the 35 miles of AC pipe. AC pipe has shown to be more problematic than other types of pipe from this vintage. Typically used during the years preceding and immediately following World War II and up into the late 1950s, this material has proven to be more susceptible to main breaks than other pipes of the same age in New Jersey. Much of this pipe is now over 60 years of age and considered problematic due to the frequency and severity of main breaks.

Table 3 provides a breakdown of the pipe inventory by size and shows that between 5% and 10% of all the main systems are ≤ 4-inch diameter. Over 8% of the pipe in the "Other" systems is also this small diameter pipe. This small-diameter pipe continues to be problematic because it has a high break frequency (see Table 8) and often results in severe hydraulic restrictions, limiting the potential for fire protection. Again, both 4-inch and 6-inch diameter mains do not meet the minimum standards of NJAC 7:10-11.10 for systems with an average demand of 1.0 MGD or higher.

Table 4 provides a breakdown of pipe age. The installation date for most of the pipes is known and presented in the table. Some assumptions were made regarding the installation years based on pipe material to gather this information.

#### > System Analysis

Unlike treatment plants or other above-ground facilities, it is not practical or technically feasible to accurately assess the condition of buried assets like the pipe. However, pipe conditions can be assessed indirectly by examining specific performance measures. Examples of pipe performance measures include water main breaks and leaks, reduced hydraulic capacity (typically due to tuberculation), higher than acceptable non-revenue water levels, and customer water quality complaints.

Several mechanisms cause failures in water distribution system assets. One key mechanism causing failures is the mechanical degradation of the water main infrastructure over time. Mechanical degradation can affect all types of water infrastructure and manifests itself in various forms depending on the component. For instance, valves may become dysfunctional depending on the traffic loading and underlain soil conditions. Hydrants will fail and/or leak over time requiring repairs and/or replacement. Service laterals will develop leaks at the corporation and/or the curb stop due to traffic loading and soil conditions and require replacement. Water mains will also experience mechanical degradation based on the soil bedding techniques used, the corrosively of the soil, quality of the construction techniques, type of construction joints, etc. This does not necessarily mean that the oldest water mains should be rehabilitated first.

Further analysis on a case-by-case basis is needed on all the indirect measures to properly assess when a water main should be rehabilitated or replaced. A scoring matrix has been created by Aqua NJ, utilizing the AWWA framework, on an approximate scale of 0-25 to prioritize water main rehabilitation projects. The indirect measures are only one set of reasons why water main infrastructure needs to be rehabilitated. Other reasons such as adequate original hydraulic capacity, inadequate fire protection coverage, and non-conformance with NJDEP Safe Drinking Water sizing standard are accepted principles for upgrading the water main infrastructure.

Aqua NJ maintains a detailed database of main breaks for the main water distribution systems. This database includes the available records of water main breaks, some dating back to the 1990s. These data provide a valuable resource for analyzing main break trends. In acquired systems, Aqua has started tracking water main breaks to ascertain the needs of those systems since the acquisition date.

Table 5 shows break occurrences in the main Aqua systems by pipe material. The table compares the percentage of total breaks represented by each material and the percentage of the total length of pipe represented by each material. If all pipe materials were performing equally well, these percentages would be approximately equal. For example, if 20% of the pipe length were "Material A," we would expect 20% of the main breaks to occur on "Material A". When these percentages differ, it indicates that, in general, pipes of that material are either performing well (% of

breaks < % of length) or poorly (% of breaks > % of length). Table 5 shows that pipes in the AC and Other categories are particularly problematic in the Berkeley System. Furthermore, Cast Iron pipe is more prone to main breaks in the Phillipsburg, Hamilton, and Blackwood systems.

Table 5
Main Breaks in Major Aqua NJ Water Systems by Pipe Material

Material	Phillipsburg System			Hamilton System		wood tem	Berkeley System		
Material	% of Breaks	% of Length	% of Breaks	% of Length	% of Breaks	% of Length	% of Breaks	% of Length	
Asbestos Cement	0.00	0.00	9.09	5.28	12.50	3.38	60.00	59.78	
Cast Iron	47.83	46.14	48.48	10.43	37.50	15.94	0.00	0.00	
Ductile Iron	30.43	53.37	33.33	84.06	37.50	78.16	0.00	11.89	
Other (PVC, HDPE, GALV, Unknown)	21.74	0.49	9.09	0.23	12.50	2.52	40.00	28.34	
Total	100	100	100	100	100	100	100	100	

Although Table 5 focuses on the pipe material, pipe age is also generally viewed as a contributing factor in how often a pipe fails, which is reflected in the data. Cast iron pipe and AC pipe are the two oldest types of pipe in the Aqua NJ systems. As previously mentioned, Table 5 clearly shows that some cast iron pipes and AC pipes are performing poorly in terms of break frequency. AC pipe represents about 60% of the total length of pipe in the Berkeley system and accounts for 60% of the main breaks in that system. Breaks on AC pipes tend to be more serious when they occur, resulting in more prolonged water outages and requiring more extensive repairs to community roads or immediate emergency replacement. Alternate pipe materials, such as galvanized steel and plastics, also fail at a high rate in the Berkeley System and account for 40% of all the breaks within that system.

Cast iron pipes also appear to be failing at a higher rate than their length percentage would indicate. This is not unexpected since the cast iron pipe represents some of the oldest pipes in the system. Most notably in the Hamilton System, cast iron pipes amount to roughly 10% of the total length of all pipe in the system but yet account for almost half of the system's main breaks.

Cast iron pipe also warrants a more detailed analysis due to changes in manufacturing processes and joint types over the years. The oldest cast iron pipes were produced using a "pit cast" method, where molten iron was poured into vertical molds suspended in sandpits. This resulted in a pipe with non-uniform wall thicknesses. To compensate for the variations in thickness, the walls were thicker (0.75 inches or more depending on diameter and pressure rating). In late 1920, a new casting process was introduced using centrifugally spun molds. This allowed for thinner and more uniform pipe walls. It should be noted that the "thin" wall is

somewhat of a misnomer, given that the pipe walls were still approximately 0.5 inches or more in thickness.

A more detailed analysis of cast iron main breaks was conducted for the Phillipsburg system break data using breaks occurring between 1998 and 2021. The data was segregated into four categories based on the installation year of the pipe. The categories represented the different pit and spun cast pipe combinations with various joint types. The results are presented in the figure below. This figure presents the percentage of all cast iron pipes represented by each category and the percentage of all cast iron breaks represented by each category. As noted previously, if all the material/joint combinations were performing equally, these percentages would be the same. However, this is not the case, indicating that certain categories of cast iron pipes are performing better than others. For example, approximately 48% of the cast iron pipe in Phillipsburg is pit cast, yet only 28% of the cast iron breaks are from this category. This indicates that this category of cast iron pipe, although the oldest category, is performing reasonably well. This can be attributed to the thicker pipe walls, which provide additional strength to the pipe. On the other hand, spun cast iron pipe represents nearly 72% of the cast iron main breaks even though it only accounts for 52% of the evaluated cast iron pipe. This is believed to be due to the "new" spun cast manufactured pipe combined with the continued use of rigid joints during this period.

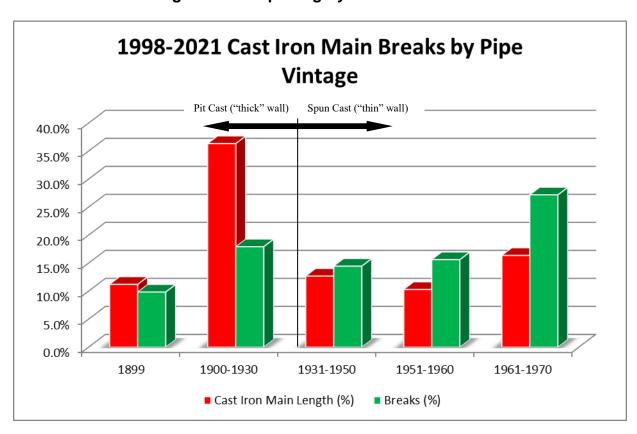


Figure 2: Phillipsburg System Main Breaks

Table 6 presents data comparing breaks and pipe diameter. The table shows that smaller diameter pipes tend to break more often than larger diameter pipes. The table shows that pipes 6-inch in diameter and smaller account for most main breaks in the Aqua NJ systems listed. All of the main breaks within the Berkeley System were experienced on the 6-inch pipe. Also, note that although the 8-inch pipe in Blackwood also has experienced the highest percentage of mains breaks, it constitutes the majority of the pipe within that distribution system.

Table 6
Main Breaks in Major Aqua NJ Water Systems by Pipe Diameter

Diameter	Phillipsburg System		Hamilton System			wood tem	Berkeley System		
	% of Breaks	% of Length	% of Breaks	% of Length	% of Breaks	% of Length	% of Breaks	% of Length	
<=4	26.09	3.99	12.12	4.37	26.56	8.84	0.00	0.00	
6	43.48	24.10	57.58	14.44	21.88	16.19	100.00	61.74	
8	26.09	30.38	21.21	45.30	43.75	48.28	0.00	24.61	
10	0.00	5.03	0.00	0.90	0.00	0.04	0.00	2.99	
12	4.35	22.24	9.09	29.5	7.81	25.53	0.00	10.65	
>12	0.00	14.26	0.00	5.47	0.00	1.01	0.00	0.00	
Unknown	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	
Total	100	100	100	100	100	100	100	100	

Leakage from pipes is a measure that can be used to ascertain the condition of a distribution system generally and when quantified, is one component of the calculation of unaccounted-for water (UAW). In a small system with low water demand, even a single small leak that goes undetected can result in a high UAW percentage. Distribution system infrastructure, including services, valves, and mains in systems with excessive UAW, warrants further investigation as candidates for replacement. In 2009, the Delaware River Basin Commission (DRBC) amended its Comprehensive Plan and Water Code to implement an updated water audit approach to identify and control water loss in the Basin. The new approach is consistent with the International Water Association (IWA) and American Water Works Association (AWWA) Water Audit Methodology, considered a best management practice in water loss control. NJDEP is also expected to adopt the

same practice in the near future. Once the NJDEP formally adopts the audit approach as the metric for water loss, future versions of this report will reflect that change.

NJDEP regulation NJAC 7:19-6.4, as part of its water conservation policy, requires systems to maintain the unaccounted-for water below 15%. While most of Aqua's systems meet the NJDEP's requirements, the DSIC program will provide the incentive to continue to reduce the unaccounted-for water in the smaller systems recently purchased by Aqua and help address the long-standing issues in Phillipsburg. The high unaccounted-for water in Phillipsburg has been isolated to the low side service gradient covering an area of 40 miles. This specific 40-mile stretch is an area that needs to be addressed given the collection of points on the needle maps; it contains the oldest water main and the largest collection of the small diameter water mains.

The hydraulic capacity of the pipe is typically evaluated using fire hydrant flow tests. Computer hydraulic models of the system are also utilized to evaluate hydraulic capacity issues. These tools help Aqua NJ identify candidate water mains with reduced hydraulic carrying capacity for replacement. Small diameter pipe serving areas with insufficient flow, low pressure, or fire hydrants is another priority for water main rehabilitation.

Finally, the additional data requested during a previous foundational filing submission is presented below. The statistic of breaks/100 miles/year for the main operating division can be found in Tables 7, 8, and 9 below for material, size, and vintage. Table 7 shows that ductile iron pipe continues to perform in this statistical category compared to other pipe materials. The length of the newer ductile iron pipe in each system is driving down the break rate in each division. That does not mean the areas of concern should not be addressed, such as cast-iron pipe installed after 1931 in Phillipsburg, Hamilton, and Blackwood.

Furthermore, other areas of concern, such as AC pipes in Blackwood and Eastern, have elevated break rates. Some areas identified in a previous foundational filing can be curtailed given the lower break metric such as the AC pipe in the Blackwood Division, which presented a break rate of 18.08 breaks/100 miles/year. Similarly, other pipe materials (galvanized steel and plastics), which generally tend to be smaller diameter pipes, also show high break rates per 100 miles/year. Much of this AC and other pipes will be considered in the candidate pool for replacement. This is not only for structural integrity reasons but rather NJAC size requirements and availability of fire flows.

Table 7
Main Breaks in Major Aqua NJ Water Systems by Material

Material		Phillipsburg System (2015 - 2021)		Hamilton System (2016 - 2021)			Blackwood System (2015 - 2021)			Berkeley System (2015 - 2021)		
Material	Length (Miles)	Breaks	Brks/100 Mi/Yr	Length (Miles)	Breaks	Brks/100 Mi/Yr	Length (Miles)	Breaks	Brks/100 Mi/Yr	Length (Miles)	Breaks	Brks/100 Mi/Yr
Asbestos Cement	0	0	0.00	12.69	3	3.94	6.32	8	18.08	34.42	3	1.25
Cast Iron	102.33	11	1.54	25.05	16	10.65	29.75	23	11.04	0	0	0.00
Ductile Iron	118.36	7	0.84	201.95	11	0.91	145.85	26	2.55	6.84	0	0.00
Other (PVC, HDPE, GALV)	0.95	5	75.19	0.52	3	96.15	4.24	7	23.58	16.0	2	1.79
Unknown	0.14	0	0.00	0.04	0	0.00	0.47	0	0.00	0.31	0	0.00
Total	221.78	23	1.48	240.25	33	2.29	186.63	64	4.90	57.57	5	1.24

Table 8
Main Breaks in Major Aqua NJ Water Systems by Diameter

Diameter		ipsburg \$ 2015 - 20	•	Hamilton Syst (2016 - 2021			Blackwood System (2015 - 2021)		•	Berkeley System (2015 - 2021)		
	Length (Miles)	Breaks	Brks/100 Mi/Yr	Length (Miles)	Breaks	Brks/100 Mi/Yr	Length (Miles)	Breaks	Brks/100 Mi/Yr	Length (Miles)	Breaks	Brks/100 Mi/Yr
<=4	8.86	6	9.67	10.51	4	6.34	16.49	16	13.86	0.00	0	0.00
6	53.45	10	2.67	34.7	19	9.13	30.22	12	5.67	35.55	5	2.01
8	67.37	6	1.27	108.84	7	1.07	90.1	32	5.07	14.17	0	0.00
10	11.15	0	0.00	2.17	0	0.00	0.08	0	0.00	1.72	0	0.00
12	49.32	1	0.29	70.88	3	0.71	47.64	4	1.20	6.13	0	0.00
>12	31.63	0	0.00	13.15	0	0.00	1.88	0	0.00	0.00	0	0.00
Unknown	0.00	0	0.00	0.00	0	0.00	0.22	0	0.00	0.00	0	0.00
Total	221.78	23	1.48	240.25	33	2.29	186.63	64	4.90	57.57	5	1.24

Table 9
Main Breaks in Major Aqua NJ Water Systems by Vintage

Year		ipsburg S 2015 - 20		Hamilton System (2016 - 2021)			Blackwood System (2015 - 2021)			Berkeley System (2015 - 2021)		
1 3 4.	Length (Miles)	Breaks	Brks/100 Mi/Yr	Length (Miles)	Breaks	Brks/100 Mi/Yr	Length (Miles)	Breaks	Brks/100 Mi/Yr	Length (Miles)	Breaks	Brks/100 Mi/Yr
1885- 1899	4.87	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00
1900- 1930	39.61	1	0.36	1.65	0	0.00	0.00	0	0.00	0.00	0	0.00
1931- 1950	9.59	2	2.98	1.09	0	0.00	3.45	5	20.70	0.00	0	0.00
1951- 1980	51.91	13	3.58	76.71	24	5.21	76.63	51	9.51	35.41	2	0.81
1981- 2000	67.38	2	0.42	82.45	6	1.21	69.04	5	1.03	15.52	2	1.84
>=2001	35.86	5	1.99	68.34	2	0.49	33.58	3	1.28	5.31	1	2.69
Unknown Year	12.56	0	0.00	10.01	1	1.67	3.93	0	0.00	1.33	0	0.00
Total	221.78	23	1.48	240.25	33	2.29	186.63	64	4.90+	57.57	5	1.24

#### > System Improvement Plan

Recognizing the need for continual renewal of the distribution system to maintain quality service to customers, Aqua has rehabilitated the water main, services, hydrants, and valves in its systems for many years. Between 2005 and 2010, Aqua replaced approximately 8 miles of pipe in its systems, equating to approximately a 400-year renewal rate (or a 0.25% renewal rate). This rate is longer than expected for any pipe materials, notwithstanding the specific issues outlined above. The creation of the DSIC rule has allowed the company to accelerate the replacement of certain assets based on macro and micro information. During the first year of the DSIC, Aqua has rehabilitated 8 miles of water main, or 1.2% of the overall system. Since the last DSIC filing in 2019, Aqua has rehabilitated eleven (11) miles of water main or 1.3% per year. This equates to an approximate 76-year renewal rate. This means that the DSIC effort has successfully accelerated rehabilitation to a rate of approximately 1%, which will maintain the current system status. A rate greater than 1% is required to reduce the candidate pool for rehabilitation.

Aqua has prioritized water main rehabilitation "candidates" at both a macro and micro level. At the macro level, general categories of pipe (for example, thin-walled cast iron from 1936-1960 and AC and galvanized pipe of all vintages) and geographic areas within a system have been identified as areas of concern. Any pipe meeting this criterion is considered a potential candidate for rehabilitation. The macro examination also eliminates certain pipes from consideration for rehabilitation. For example, ductile iron pipe less than 30 years old is typically unlikely to need rehabilitation.

Micro-level main replacement planning addresses the order in which specific pipes within the broader categories are replaced. This requires considering existing performance characteristics of the pipe, such as main break history, customer complaints, size, criticality, and other performance criteria. Needle maps have been developed for all major systems to evaluate trends and identify unique failure mechanisms causing main breaks or other operational issues. All listed water mains have been scored based on the included matrix to properly prioritize the work and create minimum standards for mains needing rehabilitation. The minimum score for a water main that will be considered for replacement is a 7 out of 20+. During the first DSIC interval, the lowest score for a project is a 7, and the highest score is a 24. Since its original inception, the Aqua NJ scoring matrix was improved to include more weight on water quality projects that would further enhance and demonstrate that cleaning and lining projects are an important component of the DSIC program as it extends the useful life of a water main in specific circumstances.

#### Macro-Level Planning

It is helpful to define the pool of potential candidate pipes for rehabilitation at the macro level. From the previous discussion, there are two broad categories of pipe that Aqua is targeting for rehabilitation based on main break trends. These are the problematic areas of AC pipe and cast-iron pipe installed between 1931 and 1950. The total length of AC pipe in all systems equals 54.06 miles. Cast Iron pipe installed between 1931 and 1950 totals 17.3 miles of main. By 2025, the "youngest" of these cast iron pipes will be approximately 75 years old, *i.e.*, installed in 1950, while the oldest thin-walled Cast Iron will be around 95 years old. AC pipe was typically installed between 1940 and 1980 and continues to show a significantly higher break rate than other materials even if those pipes are older. Berkeley AC pipe breaks account for 60% of all system breaks, with 40% of breaks occurring on other pipe materials. These potential candidates have demonstrated that the renewal rate for these classes should be shorter than one hundred years based on their ability to stand the test of time versus older materials and new ductile iron materials.

Another candidate pool is all pipes installed before 1900, regardless of material. This category has been reduced in the candidate pool to reflect the performance of this category over time. The Phillipsburg systems have approximately 40 miles of pipe installed prior to 1930 but only 5 miles were installed before 1900. Mains in these vintages will remain in the candidate pool for replacement. Much of this pipe is already over 100 years old, and over the next 15 years, the remainder will reach the 100-year age. Any pipe reaching a 100-year service life at a macro level should be considered a candidate for rehabilitation.

The last broad category of pipes to be considered are the smaller pipes (≤ 6-inch). As shown in Table 8, these pipes are experiencing some elevation in break rate and can contribute to hydraulic issues, *i.e.*, low pressure or low flow. Some of this pipe was already accounted for in the Pre-1900 and AC pipe categories, so they are not included in the total pipe in Table 10. Each specific pipe identified will be shown in the micro section and the appendices.

Table 10 summarizes these broad categories of pipes for rehabilitation or replacement. Together this totals approximately 96 miles of pipe. The additional  $\leq$  6-inch not contained in other categories is listed separately to demonstrate the need to still address these sizes of pipe for structural and/or hydraulic reasons. Over the four major systems (Phillipsburg, Hamilton, Blackwood, and Berkeley), there are roughly 190 miles of pipe  $\leq$  6-inch. This macro approach yields general categories of pipes that are candidates for rehabilitation but doesn't prioritize specific pipes within those categories. At the same time, there may be legitimate reasons for <u>not</u> rehabilitating individual pipes in one of these categories. For example, a 4-inch PVC pipe installed in the 1980s serving a small residential cul-de-sac with no fire hydrants may be perfectly acceptable. The selection of specific pipes for replacement is addressed later in this report.

Table 10
Aqua NJ Candidate Pool of Water Pipe for Replacement

Pipe Category		Miles of Pipe							
	Phillipsburg System	Hamilton System	Blackwood System	Berkeley System					
Asbestos Cement Pipe	0	12.69	6.32	34.42					
Cast Iron 1931-1950	9.59	2	4	0					
1885-1899 pipe	4.87	0	0	0					
Other (Galvanized, Plastics)	0.95	0.52	4.24	16					
Total	15.41	15.21	14.56	50.42					
≤ 6-inch pipe (partially included in above)	62.31	45.21	46.71	35.55					

This macro approach suggests that Aqua NJ has a near-term need to replace approximately 96 miles of pipe and up to 190 miles of smaller diameter mains that are potentially undersized.

As noted earlier, Aqua had rehabilitated 8 miles of the pipe over the five years before implementing DSIC. During the past DSIC filing period, 6.5 miles were replaced each year, increasing the replacement rate considerably, showing the increased investment. Virtually all of the mains in the 96-mile "Candidate Pool" shown in Table 10 will require rehabilitation over the next 20 years. At the original 1.6 mile-per-year average pace that Aqua replaced pipe between 2005 and 2010, it would take approximately 60 years to replace just the 96 miles of pipe, or 12% of the system's pipe, identified as candidates for near term replacement and, over this time, the other 88% of Aqua's pipe inventory will continue to age adding to the "Candidate Pool". However, the DSIC program has allowed this rate to increase significantly, thereby showing a path forward to address these areas of concern at the increased rate of 6.5 miles per year. Assuming the DSIC program is renewed, the entire "Candidate Pool" could be addressed over the next fifteen years. The following foundational filing template includes approximately 39 miles of water main that will be addressed from the candidate pool. This represents that 41% of the candidates will be addressed over the next six years of the DSIC program, assuming the program is renewed.

#### Micro-Level Planning

Per the previous Foundational Filings, increased weight has been given to low-pressure conditions and customer water quality complaints. The weight of these categories has increased from 2 possible points to 10 possible points. This would increase the relative value of these issues by 25%. Aqua has developed and is applying detailed mapping tools to help identify and prioritize specific pipes for replacement. Material, diameter, age, the criticality of the main, hydrant coverage,

water quality complaints, and main break history are used to assign scores to pipe segments based on the pipe's characteristics. Generally speaking, the higher the score, the greater the need for rehabilitation. The individual scores are developed from the needle mapping and are created for all the main breaks, discolored water complaints, and inventory information. This information targets the streets/areas in the most need of rehabilitation. The complete listing of all projects for the Aqua DSIC program is contained in the attached document. The needle mapping for the major company divisions is also attached to this foundation filing. The major categories conform to the macro-level planning outlined above and are further subdivided into Rehabilitation Projects, Hydraulic Improvement Projects, Service/Hydrant/Valve Renewal Programs, and Un-reimbursed Relocations. The issue of UAW is primarily captured in the hydraulic improvement sections below. The attached listing of projects outlines the specific nature of the rehabilitation project, including the information on the existing main, the proposed main the estimated cost for the individual project. For all types of projects, Aqua performs several critical functions to extend the life of the water utility's distribution network assets. At many of our well stations, the corrosion inhibitor is added to provide a film on the water main to protect the pipe from internal corrosion. Flushing is performed on a semiannual basis in all systems to minimize tuberculation accumulation. All systems are surveyed for leaks at various intervals depending on the amount of non-revenue water in the system. The water main rehabilitation scoring system ensures that the water mains in the most need of capital investment are addressed first.

#### > Rehabilitation Projects

Water mains are identified as rehabilitation type projects when: the water main has a history of leakage or breaks and/or history of water quality complaints, the system was created with obsolete material, poor construction standards were in place at the time the system was constructed, or in many cases, all of these factors combined. Historical main break records are reviewed to identify categories of mains with higher break rates. The elevated break rates compared to length are indicators of the aging infrastructure issue that is well recognized and widely accepted across the utility industry. Higher break rates per mile also indicate pockets of issues that will lead to higher rates in the next decade. Needle mapping surveys identify main break clusters and areas to be analyzed for either replacement or rehabilitation. Appendices 1-4 contain detailed lists of all the projects that fit each category; a scoring matrix that outlines the need for each project is individually listed in the appendix. In certain instances, main rehabilitation projects are spread out so that only certain township areas are affected at any one construction season to lessen community impacts. In addition, in some systems, even one main break can cause significant disruption to the system if the wells are sized only to handle the system demands. A criticality component has been incorporated into the scoring matrix to address this issue. Agua has purchased several systems over the years that experienced periods of no water pressure because one main break usually occurred due to poor craftsmanship at the time of construction. These systems need to be upgraded to provide safe and reliable service to those customers.

By accelerating these rehabilitation projects, customers will benefit from a more reliable water system that is less likely to fail and sustain the existing customer base over a longer period. The proposed rehabilitation projects are the most cost-effective solution because the program targets specific regions of the water system in which targeted rehabilitation is needed. With continuation of the DSIC program, particular areas of Aqua NJ's service area are expected to continue to experience noticeable improvements in system reliability with fewer service interruptions due to water main breaks and service breaks. As shown on Table 11, unplanned outages have significantly decreased since implementation of the DSIC program. Acceleration of Aqua NJ's main replacement program brought about with the help of DSIC funding can be credited with improved system reliability.

Table 11 - Aqua NJ Unplanned Service Outages

Year	Unplanned Outages	Unplanned Outages/ 10,000 Customers
2016	35	6
2017	25	4
2018	25	4
2019	29	5
2020	17	3
2021	26	4

Several mechanisms are causing the failures in the targeted areas of the distribution system. The mechanisms typically found are poor construction practices at the time of original installation, such as improper bedding, poor joint connection, and mismatched and random materials. Also, inferior materials utilized at the time of construction are a failure mechanism. Thin-walled cast iron has been shown to have a shorter service life than a thick-walled pipe but is less likely to break compared to the specific vintages outlined in Figure 2. Asbestos cement pipe, in certain instances, can have a shorter service life than typically expected.

#### > Hydraulic Improvements

The system hydraulic model identifies mains requiring improvements within the following areas: Transmission. fire flow, undersized mains, and criticality/redundancy. Improvements can involve installing a new main, replacing the existing main, and/or cleaning/lining. These projects aim to remedy existing deficiencies, and they all have a relatively high priority to complete. Projects to improve fire flow, water quality, and transmission problems are generally given higher priority and scheduled earliest. Hydraulic Bottlenecks are used as an analysis criterion when hydraulic modeling demonstrates that the fire flow conditions are restrained due to high-pressure drop sections of the distribution system in accordance with NJAC 7:10-11.10. The undersized pipe is an analysis criterion when water mains do not meet the criteria set forth in NJAC 7:10-11.10. The timing of renewal projects may coincide with a municipal paving project. Appendix 1

contains a detailed list of all projects that fit this category and a scoring matrix that outlines the need for each project. The scoring matrix comprises age, the main size, break history, water quality complaints, dead ends, inferior pipe materials, and divergence from the acceptable distribution main size regulations. These criteria provide a solid basis for the water main selection process. By accelerating these hydraulic improvements, customers will benefit from higher pressure and higher fire flow availability, sustaining the water distribution system. The ISO rating score for the water supply section typically can also be positively affected when distribution system assets are upgraded. The specific hydraulic improvements proposed are the most cost-effective solution because the program targets specific regions of the water system in which hydraulic improvements are needed. Over the DSIC program life, entire neighborhoods in Phillipsburg, Hamilton, Lawrenceville, and Gloucester Township will experience noticeable increases in flow and fire protection. To increase the amount of flow, the water main must be replaced in all cases to increase cross-sectional surface area. In reference to the statistics above, many of the smaller water mains, 4" and 6" are more susceptible to leakage and failure. By replacing these sections due to hydraulic limitations, two issues are addressed simultaneously.

#### > Cleaning and Lining Projects

The decision to select a lining is based on the protocol outlined in AWWA Manual M-28. Internal pipe corrosion, known as tuberculation, reduces hydraulic capacity and can produce red water complaints in metallic water mains. Mains in this structurally sound category have no graphitization or external corrosion evidence, have specific service issues and are candidates for nonstructural cement mortar linings. Mains with structural issues are candidates for fully structural lining or replacement per the matrix presented in AWWA Manual M-28. The needle mapping documents the locations of all discolored water complaints and taste and odor complaints for the past three years. Per the recommendations of a previous foundational filing, the scoring matrix has been re-evaluated, and cleaning lining projects are now presented in the Appendices of this report.

#### > Service/Hydrant/Valve Renewals

The renewal of services, hydrants, and valves are integral to sustainable infrastructure. Aqua replaces all these components on a routine basis to maintain safe and reliable service. Service replacement also reduces leakage and prevents future breaks. Service connections of lead and galvanized are obsolete and need to be replaced. Aqua NJ intends to be very aggressive in replacing galvanized service lines to eliminate lead fittings sometimes found on galvanized service lines. Hydrants support community fire protection and need to be replaced when deteriorated or obsolete. Proper fire protection saves lives, reduces property damage, and lowers insurance rates.

Valves are critical components of distribution systems and need to be replaced when broken. Valves are used to isolate mains when repairs are needed. If valves are not operational, shutdowns take longer to execute, and a larger customer area is impacted. As part of the DSIC program, regularly scheduled leak surveys for all divisions will continue to identify service renewal areas better. The highest focus areas will come from known problem areas identified on the needle mapping.

#### Un-reimbursed Utility Relocations

Counties and Townships often require water mains to be relocated at the cost of the utility to accommodate community improvement projects such as road construction and storm and sanitary sewer improvement projects. Notification for this work varies widely and is often relayed to the utility after funding decisions on water main projects have already been reached. Because this work cannot be postponed, the priority and timing will often result in the shifting of other priorities. Rehabilitations of water utility infrastructure in coordination with these activities of others are beneficial to the community and general public by minimizing multiple disruptions of the same area. The foundation filing template captures all known water main relocation projects.

#### Conclusions

Aqua will maximize, to the extent possible, the amount of water main renewal possible using the new DSIC mechanism of 5%. However, a pool of 96 miles of pipe (or 12% of the system) is in near-term need of renewal. This pool targets:

- Asbestos Cement pipe can have a high main break frequency and creates severe customer service disruptions and peripheral property damage when failures occur,
- Cast iron pipe installed between 1931 and 1950 exhibits a much greater frequency of breaks than other cast iron pipe in the system,
- Pipe of all materials installed before 1900 that is over 100 years old and at the end of its expected service life,
- Alternate pipe materials, such as galvanized steel and plastics that are of smaller diameter, aged have a higher break frequency, and sources of water quality and low-pressure complaints,
- Pipe in small, troubled systems where wholesale replacement of pipe may be the best remedy to excessive lost water due to leaks and service outages,
- Cleaning and Lining projects that meet the necessary criteria and will extend the useful life of the infrastructure,
- Smaller mains, especially in the larger systems, to increase system pressure and fire flows.

At the pre-DSIC historical average pace of 1.6 miles per year, it would take about 60 years to replace this targeted 96 miles of pipe and 115 years to replace the potentially undersized pipe. At average historic replacement costs, the requested increase to the DSIC cap may allow Aqua NJ to replace pipe at a pace nearly four times the pre-DSIC average pace and achieve the level of system renewal necessary to address this current backlog in 20 years. A 5% DSIC cap will also help offset the inordinately high-cost escalation for necessary materials and increased costs for municipal permitting, which have had, and will continue to have, a direct impact on Aqua NJ's main replacement program.

Figure 3 below illustrates the makeup of Aqua's distribution system in 2009 before the DSIC program. Figure 4 below shows the current makeup of Aqua's distribution after eleven years of rehabilitation under the DSIC program. The requested main replacement program will allow Aqua to continue to address the 96-mile backlog of distribution system water mains requiring near-term replacement on a timely basis. When the DSIC period work is completed over the next two (2) years, the makeup of Aqua's distribution system will be as shown in Figure 5. Over 69% of the mains would be ductile iron pipes. The problematic AC pipe would be reduced to approximately 6% in the system, and cast-iron water mains would be reduced to under 22%. Also, the Other (galvanized and plastic) mains would be reduced to about 3% of all pipe.

The benefits of the DSIC program are apparent from the tables below. Re-adopting the program would further improve these values and allow continued focus on the other areas of need to decrease service interruptions and make improvements to water quality and fire flows.

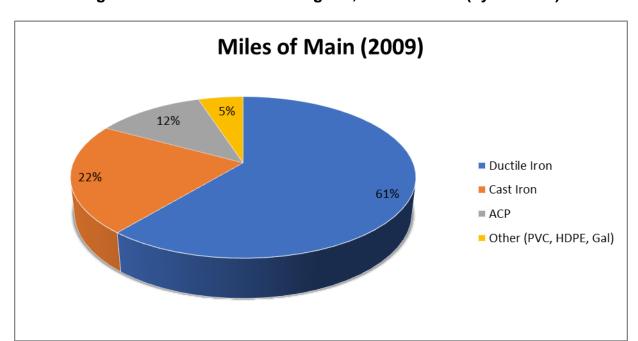


Figure 3: Prior to the DSIC Program, Miles of Main (by Material)



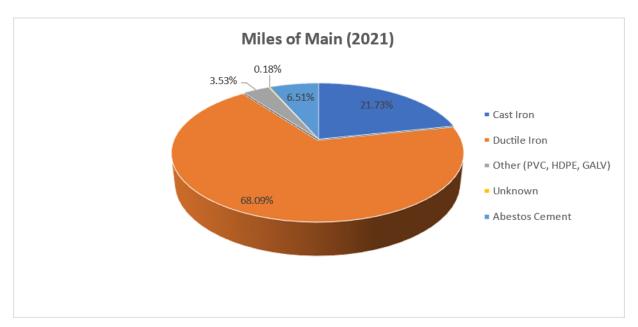
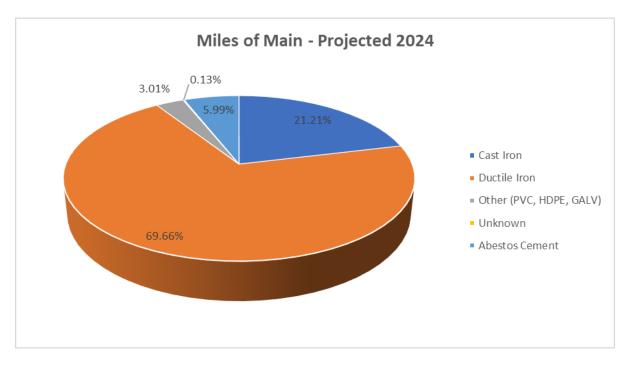


Figure 5: Projected Miles of Main (by Material)



March   Marc	Grid   2023   Hamilton   Hamilton
The Content   March	Note to ten   Grid
Property   March   M	Septement   2025   Backwood   Glouceter
Section   1985   Sect	Septement   2025   Backwood   Glouceter
Section   Column	Personal   2026 Ringel Ridge   Meland   8000 8,64   Cl   1950 9, 6   CLDP   Undersized-fire protect   52,00
Section   Color   Co	Replacement   2025   Greenwich   Greenwich     3500   6   Cl   1920   8   CDP   Undersized   5
West   Column   Col	Replacement
Company   Comp	Replacement
Section   Made Act   Mode	Replacement
Section   March   Section   Sectio	Replacement   2020   Philipsburg   Philipsburg   Philipsburg   Philipsburg   2020   Philipsburg   Philipsburg   2020   Philipsburg
Section   March   March   Section	Septement   2020   Politique   Politique   2020
Section   Mark   Mark	Replacement   2020   Philipsburg   Romburbury   Philipsburg   Cow_Service, Area   566,107 00   40   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   4   C   1,866   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   6   C   1,860   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   6   C   1,950   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   6   C   1,950   8   CLDP   Undersized   5   Replacement   2022   Philipsburg   Philipsburg   200   6   C   1,950   8   CLDP   Undersized   5   Replacement   2022   Replacement   2022   Replacement   2022   Replacement   2023   Repla
Company   Comp	Replacement
September   1986   200   201	Seplacement   2025   Philipsburg   Philipsburg   200   4   Cl   1886   8   CLDP   Undersized   5
Section   Web 197	Replacement   2022   Philipphorg   Philipphorg   200   4   Cl   1866   8   CLDP   Undersized
September   1968   1969   19	Replacement   DO22   Philipphorg   Philipphorg   Philipphorg   Do22   Philipphorg   Philipphorg   Do22
Deciment   1946, RSD	Replacement
Decision   1966   100	Replacement   2022   Philipsburg   Philipsburg   350   4 Cl   1893   8 CLDP   Undersized   5 Cl   1896   4 Cl
Experiment   MAN NEW   Wilder   March of Marchard   Registement   2230 Ringburg   Philiphoring   Philiphoring   Co.   100	Replacement   2023   Philipsburg   Philipsburg   700   4   Cl   1888   8   CLDP   Undersized   5
Section   1996   New More   Word of Bore 5.   Pagintement   203 Philiphory   1,00   4 Cl   188   8 Cl   100   10	Replacement   2022   Philipsburg   Philipsburg   4.50   4.Cl   1188   8.IC.DP   Undersized   5.
Desire   Wide 1523	Replacement   2002   Philipsburg   Philipsburg   1400   6 Cl   1940   8 CLDP   Undersized   5 CLDP   Und
September   Wide Attal	Replacement   2002   Philipsburg   Philipsburg   1400   6 Cl   1940   8 CLDP   Undersized   5 CLDP   Und
September   Work Mil   Ann	Replacement   2020   Philipsburg   Philipsburg   1800   6   Cl   1930   8   CLDP   Undersized   5
WARR CLUB   War Prock   Derry   Shown to Bibs   Spicement   2009   Philiphory   Philiphory     1000   G   C   1955   8   CLUP	Replacement
Central   WARK-COI   Control Pr	Replacement   2022   Hamilton   Hamilton   1000   6 ACP   1955   8   CLDP   Undersized   5
Central   WARK-COI   Control Pr	Replacement   2022   Hamilton   Hamilton   1000   6 ACP   1955   8   CLDP   Undersized   5
Central   WASK C102   Februard Dr.   All   Replacement   2023   Hamilton   1500   6 ACP   355   8   CLOP	Replacement         2023 [slamilition         Hamilton         1900         6 ACP         1955         8 CLDP         Undersized         5           Replacement         2022 [slamilition         Hamilton         1000 [s and 8         ACP         1955         8 CLDP         Undersized         5           Replacement         2022 [slamilition         Hamilton         652         10 ACP         1955         11 CLDP         Undersized         5           Replacement         2022 [slamilition         Hamilton         600         8 ACP         1955         8 CLDP         Undersized         5           Replacement         2022 [slamilition         Hamilton         500         8 ACP         1955         8 CLDP         Undersized         5
Central   WMM-C102   Coleman final and Geneties   Notest to notingham and Sunset   Replacement   2022 Hamilton   Humilton   1.000 and 8   AP   1955   8   CDP	Replacement         2022 Numition         Hamilton         1000 6 and 8         ACP         1955         \$ CLDP         Undersized         5           Replacement         2022 Numition         Hamilton         605         10 ACP         1955         11 CLDIP         Undersized         5           Replacement         2022 Numition         Hamilton         600         4 ACP         1955         8 (LDDP)         Undersized         5           Replacement         2022 Numition         Hamilton         600         8 ACP         1955         8 (LDDP)         Undersized         5           Replacement         2022 Numition         Hamilton         1000         6 ACP         1955         8 (LDDP)         Undersized         5
MVMR-CI3    K Cytet Ave	Replacement         2022   Numbro         Hamilton         625         1.0 ACP         1955         1.2 (DUP         Undersized         5           Replacement         2022   Numbro         Hamilton         600         4 ACP         1955         8 CLDP         Undersized         5           Replacement         2022   Numbro         Hamilton         600         8 ACP         1955         8 CLDP         Undersized         5           Replacement         2022   Numbro         Hamilton         1000         6 ACP         1965         8 CLDP         Undersized         5
Central   WMR CLOS   Source bind   Matthew to notificiplan   Replacement   2022   Furnition   Hamilton   600   6 ACP   1955   8   CLOP	Beplacement         2022 (Hamilton         Hamilton         600         8 ACP         1955         8 (CLOP         Undersized         5           Replacement         2002 (Hamilton         Hamilton         1000         6 ACP         1955         8 (CLOP)         Undersized         5
Central   WMR CLOS   Source bind   Matthew to notificiplan   Replacement   2022   Furnition   Hamilton   600   6 ACP   1955   8   CLOP	Beplacement         2022 (Hamilton         Hamilton         600         8 ACP         1955         8 (CLOP         Undersized         5           Replacement         2002 (Hamilton         Hamilton         1000         6 ACP         1955         8 (CLOP)         Undersized         5
Central   WMR-CLOB   pericho   Dorreen to Suyern   Replacement   2022   Hamilton   14milton   1200   6 ACP   1965   8   CLOP	Replacement 2022 Hamilton Hamilton 1000 6 ACP 1965 8 CLDIP Undersized S
Central   WMR-CLOB   Dozen	
Central   WMR-C109   Hughes   Mercet to Applegate   Replacement   2022   Hamilton   Hamilton   100   C.F.   1965   12   C.D.P.	Replacement         2023 Hamilton         Hamilton         1300         6 ACP         1965         8 CLDIP         Undersized         S
Central   WMR C110   Hisch and Walter   Cubberly to gark   Replacement   2022   Parmitton   Hamilton   800   10 ACP   1965   12   CLDP	Replacement   2022   Immilton   Immilton     1200   0   0   0   0   1293   0   0   0   0   0   0   0   0   0
Central   WMR-C19   Josephson/Daniels   End to End   Replacement   2023   Hamilton   Hamilton   2000   6 ACP   1955   8   CLDP	
Central   WMR-C19   Josephson/Daniels   End to End   Replacement   2023   Hamilton   Hamilton   2000   6 ACP   1955   8   CLDP	Replacement   2022  Annilton   Hamilton   800   4 ACP   1965   12 (CLD)P   Undersized   5
Central   WMR-C2	Replacement 2023 Hamilton Hamilton 2000 6 ACP 1955 8 CLDIP Undersized \$
Central   WMR-C2   Whitehore-Hem. Sq.   Notingham Way to Re 33   Replacement   2023   Hamilton   1500   4 Cl   1924   8 CLDP	Replacement 2023 Hamilton Hamilton 2000 6 ACP 1955 8 CLDIP Undersized S
Central   WMR-C23   Versified Ham. Sq.   Notingham Way to Re 33   Replacement   2023   Familion   Hamilton   1050   4C   1924   8   CLDP	Replacement         2023 Hamilton         Hamilton         500         4 CI         1924         8 CLDIP         Undersized         5
Central   WMR-C26   Bondentown-Crossworks   Bend in Road to Adophyla   Replacement   2006 (Penterfield   Chesterfield   Chesterfield   2000   G.AP   1956   12 (CLDP   Eastern   WMR-C45   Tudor /we	Replacement 2023 Hamilton Hamilton 1050 4 CI 1924 8 CLDIP Undersized \$
Central   WMR-CG   Blordentown-Crosswolds   Bend in Road to Adelphia   Replacement   2006 (Enesterfield   Chesterfield   Chesterfield   2000   G.A.P   1956   12 (CLDP   Eastern   WMR-CG   Kohre Boulveledral   mill Creek to find   Replacement   2002 (Berkeley   Berkeley   2000   G.A.P   1956   12 (CLDP   Clear   WMR-CG   Cheste so find   Replacement   2004 (Berkeley   Berkeley   1000   G.A.P   1956   12 (CLDP   Clear   WMR-CG   Clear   Clear	Replacement 2006 Hamilton Hamilton 400 G ACP 1955 12 CLDIP Undersized 5
Eastern   WMR-C45   Tutor Ave	Replacement 2026 Chesterfield Chesterfield 2000 8 unknown 1957 12 CLDIP Undersized \$
Eastern   WMR-C64   Mill Creek Road   Route 9 to Chebsa   Replacement   2005 Bentsery   Sentely   Sentel	Replacement         2022 Berkeley         Berkeley         2400         6 ACP         1958         12 CLDIP         Undersized         5
Central   WMR-CS1   Cornect CL   Castase Black to dead and   Replacement   2025   Hamilton   Mamilton   225 4° Cl   1958   S   CDP	
Central   WMR-G23   School Dr. (Windoor )	
Central   WMR-C3   Rbs. 33   Yard, Ham. 5q. 10 Endoct   Replacement   2005   Parnition   Hamilton   1150   6 ACP   1958   8   CLOP   Central   WMR-C5   Whitehore Hum. 5q. Rd.   Casters Bully to Occioner   Replacement   2004   Parnition   Hamilton   2000   10"   ACP   1957   12   CLOP   Central   WMR-C5   Whitehore Hum. 5q. Rd.   Shoprite to Res. 33   Replacement   2006   Farnition   Hamilton   1000   10"   ACP   1957   12   CLOP   Central   WMR-C5   Whitehore Hum. 5q. Rd.   Shoprite to Res. 33   Replacement   2006   Farnition   Hamilton   1000   10"   ACP   1957   12   CLOP   Central   WMR-C5   Whitehore Hum. 5q. Rd.   Shoprite to Res. 33   Replacement   2007   Farnition   Hamilton   350   4"   PCC   1976   1957   12   CLOP   Cultural   WMR-C5   West Chrush Road   Ind to find   Seplecement   2007   Farnition   Hamilton   350   4"   PCC   1976   35   CLOP   Cultural   WMR-C5   West Chrush Road   Malford ROAD   WEST LONG CHRUSH ROAD   Replacement   2007   Laversceville   Laversceville   Laversceville   Seplecement   2007   Laversceville   Cultural   WMR-C7   ITUS   COCENTAL TO ROAD   Replacement   2007   Laversceville   Laverscevill	Replacement 2025 Hamilton Hamilton 225 4* CI 1968 B CLDIP Undersized
Central   WMR-C54   Whitehore Hum. Sq. 8d.   States BML to Stockner   Replacement   2024   Isamiton	
Central   WMR-CS   Whitehrore Ham. Sq. 8d.   Shoppine to Re. 33   Replacement   2026 Hamilton   Hamilton   1000 [07"   ACP   1957   13 CIDP   Central   WMR-CS   Barry Way   GF Pillich Road   Replacement   2024 Hamilton   1000 [07"   ACP   1957   13 CIDP   Lawrenceville   WMR-CS   West Chruch Road   End to End   Replacement   2024 Hamilton   1000 [07"   ACP   1957   13 CIDP   Lawrenceville   WMR-CS   West Chruch Road   End to End   Replacement   2022 [Lawrenceville   Lawrenceville   1000 [07"   ACP   1950   10 CIDP   Lawrenceville   WMR-CS   West Chruch Road   WEST CHURCH   Replacement   2022 [Lawrenceville   Lawrenceville   Lawrenceville   1000 [07"   ACP   1957   13 CIDP   Learner   WMR-CS   West Chruch Road   WEST CHURCH   Replacement   2022 [Lawrenceville   Lawrenceville   Lawrencev	Replacement         2025 Hamilton         Hamilton         1150         GACP         1958         8 (CDIP         Undersized         S           Reducement         2024 Hamilton         Hamilton         2000,10°         ACP         1957         12 (CDIP         Undersized         S
Central   WMR-CC7   Barry Way   Off Philinic Road   Replacement   2024 Insmitton   Mamilton   350 4"   PVC   1376   8 (LDP   120 4	
Lawrenceville   MMR-GS   West Orlvah Road   End to End   Replacement   2022   Lawrenceville   Lawrenceville   150   G   C   1500   G   C   C   C   C   C   C   C   C   C	Replacement   2020  Hamilton   Hamilton   3504
Lawrenceville   WMR-GG   GARDN RAJOD   WEST LONG TO WEST GUIRCH   Replacement   2022   Lawrenceville   Lawre	
Central   WMR-G4   UNDER PS   WEST CHURCH TO DE SAMP   Replacement   2021   Lawrenceville	
Central   WMR-C73   TITUS   EDGEHILLTO ROUTE 206   Replacement   2021   Iuvernoceville   Luvernoceville	republication 2002 (averance ville Lavence ville vil
Lawrenceville   WMR-C74   EDGENILL   TITUSTO GREEN   Replacement   2025   Lawrenceville   Lawrenceville   550   2 GAL   1500   6 CLDP   Lawrenceville   VMR-C77   ROTE 206 NAD GREEN   ROUTE 205 CONNECTED TO GREEN   Replacement   2022   Lawrenceville   Lawrenceville   225   6 CL   1500   6 CLDP   Central   WMR-C8   Replacement   2024   Lawrenceville   226   Marillon   800   6 CL   1500   6 CLDP   Central   MARC8   Replacement   2024   Marillon   800   6 CL   1500   6 CLDP   CENTRAL   CENTRAL	
Central WMR-C8 Broad Street Under Turnpike Replacement 2024 Hamilton 800 6 CI 1950 6 LCI	
Central         WMR-CR         Broad Street         Under Tumple         Replacement         2024         Namition         800         6 CI         350         6 CI           Existen         WMR-CR         Broad VE FAX DR MILI (SEE X         Broad VE FAX DR MI	
Fastern WMR-C90 RAVVIII F AVE FAST OF MILL CREEK Replayment 2023 Retriefey Retriefey 2000 6 ACP 1955 8 T DIP	
	Replacement         2023 Berkeley         Berkeley         2700         6 ACP         1955         8 CLDIP         Undersized         \$
Eastern WMR-C81 RED BANK MOORAGE TO VEEDER Replacement 2023 Berkeley Berkeley 1650 6 ACP 1975 8 CLDIP	Replacement 2023 Berkeley Berkeley 1650 6 ACP 1975 8 CLDIP Undersized \$
Eastern WMR-C92 SHERMAN AVE MOORAGE TO BELL Replacement 2022 Berkeley Berkeley 950 6 ACP 1975 8 CLDIP	Replacement 2022 Berkeley Berkeley 950 6 ACP 1975 8 CLDIP Undersized 5
Eastern WMR-C83 BELMONT RED BANK TO SHERMAN Replacement 2025 Berkeley Berkeley 1200 6 ACP 1965 8 CLDIP	
Eastern WMR-C84 CARVER RED BANK TO SHERMAN Replacement 2023 Berkeley Berkeley 1200 G ACP 1975 8 CLDIP	Replacement 2023 Berkeley Berkeley 1200 6 ACP 1975 8 CLDIP Undersized \$
Eastern WMR-C85 FORD RED BANK TO SHERMAN Replacement 2025 Berkeley Berkeley 1200 6 ACP 1975 8 CLDIP	Replacement         2025         Berkeley         Berkeley         1200         6 ACP         1975         8 (LDIP         Undersized         \$
Eastern WMR-C86 BELL RED BANK TO SHERMAN Replacement 2025 Berkeley Berkeley 1200 6 ACP 1975 8[CLDP	
	Replacement         2024 Berkeley         Berkeley         1200         G/A/P         1975         B/LDIP         Undersized         5           Replacement         2023 Hamilton         Hamilton         480 (c)         A/P         1955         B/LDIP         Undersized         9
	Replacement         2023 Institution         Hamilton         480 (6"         ACP         1955         8 CLDP         Undersized         5           Replacement         2022 Institution         1 mailton         1 000         4 (2         1975         6 CLDP         Undersized         5
Central   WM8-G39   Clarin Cit and Fordham   all   Replacement   2022   Familton   Hamilton   1000   4,07   1000   4,07   1975   6 (CLDP   Central   WM8-G38   Gasy Drive Plase 1   111/2 Gary (Friendly to gateway), Evergeen, Durcan Replacement   2020   Hamilton   Hamilton   Hamilton   4,07   6,47   1975   17,28   CLDP   17,28   17,	regreen, Juncan Beplacement 2012 Framition Hamilton Low Service, Area 491,955.20 4,870 6,ACP 1955 12°,8° CLUP Jage/Undersized 51,
Central   WWR-CSUB   Gary (1) the Pelase 1   13.11/2 Carry (1) rendry (2) gateway), Levergreen   20.00   Familion   Hamilton   Hamilton   Hamilton   40.00   Familion   1.00   Familion   1.00	ergreen, Junical Registerment AUU Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1, anno, Brandywill depletement 2021 Hamilton Hamilton Low Service, Area 431,995,00 (4,477 ) 3555 127,8° (LUDP Age/Undersized S.1
Lentral WMM-(93b (asry Drive Development, Phase 2 2 2nd 21/2 Gary (trends) to gateway (, Cannon, & Arabyyov) Replacement 20/2 (Hamilton Hamilton (aw Service, Area 493,995-20 5,721 8 ALP 1955 17 8 (CLD)*  Central WMM-(93b (asry Drive Development, Phase 2 2 2nd 21/2 Gary (trends) to gateway (, Cannon, & Arabyyov) Replacement 20/2 (Hamilton Hamilton () Service, Area 493,995-20 5,721 8 ALP 1955 17 8 (CLD)*	annon, transport Replacement 2021 Hamilton Hamilton Hamilton Low Service Area 493,995.20 5,27.18" ALP 1995 12", 8" (LDIP Age/Undersized 5.1, 1995) 12", 8" (LDIP Undersized 5.1, 1995) 15", 8" (LDIP Undersized 5.1, 1995) 16", 8" (LDIP Undersized 5.1, 1995) 16", 8" (LDIP Undersized 5.1, 1995) 16", 8" (LDIP Undersized 5.1, 1995) 17", 8" (LDIP Undersized 5.1, 1995) 18", 8" (LDIP Undersized 5.
Central   WWR-C32   Divergreent   Bil   Replacement   2022   Familion   Ramilion   8/5   6/4.CP   1955   8   CLUP	
Lettral   Wink-C52   Interroption   MINR-C93   Ourcan Dr   all   Replacement   2022 Hamilton   Hamilton   1,000   GACP   1955   8   CLDP   Central   Wink-C93   Ourcan Dr   all   Replacement   2022 Hamilton   Hamilton   1,000   GACP   1955   8   CLDP	Replacement   2022   Hamilton   Hamilton   1100   6/A.P   1955   8   CLUP   Undersized   5   Replacement   2022   Hamilton   Hamilton   1000   6/A.P   1955   8   CLUP   Undersized   5   Replacement   2022   Hamilton   Hamilton   1000   6/A.P   1955   8   CLUP   Undersized   5   Replacement   2022   Hamilton   Hamilton   1000   6/A.P   1955   8   CLUP   Undersized   5   Replacement   2022   Hamilton   1000   10
Central   WMR-G3   Duracin Dr   81   Replacement   2022   Hamilton   1000   6,4CP   1955   8   CLDP   Central   WMR-G3   Safeway to   81   Replacement   2022   Hamilton   1000   6,4CP   1955   8   CLDP   Club	Replacement   2022   Isamitton   Hamilton   200   6 ACP   1955   8   CLIDP   Undersized
Central WMR-CS   Friendy Way   all   Replacement   2022   Hamilton   Hamilton   200   GAP   1955   S   CLD	Replacement 2022 Hamilton Hamilton 200 6 ACP 1955 8 CLDIP Undersized
Central WMR-C95 Ryerson Dr all Replacement 2022 Hamilton Hamilton 800 6 ACP 1965 8 CLDIP	Replacement 2022 Hamilton Hamilton 800 6 ACP 1965 8 CLDIP Undersized 5
Central         WMR-C96         Imperial         Estates to 8" at stream         Replacement         2022 Hamilton         Hamilton         300         6 ACP         1965         8 CLDIP	Replacement         2022   Hamilton         Hamilton         300         6 ACP         1965         8   CLDIP         Undersized
Central   WM8-6/37   Matthew Dr   Sunset blad, end to end   Replacement   2004   Hamilton   2000   6/4.27   1955   8   CLDP   Central   WM8-6/38   Sinely   Sinety blad to Matthew   Replacement   2002   Hamilton   1000   6/4.27   1955   8   CLDP   Central   Central	Registerment         2024 lumition         Hamilton         2000         6 ACP         1955         8 CLDP         Undersized         5           Replacement         2020 lumition         Hamilton         130         6 ACP         1955         8 CLDP         Undersized         5           More of the control of
Central   WM8-C98   Shely   Surrest bard in Matthew   Septement   2022 Hamilton   Hamilton   1200   GACP   2955   3 (LDP   Central   WM8-C98   Lawn Dr   Surrest bard in Matthew   Septement   2022 Hamilton   Hamilton   1200   GACP   2955   3 (LDP   Central   WM8-C98   Lawn Dr   Central   WM8-C98   Lawn Dr   Central   Centra	Replacement 2022  Hamilton   Hamilton   1300   6 ACP   1955   8 CLD P   Undersized   S   S   S   S   S   S   S   S   S
Northern   WMR-N108   ETNAN PACE   STONEHROGE TO POWDERHOOR   Replacement   2023   Philipsburg   Philipsburg   660   6(1   1970   8) CDP	
Northern WMR-N112 LYNUAC LUNIVAL South D3 ANALYT Replacement 2016 Philippburg Prilippburg 900 6CL 1990 6LLDP Northern WMR-N12 LYNUAC South D4 ANALYT Replacement 2016 Philippburg Prilippburg 1050 6CL 1995 6LLDP Northern MAR-N12 CALL PRILIPPBURG 1050 FCL 1995 6LLDP NORTH	Replacement
Northern WMR-N112 MAN'E SOUTH O'LEAST REPLICEMENT 2010 O'LL 1953 BLUDY NORTHERN WMR-N113 ZELLER ALLEY SNOTO END Replacement 2014 Philipburg Philipburg 1150 G'L 1953 BLUDY NORTHERN MAR-N113 ZELLER ALLEY SNOTO END Replacement 2014 Philipburg Philipburg 1150 G'L 1955 BLUDY	Replacement         AUXIP (Importuge)         1500         O U         1935         B (LLDP         Undersized         5           Replacement         2024 (Philipsburg         1150         6 (Cl         1935         8 (CLDP         Undersized         5           Replacement         2024 (Philipsburg         1150         6 (Cl         1935         8 (CLDP         Undersized         5
Northern   WMR-N114	AAAA UU AAAA UU AAAA UU UUUCIMEU 3
Northern WMR-N115 MARCH AND NEW BRUNSWICH MIDDLESEX TO PERSHING Replacement 2026 Phillipsburg Phillipsburg 1300 6 CI 1960 8 CLDIP	Replacement   2026 Phillipsburg   Phillipsburg   1150 6 C1 1935 8 C1 DIP
Northern WMR-N116 YOUNGS ROSEHILLTO RED SCHOOL Replacement 2023 [Philipsburg Philipsburg 2000 6 CI 1955 8 [CLD]P	Replacement 2026 Phillipsburg Phillipsburg 1300 6 CI 1960 8 CLDIP Undersized \$
Northern WMR-N117 LYNDA BRAKELEY TO RED SCHOOL Replacement 2026 Phillipsburg Phillipsburg 2000 6 CI 1955 8 CLDIP	Replacement 2026 Phillipsburg Phillipsburg 1300 6 CI 1960 8 CLDIP Undersized \$
Northern WMR-N119 EAST MEMORIAL PARKWAYY MILLER TO WAREEN Replacement 2025 Phillipsburg Phillipsburg 1075 6° CI 1900 12 CLDIP	Replacement         2026 Philipsburg         Philipsburg         1300         6 Cl         1960         8 (DLIP         Undersized         5           Replacement         2023 Philipsburg         Philipsburg         2000         6 Cl         1955         8 (CLIP)         Undersized         5           Replacement         2006 Philipsburg         Philipsburg         2600         6 Cl         1955         8 (DLIP)         Undersized         5
Northern WMR-N125 Congress Street Green St. to Columbus Ave Replacement 2020 Regal Ridge Holland Phillipsburg, Low, Service, Area 28,097.10 810 4* 8*	Replacement         2026 Philipsburg         Philipsburg         1300         6 Cl         1960         8 CLDP         Undersized         5           Replacement         2020 Philipsburg         Philipsburg         2000         6 Cl         1955         8 CLDP         Undersized         5           Replacement         2026 Philipsburg         Philipsburg         2600         6 Cl         1955         8 CLDP         Undersized         5           Replacement         2026 Philipsburg         Philipsburg         1075 G*         Cl         1900         12 CLDP         Undersized         5
	Replacement   2006  Philipsburg   Hillipsburg   1300   6 Cl   1960   8 CLDP   Undersized   5
Northern WMR-N126 Sycamore and Maplewood All Replacement 2021 Riegel Ridge Holland Riegel_Ridge_Low_Service_Area 28,097.10 1,500 4** 8"	Replacement   2020  Philipsburg   Philipsburg   1300   6 (1 1950   8 (DDP Undersized 5 5 )
Northern VMAR-1125 Syramore and Majelewood All Replacement 2021 Regel Ridge to United Riegel Ridge (Low Service, Area 28,097.10 1,500 4" 5" 5" Northern VMAR-1127 OAK I Low Milling Replacement 2021 Regel Ridge (Low Service, Area 28,097.10 1,500 4" 5" 5" Northern VMAR-1127 OAK I Low Milling Replacement 2021 Regel Ridge (Low Service, Area 28,097.10 1,500 4" 5" 5" 5" 5" 5" 5" 5" 5" 5" 5" 5" 5" 5"	Replacement
Northern         WMR-N125         Systamore and Majelewood         All         Replacement         2021 Riegel Ridge         Holland         Riegel Ridge Low Service Area         28,097.10         1,500 4**         5*           Northern         WMR-N127         Oak Lane, Millview & Fernwood         All         Replacement         2022 Riegel Ridge         -	Replacement   2020  Philipsburg   Philipsburg   1300   6 (1 1950   8   CDP   Undersized   5
Northern   MMR-N125   Syzamore and Maplewood   All   Replacement   2021   Regel Ridge   Nolland   Riegel Ridge   Low Service, Area   28,097:10   1,500 4"   5"	Replacement
Northern   WMR-N125   Systamore and Majelewood   All   Replacement   2021   Regel Ridge   Nolland   Riegel Ridge   Low Service_Area   28,097.10   1,500.4"   S'	Replacement   2020   Philipsburg   Philipsburg   1300   6 (1 1956   8   CDP   Undersized   5
Northern   MM-R-1125   Syzamore and Maplewood   All   Replacement   2021   Regel Ridge   Nolland   Regel Ridge   Low Service, Area   28,097.10   1,500.4"   5"	Replacement
Northern   WM-8-1126   Syzamore and Majplewood   All   Replacement   2021   Regel Ridge   Molland   Regel Ridge   Low Service, Area   2,0.07:10   1,000 4°   8°	Replacement   2020   Philipsburg   Philipsburg   1300   6 (1 1956   8   CDP   Undersized   5
Northern   WMA-1126   Syzamore and Majplewood   All   Replacement   2021   Regel Ridge   Molland   Regel Ridge   Low Service, Area   28,097.10   1,500 4"   5"   5"	Replacement
Northern   WMAR-1126   Sycamore and Majelewood   All   Replacement   2021 Regel Ridge   Holland   Regel Ridge   Low, Service, Area   2,0.07:10   1,000   4"   8"	Replacement   2020   Philipsburg   Philipsburg   1300   6   Cl   1960   8   CLDP   Undersized   5
Northern   WMR-126   Sycamor and Maplewood   All   Replacement   2021 Regel Ridge   Wolland   Riegel Ridge   Low Service Area   2,007:10   1,000   1,000   1	Replacement   2020   Philipsburg   Philipsburg   1300   6 (1   1950   8   CLDP   Undersized   5
Northern   WARR-1125   Sycamore and Maplewood   All   Replacement   2021 Regist Ridge   Wolland   Regist Ridge   Low, Service, Area   2,00710   1,500 6"   8"   Northern   WARR-1127   Ook Lamp, Millinger & Ferrencood   All   Replacement   2021 Regist Ridge   Wolland   Regist Ridge   Low, Service, Area   2,00710   1,500 6"   1   1,500	Replacement   2020   Philipsburg   Philipsburg   1300   6 Cl   1960   8   CLDP   Undersized   5
Northern   WMR-N126   Sycamore and Maplewood   All   Replacement   2021 Regis Ridge   Holland   Regis Ridge   Low_Service_Ares   2,0,071.0   1,500 d*   5   5	Replacement   2020   Philippung   Philippung   1300   6 Cl   1960   8   CLDP   Undersized   5
Northern   WARR-1126   Sycamore and Maplewood   All   Replacement   2021 Regist Ridge   Walland   Regist Ridge   Low, Service, Area   2,00710   1,500 6"   8"	Replacement
Northern   WASK-1126   Sycamore and Maplewood   All   Registement   2021 Regist Ridge   Molland   Regist Ridge   Low Service, Area   2,00710   1,000 4"	Replacement   2020   Philipsburg   Philipsburg   1300   6 Cl   1950   8   CLDP   Undersized   5
Northern   WARR-1125   Sycamone and Maplewood   All   Replacement   2021 Regist Ridge   Wolland   Regist Ridge   Low, Service, Area   2,00710   1,000 4"   9"   Northern   WARR-1125	Replacement
Northern   WMR-N126   Sycamors and Majewood   All   Replacement   2021 Regel Ridge   Wolland   Regel Ridge   Low, Service, Area   2,00710   1,000 4°   1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°   1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°   1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°     1,000 4°   1,000 4°     1,000 4°   1,000 4°     1,000 4°   1	Replacement
Northern   WARR-N125   Sycamore and Maplewood   All   Replacement   2021 Reging Ridge   Holland   Reging Ridge   Low, Service, Area   2,00710   1,500 d*	Replacement
Northern   WMA-N126   Sycamore and Majelewood   All   Replacement   2021 Regel Ridge   Holland   Regel Ridge   Low Service, Area   2,007:10   1,000   1   1,000	Replacement   2020   Philipsburg   Philipsburg     1200   6 Cl   1965   8 CLDP   Undersized   5 cl   1965

Northern		WARREN	MARSHALL TO HECKMAN	Replacement	2023 Phillipsburg	Phillipsburg		700	4 CI	1900	8 CLDIP	Undersized	\$175,000
Northern		GRANT AND STOCKTON	HECKMAN TO STOCKTON	Replacement	2024 Phillipsburg	Phillipsburg		450	4 CI	1930	6 CLDIP	Undersized	\$112,500
Northern		BELT	BEST TO CENTER	Replacement	2023 Phillipsburg	Phillipsburg		650	4 CI	1955	8 CLDIP	Undersized	\$162,500
Northern	WMR-N91	BEST	NO. RIVERVIEW TO ELMHERST	Replacement	2025 Phillipsburg	Phillipsburg		900	4 CI	1955	8 CLDIP	Undersized	\$225,000
Northern	WMR-N92	OHIO	SUSSEX TO PASSIAC	Replacement	2024 Phillipsburg	Phillipsburg		550	6 CI	1965	8 CLDIP	Undersized	\$137,500
Northern	WMR-N93	RIVERSIDE WAY	RIVERSIDE WAY	Replacement	2023 Phillipsburg	Phillipsburg		425	2 (1	1900	6 CLDIP	Undersized	\$106,250
Northern		E SHORE TRAIL 6" PIPE	E SHORE TRAIL	Replacement	2023 Summit Lake	Summit Lake		1300	6 ACP	1950	6 CLDIP	Material & Age	\$325,000
Northern	WMR-N95	E. SHORE TRAIL 2"PIPE	E. SHORE TRAIL	Replacement	2022 Summit Lake	Summit Lake		390	2 GAL	1950	2 2	Age	\$97,500
Northern		W. SHORE TRAIL 2" PIPE	W. SHORE TRAIL	Replacement	2022 Summit Lake	Summit Lake		420	4 ACP	1950	4 2	Age	\$105,000
Northern	WMR-N96 WMR-N97	OAK AND W. SHORE TRAIL 2" PIPE	OAK AND W. SHORE TRAIL	Replacement		Summit Lake		700		1950	4 7		
					2022 Summit Lake				2 GAL		2 ?	Age	\$175,000
Northern		W. SHORE TRAIL 6" PIPE	W. SHORE TRAIL	Replacement	2022 Summit Lake	Summit Lake		1020	6 CI	1950	6 CLDIP	Age	\$255,000
Northern		BEACH PLAZA	BEACH PLAZA	Replacement	2022 Summit Lake	Summit Lake		310	2 GAL	1950 ?	?	Age	\$77,500
Southern		4" Line	Between Fairmount & Asyla	Replacement	2024 Gloucester	Gloucester		570	4 ACP	1963	8 CLDIP	Undersized	\$142,500
Southern	WMR-S31	Service to B'Wood Sch	Theresa to School	Replacement	2026 Gloucester	Gloucester		510	4 ACP	1957	8 CLDIP	Undersized	\$127,500
Southern	WMR-S32	Theresa	Church to South	Replacement	2025 Gloucester	Gloucester		440	4 ACP	1957	8 CLDIP	Undersized	\$110,000
Southern	WMR-S35	Barbara	Barbara	Replacement	2024 Gloucester	Gloucester		320	6 ACP	1963	8 CLDIP	Undersized	\$80,000
Southern	WMR-S36	Carol	Carol	Replacement	2023 Gloucester	Gloucester		1570	6 ACP	1957	8 CLDIP	Undersized	\$392,500
								810					\$202,500
Southern	WMR-S38	Cornell	Cornell	Replacement	2024 Gloucester	Gloucester			6 ACP	1957	8 CLDIP	Undersized	
Southern		Dearbourne	High to End	Replacement	2024 Gloucester	Gloucester		2570	6 ACP	1963	8 CLDIP	Undersized	\$642,500
Southern	WMR-S43	Fairmount	High to State	Replacement	2026 Gloucester	Gloucester		1800	6 ACP	1963	8 CLDIP	Undersized	\$450,000
Southern	WMR-S44	Fay Ann	Fay Ann	Replacement	2026 Gloucester	Gloucester		1070	6 ACP	1963	8 CLDIP	Undersized	\$267,500
Southern		Grand	High to State	Replacement	2025 Gloucester	Gloucester		1800	6 ACP	1957	8 CLDIP	Undersized	\$450,000
Southern	WMR-S46	Hillcrest	Hortman to Frankford	Replacement	2026 Gloucester	Gloucester		2450	6 ACP	1957	8 CLDIP	Undersized	\$612,500
Southern	WMR-S47	Hortman	Drexel to Hillcrest	Replacement	2024 Gloucester	Gloucester		650	4 ACP	1957	8 CLDIP	Undersized	\$146,250
Southern		lerome	lerome	Replacement	2024 Gloucester	Gloucester	<del>                                     </del>	810	6 ACP	1957	8 CLDIP	Undersized	\$202,500
Southern			Fairmount to End	Replacement	2026 Gloucester 2026 Gloucester	Gloucester		650	6 ACP	1963	8 CLDIP	Undersized	\$162,500
		Lehigh					1						
Southern		Linda	Barbara to 4"p	Replacement	2023 Gloucester	Gloucester		1370	6 ACP	1963	8 CLDIP	Undersized	\$342,500
Southern		Mathews	Drexel to Hillcrest	Replacement	2026 Gloucester	Gloucester		500	6 ACP	1957	8 CLDIP	Undersized	\$125,000
Southern	WMR-SS5	Pennsylvania	Pennsylvania	Replacement	2025 Gloucester	Gloucester		930	6 ACP	1957	8 CLDIP	Undersized	\$232,500
Southern	WMR-SS6	South	South	Replacement	2026 Gloucester	Gloucester		1320	6 ACP	1957	8 CLDIP	Undersized	\$330,000
Southern	WMR-S57	State	Lake to Carol	Replacement	2024 Gloucester	Gloucester		1100	6 ACP	1957	8 CLDIP	Undersized	\$275,000
Southern	WMR-SS8	State	Carol to Hillcrest	Replacement	2026 Gloucester	Gloucester		1350 6 (8)	ACP	1963	8 CLDIP	Undersized	\$337,500
Southern	WMR-SS9	Theresa	South to the end	Replacement	2026 Gloucester	Gloucester		660	6 ACP	1957	8 CLDIP	Undersized	\$165,000
Southern	WMR-S60	Trinity	Indiana to Cecilia	Renlacement	2024 Gloucester	Gloucester		1150	6 ACP	1957	8 CLDIP	Undersized	\$287 500
	WMR-S60		Indiana to Cecilia		2024 Gloucester			1150	6 ACP	1957	8 CLDIP		\$287,500
Southern	WMR-S66	Vassar	Vassar Pl.	Replacement	2024 Gloucester	Gloucester		100	6 ACP	1957	8 CLDIP	Undersized	\$25,000
Southern Southern	WMR-S66 WMR-S68	Vassar Presidential	Vassar Pl. Kings Road to Noble	Replacement Replacement	2024 Gloucester 2022 Blackwood	Gloucester Blackwood		100 1200		1957 1975	8 CLDIP 8 CLDIP	Undersized Undersized	\$25,000 \$300,000
Southern Southern Southern	WMR-S66 WMR-S68 WMR-S70	Vassar Presidential LAKELAND ROAD	Vassar Pl. Kings Road to Noble BLACKHORSE PIKE TO RAILROAD	Replacement Replacement Replacement	2024 Gloucester 2022 Blackwood 2023 Gloucester	Gloucester Blackwood Gloucester		100 1200 1000	6 ACP 4 DI 6 CI	1957 1975 1955	8 CLDIP 8 CLDIP 12 CLDIP	Undersized Undersized Undersized	\$25,000 \$300,000 \$250,000
Southern Southern Southern Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72	Vassar Presidential LAKELAND ROAD Kay Lane & Jarvis Ct.	Vassar PI. Kings Road to Noble BLACKHORSE PIKE TO RAILROAD All	Replacement Replacement Replacement Replacement Replacement	2024 Gloucester 2022 Blackwood 2023 Gloucester 2026 Blackwood	Gloucester Blackwood Gloucester Blackwood		100 1200 1000 600	6 ACP 4 DI 6 CI 4 PLASTIC	1957 1975 1955 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP	Undersized Undersized Undersized Undersized	\$25,000 \$300,000 \$250,000 \$150,000
Southern Southern Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73	Vassar Presidential LAKELAND ROAD	Vassar Pl. Kings Road to Noble BLACKHORSE PIKE TO RAILROAD	Replacement Replacement Replacement	2024 Gloucester 2022 Blackwood 2023 Gloucester 2026 Blackwood 2020 Blackwood	Gloucester Blackwood Gloucester		100 1200 1000 600 1,765	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI	1957 1975 1955 1955 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP	Undersized Undersized Undersized Undersized Undersized Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250
Southern Southern Southern Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73	Vassar Presidential LAKELAND ROAD Kay Lane & Jarvis Ct.	Vassar PI. Kings Road to Noble BLACKHORSE PIKE TO RAILROAD All	Replacement Replacement Replacement Replacement Replacement	2024 Gloucester 2022 Blackwood 2023 Gloucester 2026 Blackwood	Gloucester Blackwood Gloucester Blackwood		100 1200 1000 600 1,765 400	6 ACP 4 DI 6 CI 4 PLASTIC	1957 1975 1955 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP	Undersized Undersized Undersized Undersized	\$25,000 \$300,000 \$250,000 \$150,000
Southern Southern Southern Southern Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73	Vassar Presidential LAKELAND ROAD Ksy Lane & Jarvis Ct. Glenn and West Railroad	Vassar PI. Kings Road to Noble BLACKHORSE PIKE TO RAILROAD All Pine to Marshall	Replacement Replacement Replacement Replacement Replacement Replacement	2024 Gloucester 2022 Blackwood 2023 Gloucester 2026 Blackwood 2020 Blackwood	Gioucester Blackwood Gioucester Blackwood Gioucester Blackwood Gioucester Blackwood Low_Service_Area		100 1200 1000 600 1,765	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI	1957 1975 1955 1955 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP	Undersized Undersized Undersized Undersized Undersized Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250
Southern Southern Southern Southern Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73 WMR-S74	Vassar Presidential LAKELAND ROAD Kay Lane & Jarvis Ct. Glenn and West Railroad Apple Ave	Vassar PI. Kings Road to Noble BLACKHORSE PIKE TO RAILROAD All Pine to Marshall Cummins to dead end	Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement	2024 Gloucester 2022 Blackwood 2023 Gloucester 2026 Blackwood 2020 Blackwood 2022 Blackwood	Gloucester Blackwood Gloucester Blackwood Gloucester Blackwood Gloucester Blackwood Low_Service_Area Blackwood		100 1200 1000 600 1,765 400	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC	1957 1975 1955 1955 1975 1,975 1,975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 6 CLDIP	Undersized Undersized Undersized Undersized Undersized Undersized Undersized Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250 \$100,000
Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73 WMR-S74 WMR-S75 WMR-S75	Vassar Presidential LAKELAND ROAD Kay Lane & Jarvis Ct. Glenn and West Rairoad Apple Ave Frankford Äve Blackhorse Pike	Vassar Pl. Kings Road to Noble BLACKHORSE PIKE TO RALIROAD All Pine to Marshall Cummins to dead end Black Horse Pike to Hillcrest easement Black Horse Pike to Hillcrest easement	Replacement	2024 Gloucester 2022 Blackwood 2023 Gloucester 2026 Blackwood 2020 Blackwood 2020 Blackwood 2021 Blackwood 2024 Blackwood 2024 Blackwood 2024 Blackwood	Gloucester Blackwood Gloucester Blackwood Gloucester Blackwood Gloucester Blackwood Blackwood Blackwood Blackwood Blackwood Blackwood		100 1200 1000 600 1,765 400 2400	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC 6 ACP 6 ACP	1957 1975 1955 1955 1975 1,975 1975 1975 1955	8 CLDIP  8 CLDIP  12 CLDIP  6 CLDIP  8 CLDIP  6 CLDIP  8 CLDIP  12 CLDIP	Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250 \$100,000 \$600,000
Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73 WMR-S74 WMR-S75 WMR-S75 WMR-S76 WMR-S76	Vastar Versidential LAKELAND ROAD Kay Lane & Jarvis Ct. Glenn and West Rairoad Apple Ave Frankford Ave Blackhorse Pike Pennsylvania Ave	Vassar P. Gings Road to Nobbe BLACKHORSE PIKE TO RAILROAD All Pime to Marshall Cummins to dead end Black Horse Pike to Hillcrest easement Black Horse Pike to Hillcrest easement Lake to End	Replacement	2024 Gloucester 2022 Blackwood 2023 Gloucester 2026 Blackwood 2020 Blackwood 2020 Blackwood 2021 Blackwood 2021 Blackwood 2024 Blackwood 2024 Blackwood 2020 Slackwood 2020 Slackwood 2020 Slackwood 2020 Slackwood	Gloucester Blackwood Gloucester Blackwood Gloucester Blackwood Blackwood Blackwood Blackwood Blackwood Blackwood Blackwood Blackwood Blackwood		100 1200 1000 600 1,765 400 2400 2400 325	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC 6 ACP 6 ACP 2 Gal	1957 1975 1975 1975 1975 1,975 1975 1955 1940	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 6 CLDIP 8 CLDIP 12 CLDIP 12 CLDIP 12 CLDIP	Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250 \$100,000 \$600,000 \$1,080,000 \$81,250
Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73 WMR-S74 WMR-S74 WMR-S75 WMR-S76 WMR-S78 WMR-S78	Vassur Presidential LAKELAND ROAD LAKELAND ROAD LAYLAND ROAD Edy June & Jarvis Ct. Gleen and West Rafroad Applie Ave Frankford Ave Blackhorse Rike Pennsykania Ave Lincola Ave	Vassar Pi. Kong Road to Noble BLACHORSE PIKE TO RAILROAD AI Pine to Marthali Commins to Ged end end Black Horse Pike to Hillcrest essement Black Horse Pike to Hillcrest essement Lake to Grd Black Horse Pike to Machington	Replacement	2024 Gloucester 2022 Blackwood 2023 Gloucester 2026 Blackwood 2020 Blackwood 2022 Blackwood 2022 Blackwood 2024 Blackwood 2024 Blackwood 2024 Blackwood 2026 Blackwood 2027 Blackwood 2027 Blackwood 2028 Dlackwood 2028 Blackwood	Gourester Slackwood Gloucester Slackwood Gloucester Slackwood Low_Service_Area Slackwood Slackwood Slackwood Slackwood Slackwood Slackwood Slackwood Slackwood Slackwood		100 1200 1000 600 1,765 400 2400 2400 325 1000	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC 6 ACP 6 ACP 2 Gal 6 CI	1957 1975 1975 1975 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 6 CLDIP 6 CLDIP 7 CLDIP 8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 8 CLDIP	Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000
Southern	WMR-566 WMR-568 WMR-570 WMR-572 WMR-573 WMR-574 WMR-575 WMR-576 WMR-576 WMR-579 WMR-579	Vassar  Vassar  LAKE, AND ROAD  LAKE, AND ROAD  Kay June B, Jan's C.  Gleen and West Raforod  Apple Ave  Frankford, Apple Ave  Frankford, Apple Ave  Frankford, Apple Ave  Lucola Ne  Lucola Ne  Carfield  Garfield	Vasser Fr.  Gong Road to Nobbe BLACHORSE PINE TO BARROAD  RI  Pine to Marshall  Gourman to deed end  Black Horse Pine to Misraria desement  Black Horse Pine to Misraria desement  Black Horse Pine to Misraria desement  Black Horse Pine to Washington  Blackhorse Pine to Washington	Replacement	2024   Gloucester	Glucester Blackwood Glucester Blackwood Glucester Blackwood Low_Service_Area Blackwood		100 1200 1000 600 1,765 400 2400 2400 325 1000	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC 6 ACP 6 ACP 2 Gal 6 CI 6 CI	1957 1975 1975 1975 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 6 CLDIP 8 CLDIP 7 CLDIP 8 CLDIP 12 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP	Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250 \$600,000 \$1,080,000 \$81,250 \$250,000
Southern	WMR-566 WMR-568 WMR-570 WMR-572 WMR-573 WMR-574 WMR-575 WMR-575 WMR-578 WMR-579 WMR-579 WMR-580 WMR-580	Vassur Presidential LAKELAND ROAD LAKELAND ROAD LAYLAND ROAD Kay June & Jan's Ct. Gleen and West Rairoad Apple Ave Frankford Ave Blackhorse Rike Pennsykania Ave Luncoln Ave Garfield Lakeview	Vassar Pi. Kongs Road to Noble BLACHORSE PIKE TO RAILROAD AI Pine to Marshall Cummins to dead end Black Horse Pike to Hillcrest essement Black Horse Pike to Hillcrest essement Lake to End Black Horse Pike to Washington Blackhorse Pike to Washington Prospect to End	Replacement Seplacement Seplacement Seplacement Seplacement Replacement	2024 Gloscester 2022 Blackwood 2023 Gloscester 2026 Blackwood 2023 Gloscester 2026 Blackwood 2024 Blackwood 2024 Blackwood 2024 Blackwood 2024 Blackwood 2026 Blackwood 2027 Blackwood 2028 Blackwood 2029 Blackwood 2029 Blackwood 2020 Blackwood 2020 Blackwood 2021 Blackwood	Gourester Blackwood Glouester Blackwood Glouester Blackwood Low_Senvice_Area Blackwood		100 1200 1000 600 1,765 400 2400 325 1000 1000	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC 6 ACP 6 ACP 2 Gal 6 CI 6 CI 6 CI 6 CI	1957 1975 1975 1975 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 6 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP	Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250 \$100,000 \$1,080,000 \$81,250 \$250,000 \$250,000
Southern	WMR-566 WMR-568 WMR-570 WMR-570 WMR-572 WMR-573 WMR-573 WMR-574 WMR-575 WMR-576 WMR-576 WMR-579 WMR-579 WMR-581 WMR-581	Vassar Presidential LAKELAND ROAD  Kay June & Jarvis Ct. Glenn and West Rafroad Apple Ave Frankford Ave Bookchorer Rive et Lincoln Rive	Vasser Pr.  (Gong Road to Noble BLACHORSE PINE TO BAILROAD BLACHORSE PINE TO BAILROAD AI  Pine to Manhall Committe to deale and Back Notes Pine to Historiest easement Back Notes Pine to Historiest easement Backhorse Pine to Washington Blackhorse Pine to Washington Prospect to End	Replacement	2024 Gloucester 2022 Blackwood 2022 Gloucester 2022 Gloucester 2023 Gloucester 2026 Gloucester 2020 Gloucester 2020 Gloucester 2020 Gloucester 2020 Gloucester 2020 Gloucester 2021 Gloucester 2022 Gloucester 2022 Gloucester 2023 Gloucester 2023 Gloucester 2024 Gloucester 2025 Gloucester 2026 Gloucester 2027 Gloucester 2027 Gloucester 2028 Gloucester 2028 Gloucester 2029 Gloucester 2029 Gloucester 2020 Gloucester	Glucester Blackwood Cloucester Blackwood Glucester Blackwood Low_Service_Area Blackwood		100 1200 1000 600 1,765 400 2400 2400 2400 1000 1000	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC 6 ACP 6 ACP 2 Gal 6 CI 6 CI	1957 1975 1975 1975 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 6 CLDIP 8 CLDIP 7 CLDIP 8 CLDIP 12 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP	Undersized	\$25,000 \$300,000 \$250,000 \$441,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$250,000 \$250,000
Southern	WMR-566 WMR-568 WMR-570 WMR-570 WMR-572 WMR-573 WMR-574 WMR-574 WMR-575 WMR-576 WMR-578 WMR-580 WMR-580 WMR-581 WMR-581 WMR-582 WMR-582	Vassur Presidential LAKELAND ROAD LAKELAND ROAD LAY LANG SAIN'S CL. Gleen and West Rairo ad Apple Ave Frankford Ave Blackhorse Rike Pennykania Äve Lincoln Äve Garfield Lakeview Leikjeh Leikjeh Cummings Fäirview and Gräsbbury	Vassar P.  Kung Road to Noble BLACHORSE PIKE TO RAILROAD AI  Pine to Marshall Cummins to dead end Black Horse Pike to Hillcrest essement Black Horse Pike to Hillcrest essement Lake to Grd Black Horse Pike to Washington Blackhorse Pike to Washington Prospect to Find Indiana to Cecilia Amonesson Rid to Osik Ave	Replacement Seplacement Seplacement Seplacement Seplacement Replacement	2022 Gloucester 2023 Gloucester 2023 Gloucester 2026 Blackwood 2020 Blackwood 2020 Blackwood 2021 Blackwood 2022 Blackwood 2023 Blackwood 2023 Blackwood 2023 Blackwood 2024 Blackwood 2025 Blackwood 2026 Blackwood	Gourester Blackwood Glouester Blackwood Glouester Blackwood Low_Senvice_Area Blackwood		100 1200 1000 600 1,765 400 2400 2400 325 1000 1000 1000 2,310	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC 6 ACP 6 ACP 2 Gal 6 CI 6 CI 6 CI 6 CI	1957 1975 1975 1975 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 7 CLDIP 8 CLDIP 8 CLDIP 12 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP	Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$250,000 \$250,000 \$250,000
Southern	WMR-566 WMR-568 WMR-570 WMR-570 WMR-572 WMR-573 WMR-574 WMR-574 WMR-575 WMR-576 WMR-578 WMR-580 WMR-580 WMR-581 WMR-581 WMR-582 WMR-582	Vassar Presidential LAKELAND ROAD  Kay June & Jarvis Ct. Glenn and West Rafroad Apple Ave Frankford Ave Bookchorer Rive et Lincoln Rive	Vasser Pr.  (Gong Road to Noble BLACHORSE PINE TO BAILROAD BLACHORSE PINE TO BAILROAD AI  Pine to Manhall Committe to deale and Back Notes Pine to Historiest easement Back Notes Pine to Historiest easement Backhorse Pine to Washington Blackhorse Pine to Washington Prospect to End	Replacement	2024 Gloucester 2022 Blackwood 2022 Gloucester 2022 Gloucester 2023 Gloucester 2026 Gloucester 2020 Gloucester 2020 Gloucester 2020 Gloucester 2020 Gloucester 2020 Gloucester 2021 Gloucester 2022 Gloucester 2022 Gloucester 2023 Gloucester 2023 Gloucester 2024 Gloucester 2025 Gloucester 2026 Gloucester 2027 Gloucester 2027 Gloucester 2028 Gloucester 2028 Gloucester 2029 Gloucester 2029 Gloucester 2020 Gloucester	Glucester Blackwood Cloucester Blackwood Glucester Blackwood Low_Service_Area Blackwood	446,445.50	100 1200 1000 600 1,765 400 2400 2400 2400 1000 1000	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC 6 ACP 6 ACP 2 Gal 6 CI 6 CI 6 CI 6 CI	1957 1975 1975 1975 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 7 CLDIP 8 CLDIP 8 CLDIP 12 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP	Undersized	\$25,000 \$300,000 \$250,000 \$441,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$250,000 \$250,000
Southern	WMR-566 WMR-568 WMR-570 WMR-570 WMR-572 WMR-573 WMR-574 WMR-574 WMR-575 WMR-576 WMR-578 WMR-580 WMR-580 WMR-581 WMR-581 WMR-582 WMR-582	Vassur Presidential LAKELAND ROAD LAKELAND ROAD LAY LANG SAIN'S CL. Gleen and West Rairo ad Apple Ave Frankford Ave Blackhorse Rike Pennykania Äve Lincoln Äve Garfield Lakeview Leikjeh Leikjeh Cummings Fäirview and Gräsbbury	Vassar FI.  Kings Road to Noble BLACHORSE PIKE TO BAILROAD BLACHORSE PIKE TO BAILROAD AII  Pine to Marshall Commiss to deal end did selected easement Black Horse Pike to Hillorest easement Black Horse Pike Hollerest easement Black Horse Pike Westhington Black Horse Rive Westhington Blackhorse Rive to Westhington Prospect to End Indiana to Cecilia Almonesson Rid to Oak Ave All	Replacement Seplacement Seplacement Seplacement Replacement	2022 Gloucester 2023 Gloucester 2023 Gloucester 2026 Blackwood 2020 Blackwood 2020 Blackwood 2021 Blackwood 2022 Blackwood 2023 Blackwood 2023 Blackwood 2023 Blackwood 2024 Blackwood 2025 Blackwood 2026 Blackwood	Gourester Blackwood Gloucester Blackwood Low_Service_Area Blackwood Low_Service_Area Blackwood	446,445.50	100 1200 1000 600 1,765 400 2400 2400 325 1000 1000 1000 2,310	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC 6 ACP 6 ACP 2 Gal 6 CI 6 CI 6 CI 6 CI	1957 1975 1975 1975 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 7 CLDIP 8 CLDIP 8 CLDIP 12 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP	Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$250,000 \$250,000 \$250,000
Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73 WMR-S73 WMR-S75 WMR-S75 WMR-S75 WMR-S76 WMR-S79 WMR-S81 WMR-S80 WMR-S81 WMR-S82	Vassar Presidential LAKELAND ROAD KAY June & Jarvis Ct. Glenn and West Ratroad Apple Ave Frankford Ave Backchorse Rise Backchorse Rise Pennsylvaina Ave Garfield Lakeview Leinigh Cummings Fainview and Graibbury Fay Ann Orive & Exp P P	Vassar Pf.  Kong Road to Nobbe BIA.CHORSE PINET TO DALLROAD  BIA.CHORSE PINET TO BALLROAD  AND Machall  Commission to dead end  Black Horse Pike to Hilderest assement  Black Horse Pike to Hilderest assement  Black Horse Pike to Hilderest desement  Black Horse Pike to Hilderest desement  Black Horse Pike to Washington  Blackhorse Pike to Washington  Prospect to End.  All Amonessons Rid to Oak Ave  All  Transhise boundary/erest to 8" on Woodlyn	Replacement	2024 Gloucester 2023 Blockwood 2023 Blockwood 2020 Blockwood 2020 Blockwood 2020 Blockwood 2020 Blockwood 2021 Blockwood 2021 Blockwood 2021 Blockwood 2022 Blockwood 2022 Blockwood 2022 Blockwood 2022 Blockwood 2023 Blockwood 2023 Blockwood 2024 Blockwood	Gourester Blackwood Gloucester Blackwood Low_Service_Area Blackwood Low_Service_Area Blackwood	446,445.50	100 1200 1000 600 1,765 400 2400 2400 325 1000 1000 1000 1000 1,765 1000 1000 1,765 1000 1000 1,765 1000 1000 1,765 1,76	6 ACP 4 DI 6 CI 4 PLASTIC 2 CI 2 PLASTIC 6 ACP 6 ACP 2 Gal 6 CI 6 CI 6 CI 6 CI	1957 1975 1975 1955 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 6 CLDIP 8 CLDIP 8 CLDIP 12 CLDIP 8 CLDIP	Undersized	\$25,000 \$300,000 \$250,000 \$150,000 \$441,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$250,000 \$250,000 \$250,000
Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73 WMR-S73 WMR-S75 WMR-S75 WMR-S75 WMR-S76 WMR-S79 WMR-S81 WMR-S80 WMR-S81 WMR-S82	Vassar Presidential LAKELAND ROAD Kary Lane & Jarvis Ct. Glenn and West Rairou Ct. Glenn and West Rairou Ct. Apple Ave Frankford Ave Blackhone Rive Pennyykania Ave Luccial Av	Vassar FI.  Kings Road to Noble BLACHORSE PIKE TO BABLROAD AII Fine to Marshall Commins to dead end Black Horse Pike to Hillerset easement Black Horse Pike to Hillerset easement Lake to Loff Black Horse Pike to Hillerset easement Lake to Loff Black Horse Pike to Hillerset easement Lake to Loff Black Horse Pike to Hillerset easement Lake to Loff Black Horse Pike to Washington Prospect to End Indiana to Cecilia Almonesson Ret to Dalk Ave All Franchise boundary/creek to Si* on Woodlyn Under the Bridge	Replacement	2024 Gioveneter 2022 Blackwood 2023 Glourester 2023 Blockwood 2023 Glourester 2020 Blackwood 2020 Gillackwood 2020 Blackwood 2020 Blackwood 2022 Blackwood 2023 Blackwood 2022 Greenwich 2	Glucester Blackwood Glucester Blackwood Low_Service_Area Blackwood Low_Service_Area Blackwood Low_Service_Area Glucester Blackwood_Low_Service_Area Greenwich	446,445.50	100 1200 1000 600 1,765 400 2400 2400 1000 1000 1000 1000 1000	6 ACP 6 CC 6 CC 6 CC 2 CC 2 CC 6 ACP	1957 1975 1975 1975 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 6 CLDIP 6 CLDIP 6 CLDIP 8 CLDIP 12 CLDIP 8 CLDIP 9 CLDIP	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000
Southern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73 WMR-S73 WMR-S75 WMR-S75 WMR-S75 WMR-S76 WMR-S79 WMR-S81 WMR-S80 WMR-S81 WMR-S82	Vesser Presidential LARELAND ROAD  LARELAND ROAD  Kay June B. Jan's C.  Gleen and West Raivo C.  Gleen and West Raivo C.  Black Nove Pale  Back Nove Pale  Back Nove Pale  Lincoln Ave  Garfield  Lakevew  Lincoln Ave  Garfield  Lakevew  Vesser  Fall Pale	Vassar Pi.  Gong Road to Nobbe BLACKINGSE PIKE TO BALERAD  BLACKINGSE PIKE TO BALERAD  Pene box Barball  Pene box Barball  Black Horse Pike and Indifferent seamment Black Horse Pike to Hillicrest seamment Black Horse Pike to Washington Prospect to Indi  Certain Seamment All Blackhorse Pike to Washington  All Blackhorse Pike to Washington  All Blackhorse Pike to Box Ave  All  Flanchible boxmandary/creek to 8" on Woodlyn Under the Bridge  Ocean Gale Dr 10 Barker Ave	Replacement	2024 Gloscenter 2022 Blackwood 2022 Blackwood 2020 Blackwood 2020 Gloscwood 2020 Gloscwood 2020 Blackwood 2020	Glocester Blackwood Glocusester Blackwood Low_Service_Area Blackwood Low_Service_Area Blackwood Blackwood Low_Service_Area Blackwood Company Compa	446,445.50	100 1200 1200 1000 600 1,765 400 2400 2400 325 1000 1000 1000 1000 1,143 6 1,300 200 6,300	6 ACP 6 ACP 6 PLASTIC 2 CI 2 PLASTIC 2 CI 6 ACP 6 ACP 6 GCI 6 CI 6 CI 6 ACP 6 ACP	1957 1975 1975 1955 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 6 CLDIP 8 CLDIP 12 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 16 CLDIP 16 CLDIP 17 CLDIP 18 CLDIP 19 CLDIP	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000
Southern Eastern Eastern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73 WMR-S73 WMR-S75 WMR-S75 WMR-S75 WMR-S76 WMR-S79 WMR-S81 WMR-S80 WMR-S81 WMR-S82	Vassar Presidential LAKELAND ROAD Kay June & Jan'so C. Glenn and West Rairoud Apple Ave Frankford Ave Backford Ave Backford Ave Backford Re Lacotin Ave Lacotin Av	Vassar P.  Kings Road to Noble BLACHORSE PIKE TO BAILROAD All Pine to Marshall Cummins to deed end Black Horse Pike to Hillcrest easement Black Horse Pike to Hillcrest easement Lake to Tod Black Horse Pike to Hillcrest easement Lake to Tod Black Horse Pike to Hillcrest easement Lake to Tod Black Horse Pike to Hillcrest easement Lake to Tod Black Horse Pike to Hillcrest All Control Control Fine to Washington Amonesson Rist to Dals Ave All Fanchise boundary/cresk to Sir on Woodlyn Under the Bridge Ocean Gate Dr to Barlew Ave Berkeley Dr to Mill Cresk Mil	Replacement	2024 Glourester 2022 Blackwood 2020 Clourester 2020 Clourester 2020 Clourester 2020 Clourester 2020 Clourester 2020 Blackwood 2020 Blackwood 2020 Blackwood 2021 Blackwood 2021 Blackwood 2022 Blackwood 2022 Blackwood 2022 Blackwood 2022 Blackwood 2022 Blackwood 2020 Clourester 2020 Clou	Glucester Blackwood Glucester Blackwood Low_Service_Area Blackwood Low_Service_Area Blackwood Glucester Blackwood Glucester Glouester Glouester Blackwood Low_Service_Area Glouester Glouester Glouester Blackwood Low_Service_Area Black	446,445.50	100 1200 1000 600 1,765 400 2400 2400 325 1000 1000 1000 1000 1,000 1,01	6 ACP 4 D1 4 D1 6 C1 4 PASTIC 2 C1 2 PASTIC 6 ACP 6 ACP 6 C1	1957 1975 1975 1955 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 12 CLDIP 6 CLDIP 6 CLDIP 8 CLDIP 12 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 9 CLDIP 10 CLDIP 11 CLDIP 12 CLDIP 14 CLDIP 15 CLDIP 16 CLDIP 16 CLDIP 17 CLDIP 18 CLDIP 18 CLDIP 18 CLDIP	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000
Southern Eastern Eastern Eastern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73 WMR-S73 WMR-S75 WMR-S75 WMR-S75 WMR-S76 WMR-S79 WMR-S81 WMR-S80 WMR-S81 WMR-S82	Vassar  Presidential  LAKELAND ROAD  Kay June B. Jan's Ct.  Gleen and West Raifrood  Apple Ave  Frankford Argin  Frankford Ar	Vassar PC.  Kong Road to Noble BLACHORSE PIKE TO BALEROAD  AII  Pine to Marshall  Commiss to dead dead  Commiss to dead dead  Lourness to dead dead  Black Horse Pike to Hildrenst elsement Black Horse Pike to Washington Blackhorse Pike to Washington Prospect to End  Includant to Cedia  Ammenson Rit to Dak Ave  Air  Franchise bounder/veek to 8" on Woodlyn  Franchise bounder/veek to 8" on Woodlyn  Grean Gale Dr to Balewe Ave  Berkeley Dr to Mill Creek RI  Full Hength	Replacement	2024 Gloscenter 2022 Blackwood 2022 Blackwood 2023 Gloscwood 2023 Gloscwood 2024 Gloscwood 2025 Gloscwood 2026 Blackwood 2020 Blackwood 2026 Blackwood 2026 Blackwood 2022 Blackwood 2022 Blackwood 2022 Blackwood 2022 Blackwood 2022 Blackwood 2023 Blackwood 2023 Blackwood 2022 Blackwood 2026	Glucester Blackwood Glucester Blackwood Low_Service_Area Blackwood Low_Service_Area Blackwood Low_Service_Area Blackwood Blackwood Low_Service_Area Blackwood Low_Service_Area Glucester Blackwood Low_Service_Area Glucester Blackwood Low_Service_Area Berkeley Berkeley Berkeley Berkeley	446,445.50	100 1200 1200 1200 1000 600 1,765 400 2400 2400 2400 1000 1000 1000 1000	6 ACP 6 CP 6 CP 7	1957 1975 1975 1955 1975 1975 1975 1975	8 CLDIP 8 CLDIP 12 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 6 CLDIP 8 CLDIP 12 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 9 CLDIP 12 CLDIP 12 CLDIP 12 CLDIP 15 CLDIP 15 CLDIP 16 CLDIP 17 CLDIP 18 CLDIP 18 CLDIP 18 CLDIP 19 CLDIP 19 CLDIP 10 CLDIP 10 CLDIP 11 CLDIP 12 CLDIP 15 CLDIP 18 CLDIP	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,200 \$100,000 \$600,000 \$81,250 \$250,000 \$250,000 \$575,000 \$575,000 \$577,500,00
Southern Eastern Eastern Eastern Eastern	WMR-S66 WMR-S68 WMR-S70 WMR-S72 WMR-S73 WMR-S73 WMR-S75 WMR-S75 WMR-S75 WMR-S76 WMR-S79 WMR-S81 WMR-S80 WMR-S81 WMR-S82	Vassar Presidential LARELAND ROAD LARELAND ROAD LARELAND ROAD RAY June & Janvis Ct. Glenn and West Rairoad Apple Ave Frankford Ave Blackborne Pike Pennsylvania Ave Lincoln Ave Garfield Lakeview Lakevie	Vassar Pt.  Kings Road to Noble BLACHORSE PIKE TO BAILROAD All Pine to Marshall Commins to dead and Black Horse Piles to HillCrest easement Black Horse Piles to HillCrest easement Lake to Ind Black Horse Piles to HillCrest easement Lake to Ind Black Horse Piles to HillCrest easement Lake to Ind Black Horse Piles to Washington Blackhorse Piles to Washington College Ind Black Horse Piles To Washington College Ind Black Horse Piles College Ind Black Horse Piles File Piles File Piles File Piles File Piles File Piles File File Piles File Horse File File File File Horse File File File File Horse File File File Horse File File File File File File Horse File File File File File File File Fil	Replacement	2024 Glourester 2022 Blackwood 2020 Clourester 2020 Blackwood 2020 Clourester 2020 Blackwood 2020 Blackwood 2020 Blackwood 2020 Blackwood 2021 Blackwood 2021 Blackwood 2022 Blackwood 202	Glucester Blackwood Glucester Blackwood Low_Service_Area Blackwood Low_Service_Area Blackwood Bl	446,445.50	100 100 100 1000 1000 1,765 400 2400 2400 2325 1000 1000 1,0	6 ACP 4 D1 6 C1 4 PLASTIC 2 C1 2 PLASTIC 6 ACP 6 ACP 6 ACP 6 C1 6 C1 6 C1 6 C1 6 C2 6 C1 6 C2 7 C3 6 ACP 6 ACP 8 ACP 8 ACP 8 ACP 9 ACP 10 ACP 8 ACP 8 ACP 8 ACP 8 ACP	1957 1975 1975 1955 1975 1975 1975 1975	S CLOIP S CLOIP 12 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 12 CLDIP 14 CLDIP 15 CLDIP 16 CLDIP 16 CLDIP 16 CLDIP 17 CLDIP 18 CLDIP 18 CLDIP 18 CLDIP 19 CLDIP 10 CLDIP 10 CLDIP	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,200 \$100,000 \$600,000 \$81,250 \$250,000 \$250,000 \$575,000 \$575,000 \$577,500,00
Southern Eastern Eastern Eastern Eastern Eastern	WMR-568 WMR-570 WMR-572 WMR-572 WMR-573 WMR-573 WMR-574 WMR-575 WMR-575 WMR-575 WMR-578 WMR-578 WMR-581 WMR-581 WMR-585 WMR-587	Vassar Presidential LAKELAND ROAD  Kay June & Jarvis Ct. Gleen and West Rafroad Apple Ave Frankford Ave Blockhorse Rive Blockhorse Rive Lincoln Rive	Vassar PI.  (Gong Road to Noble BLACHORSE PIKE TO BALEROAD  AI  Pine to Marihali Commin to Gede and Back Horse Pike to Hillerse teasement Back Horse Pike to Washington Backchorse Pike to Washington Picopect to End Indiana to Cecilia Almonesson Ret to Oak Ave ARI  Franchise Bounday/creek to 8° on Woodlyn Under the Bridge Coccol Cecil Or to Backero Pike Coccol Cec	Replacement	2024 Glossenter 2022 Blockwood 2022 Blockwood 2023 Glossenter 2023 Glossenter 2023 Glossenter 2023 Glossenter 2020 Glossenter 2020 Blockwood 2020 Blockwood 2022 Blockwood 2023 Blockwood 2020 Blockwood 2023 Blockwood	Glucester Blackwood Glucester Blackwood Glucester Blackwood Low_Service_Area Blackwood	446,445.50	100 1200 1200 1200 1000 600 1,765 400 2400 2400 325 1000 1000 1000 1000 1,730 1,143 6* 1,300 2,300 1,730 1,7	6 ACP 4 D1 6 C1 4 PLASTIC 2 C1 2 PLASTIC 6 ACP 6 C1 6 C1 6 C1 6 C1 6 C1 6 C2 6 ACP	1957 1975 1975 1955 1975 1975 1975 1975	S CLDIP S CLDIP 12 CLDIP 12 CLDIP 6 CLDIP 8 CLDIP 6 CLDIP 12 CLDIP 6 CLDIP 12 CLDIP 12 CLDIP 8 CLDIP 8 CLDIP 8 CLDIP 14 CLDIP 15 CLDIP 16 CLDIP 16 CLDIP 17 CLDIP 18 CLDIP 18 CLDIP 18 CLDIP 19 CLDIP 19 CLDIP 10 CLDIP 11 CLDIP 12 CLDIP 14 CLDIP 15 CLDIP 16 CLDIP 17 CLDIP 18 CLDIP 18 CLDIP 19 CLDIP 10 CLDIP 11 CLDIP 12 CLDIP 14 CLDIP 15 CLDIP 16 CLDIP 17 CLDIP 18 CLDIP	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000
Southern Northern Eastern Eastern Eastern Eastern Eastern Fastern Fastern Northern Northern Northern	WMR-566 WMR-570 WMR-572 WMR-572 WMR-573 WMR-574 WMR-574 WMR-575 WMR-576 WMR-576 WMR-576 WMR-576 WMR-579 WMR-580 WMR-580 WMR-581	Vassar Presidential LARELAND ROAD  LAY June & Jan's Ct. Glena and West Raincad Apple Ave Frankford Ave Blackborne Pike Blackborne Pike Pennsylvania Ave Lincoln Ave Garfield Lakeview Lenigh Frankford Fairview and Grainbury Fray Ann Diver & Eva PI Fray Ann Diversity Order Fray Ann Diversity Order Fray Fray Fray Fray Fray Fray Fray Fray	Vassar Pf.  Kong Road to Nobbe  BLACKIONSE PIKE TO DALIROAD  All TO MANIBATION  AND MANIBATION  Commission to dead end  Black Horse Pike to Hillbrest essement  Black Horse Pike to Washington  Blackhorse Pike to Washington  Prospect to End.  All Transhise boundary/creek to 8" on Woodlyn  Under the Bridge  Ocean Gale To To to Baiview Ave  Berfeley Dr to Mill Creek Rd  Farl Hongth  End to Grid  End to Grid  End to Grid  Farl Hongth  End to Grid  Farl End Lowerner Tri	Replacement	2024 Gloscenter 2022 Blackwood 2022 Blackwood 2020 Gloscwood 2020 Gloscwood 2020 Gloscwood 2020 Gloscwood 2020 Blackwood 2020 Blackwood 2020 Blackwood 2020 Blackwood 2022	Glucester Blackwood Glucester Blackwood   Glucester Blackwood   Bl	445,445.50	100 100 100 1000 1000 1,765 400 2400 2400 2400 255 1000 1000 1,765 1,300 1000 1,3145 1,300	6 ACP 4 D1 6 C1 4 PASTIC 3 C1 6 C2 6 ACP	1957 1975 1975 1955 1975 1975 1975 1975	\$ CLUP \$	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000
Southern Eastern Eastern Eastern Eastern Eastern	WMR-566 WMR-570 WMR-572 WMR-572 WMR-573 WMR-574 WMR-574 WMR-575 WMR-576 WMR-576 WMR-576 WMR-576 WMR-579 WMR-580 WMR-580 WMR-581	Vassar Presidential LAKELAND ROAD  Kay June & Jarvis Ct. Gleen and West Rafroad Apple Ave Frankford Ave Blockhorse Rive Blockhorse Rive Lincoln Rive	Vassar PI.  (Gong Road to Noble BLACHORSE PIKE TO BALEROAD  AI  Pine to Marihali Commin to Gede and Back Horse Pike to Hillerse teasement Back Horse Pike to Washington Backchorse Pike to Washington Picopect to End Indiana to Cecilia Almonesson Ret to Oak Ave ARI  Franchise Bounday/creek to 8° on Woodlyn Under the Bridge Coccol Cecil Or to Backero Pike Coccol Cec	Replacement	2024 Gloscenter 2022 Blackwood 2022 Gloscenter 2022 Blackwood 2023 Gloscenter 2020 Blackwood 2023 Gloscenter 2020 Blackwood 2020 Blackwood 2020 Blackwood 2022 Blackwood 2022 Blackwood 2023 Blackwood 2023 Blackwood 2020 Blackwood 20	Glucester Blackwood Glucester Blackwood Glucester Blackwood Low_Service_Area Blackwood	446,445.50	100 100 100 100 1000 1,765 1,765 2400 2400 2400 1000 1000 1000 1000 1000	6 ACP 4 D1 6 C1 4 PLASTIC 2 C1 2 PLASTIC 6 ACP 6 C1 6 C1 6 C1 6 C1 6 C1 6 C2 6 ACP	1957 1975 1975 1955 1975 1975 1975 1975	\$ CLUP \$ CLUP 12 CLUP 12 CLUP 6 CLUP 6 CLUP 6 CLUP 8 CLUP 8 CLUP 12 (CLUP 13 CLUP 14 CLUP 15 CLUP 16 CLUP 17 CLUP 18 C	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000
Southern Northern Eastern Eastern Eastern Eastern Eastern Fastern Fastern Northern Northern Northern	WMR-566 WMR-570 WMR-572 WMR-572 WMR-573 WMR-574 WMR-574 WMR-575 WMR-576 WMR-576 WMR-576 WMR-576 WMR-579 WMR-580 WMR-580 WMR-580	Vassar Presidential LARELAND ROAD  LAY June & Jan's Ct. Glena and West Raincad Apple Ave Frankford Ave Blackborne Pike Blackborne Pike Pennsylvania Ave Lincoln Ave Garfield Lakeview Lenigh Frankford Fairview and Grainbury Fray Ann Diver & Eva PI Fray Ann Diversity Order Fray Ann Diversity Order Fray Fray Fray Fray Fray Fray Fray Fray	Vassar Pf.  Kong Road to Nobbe  BLACKIONSE PIKE TO DALIROAD  All TO MANIBATION  AND MANIBATION  Commission to dead end  Black Horse Pike to Hillbrest essement  Black Horse Pike to Washington  Blackhorse Pike to Washington  Prospect to End.  All Transhise boundary/creek to 8" on Woodlyn  Under the Bridge  Ocean Gale To To to Baiview Ave  Berfeley Dr to Mill Creek Rd  Farl Hongth  End to Grid  End to Grid  End to Grid  Farl Hongth  End to Grid  Farl End Lowerner Tri	Replacement	2024 Gloscenter 2022 Blackwood 2022 Blackwood 2020 Gloscwood 2020 Gloscwood 2020 Gloscwood 2020 Gloscwood 2020 Blackwood 2020 Blackwood 2020 Blackwood 2020 Blackwood 2022	Glucester Blackwood Glucester Blackwood   Glucester Blackwood   Bl	446,445.50	100 100 100 1000 1000 1,765 400 2400 2400 2400 255 1000 1000 1,765 1,300 1000 1,3145 1,300	6 ACP 4 D1 6 C1 4 PASTIC 3 C1 6 C2 6 ACP	1957 1975 1975 1955 1975 1975 1975 1975	\$ CLUP \$	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,250 \$100,000 \$600,000 \$1,080,000 \$81,250 \$250,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000
Southern Eastern Fastern Fastern Fastern Fastern Fastern Fastern Northern Northern Northern Northern Northern Northern	WMR-566 WMR-570 WMR-572 WMR-572 WMR-573 WMR-574 WMR-574 WMR-575 WMR-576 WMR-576 WMR-576 WMR-576 WMR-579 WMR-580 WMR-580 WMR-580	Vassar  Vassar  LAKELAND ROAD  LAKELAND ROAD  Kay Juane B. Jan's C.  Gleen and West Raifood  Applie Ave  Applie Ave  Benning Ave  Benning Ave  Lincoln Ave  Garfield  Lakevew  Lincoln Ave  Carried  Lakevew  Control Raiford  Lakevew  Very Benning Salvivies and Grainbury  Control Raiford  Control Salvivies Ave  Control Raiford  Route 173 (Church St)  Vodal Laine  Point Researt Ave  Sorto D'ave  Sorto D'ave  Sorto Raiford  Sorto Raiford  Road Raiford  Sorto Raiford  Road Raifor	Vassar PI.  (Gong Road to Noble BLACHORSE PINE TO BAILROAD BLACK HORSE PINE TO BAILROAD BLACK HORSE PINE TO SIBICITE desement BLACK HORSE PINE TO SIBICITE desement BLACK HORSE PINE TO SIBICITE DESEMBLY BLACKHORSE PINE TO WARRINGTON BLACKHORSE PINE TO WARRINGTON PROSPECT TO SIBICITE PINE TO BAILROAD ARTON BLACK PINE TO BAILROAD BLACK PINE TO BAILROAD BLACK PINE TO BAILROAD CREAT BLACK PINE TO BAILROAD BLACK PINE TO B	Replacement	2024 Glossenter 2022 Blackwood 2022 Blackwood 2023 Glossenter 2020 Blackwood 2023 Glossenter 2020 Blackwood 2026 Blackwood 2026 Blackwood 2026 Blackwood 2026 Blackwood 2026 Blackwood 2028 Blackwood 2029 Blackwood 2029 Blackwood 2029 Blackwood 2020 Blackwood 202	Glucester Blackwood Glucester Blackwood Low_Service_Area Blackwood Low_Service_Area Blackwood Blackwood Low_Service_Area Blackwood Low_Service_Area Glucester Blackwood Low_Service_Area Glucester Blackwood Low_Service_Area Generate Blackwood Low_Service_Area Greenwich Berteley Berteley Berteley Berteley Berteley Berteley Washington Washington	446,445.50	100 100 100 100 1000 1,765 1,765 2400 2400 2400 1000 1000 1000 1000 1000	6 ACP 4 D1 6 C1 4 PASTIC 2 C1 2 PASTIC 6 ACP 6 ACP 6 ACP 10 ACP 6 ACP 10 ACP 6 ACP 10 ACP 6 ACP 6 ACP 10 ACP	1957 1975 1975 1955 1975 1975 1975 1975	\$ CLUP \$ CLUP 12 CLUP 12 CLUP 6 CLUP 6 CLUP 6 CLUP 8 CLUP 8 CLUP 12 (CLUP 13 CLUP 14 CLUP 15 CLUP 16 CLUP 17 CLUP 18 C	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,200 \$100,000 \$600,000 \$81,250 \$250,000 \$250,000 \$575,000 \$575,000 \$577,500,00
Southern Northern	WMR-566 WMR-570 WMR-572 WMR-572 WMR-573 WMR-574 WMR-574 WMR-575 WMR-576 WMR-576 WMR-576 WMR-576 WMR-579 WMR-580 WMR-580 WMR-580	Vassar Presidential LARELAND ROAD Kar Yane & Jarvis Ct. Glenn and West Rairoud Apple Ave Frankford Ave Backer Backer German Apple Ave Frankford Ave Backer German Ave German Ave Frankford Ave Backer German Ave German Ger	Vassar PI.  (Kong Road to Noble BLACHORSE PIKE TO BAILROAD BLACK Horse Pike to Hillorest descenent Black Horse Pike to Hillorest descenent Black Horse Pike to Hillorest descenent Black Horse Pike to Weshington Black Horse Pike to Weshington Propert to End Indiana to Cedia Almonesson Rét to Dak Ave All Franchise Boundary/creek to 8" on Woodlyn Under the Bridge Ocean Gate Orio Baiview Ave Berkeley Dro Noll Creek Hd Full tength Code To Baill Creek Hd Hillerest Ave to Lawrence Tif Bull Code Hd God Horse Black Have to Lawrence Tif Bull Code Hd God Horse Black Have To Lawrence Tif Bull Code Hd God Hausel Black Have To Lawrence Tif Bull Code Hd God Hausel Black Horse Hd Hausel Black Horse Hd Hausel Black Have To Lawrence Tif Bull Code Hd God Hausel Black Horse Hd Hausel Black Have To Lawrence Tif Bull Code Hd God Hausel Black Have To Lawrence Tif Bull Code Hd God Hausel Black Hd Have Hd Have Hd Have Hd Hausel Black Horse Hd Hausel Black Hd Have	Replacement	2024 Gloucester 2023 Blockwood 2023 Gloucester 2023 Gloucester 2024 Gloucester 2026 Blockwood 2026 Blockwood 2026 Blockwood 2026 Blockwood 2028 Blockwood 2028 Blockwood 2029 Blockwood 2029 Blockwood 2029 Blockwood 2029 Blockwood 2020 Blockwood 2020 Blockwood 2020 Blockwood 2021 Blockwood 2020 Blockwood 2021 Blockwood 2020 Greenwich 2020 Gloucester 2020 Blockwood 2020 Blockwood 2020 Blockwood 2020 Gloucester 2020 Blockwood 2020 Gloucester 2020 Blockwood	Glucester Blackwood Glucester Blackwood Low_Service_Area Blackwood Low_Service_Area Blackwood Low_Service_Area Greenwich Blackwood Low_Service_Area Washington Washington Washington Washington Washington	446,445.50	100 100 100 100 100 100 100 100 100 100	6 ACP 4 D1 6 C1 4 PASTIC 2 PASTIC 2 PASTIC 6 ACP 6 ACP 6 ACP 5 ACP 6 ACP 5 ACP 6 ACP 6 ACP 6 ACP 6 ACP 7 ACP 6 ACP 7 ACP 6 ACP 7 ACP 6 ACP 7 ACP 7 ACP 8 ACP	1957 1975 1975 1955 1975 1975 1975 1975	8 CLUP 12 CLUP 14 CLUP 15 CLUP 16 CLUP 16 CLUP 17 CLUP 18 CLUP	Undersized	\$25,000 \$300,000 \$150,000 \$150,000 \$411,200 \$100,000 \$600,000 \$81,250 \$250,000 \$250,000 \$575,000 \$575,000 \$577,500,00
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# Exhibit P-2

### Aqua New Jersey, Inc. Distribution System Improvement Charge Baseline Depreciation Docket No. WR Mains, Services, Hydrants

	Plar	nt Balances as of 12/31/2021*	Depreciation Rate	DS	SIC Base Spending Requirement
Account #343: Mains	\$	162,534,737	2.15%	\$	3,494,497
Account #345: Services	\$	56,735,381	3.87%	\$	2,195,659
Account #348: Hydrants	\$	9,070,288	3.00%	\$	272,109
	\$	228,340,406		\$	5,962,265
CIAC & CAC Mains	\$	(56,651,600)	2.23%	\$	(1,263,331)
CIAC & CAC Services	\$	(1,102,066)	4.55%	\$	(50,144)
CIAC & CAC Hydrants	\$	(5,764)	3.00%	\$	(173)
	\$	(57,759,430)		\$	(1,313,648)
Total				\$	4,648,617

Date of Foundational Filing Submission

5/31/2022

Date of Most Recent BPU Annual Report at the time the Foundational Filing was Submitted

12/31/2021

Note: The above amounts agree to Aqua New Jersey Inc.'s 2021 Annual Report to the BPU. The depreciation rates utilized were approved in Docket No. WR18121351

## Exhibit P-3

#### Aqua New Jersey, Inc. Monthly DSIC Assessment Revenues at 5.00% Docket No. WR

#### Applicable to General Metered Service Connections noted below:

DSIC Eligible Revenues \$43,467,248

Maximum Annual DSIC Revenue Surcharge at 5.00% \$2,173,362

Annual Assessment per Meter Equivalent at 5.00% \$31.42

	Monthly As	sessment pe	er Meter Equiv	alent at 5.00%	\$2.62	*
					Weighted	Monthly DSIC
			Meter	Monthly DSIC	Meter	Assessment
Class	Size	Customers	Equivalents	Assessment \$	Equivalents	Revenues at 5.00%
Residential						
	5/8x3/4"	45,072	1.0	\$2.62	45,072	\$118,089
	3/4"	5,579	1.5	\$3.93	8,369	\$21,927
	1"	918	2.5	\$6.55	2,295	\$6,013
	1-1/2"	144	5.0	\$13.10	720	\$1,886
	2"	153	8.0	\$20.96	1,224	\$3,207
	3"	5	15.0	\$39.30	75	\$197
	6"	1	50.0	\$131.00	50	\$131
	8"	1	80.0	\$209.60	80	\$210
	Total Base RES	51,873	- ≣		57,885	\$151,659
Commercial						
	5/8x3/4"	1,294	1.0	\$2.62	1,294	\$3,390
	3/4"	159	1.5	\$3.93	239	\$626
	1"	351	2.5	\$6.55	878	\$2,300
	1-1/2"	179	5.0	\$13.10	895	\$2,345
	2"	494	8.0	\$20.96	3,952	\$10,354
	3"	40	15.0	\$39.30	600	\$1,572
	4"	21	25.0	\$65.50	525	\$1,376
	6"	5	50.0	\$131.00	250	\$655
	8"	10	80.0	\$209.60	800	\$2,096
	Total Base COM	2,553	<del>-</del> =		9,433	\$24,714
Industrial						
	5/8x3/4"	10	1.0	\$2.62	10	\$26
	3/4"	1	1.5	\$3.93	2	\$5
	1"	1	2.5	\$6.55	3	\$8
	1-1/2"	3	5.0	\$13.10	15	\$39
	2"	14	8.0	\$20.96	112	\$293
	3"	0	15.0	\$39.30	0	\$0
	4"	7	25.0	\$65.50	175	\$459
	6"	2	50.0	\$131.00	100	\$262
	8"	1	80.0	\$209.60	80	\$210
	10"	0	115.0	\$301.30	0	\$0
	Total Base IND	39	- -		497	\$1,302
Public Authority						
	5/8x3/4"	20	1.0	\$2.62	20	\$52
	3/4"	0	1.5	\$3.93	0	\$0
	1"	3	2.5	\$6.55	8	\$21
	1-1/2"	10	5.0	\$13.10	50	\$131
	2"	56	8.0	\$20.96	448	\$1,174
	3"	4	15.0	\$39.30	60	\$157
	4"	3	25.0	\$65.50	75	\$197
	6"	9	50.0	\$131.00	450	\$1,179
	8"	3	80.0	\$209.60	240	\$629
	Total Base PUB	108	<del>-</del> =	•	1,351	\$3,540
Totals		54,573	-		69,166	\$181,215
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## Exhibit P-4

#### NOTICE OF PUBLIC HEARING

### AQUA NEW JERSEY, INC. NOTICE OF FILING OF A PETITION FOR APPROVAL OF A DISTRIBUTION SYSTEM IMPROVEMENT CHARGE

BPU	DOCKET	NO. WR2205	

PLEASE TAKE NOTICE that on May 31, 2022 Aqua New Jersey, Inc. (the "Company" or "Aqua"), pursuant to N.J.A.C. 14:9-10.1 *et seq.*, filed a Petition with the New Jersey Board of Public Utilities (the "Board") seeking approval of a Foundational Filing to implement a Distribution System Improvement Charge ("DSIC"). A DSIC is a mechanism established to accelerate investment in the timely rehabilitation and replacement of certain non-revenue producing critical water distribution system components. Among the infrastructure investments that are eligible to be included in a DSIC are: main replacement and renewal, main cleaning and lining projects, and the renewal of valves, hydrants and service connections. The purpose of DSIC investments is to enhance safety, reliability, water quality, system flows and pressure, and water conservation. A DSIC also includes a rate recovery mechanism that is interim, and subject to refund, until a subsequent base rate case.

The Company's Petition includes a Foundational Filing that provides an overview of the Company's water distribution system and proposes a list of projects the Company believes are eligible for recovery through the DSIC surcharge for the period 2022 through 2025. The Company proposes to collect a maximum of \$2,173,362 in DSIC revenues annually, or no more than 5.0% of the Company's total water revenues established in the Company's most recently completed base rate case. If approved, the Company will implement the DSIC surcharge if, and when, it achieves specific levels of eligible infrastructure investment and completes and places the facilities into service as required by the DSIC regulations.

The Company has proposed that the monthly DSIC surcharge be assessed to all classes of customers based on the customer's meter size. The maximum proposed rates shown below are expected to be assessed incrementally over a two to three year period, consistent with the Company's actual DSIC program capital spending.

Any relief determined by the Board to be just and reasonable may be allocated by the Board to any class or classes of customers of the Company in such manner and in such amounts or percentages, as the Board may deem appropriate. The Board may choose to impose a greater portion of the increase on any present or future classes or classes, group or groups of customers, may exclude from any increase any of the foregoing, or may vary the amount or percentage increase applicable to any of the foregoing. The maximum proposed monthly DSIC rates are included in the Petition filed with the Board, as set forth below. Please note that these proposed rates are estimates and may change, however, Aqua's maximum annual DSIC revenues may not exceed \$2,173,362, or no more than 5.0% of the Company's total water revenues as established in Aqua's most recent base rate case.

#### PROPOSED MONTHLY DSIC SURCHARGE RATES BASED ON METER SIZE

<b>Meter Size</b>	<b>Present DSIC Rate</b>	<b>Proposed DSIC Rate</b>
5/8x3/4"	\$0.00	\$2.62
3/4"	\$0.00	\$3.93
1"	\$0.00	\$6.55
1-1/2"	\$0.00	\$13.10
2"	\$0.00	\$20.96
3"	\$0.00	\$39.30
6"	\$0.00	\$131.00
8"	\$0.00	\$209.60

A copy of this Notice of Filing and Public Hearing on the Petition is being served upon the clerk, executive or administrator of each municipality and county within the Company's service territory. The Petition and this Notice have also been sent to the New Jersey Division of Rate Counsel ("Rate Counsel"), who will represent the interests of all Aqua customers in this proceeding. Copies of Aqua's Petition and this Public Notice are posted on Aqua's website at

**PLEASE TAKE FURTHER NOTICE** that, due to the COVID-19 pandemic, the Board has scheduled a virtual public comment hearing on the following date and time:

#### [insert hearing info]

Members of the public may participate in the public hearing by following the dial-in instruction set out below:	etions
Call in numbers (callers can use either phone number): .	
Upon calling in, the caller will be prompted to enter the meeting <b>ID of</b> and prespound or hashtag button (#).	ss the
Press the pound or hashtag button (#) a second time (in response to the second electronic pro	mpt).
The caller will then be prompted to enter the <b>passcode</b> for the public meeting of and	press

the pound or hashtag button (#).

The caller will then be entered into the public hearing. The caller should mute their phone to prevent background noise.

A Hearing Officer will be designated by the Board to preside over the virtual public hearing. Members of the public are invited to participate and express their views on the proposed DSIC program and rate mechanism. Such comments will be made a part of the final record in the proceeding. Whether or not you participate in the virtual public hearing, written comments may be submitted to the Hon. Carmen Diaz, Board of Public Utilities, 44 South Clinton Avenue, Suite 314, Trenton, New Jersey 08625. Please include BPU Docket No. WR2205\_\_\_\_\_\_ in your comment letter.

Dated:, 2022	Aqua New Jersey, Inc.
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