NEW JERSEY AMERICAN WATER

March 31, 2022

Via Electronic Filing
Hon. Aida Camacho-Welch
Secretary
Board of Public Utilities
44 South Clinton Ave, 9th Floor
P.O. Box 350
Trenton, NJ 08625-0350

Re: New Jersey-American Water Company, Inc. Distribution System Improvement Charge ("DSIC") Foundational Filing
BPU Docket No. _____

Dear Secretary Camacho-Welch:

On behalf of New Jersey-American Water Company ("NJAWC"), enclosed herewith is the Distribution System Improvement Charge Foundational Filing pursuant to *N.J.S.A.* 48:2-21 and *N.J.A.C.* 14:9-10.1 *et seq.*

Consistent with the Order issued by the Board in connection with In the Matter of the New Jersey Board of Public Utilities' Response to the COVID-19 Pandemic for a Temporary Waiver of Requirements for Certain Non-Essential Obligations, BPU Docket No. EO20030254, Order dated March 19, 2020, these documents are being electronically filed with the Secretary of the Board, the Division of Law, and the New Jersey Division of Rate Counsel. No paper copies will follow.

Respectfully submitted,

Christopher M. Arfaa

CMA:dlc
Enc.

c: Mike Kammer, Director, Division of Water and Wastewater (via email, w/enc.)
Brian O. Lipman, Director, Division of Rate Counsel (via email, w/enc.)
Pamela Owen, Deputy Attorney General, Division of Law, Department of Law & Public Safety (via email, w/enc.)

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BEFORE THE
STATE OF NEW JERSEY
BOARD OF PUBLIC UTILITIES

IN THE MATTER OF THE PETITION OF NEW JERSEY-AMERICAN WATER COMPANY, INC. FOR AUTHORIZATION TO IMPLEMENT A DISTRIBUTION SYSTEM IMPROVEMENT CHARGE	:	BPU Docket No. WR_____ **PETITION**

TO THE HONORABLE COMMISSIONERS OF THE BOARD OF PUBLIC UTILITIES:

New Jersey-American Water Company, Inc. (the "Company," "NJAWC" or "Petitioner"), a public utility corporation of the State of New Jersey, with its principal office at 1 Water Street, Camden, New Jersey 08102, hereby petitions this Honorable Board (the "Board" or "BPU") for authority pursuant to N.J.S.A. 48:2-21 and N.J.A.C. 14:9-10.1 et seq., and such statutes, regulations and Board orders that may be deemed by the Board to be applicable, for approval to file and implement an automatic adjustment clause tariff that would establish a Distribution System Improvement Charge ("DSIC" or "Surcharge") for the renewal of water distribution system assets for the period of 2022 through 2025. The proposed rates in this Petition, if approved, would increase annual revenues, in increments occurring at approximately six-month intervals, by no more than approximately $45.2 million[1] or 5%, the maximum DSIC revenue allowable under N.J.A.C. 14:9-10.1, et seq., over the time covered by the Company's Foundational Filing (attached). The proposed Surcharge would commence approximately eight months after approval of this filing, as infrastructure is renewed or replaced, placed in service, and is used for providing service to customers.

[1] The final cap number is expected to be set in the Company's current base rate case proceeding, BPU Docket No. WR22010019.

In support of this Petition, NJAWC states as follows:

1. NJAWC is engaged in the production, treatment and distribution of water and collection of wastewater within its defined service territory within the State of New Jersey. Said service territory includes portions of the following counties: Atlantic, Bergen, Burlington, Camden, Cape May, Essex, Gloucester, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Salem, Somerset, Union, and Warren. As of December 31, 2021, Petitioner serves approximately 660,000 water and fire service customers and 49,900 wastewater service customers.

2. In support of this Petition, NJAWC submits the attached Foundational Filing, consisting of the following:

a) An engineering evaluation report ("Engineering Report") of the water utility's distribution system detailing the following:

   i. the rationale for the work needed to be accelerated for the water utility to properly sustain its water distribution network;

   ii. the plan proposed to accelerate the renewal of the distribution network is the most cost effective plan;

   iii. to the extent that elements of the distribution network are failing, what mechanisms are causing the failures; and

   iv. what is being done to extend the life of the water utility's assets.

b) The following DSIC project information for the upcoming DSIC-period:

   i. Aggregate information capturing blanket type DSIC-eligible infrastructure to be rehabilitated or replaced (e.g., number of valves, number of hydrants, or number of service lines replaced) and the estimated annual cost of such

blanket type replacement programs (see Section 2 of the Engineering Report);

ii. Vintage, condition, and other similar relevant, reasonably available information about the eligible infrastructure being rehabilitated or replaced (see Sections 3 through 6 of the Engineering Report);

iii. The nature, location, estimated duration of project work (including estimated in-service dates) and a description and reason for project necessity (see Sections 3 through 6 of the Engineering Report and Appendix C);

iv. A list of projects with project identification numbers, DSIC-eligible asset class or category, and estimated project costs (see Appendix C); and

v. Other such relevant and appropriate information to assist in making an informed decision regarding any given project.

c) The expected amount of NJAWC's base spending, including underlying detail documenting that the base spending has been made on the appropriate types of infrastructure; a proposed DSIC assessment, calculated in accordance with subsection N.J.A.C. 14:9-10.8; and work papers showing the detailed calculations supporting the proposed assessment schedule (see Appendix D).

3. In BPU Docket No. WO10090655, the Board approved a DSIC, which was published in the New Jersey Register on June 4, 2012 and effective on that date. The DSIC rules were adopted as an amendment and addition to the New Jersey Administrative Code (N.J.A.C.) as

Section 14:9-10.1 et seq. The DSIC rules were amended and readopted, effective August 7, 2017. The rules set forth the conditions and procedures under which regulated water utilities may seek recovery of eligible capital investments through monthly surcharges, set semi-annually, on customer bills.

4. The present Petition is filed in accordance with N.J.A.C. 14:9-10.1 et seq. and 14:1-5.1 et seq.

5. If implemented in the semi-annual increments described above, over the time period the Foundational Filing is expected to be in effect, (approximately 24-36 months) the maximum allowable monthly surcharge under N.J.A.C. 14:9-10.1, et seq., would be approximately $3.81 per month for a five-eighths inch (5/8") meter at the end of the time period covered by the Foundational Filing. This estimated maximum monthly surcharge is an approximate number only and may be higher or lower depending on many factors, including changes in the number of customers served by the Company and changes in interpretation of the DSIC rules. Surcharges on meters of other sizes will be calculated as set forth in the rule. Such surcharges will be implemented incrementally, after semi-annual DSIC filings, as set forth in N.J.A.C. 14:9-10.5, 10.8 and 10.9, and may not generate revenues that exceed the DSIC cap as defined in N.J.A.C. 14:9-10.2 and described above.

6. With respect to N.J.A.C. 14:9-10.4, to reach the 5.0% maximum DSIC revenue cap of $45.2 million, the Company's eligible capital spending above base spending would be approximately $374 million over the effective time period of this Foundational Filing.

7. Pursuant to N.J.A.C. 14:9-10.5(a)1, the Company intends to include in its semi-annual filings for recovery under this Foundational Filing any and all projects approved and carried over from a prior DSIC period.

8. Notice of this Petition, and the effect thereof, will be served by mail upon the clerks of municipalities, the Boards of Chosen Freeholders and the County Executives within the Petitioner's service area at least 20 days before the date set for public hearing, which notice shall include and specify the time and place of said hearing.

9. Customers will be notified of this filing and the effect thereof as well as the time and place of the public hearing by publication of the Public Notice at least 20 days prior to the date set for the public hearing, in newspapers of general circulation within Petitioner's service territory.

10. Notice of this Petition and a copy of this filing have been served upon the Director, Division of Rate Counsel, via electronic mail as permitted by the Board's Order of March 19, 2020 in Docket No. EO20030254.

11. Notice of this Petition and a copy of this filing have been served upon the Department of Law & Public Safety, Office of the Attorney General, Public Utilities Section, via electronic mail as permitted by the Board's Order of March 19, 2020 in Docket No. EO20030254.

12. Proof of Service of the Notice as previously referred to herein will be filed with the Board.

13. Petitioner respectfully submits that the investments proposed and rates requested by it herein are just and reasonable in all respects.

WHEREFORE, Petitioner respectfully requests that the Board find and determine as follows:

1. That the investments proposed and subsequent rates set forth in this Foundational Filing, are just and reasonable; and

2. That the Petitioner's Foundational Filing is approved in all respects.

Respectfully submitted,

NEW JERSEY-AMERICAN
WATER COMPANY, INC.

By: Christopher M. Arfaa

Dated: March 31, 2022

Communications addressed to Petitioner
in this case should be sent to:

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VERIFICATION

STATE OF NEW JERSEY :
SS
COUNTY OF CAMDEN :

Jamie D. Hawn, of full age, being duly sworn, according to law, deposes and says:

1. I am the Senior Manager, Rates and Regulatory for New Jersey-American Water Company, Inc. and authorized to make this Verification on behalf of that Company.

2. I have reviewed the within Petition, and the information contained therein is true according to the best of my knowledge, information and belief.

Jamie D. Hawn

Sworn to and subscribed this
31st day of March, 2022

Donna L. Carney, Notary

Donna Carney
Notary Public
State of New Jersey
My Commission Expires May 24, 2023

DONNA CARNEY
NOTARY
PUBLIC
NEW JERSEY

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APPENDICES

EXECUTIVE SUMMARY

This report presents the 5th Foundational Filing for New Jersey-American Water Company, Inc. (NJAWC, New Jersey American Water or the Company) for the renewal of water distribution system assets for the period of 2022 through 2025. The Company has many pipe projects identified across the state, of which approximately 1,500 have been prioritized for completion between 2022 and 2025. These water main renewal projects are distributed among the four regional Operating Areas of NJAWC: South, North, Central and Coastal. The projects include replacement, non-structural cleaning and lining, and semi to full-structural cleaning and lining projects. Also included in this filing is the renewal of valves, hydrants and service connections. This engineering report details each project and the reason for the project, the need to accelerate these investments, and the estimated costs. The total cost of this program, including these pipeline projects plus the valve, hydrant and service connection renewals, is estimated and expected to be capped at approximately $460 million, which includes base spending of approximately $43.0 million per year. Such level of investment is projected to help NJAWC achieve a pipeline renewal interval of approximately 100 years for the time period covered by this filing. Sustaining a renewal interval of 100 years beyond the time period covered by this filing requires sustained investment levels, such as those envisioned under, and authorized by, the Distribution System Improvement Charge ("DSIC") rules.

Distribution System Improvement Charge Rules

On May 1, 2012, the New Jersey Board of Public Utilities (the BPU or Board) approved the implementation of new rules to establish a DSIC for BPU regulated water utilities at *N.J.A.C.* 14:9-10 *et. seq.* The rules were published in the New Jersey Register on June 4, 2012 and became effective on that date. The rules were amended and readopted effective August 7, 2017. A DSIC is "a regulatory mechanism that enables the accelerated level of investment needed to promote the timely rehabilitation and replacement of certain non-revenue producing, critical water distribution components that enhance **safety, reliability, water quality, systems flows and pressure**, and/or **conservation**."[1] *N.J.A.C.* 14:9-10.1(b) states: "The purpose of a DSIC is to provide a rate recovery mechanism that encourages and supports necessary accelerated rehabilitation and replacement."

As required by the rules and as specifically described by *N.J.A.C.* 14:9-10.4, this document comprises the Foundational Filing for NJAWC. This Foundational Filing includes an engineering evaluation of the Company's water utility distribution system, proposed DSIC projects (including projected costs) through 2025, the expected amount of base spending (as defined in the rules) to be made by NJAWC, the proposed form of public notice, and the maximum customer bill impact over the time period covered. The Foundational Filing also includes other information the Company deems to be relevant. Table ES.2 at the end of this Executive Summary lists the information required by the rules to be included in the Foundational

[1] *N.J.A.C.* 14:9-10.1(a) [emphasis added].

Filing and indicates the corresponding report sections that contain this information. This Executive Summary also discusses the historical basis underlying the need for the DSIC rules, supported by examples in the sections of the report described below; identifies certain factors that are critical to the success of an infrastructure renewal program; and highlights some of the benefits expected to flow from the successful execution of the DSIC program proposed by NJAWC in this Foundational Filing.

Water System Asset Performance Evaluations

This Foundational Filing includes an engineering report on the distribution assets within each NJAWC operating area. The report presents an asset inventory, a discussion of valves and other blanket replacement projects, and discussions of key infrastructure issues within each region. Sections are as follows:

Section 1. Asset Management

Section 1 provides a general statewide overview of NJAWC's operating areas. The Company's inventory of water mains is briefly described for each operating area, including a summary of NJAWC's pipe material by diameter and miles. The asset inventory further breaks down the vintage of pipe by decade installed, in miles, for each operating area. The asset performance in terms of historical main breaks is also presented in this section as well as the general asset management. Details for each operating area are found in Sections 3 through 6.

Section 2. Valves, Hydrants and Service Connections ("Blanket" DSIC Assets)

Section 2 generally describes the Company's inventory of service lines, hydrants, and valves, including the most recent history of capital expenditures on these types of assets. Valves, services and hydrants are referred to as "blanket" assets because they are numerous and essentially the same throughout the Company's operating areas. Each class of assets is discussed in detail, with needs and benefits set forth on an aggregate basis. Because these assets are so numerous, it is essential that the Company adhere to a systematic program of inspection and repair or replacement, as appropriate. Replacement of critical valves or valves near critical customers, such as hospitals and schools, requires more detailed planning to manage any shutdown or by-pass.

Section 3. South Operating Area

Section 3 provides an overview of the NJAWC South Operating Area (previously known as the Delaware Operating Area) along with Atlantic and Cape May Counties, which serves customers through approximately 2,600 miles of water mains. As described further in Section 3, the South Operating Area challenges include mains that are no longer adequately sized, older mains constructed from obsolete materials, and certain areas where there are mains with high break frequencies. The DSIC enables an accelerated program targeting replacement of undersized and obsolete mains, including areas with

frequent failures on stovepipe, galvanized, and asbestos cement mains, as well as redevelopment areas. These improvements will enhance the safety and reliability of the system, improve system flows and pressures, minimize service disruptions, improve water quality and help decrease water quality complaints such as discolored water or taste/odor (aesthetic complaints). Section 3 describes these issues in more detail.

Section 4. North Operating Area

Section 4 provides an overview of the NJAWC North Operating Area (previously known as the Passaic Operating Area), which serves customers through approximately 1,400 miles of water mains. As described further in Section 4, the North Operating Area challenges include high operating pressures in the distribution system, a relatively high proportion of older, unlined cast iron pipes, and a relatively high number of "split" type main breaks. The DSIC enables an accelerated program targeting rehabilitation of unlined cast iron mains in areas with discolored water occurrences, and replacement of obsolete and undersized mains with significant break history. These improvements will enhance the safety and reliability of the water system, improve system flows and pressures, minimize service disruptions, improve water quality and reduce aesthetic complaints. Because the North Operating Area has a significant inventory of Prestressed Cylindrical Concrete Pipe (PCCP) and other large diameter mains which typically exhibit high consequence failures, this Foundational Filing places a greater emphasis on condition assessment of the PCCP mains inventory and prioritizes that effort. See Appendix F - PCCP and other Large Diameter Mains Strategy & Project List. Section 4 describes these issues, including the opportunities and challenges for main cleaning and lining, in more detail.

Section 5. Central Operating Area

Section 5 provides an overview of the NJAWC Central Operating Area (previously known as the Raritan Operating Area), which serves customers through approximately 3,200 miles of main. As described further in Section 5, the main challenge in the Central Operating Area is its relatively large proportion of older, unlined cast iron mains, which account for the majority of mains experiencing breaks and which also suffer from encrustation and tuberculation. As further detailed in Section 5, portions of the distribution system serving this Operating Area are older and no longer adequately sized to meet the demands of the current population. The Company has had an aggressive cleaning and lining program in this area. The DSIC enables an accelerated program targeting the rehabilitation of unlined, cast iron mains in areas with discolored water occurrences, as well as the replacement of obsolete and undersized mains with significant break history. Because the Central Operating Area has a large inventory (approx. 140 miles) of PCCP which typically exhibits high consequence failures, this Foundational Filing places a greater emphasis on condition assessment of the PCCP mains inventory and prioritizes that effort. See Appendix F - PCCP and other Large Diameter Mains Strategy & Project List. The proposed improvements will enhance the safety

and reliability of the water system, improve system flows and pressures, minimize service disruptions, improve water quality and reduce aesthetic complaints. Section 5 discusses these issues in more detail.

Section 6. Coastal Operating Area

Section 6 provides an overview of the NJAWC Coastal Operating Area, which is comprised of the former Coastal North operating centers, covering portions of Monmouth, and Ocean Counties. The Coastal Operating Area serves customers through approximately 2,100 miles of main. As described further in Section 6, the challenges in the Coastal Operating Area include a wide variety of pipe types, with significant cohorts of older pipes made from obsolete materials (notably about 345 miles of asbestos cement pipe or ACP). Older cast iron mains also pose challenges, particularly in areas constructed before World War II that have now experienced a population boom, and which are served by mains no longer adequately sized. The Coastal Operating Area also has a significant amount of galvanized steel pipe which, as described in more detail in Section 6, is particularly prone to a variety of failures. The DSIC enables an accelerated program targeting undersized and obsolete mains, including areas with frequent failures on asbestos cement mains and galvanized pipes, as well as in redevelopment areas. These improvements will enhance the safety and reliability of the water system, improve system flows and pressures, minimize service disruptions, improve water quality and reduce aesthetic complaints. Section 6 discusses these various projects and other issues, such as aggressive local soils, in more detail.

Appendix A. Water Main Condition Assessment

Appendix A includes the detailed backup supporting NJAWC's engineering evaluation of the water systems serving its Operating Areas. Appendix A includes a discussion of system evaluations, construction materials, pipe standards and technology, and NJAWC's aggregate system performance. This is followed by a review of water main break and failure mechanisms, including a discussion of ways to reduce the probability of failure mechanisms. Appendix A includes information required by the rule on options and techniques for extending the life of existing assets, including recommendations for extending pipe life, and operational strategies for reducing or eliminating pipe failures. These recommendations are illustrated through the system-specific issue discussions in the various Operating Area sections of the report. With this as context, the remainder of Appendix A covers rehabilitation and replacement options, including non-structural, semi-structural and structural rehabilitation techniques and technologies. This includes a discussion of the cost considerations that accompany any decision as to whether to rehabilitate or replace an asset, as well as which technique or technology and material should be chosen. NJAWC incorporates cost considerations into its decision-making process, as illustrated further in Appendix A.

Appendix B. Prioritization Model

Appendix B describes NJAWC's approach to prioritizing distribution system projects, including the American Water (AW) Pipeline Prioritization Model (PPM). There are several factors that must be considered

together, including the output of the PPM as well as any limitations that may exist in available data. Cost effectiveness is an important factor, as well as the ability to leverage other factors (such as competitive bidding or concurrent underground utility work). Used properly, and in conjunction with rigorous planning, the PPM is an extremely valuable tool for evaluating the need for projects. In 2015, NJAWC began evaluating an alternative to proactively identify distribution system performance issues and piloted the use of a new software (InfoMaster) to improve the capital infrastructure program (CIP) for distribution system renewal. InfoMaster is specifically designed to leverage hydraulic modelling and pipe performance based on pipe cohort and age and was first piloted on the Delaware River Water System within the South Operating Area. Appendix B has a greater description of the model and pilot results. As a result, NJAWC has completely migrated to the InfoMaster model of prioritization. Any project identified through the model results is validated through a thorough review with network operating personnel before it is acted on and implemented.

Appendix C. Project List

Appendix C contains the detailed project list for projects covered by this Foundational Filing, as well as projects that have been identified as potential alternative projects should one or more of the projects identified on the list become unable to proceed for any reason. Appendix C includes new projects and projects that were previously approved by the Board but subsequently substituted out as a result of periodic substitutions. Appendix C does not include the other projects previously approved by the Board in a prior foundational filing, which are still eligible for DSIC recovery. Appendix C lists all the project-specific information required by *N.J.A.C.* 14:9-10.4(b)2. Appendix C incorporates an estimate for unscheduled main replacement projects based on NJAWC's long-term, historical experience.

Appendix D. Proposed Assessment

Appendix D sets forth the financial impacts of the DSIC projects proposed in the Foundational Filing. Appendix D also includes the statement of base spending, the aggregate DSIC spending over the time period covered by this filing, and the projected total assessment for each semi-annual DSIC period. This information has been projected based on the Company's proposed base rate case filing and may change depending on the final BPU decision in that matter. Thus, the Company has prepared two scenarios for Appendix D:

- Scenario 1 assumes that the final BPU decision in the pending base rate case does not include any DSIC-eligible post-test year additions. Thus, Appendix D, page 1 of 7 presents the first surcharge filing to include those projects consistent with *N.J.A.C* 14:9-10.7(c).

- Scenario 2 assumes that the final BPU decision in the pending base rate case includes all DSIC-eligible post-test year additions. Thus, Appendix D, page 2 of 7 presents the first surcharge filing to exclude those projects.

Appendix E. Public Notice

Appendix E includes the proposed form of public notice for the public hearing required by the rule to be held prior to the 90-day deadline for Board action on the Foundational Filing. The proposed public notice includes the maximum amount proposed to be recovered from customers over the time period covered by this Foundational Filing based on the Company's filing in its current general rate case.

Appendix F. PCCP and other Large Diameter Mains Strategy and Project List

Appendix F describes the issue of sudden and high impact of PCCP as well as other large diameter transmission mains with high consequences and presents NJAWC's approach and strategy to address the issue. It also presents a prioritized list of PCCP and other large diameter mains projects planned for the next five years.

DSIC Program Cost Impacts

NJAWC is sensitive to the impact on its customers related to this approved program. The cost of the program and impact on its customers is shown in more detail in Appendices D and E. NJAWC's base spending level will be approximately $43.0 million annually based on the 2021 Annual Report to the Board as defined by N.J.A.C. 14:9-10.2. NJAWC proposes the accelerated DSIC-eligible spending as shown in Table ES.1, below. This program is within the limits defined in the *rules.*

Table ES.1 - NJAWC Estimated DSIC Program
(Base spending $43.0 million + DSIC spending)

Scenario 1 - Including Post Test Year DSIC Eligible Additions

	DSIC Assessment				
Eligible Investments	**Filing #1**	**Filing #2**	**Filing #3**	**Filing #4**	**Total**
DSIC-eligible base spending	$ 21,509,478	$ 21,509,478	$ 21,509,478	$ 21,509,478	$ 86,037,913
DSIC-eligible above base spend[1]	133,882,195	80,329,317	80,329,317	80,329,317	374,870,145
Total Eligible Investments	$ 155,391,673	$ 101,838,795	$ 101,838,795	$ 101,838,795	$ 460,908,058
5/8" meter[2]	$1.38	$2.20	$3.01	$3.81	
DSIC Revenue as a % of total Water Revenue	1.81%	2.88%	3.95%	5.00%	
Annualized DSIC Revenue[3]	$16,382,975	$26,096,171	$35,721,924	$45,260,234	

[1]To reach the 5.00% maximum DSIC revenue allowable per the approved Rules & Regulations, eligble capital spend above base spend would need to be $374,870,145 for the DSIC Filings.

[2]Monthly cost for an average residential customer
[3]DSIC revenues associated with capital spend from the filing period commences in the subsequent period.

Scenario 2 - Excluding Post Test Year DSIC Eligible Additions

	DSIC				
Eligible Investments	**Filing 1**	**Filing 2**	**Filing 3**	**Filing 4**	**Total**
DSIC-eligible base spending	$ 21,509,478	$ 21,509,478	$ 21,509,478	$ 21,509,478	$ 86,037,913
DSIC-eligible above base spend[1]	53,272,700	106,545,400	106,545,400	106,545,400	372,908,900
Total Eligible Investments	$ 74,782,178	$ 128,054,878	$ 128,054,878	$ 128,054,878	$ 458,946,813
5/8" meter[2]	$0.55	$1.65	$2.73	$3.81	
DSIC Revenue as a % of total Water Revenue	0.72%	2.16%	3.59%	5.00%	
Annualized DSIC Revenue[3]	$6,552,733	$19,571,213	$32,473,714	$45,260,234	

[1]To reach the 5.00% maximum DSIC revenue allowable per the approved Rules & Regulations, eligble capital spend above base spend would need to be $372,908,900 for the DSIC Filings.

[2]Monthly cost for an average residential customer
[3]DSIC revenues associated with capital spend from the filing period commences in the subsequent period.

An effective distribution system improvement program such as the one envisioned by the DSIC rules and presented in this Foundational Filing will help avoid certain costs that the Company would otherwise experience, and allows for a more efficient allocation of both capital and O&M (operation and maintenance) expenditures. An efficient DSIC program reduces a great deal of the uncertainty inherent in a traditional rate case recovery schedule, and allows NJAWC to continue the accelerated renewal program facilitated by the DSIC rules.

One of the expectations NJAWC has for the programs implemented pursuant to the DSIC rules is a more consistent level of asset renewal going forward, buoyed by the support, commitment and recognition of the need for infrastructure renewal and replacement that is signaled by the DSIC rules. This will be critical, as

the issue of aging infrastructure continues to intensify for all underground utilities. A dedicated and consistent annual level of funding for these projects will also benefit the communities we serve by improving the Company's ability to better coordinate its construction programs with the communities' road reconstruction schedules and other underground utility work, thereby reducing the disruption that unplanned, emergent infrastructure renewal and replacement programs often trigger. Likewise, a more routine and even application of permits through local and state agencies could be realized. Design and construction of planned projects can be bundled more effectively for economies of scale in order to achieve a higher level of efficiency. If design and construction schedules are more consistently managed, the competitive bidding process may be able to be further leveraged to achieve more economical pricing. It is more cost-effective to replace the infrastructure under a formalized bidding process than to pay emergency and after-hour rates to outside contractors and employees.

More importantly, the utilities and the Board should be working to find ways to minimize disruptions to the systematic investment in critical infrastructure the DSIC program allows so that these efficiencies and economies of scale can be captured and leveraged to drive more benefits for customers, municipalities, and the employees and contractors who deliver these projects. The re-adoption of the DSIC rules allows recovery of construction on any projects included but not started under prior foundational filings.

As discussed in the balance of this report, there is an undeniable need for the DSIC program to continue. Customers will experience improved safety and reliability of their water service, enhanced water quality, better system flows and pressures, and the benefits of greater conservation. The Company's program seeks to be the most cost-effective plan for accelerating water main rehabilitation, cleaning and lining, and replacement, valve and hydrant replacement, and service line replacement at a greater level than previously possible without the DSIC program.

Summary of Specific DSIC Program Success Factors

The Company's need to accelerate the reinvestment in water infrastructure is driven by several converging factors that are common to water systems throughout the United States. One of the most significant factors for NJAWC is the fact that cast iron mains installed prior to the mid-1900's are reaching the end of their usefulness due to age, condition, size or other factors (and frequently, a combination of factors). Many alternative pipe materials used during war decades have shorter service lives and are in need of replacement. This convergence of end of service life issues for a large portion of pipe materials in service in New Jersey drives the need for increased renewal rates to continue to maintain system integrity, reliability and public health standards. In many cases, as the specific Operating Area sections will show, the older pipe that is beginning to fail is located in older, heavily-developed areas where installing new pipe will be more expensive per unit cost than the original installation. Failure to adequately address these issues puts

the water systems at risk for increased service disruptions, increased leakage challenges and, in the case of significant service disruptions, extended boil water notices.

The Company has identified a neednecessity for increased renewal or rehabilitation of its buried infrastructure, and through the DSIC, the rate of renewal of the buried infrastructure is an approximate 100-year interval. This Foundational Filing presents the improvement plans for each of NJAWC's Operating Areas to enhance its distribution system reliability and integrity. NJAWC believes there are three components, or critical success factors, to the distribution system integrity. Each component has different elements which affect its performance.

(1) Structural integrity: replacement or structurally lining water mains, and replacement of broken or leaking valves, hydrants and service connections to enhance system reliability and safety, maintain system flows and pressures, reduce water quality events, improve conservation, and reduce water losses through main breaks and other types of leaks.

(2) Hydraulic integrity: replacement or cleaning and lining of water mains to increase the conveyance of a needed flow and pressure and prevent or reverse the diminution of flow, pressure or water quality.

(3) Water quality integrity: replacement or cleaning and lining of water mains to maintain the finished water quality through the system and reduce discolored water events.

These three critical success factors in distribution system performance are discussed in detail in this Foundational Filing. In addition, required relocation of buried assets due to municipal street renovation programs can accelerate the need for certain water main replacement/structural lining projects. The water utility has little control over this scheduling and must be able to respond to such required relocations as they emerge. While NJDOT sometimes covers the expense of the relocation, this is not generally the case for municipal or local work. The DSIC program will enable NJAWC to better schedule this work with individual municipalities and other utilities with underground assets.

Table ES.2 - Summary of Rule Requirements for Foundational Filings

Table ES.2 - Summary of Rule Requirements for Foundational Filings

	Sections of Report
1. An engineering evaluation report of the water utility's distribution system that: i. Identifies the rationale for the work needed to be accelerated for the water utility to properly sustain its water distribution network; and ii. Demonstrates that the plan proposed to accelerate the renewal of the distribution network is the most cost effective plan; and iii. To the extent that elements of the distribution network are failing, identifies what mechanisms are causing the failures; and iv. Identifies what is being done to extend the life of the water utility's assets.	Sections 1 through 6 and Appendices A – Water Main Condition Assessment, and B – Prioritization Model Description, and F – PCCP and other Large Diameter Mains Strategy and Projects List
2. DSIC project information for the upcoming DSIC period that includes the following: i. List of projects, DSIC-eligible asset class or category; ii. The nature, location, estimated duration of project work (including estimated in-service dates) and a description and reason for project necessity; iii. Aggregate information capturing blanket type DSIC-eligible infrastructure to be rehabilitated or replaced (*e.g.*, number of valves, number of hydrants, or number of service lines replaced) and the estimated annual cost of such blanket type replacement programs; iv. Vintage, condition, or other similar relevant, reasonably available information about the eligible infrastructure that is being rehabilitated or replaced; v. Estimated project costs; vi. Project identification numbers, so DSIC projects can be easily tracked; and *vii.* Other such information as is relevant and appropriate in order to provide adequate information to make an informed decision regarding any given project.	Sections 2 through 6 and Appendix C — Project List
3. The Foundational Filing shall include the expected amount of base spending for the water utility, including underlying detail adequate to document that the base spending has been made on the appropriate types of infrastructure.	Appendix D — Proposed DSIC Assessment

	Sections of Report
4. The Foundational Filing shall include: i. a proposed DSIC assessment, calculated in accordance with subsection *N.J.A.C.* 14:9-10.9; and ii. work papers showing the detailed calculations supporting the proposed assessment schedule.	Appendix D — Proposed DSIC Assessment
5. Public notice and a public hearing, at a minimum, are required in the DSIC Foundational Filing. The notice for said hearing shall include the maximum amount in dollars that is allowed to be recovered between rate cases as well as an estimated rate impact for the entire period on customers.	Appendix E — Proposed Form of Public Notice

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SECTION 1. ASSET MANAGEMENT

1.1 NJAWC OVERVIEW

New Jersey-American Water Company, Inc. ("NJAWC" or the "Company") is the state's largest water utility, with its principal office at 1 Water Street, Camden, New Jersey 08102. The Company serves approximately 2.8 million people, delivering approximately 290 million gallons of water a day to approximately 660,000 water customers. A map of NJAWC's service areas is shown in Exhibit 1.1.

The NJAWC service territory is organized into four Operating Areas: (i) South; (ii) North; (iii) Central; and (iv) Coastal. The South Operating Area is composed of the Southwest and the Coastal South.

These four Operating Areas effectively manage and operate 30 public water systems. A list of public water systems is provided in Table 1.1. NJAWC's local Operating Centers are located in Delran, Egg Harbor, Shrewsbury, Lakewood, Short Hills, Washington, Bridgewater, Hillsborough, and Plainfield. Field distribution crews, water quality and maintenance staff, and customer field services (meter reading, service activation, meter installation and related activities) are dispatched from the local Operating Centers.

Table 1.1 - New Jersey American Water Systems

Operating Area	System	PWSID #
North	Passaic Basin (Short Hills)	NJ0712001
	Four Seasons at Chester	NJ1407001
	West Jersey	NJ1427009
	International Trade Center (ITC)	NJ1427017
	Roxbury	NJ1436002
	Little Falls	NJ1605001
	Twin Lakes	NJ1803002
	Belvidere	NJ2103001
	Washington / Oxford	NJ2121001
Central	Frenchtown	NJ1011001
	Crossroads at Oldwick	NJ1024001
	Raritan	NJ2004002
Coastal	Shorelands	NJ1339001
	Coastal North	NJ1345001
	Union Beach	NJ1350001
	Deep Run	NJ1523002
	New Egypt (Plumstead)	NJ1523003

(South) Southwest	Homestead	NJ0318002
	Mount Holly	NJ0323001
	Delaware	NJ0327001
	Pemberton (Sunbury)	NJ0329006
	Vincentown (Southampton)	NJ0333004
	Harrison	NJ0808001
	Bridgeport	NJ0809001
	Logan	NJ0809002
	Penns Grove (Carneys Point)	NJ1707001
(South) Coastal South	Atlantic County	NJ0119002
	Cape May Courthouse	NJ0506010
	Ocean City	NJ0508001
	Strathmere	NJ0511001

The Southwest Operating Area serves customers in Camden, Burlington, Gloucester, and Salem Counties. This Operating Area includes the regional Delaware River Water System; the Mt. Holly Water System (providing water service to Eastampton, Hainesport, Lumberton, Mansfield, Mount Holly, and Westampton Township); the Homestead, Sunbury and Vincentown Water Systems (serving portions of Mansfield, Southampton, and Pemberton Township); the Bridgeport, Harrison, and Penns Grove Water Systems (all former South Jersey Services Water Systems); and the Logan Water System, acquired by NJAWC in 2007 (along with the former South Jersey Services Water Systems). Field personnel for the Southwest Operating Area are dispatched from the Operating Center in Delran.

The Coastal South Operating Area serves customers in Atlantic and Cape May Counties. This Operating Area includes the Atlantic County, Cape May Court House, Ocean City, and Strathmere Water Systems and is managed from the Fire Road Operating Center in Egg Harbor Township.

The Central Operating Area serves customers in Somerset, Union, Hunterdon, Middlesex and Mercer Counties. The Central Operating Area is primarily and extensively served by the regional Raritan Water System and two much smaller systems (Frenchtown and Crossroads at Oldwick Water Systems). The Raritan Water System is the largest system and is interconnected with NJAWC's Passaic Basin Water System, as well as other regional systems and several surrounding municipal water systems. Field personnel are dispatched from two Operating Centers: Hillsborough and Plainfield.

The North Operating Area serves customers in Essex, Union, Passaic, Morris, Somerset, and Warren Counties. This area includes the regional Passaic Basin Water System and several small systems in the northwest area of New Jersey. The predominant system in the North Operating Area, the Passaic Basin Water System, is interconnected with NJAWC's Raritan Water System (in the Central Operating Area), as well as

several surrounding water systems. The North Operating Area is managed from the Short Hills and Washington Operating Centers.

The Coastal Operating Area serves customers in Monmouth and Ocean Counties. This area manages the Coastal North, Shorelands, Union Beach, New Egypt and Deep Run Water Systems. This Operating Area serves water systems in eastern Monmouth County (including Howell, and Lakewood Townships), Ocean County, portions of the barrier island communities (Bay Head, Mantoloking, Brick Twp., Lavallette (a few streets), and Toms River Township. The two Operating Centers that manage the Coastal Operating Area are located in Shrewsbury and Lakewood.

1.2 ASSET INVENTORY

NJAWC owns and maintains approximately 9,300 miles of water main and associated appurtenances that convey drinking water to approximately 660,000 customers. The Company's infrastructure was installed over many decades with portions dating back to pre-1900. The quantity of pipe installed each year varied considerably over the last 150 fifty-plus years. In addition, there is considerable variability in pipe material as a function of building patterns and population growth. Construction materials and practices varied by decade and the standards used at the time. Tables 1.2.1 and 1.2.2 summarize NJAWC's buried water main inventory as categorized by material, diameter and estimated installation year. Sections 3 through 6 of this report provide greater detail on the assets and performance issues affecting the life of the mains in each Operating Area.

Table 1.2.1 – NJAWC Pipe Material by Diameter in Miles by Operating Area

	Cast Iron Unlined	Cast Iron Lined	Ductile Iron	Plastic	Metal	Asbestos Cement	PCCP	Total
North District								
< 6 in.	46	5	2	0	2	1		56
6 in. to 12 in.	348	354	469	6	1	59	0	1,238
14 in. to 16 in.	9	10	52		0		8	79
> 16 in.	6	2	46	2		0	6	62
	408	371	570	8	3	61	14	1,435
Central District								
< 6 in.	19	3	21	0	1	1	0	44
6 in. to 12 in.	773	413	1,440	3	4	40	0	2,674
14 in. to 16 in.	32	28	184	2	3	12	5	265
> 16 in.	14	28	68	0	1	2	136	249
	838	472	1,712	6	9	54	141	3,233
Coastal District								
< 6 in.	36	23	2	3	6	1	0	72
6 in. to 12 in.	194	354	788	56	2	340	0	1,734
14 in. to 16 in.	5	4	94	3	0	3	8	118
> 16 in.	17	6	83	4	1		20	131
	252	387	967	66	9	345	29	2,055
South District								
< 6 in.	57	10	24	5	4	1	0	101
6 in. to 12 in.	222	480	1,343	33	1	153	0	2,233
14 in. to 16 in.	1	4	143	2			12	162
> 16 in.	0	0	71	3			14	89
	280	494	1,582	43	5	154	26	2,585
Grand Total	1,778	1,724	4,831	124	26	614	210	9,307

Systemwide Totals

	Cast Iron Unlined	Cast Iron Lined	Ductile Iron	Plastic	Metal	Asbestos Cement	PCCP	Total
< 6 in.	157	41	49	9	13	4	0	274
6 in. to 12 in.	1,537	1,602	4,040	99	8	592	1	7,879
14 in. to 16 in.	47	46	474	7	3	15	33	624
> 16 in.	37	36	269	9	2	2	176	530
Grand Total	**1,778**	**1,724**	**4,831**	**124**	**26**	**614**	**210**	**9,307**

Table 1.2.2 – Estimate of Existing Mains by Decade Installed (in Miles)

	UNK	1900-1910	1910-1920	1920-1930	1930-1940	1940-1950	1950-1960	1960-1970	1970-1980	1980-1990	1990-2000	2000-2010	2010-2020	2020+	Total
Central District	69	3	161	283	68	213	368	322	496	430	340	218	47	214	3,233
Coastal District	5		182	104	43	357	301	191	219	183	157	253	50	10	2,055
North District	17	22	99	62	84	226	167	83	160	221	119	98	27	49	1,435
South District	46	38	38	53	59	237	373	202	345	434	372	272	49	67	2,585
Grand Total	**136**	**63**	**480**	**503**	**254**	**1,033**	**1,209**	**798**	**1,220**	**1,268**	**988**	**841**	**173**	**340**	**9,307**
Source NJAW GIS (02/2022)															
Rounded to Nearest 10th															

Service standards, design standards and construction practices varied widely across the years, leading to different service life estimates and service quality issues. The majority of the distribution piping installed in the United States, beginning in the late 1800's up until the late 1960's, was manufactured from cast iron. Prior to DSIC (2012), approximately forty-five percent (45%) of NJAWC's mains were cast iron (CI) (unlined & lined), indicating that almost half of NJAWC's water mains were more than fifty years old, and in many cases, significantly older. Through the DSIC program, measurable progress is being made. NJAWC's cast iron inventory as of December 2021 is approximately 38% of the total inventory, and approximately 49% of the CI inventory is lined, which includes rehabilitation through the cleaning and lining method. There remains a total of approximately 1,778 miles (19%) of unlined cast iron mains within NJAWC's distribution system. Since the DSIC implementation, there has been a net reduction of the cast iron pipe inventory of 7%. The challenges posed by older cast iron mains continue and are discussed further in the individual operating area sections as well as in Appendix A – Water Main Condition Assessment. A summary of pipe quantities present in each system is shown in Table 1.2.1. This data has been compiled from NJAWC's GIS (geographic information system) used to manage NJAWC's underground infrastructure. Figure 1.2.1 provides an illustration of the overall pipe material makeup currently in service for the Company.

Figure 1.2.1 New Jersey American Water Miles of Water Main

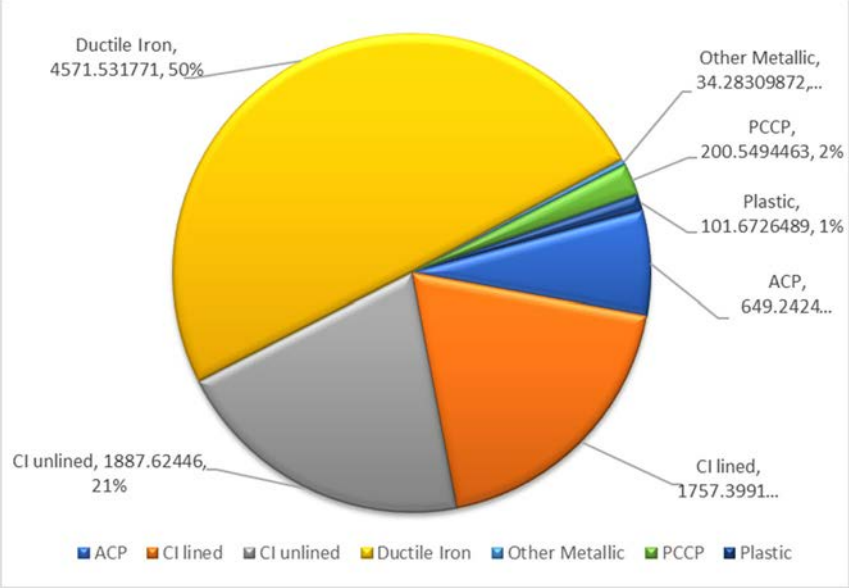
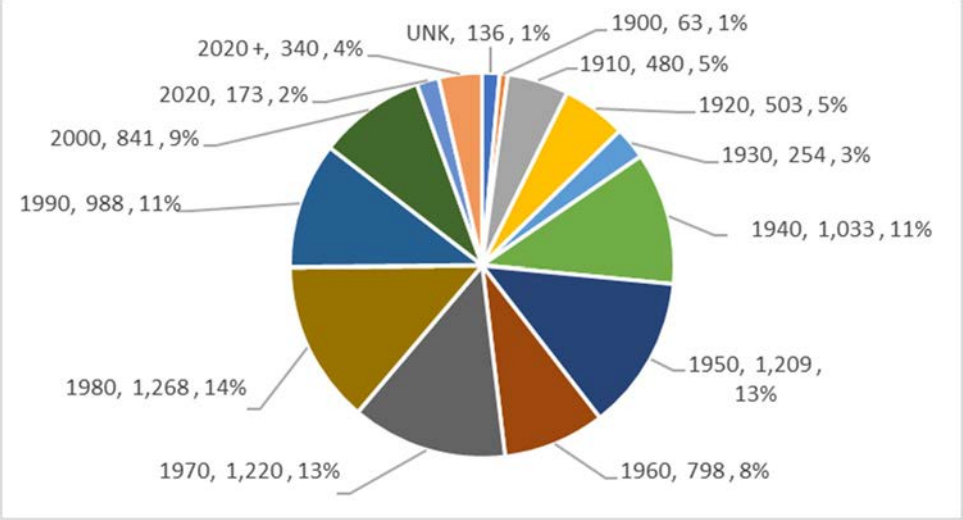


Table 1.2.2 further defines the pipe stock by an estimated installation decade. Because the installation year was typically not annotated on the historical maps, this data could not be readily captured in the electronic data conversion to the GIS system, as result decade installed is an estimate for older mains. Figure 1.2.2 illustrates the current water main age distribution for the Company.

Figure 1.2.2 NJAW 2022 Water Main Age Distribution



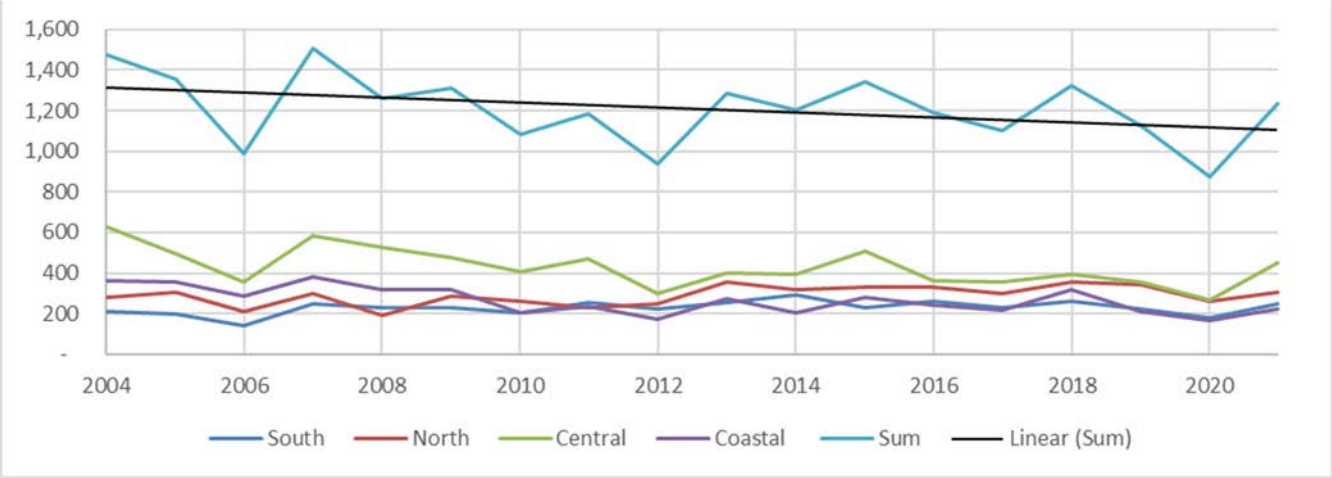
Renewal plans presented in Appendix A are categorized based on sound asset management practices using this asset inventory and operational data. Plans address specific concerns related to safety, reliability, water quality, flow and pressure, and the need to conserve the precious resource of water. Structural rehabilitation, non-structural rehabilitation and/or replacement techniques are evaluated and targeted to address specific service issues. Often, service issues can be linked to the various types and vintages of mains installed. For example, internal corrosion of unlined cast iron mains is a major contributor to discolored water, declining hydraulic capacity and leakage. Corrosion of reinforcing bands in pre-stressed concrete cylinder pipe, and the metallurgy of stove pipe and galvanized pipe materials also contribute to leakage and main failures. In addition, many mains installed decades ago are undersized for today's service standards, and were manufactured from materials available at the time but considered inferior to today's materials. NJAWC's renewal plans, presented in Appendix A, utilize a multi-pronged approach targeted to address historic service issues and projected problematic areas based on asset management data.

Main Breaks and Main Failures

Prior to the conversion to an electronic mapping process, NJAWC did not capture and record detailed information about individual mains, such as pipe material, year installed or geocoded break information, on system maps. Rather, this data was stored in paper card files, spreadsheets or separate databases. This data was also not typically available for acquired systems. Since the advent of GIS-based mapping and computerized maintenance management systems, NJAWC has been capturing and recording more detailed information, where available, to help build a more precise database of pipe material, vintage, and other

information to facilitate the planning and prioritization processes.[1] Below, in Figure 1.2.3, main break history is shown as aggregate information for the past 17 years, between 2004 and 2021. Detailed information for main breaks in 2021 is shown in each Operating Area, Sections 3 through 6 of this report. Please note that the information in Figure 1.2.3 is the historical raw number of main breaks, and is not presented as a frequency or rate of failure.

Figure 1.2.3 Historic Annual Water Main Breaks by District



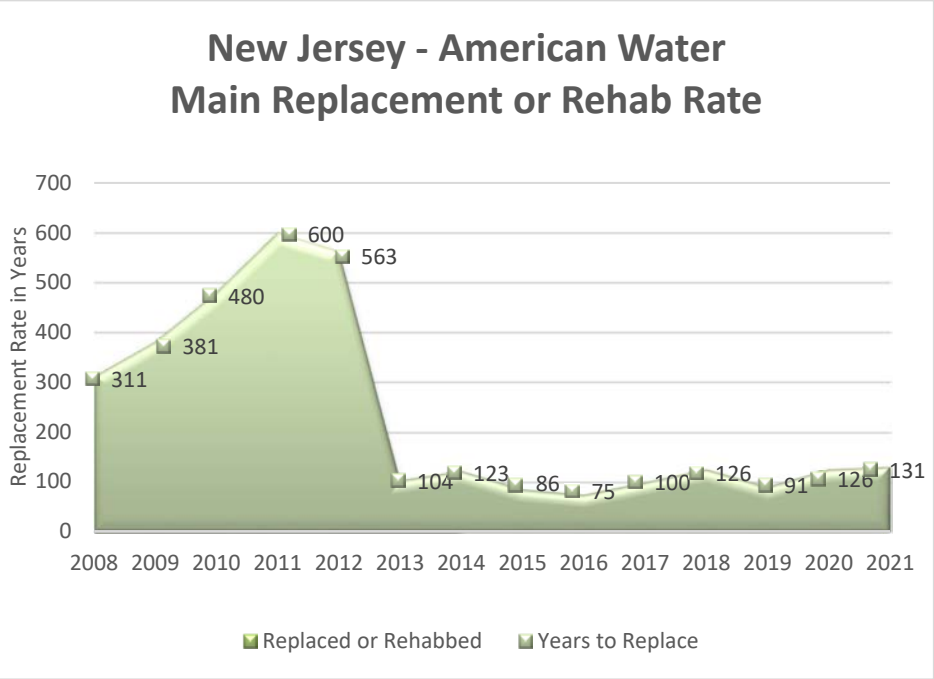
1.3 ASSET MANAGEMENT

NJAWC follows the asset renewal strategy presented in the American Water Works Association M28 Manual of Water Supply Practices for the Rehabilitation of Water Mains.[2] NJAWC uses a systematic approach to assess the condition of its distribution system assets and to prioritize their replacement or rehabilitation. The Company reviews the physical properties of the existing asset, the operating performance and maintenance history, and the risk and impact of a failure. External factors, including required relocation due to conflicts with proposed gravity sewer mains and road reconstructions, are accounted for in the decision-making process.

Figure 1.3 below provides a graphical representation of the historical water main replacement and rehabilitation (e.g. cleaning and lining) since 2008. The replacement and rehabilitation rate has significantly improved since the DSIC program went into effect in late 2012. While a renewal frequency of approximately 100 years has been achieved since DSIC program implementation, significant work remains. More importantly, main replacements and rehabilitation projects are identified based on needs and prioritized through the comprehensive pipe renewal prioritization models described in Appendix B.

[1] *See* Appendix B for more information on the prioritization process.
[2] *See* Appendices A and B for the process recommended in this practice and the associated NJAWC practice.

Figure 1.3 Historic Water Main Replacement and Rehabilitation Rate



The management of valves, service connections and hydrants is further discussed in Section 2.

Legend

Operating Areas

- Exhibit 3.1a/b - South
- Exhibit 4.1 - North
- Exhibit 5.1 - Central
- Exhibit 6.1 - Coastal

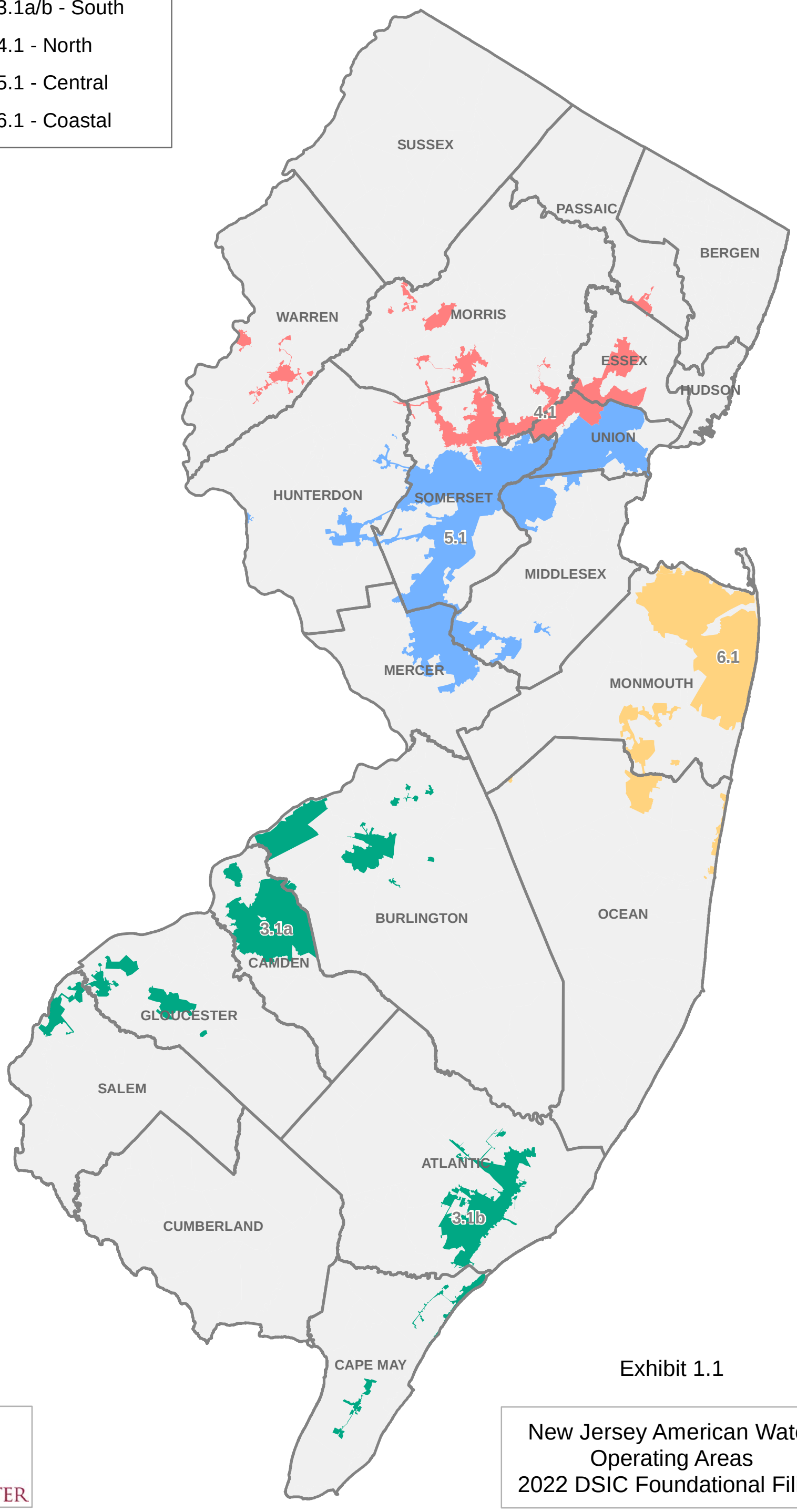


Exhibit 1.1

NEW JERSEY AMERICAN WATER

New Jersey American Water
Operating Areas
2022 DSIC Foundational Filing

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SECTION 2. VALVES, HYDRANTS & SERVICE CONNECTIONS

2.1 BLANKET DSIC PROJECTS

Valves, hydrants and service connections are important assets in water distribution systems. Properly operating and accessible valves are needed to perform flushing, to isolate sections of mains for maintenance and repair, and to respond quickly in an emergency. Hydrants, the only above-ground portion of the distribution system, are also vital components as these provide the connection to water for firefighting and the main flushing activities. Renewal of service connections is also an important aspect of asset management because leaks on service lines not only waste water, but can lead to disturbance of bedding around water mains.

Additionally, the Company continues to review its tap records to identify Company-owned lead and galvanized service lines (including "goosenecks") ("LSLs"). Where tap records were not available or do not provide service line material data, the Company considers the level of LSLs identified through tap records, age of homes, census data, pipeline installation records, and institutional knowledge to develop its estimated number of LSLs (including goosenecks). Although the Company's tap records do not consistently identify the material of the customer-owned service line, the Company estimates that there is likely lead on the customer side where it finds lead on the Company side. The Company plans on replacing all its lead service lines as required by the recently-enacted "Lead Service Line Replacement Law" (P.L. 2021, Chapter 183) (N.J.S.A. 58:12A-40, et seq.) which includes replacement of galvanize pipe, and consistent with the Lead Service Replacement (LSR) Plan submitted by the Company on January 14, 2022 (BPU Docket Number WR22010017).

In accordance with the requirements of the DSIC Rule at N.J.A.C. 14:9-10.4(b)2v., the following tables summarize NJAWC's three-year history of capital expenditures for valves, service laterals, and hydrants. This aggregate information details the capital spend used for blanket-type DSIC-eligible infrastructure to be rehabilitated or replaced (*e.g.,* number of valves, number of hydrants, or number of service lines replaced) and the estimated annual cost of such blanket-type replacement programs.

Table 2.1 - NJAWC Blanket-Type DSIC Spend History

NJAW DSIC Blanket Elegible Capex 2019-2021			
Category	**2019**	**2020**	**2021**
Services	$ 30,021,362	$ 36,993,531	$ 31,689,625
Hydrants & Valves	$ 14,702,167	$ 19,379,980	$ 16,346,475
Grand Total	$ 44,723,529	$ 56,373,511	$ 48,036,100

Number of Blanket Replacements			
Category	**2019**	**2020**	**2021**
Services	10,393	11,345	9,006
Hydrants	898	768	548
Valves	2,001	3,648	2,430

NJAWC proposes an annual spending plan for valve and hydrant replacements and service renewals of approximately $60 million. This proposed spend distribution may change as system needs dictate. Certainly, the rate of LSL replacements will increase considerably starting in 2022 and continuing at higher rate for the next 8-10 years to be in compliance of the Lead Service Line Replacement Law of 2021 (P.L. 2021, Chapter 183) and consistent with LSR Plan submitted by the Company on January 14, 2022 (BPU Docket Number WR22010017). It is noted, the customer-owned LSL replacements are not included in the $60 million estimate as the estimate only includes the replacement of Company-owned service lines.

2.2 SERVICE CONNECTIONS

Service connections delivering potable water from the distribution main to the customer's service line generally consist of a corporation stop, pipe lateral and a shutoff valve (curb stop) with curb box over the shutoff valve to access and protect the valve (newer installations include a meter pit where practical). Service lines are typically sized from 3/4 -inch to 12-inch in diameter. The table below shows the existing services by material and diameter. Service lines below 1 ½ inches are typically domestic while the larger service lines have commercial and firefighting components to them.

Table 2.2 - NJAWC Service Laterals by Type and Diameter

NJAW Services by Type and Diameter				
	< = 1.5"	2" to 3"	> = 4"	Grand Total
Asbestos Cement		-	46	46
Cast Iron	(2)	1,124	6,928	8,050
Copper	292,089	5,240	256	297,585
Ductile Iron			7,615	7,615
Galvanized Steel	10,880	1,998	9	12,887
Lead	19,177	-		19,177
Lead - Tube Loy	479			479
Plastic	1,526	5	56	1,587
Polyethelene	62,554	2,194	1,603	66,351
Unknown			229,208	229,208
Wrought Iron	1,476	106		1,582
Grand Total	388,179	10,667	245,721	644,567
Source: 2021 BPU Report, pg. 53				

2.3 SERVICE LINE MATERIAL DESCRIPTION

Current installation design:

Copper Pipe - Copper is the most common type of water supply line piping, and very dependable. While very dependable, copper lines can eventually corrode if subjected to either acidic or high chloride environmental conditions or very soft supply water conditions.

Polyethylene Pipe (PE) - Polyethylene pipe is typically used as service piping. Black in color, it is a flexible material that is easier to install than most other service lines and typically is used in corrosive soil conditions.

Prior materials used:

A variety of materials were used as far back as the late 1800's. Typical materials used in the past that are currently considered obsolete include:

Galvanized Steel - Galvanized steel piping was widely used in the first half of the 20th century. Galvanized steel often corrodes from the inside, which ultimately creates a source of leakage. The oxidation corrosion reduces the interior diameter of the pipe, restricting the flow of water, and usually begins leaking at threaded joints. Galvanized pipe was typically connected to the service main with a three-foot section of lead pipe, which added flexibility at the connection. This lead pipe section is typically referred to as either the "Goose Neck" or "Whip."

Wrought Iron - A steel pipe installed in the 1900's, similar in properties to cast iron.

Polybutylene Pipe (PB) - Polybutylene pipe is a flexible gray or blue plastic. A common problem with polybutylene is that the joints deteriorate when in contact with chlorine in the water. During the 1990's, there was a trend in using this material during construction.

Lead Pipe - Lead service laterals may be found in some service piping in homes 80+ years old or in commercial construction, in both urban and suburban service areas.

Tube-Loy - A metal alloy service line material which is 99.7 percent lead and was used for water service lines during World War II due to copper and steel shortages.

Threaded Brass - Threaded brass is uncommon, however, it was sparingly used in residential units built before 1940. The service life is similar to that of copper pipe.

Unknown – This is a NJAWC classification to identify services where the material type is not known. Usually these are services installed prior to 1940 and are likely to be galvanized steel.

2.4 NEW JERSEY AMERICAN WATER SERVICE LINE REPLACEMENT PRACTICE

The service line replacement is performed both during main renewal projects and under separate street level projects strictly focused on service line replacements. Generally, service lines/connections are targeted for the replacement if:

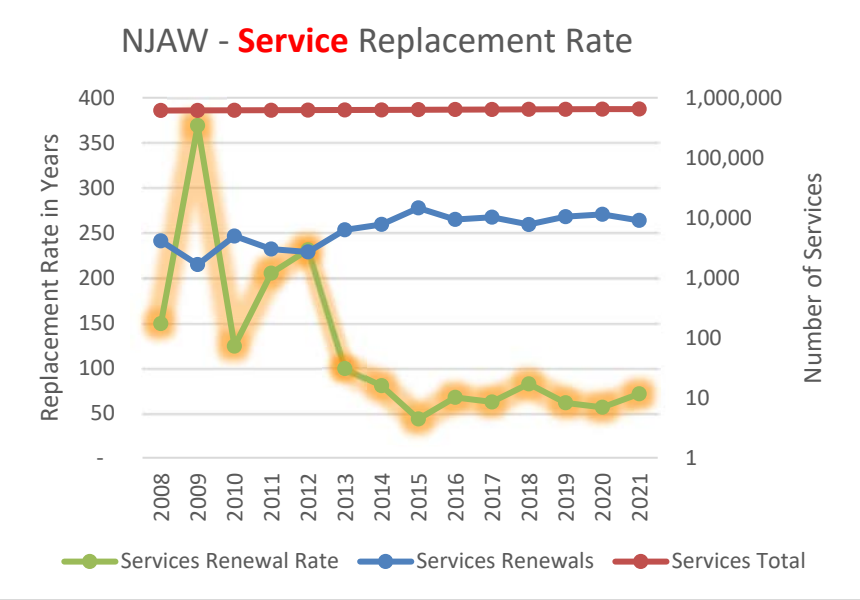
1. Inferior service line materials exist, including but not limited to the following:
    a. Polybutylene (blue or grey plastic)
    b. Galvanized steel
    c. Tube-Loy (lead / copper alloy)
    d. Lead
    e. Wrought Iron
2. The area has a higher frequency of service line leaks / breaks than other areas of the district.
3. The area has copper services in excess of 75-years old. Generally, the service life of copper pipe is not expected to exceed 80 years; copper services in the >75 year age cohort are likely to be a source of leakage in the near term if disturbed.
4. The area is expected to experience higher pressures due to main replacements or other system improvements.
5. Galvanized, Tube-Loy, and Lead services, irrespective of their condition will be replaced consistent with the LSR Plan submitted in January 2022 (BPU Docket Number WR22010017).

Service line replacement projects outside the scope of main replacement or paving projects are typically considered when the service lines in an area are a suspected cause of non-revenue water and more recently to fulfill the requirements of LSL Replacement Law. The suspected cause of non-revenue water is validated by using acoustic monitors or other quantifiable evidence. Service line replacement projects are also considered when service pressure and/or water quality is adversely affected by the existing performance of the service line, or if there is a high consequence of failure likely and the service lines are approaching their expected service life duration (approximately 80 years for properly installed copper service lines with neutral soil conditions).

The Company portion of a service line is replaced upon discovery of a leak or break (on the NJAWC-owned service). If the service line is in good condition and the cause is acute and not expected to reoccur (e.g., line hit during landscaping, etc.), then a repair is made. Also, if two service lines are adjacent (defined by a few feet in distance) and of the same vintage, NJAWC may consider replacing both if one has failed due to age.

Figure 2.4, below, illustrates the historical service line replacement rate for the past several years.

Figure 2.4 – Service Line Replacement Rate



2.5 HYDRANTS AND VALVES

New Jersey American Water continually inspects and maintains both its over 46,000 hydrants and its over 184,000 valves within its distribution system, as reflected in Table 2.5, in order to ensure the operational integrity of these assets. This pro-active maintenance program is important to local operations as it typically increases reliability, reduces failure, and extends the asset life. The failure of these assets can lead to costly repairs or replacement activities.

Table 2.5 - NJAWC Active Hydrants and Valves

Operating Area	Hydrants	Valves
Central District	17,095	67,978
Coastal District	9,388	39,100
North District	8,611	29,532
South District	11,660	47,426
Total	**46,754**	**184,036**

New Jersey American Water's valve and hydrant inspection program schedules the inspection and operation of these system appurtenances. Valves and hydrants found to be broken and not repairable are identified for replacement in the Company's Computerized Maintenance Management System. Replacements are then scheduled in order of priority in accordance with NJAWC's prioritization model and capital planning process.

New Jersey American Water's yearly Large Valve Replacement Program consists of replacing inoperable valves sized 12-inch and larger. These valves are typically located on larger-diameter mains affecting large areas of the Company's distribution system and require additional coordination efforts to effect repair and replacement. The valves can also be located around or at critical production facilities, such as booster stations, reservoirs and storage tank sites. These valves can be broken in the open, closed or partially closed position, and after a thorough physical inspection, have been classified as irreparable.

Valve replacements require a work plan and a coordinated effort between multiple departments to mitigate any possible adverse events during the installation of the replacement valve. To execute the more complex projects, hydraulic analysis, engineering design, permitting, event coordination, night construction during low flow periods, and bypass piping may be needed.

Hydrant replacements are equally important. Replacements are generally identified during flushing operations when the hydrant or valve is damaged, piping or nozzles are corroded, or the hydrant is old and undersized for the expected service. Input is also obtained from local officials and fire departments for inoperable or substandard hydrant performance and included, when appropriate, in the hydrant replacement program.

Below are two figures that illustrate the historical hydrants and valves replacement rate for the past several years. While the replacement rate for hydrants as shown in Figure 2.5a reveals some improvements since DSIC, the replacement rate for valves as shown in Figure 2.5b shows a dramatic improvement in the replacement rate since DSIC implementation in New Jersey. The replacement rate for hydrants generally has been under 80 years and since DSIC, has fallen to under 60 years. The replacement rate for valves was sporadic prior to DSIC and was generally over 200 years; since DSIC was enacted, the valve replacement rate has generally been around 100 years.

Figure 2.5a – Hydrant Replacement Rate

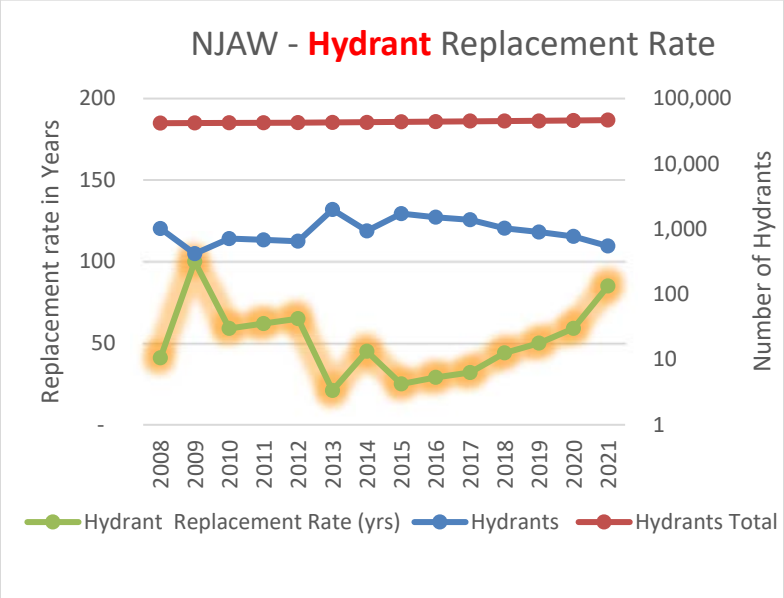
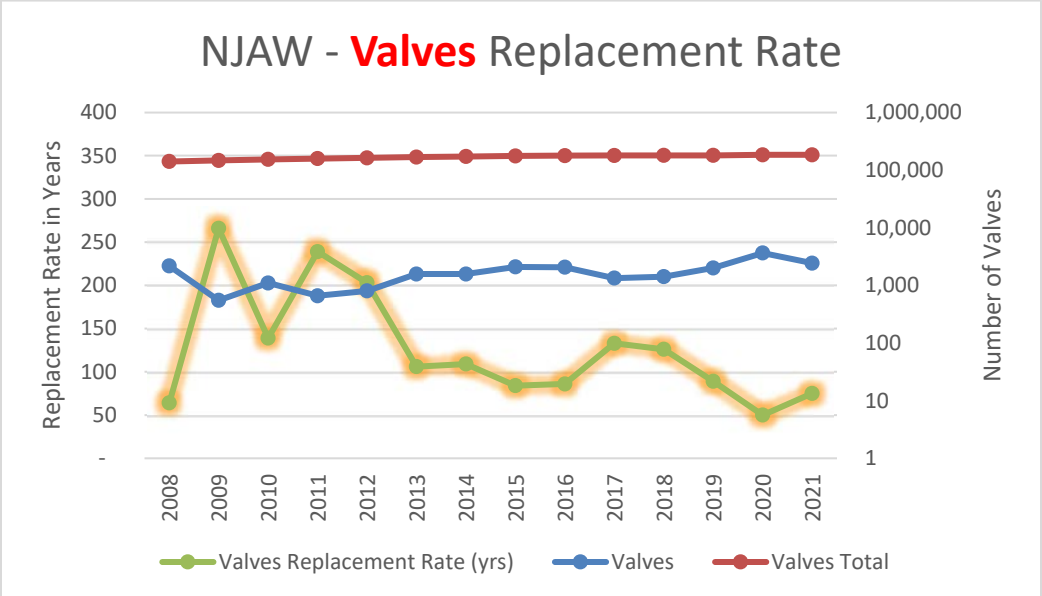


Figure 2.5b – Valves Replacement Rate



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SECTION 3. SOUTH OPERATING AREA

3.1 OVERVIEW

New Jersey American Water's South Operating Area consists of thirteen (13) Public Community Water Systems in Atlantic, Burlington, Camden, Cape May, Gloucester, and Salem Counties. These public water systems, combined, deliver approximately 65 mgd, on average. Table 3.1.1 details the number of residential customers and water usage by system. Exhibit 3.1, attached, shows the location of these service areas.

Table 3.1.1 - South Operating Area Water Systems' Characteristics (2021)

PWSID	System Name	Service Connections	Estimated Population Served	Avg Day Demand (MGD)	Peak Month Demand (MGD)
NJ0327001	Delaware	105,081	278,798	42.690	47.298
NJ0119002	Atlantic County	39,514	105,898	10.794	14.412
NJ0508001	Ocean City	28,953	77,594	2.628	5.648
NJ0323001	Mount Holly	8,365	22,418	4.183	5.289
NJ1707001	Penns Grove	3,591	9,624	1.003	1.106
NJ0808001	Harrison	2,986	8,002	0.963	1.655
NJ0506010	Cape May Courthouse	2,360	6,325	0.755	1.115
NJ0809002	Logan	2,069	5,545	1.615	2.073
NJ0318002	Homestead	1,341	3,594	0.146	0.188
NJ0511001	Strathmere	385	1,032	0.067	0.148
NJ0329006	Pemberton (Sunbury)	355	951	0.064	0.077
NJ0809001	Bridgeport	312	836	0.085	0.119
NJ0333004	Vincentown	207	555	0.039	0.052

The sources of supply for this region include the Delaware River Region Water Treatment Plant and numerous well stations in Atlantic, Burlington, Camden, Cape May, Gloucester and Salem Counties. The corrosion control strategy in the South Operating Area includes pH control and the addition of phosphates as corrosion inhibitors at the Delran surface water treatment plant and groundwater well stations. Phosphates are used to inhibit the internal corrosion of water mains, to sequester iron, manganese, calcium, and magnesium, and to improve the quality of water in the distribution system by preventing scale deposits and tuberculation. Orthophosphate, added at the surface water treatment plant, inhibits corrosion by reacting with dissolved minerals in the water to form a thin coating or film on the inner surface of the pipe that is exposed to the treated water. Blended poly phosphates are added at most well facilities in order to sequester soluble metals found in the groundwater. The two forms of phosphate addition (orthophosphate

and blended poly phosphates) are meant to work together to provide corrosion control while also reducing discoloration and scaling from groundwater.

The non-revenue water rate in the South Operating Area averaged 5.7% in 2021. Routine maintenance, flushing, leak detecting, valve exercising, and meter replacement occur on an ongoing basis.

The treated water from NJAWC's sources of supply is conveyed to customers through approximately 2,600 miles of distribution mains, with sections dating back to the pre-1900 period. Water mains were manufactured and installed over many decades, resulting in a wide variety of materials, pipe sizes and joint types. The type of water main installed was based on the predominant pipe material available at the time. Table 3.1.2, below, provides a summary of the material and diameter of the assets that continue to provide service.

Table 3.1.2 - South Operating Area Summary of Mains by Material Type

Southern Operating Systems ALL PWSID's Miles of Main by Diameter					
Row Labels	**< 6"**	**6" to 12"**	**14" to 16"**	**> 16"**	**Total**
Asbestos Cement	1.0	153.3			154.3
Cast Iron Lined	9.7	480.3	4.2	0.1	494.4
Cast Iron Unlined	56.9	221.7	1.5	0.4	280.4
Ductile Iron	24.4	1343.4	142.7	71.2	1581.7
Metal	4.1	1.0			5.1
Plastic	5.1	33.1	2.1	2.7	43.0
PCCP	0.1	0.0	11.5	14.2	25.9
Total	**101.3**	**2232.8**	**162.1**	**88.6**	**2584.8**

3.2 DISTRIBUTION SYSTEM ASSET PERFORMANCE

The useful life of mains, valves, hydrants and service connections varies based on materials, environment, internal and external corrosion rate, internal and external forces, ground freezing and thawing cycles, groundwater levels, soil conditions and many other factors. As the water systems age there is a need to renew infrastructure to ensure safety and reliability, improve system flows and water pressure, protect water quality, promote conservation and reduce non-revenue water. The performance of mains and deterioration rate can be shown by monitoring the break frequency. Table 3.2 and Figure 3.2.a, below, provide a summary of repairs by material and type of break in the South Operating Area during 2021.

Table 3.2 - Summary of Break Rate by Material for the South Operating Area (2021)

Southern District							
	Asbestos Cement	Cast Iron	Ductile Iron	Other Metallic	PCCP	Plastic	Total
Miles of Main	154	775	1582	5	26	43	2585
Main Failures	11	202	21	4	4	1	243
Failures per Mile	0.07	0.26	0.01	0.79	0.15	0.02	0.09

Figure 3.2.a - Summary of Main Breaks by Type in Southern (2021)

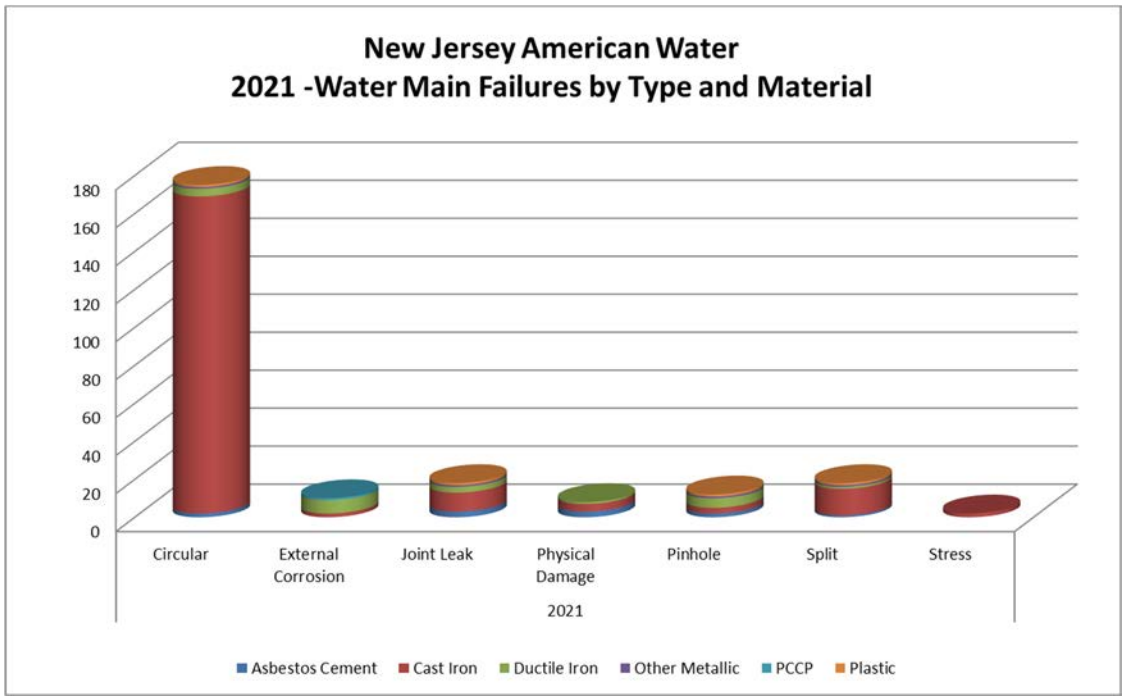
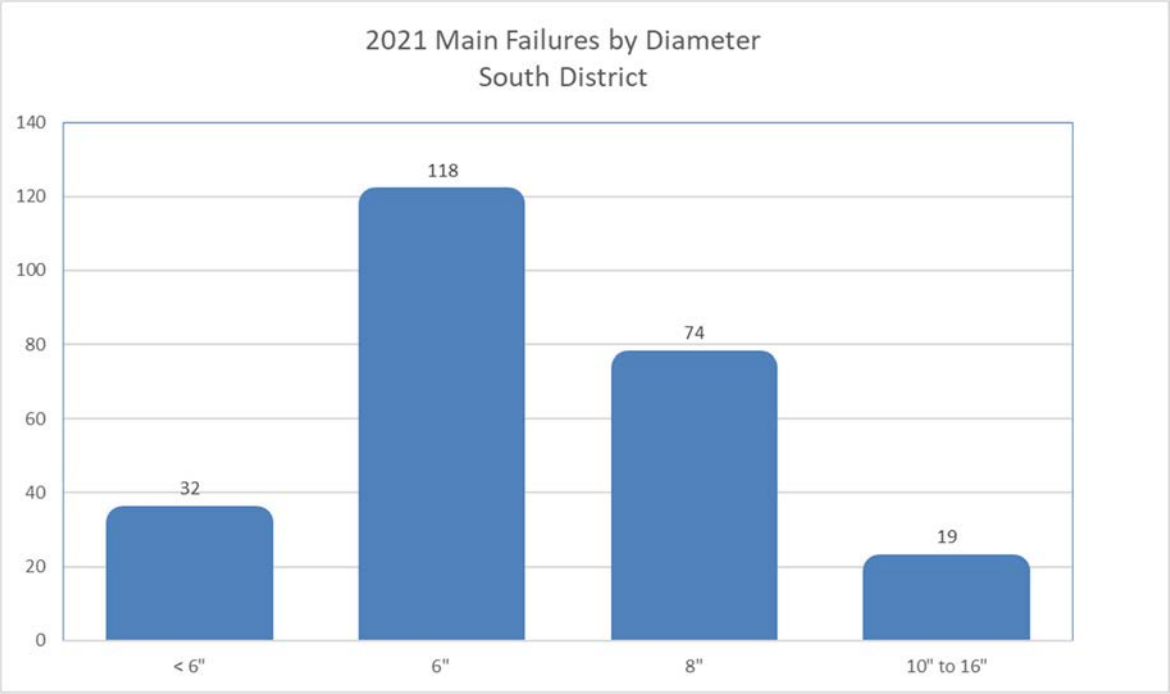


Table 3.2 illustrates that the highest break rate frequency in this operating area occurs on cast iron, and other metallic pipe. While in the past, the highest rate had been occurring on older PVC installed in the Penns Grove system which in the past few years have been addressed, and thus, the break rate for Plastic (or PVC) has been significantly reduced from nearly 1 break per mile per year (bmy) to less than 0.05 bmy. While we made significant progress, there remains a significant area within Burlington County that has stove pipe, a cement pipe wrapped in a thin galvanized steel overlay (or other metallic). The overall break rate of 1.29 bmy from prior years, is gradually improving, but still high at 0.79 bmy. This pipe material is prone to aggressive external corrosion which results in frequent failure and cannot be repaired. The cast iron mains installed in the first half of the past century are the largest subset of NJAWC water mains that are experiencing increased failure rates. These mains are targeted for accelerated rehabilitation and replacement in the DSIC program.

Figure 3.2.a highlights that the greatest number of water main failures in the South Operating Area is associated with cast iron water mains. Most cast iron pipes fail because of a combination of factors that include external loading, internal pressure, manufacturing flaws and corrosion damage. The greatest cause of failure seen in these mains is circular or circumferential cracking, where the pipe splits in a circle across its diameter. Circular failures are usually the result of settlement of the pipe due to erosion of the pipe bedding. The cause of the settlement is normally the result of a small pinhole or joint leak caused by corrosion or external loads that can gradually wash away the bedding supporting the water main and cause the water main to be unevenly supported, resulting in a circular break. Circular breaks are also noted in increased frequency when there is change in water temperature and attributed to thermal stress within the pipe. Other common types of failures include: bell splitting, consisting of a longitudinal break starting at the bell; corrosion pitting (pinholes, deterioration, or blow outs); longitudinal cracking (stress), where the pipe breaks along its length; or physical damage caused by outside influences.

Table 3.2. and Figure 3.2.a show the cause of water main failures by break rate, material type, and cause of failure. Figure 3.2.b details the number of breaks in the South Operating Area by diameter. When viewed together, these illustrate that the majority of pipe failures in 2021 were cast iron mains, 8 inch or smaller, installed in the first half of the twentieth century.

Figure 3.2.b - Summary of Main Failures by Diameter – South (2021)



3.3 SYSTEM-SPECIFIC ISSUES

The DSIC program for this area will accelerate replacement of undersized mains, older mains manufactured from obsolete materials, and mains with high break rate frequencies. The South Operating Area includes sections of the City of Camden (the northwest portion of the City) and Pennsauken, which have old, smaller-diameter water mains. Areas of Pennsauken also contain asbestos cement mains that have been experiencing increased main failures over the past few years. A major roadway, US Rt. 130, which is an artery running through Pennsauken, leading to the Ben Franklin Bridge and the City of Philadelphia, has experienced main failures, creating significant traffic detours and delays.

During the 1960's, a large number of developments were constructed in the South Operating System. These developments, many in Cherry Hill and Gloucester Townships in Camden County, along with Delran and Cinnaminson Townships in Burlington County, account for a major percentage of the main repairs in the service area. As an example, a 1960's installation in Delran Township experienced 15 main failures within a 4,000+ foot length of main in a single roadway, or a main failure approximately every 300 feet. The failing mains were predominantly cast-iron lined mains and could be a result of installation practices and undesirable soil conditions at the time of construction.

The Palmyra/Riverton distribution system in Burlington County has stove pipe in need of replacement. Stove pipe is a fragile clay-type material encapsulated in a thin layer of tin, riveted and welded at the seams. This pipe has been subject to many main leaks over the years, which can best be described as costly blow-outs causing significant roadway damage, along with customer water quality complaints. The age of the pipe varies from the 1880's to the very early 1900's, installed at shallow depths of 3 to 3.5 ft. Main breaks on these pipes are a common source of complaints from municipalities about roadway and property damage.

Also in Burlington County, the municipalities of Mt. Holly, Riverside, Delanco and Edgewater Park contain small-diameter unlined cast iron piping, some dating back to the 1870's, contributing to fire flow and water quality issues.

In the Camden County area, along the White Horse Pike (US. RT 30), and Black Horse Pike (US RT 168), the municipalities of Audubon, Oaklyn, Haddon Heights, Runnemede and others have undersized old lead joint piping.

In 2007, NJAWC acquired the water system of Mt. Ephraim, Camden County. The majority of its piping consists of old unlined cast iron lead joint mains. This system has main leak and fire flow issues. In the same year, NJAWC also acquired the Penns Grove Operating System in Salem County. This system

contains a number of old, small, undersized mains with dead ends that need to be looped in. The Carneys Point section of this system has a number of 2-inch and smaller mains, with 8 to 10 customers being feed from these single small mains, in some instances.

While many of the issues identified above have been addressed, many underperforming mains remain in service requiring renewals. A list of DSIC-eligible projects proposed to be completed between 2022 and 2025 is shown in Table 3.5, attached. Most of the projects consist of replacement of water mains from the early- to mid-1900's in the various water systems in the South Operating Area. These mains have flow issues, leaks and undersized pipe which, once replaced, will provide customers with improved system flows and pressures, enhanced water quality and improved safety and reliability while increasing conservation by reducing leaks and main breaks.

3.4 INDIVIDUAL SYSTEM DESCRIPTIONS

A. DELAWARE RIVER WATER SYSTEM (PWSID NJ0327001)

System Description

New Jersey American Water's Delaware River System (DRS) is a regional public water system serving franchise and bulk sale customers in southwestern New Jersey, covering Burlington, Camden, Gloucester, and portions of Salem Counties. The DRS has four separate NJAWC franchise service areas that provide water service to all or parts of 40 municipalities in Burlington, Camden, Gloucester, and Salem Counties. The DRS also provides bulk water supplies to other 24 public community water systems in the region through bulk water sales agreements (WSA).

The Delaware River Regional Water Treatment Plant (DRRWTP) in Delran and the regional transmission pipeline provide: a) a replacement supply for Critical Area 2 groundwater diversion reductions/limits, and b) supply augmentation for growth in the region. NJAWC's franchise service areas in Burlington and Camden Counties were interconnected with the regional pipeline and began receiving surface water supplies in April 1996. NJAWC's City of Camden service area was subsequently connected to the regional pipeline in late 1996. NJAWC received the franchise to serve the Rowan Technology Park in Gloucester County in 2007.

The regional transmission main was extended to the NJAWC-Bridgeport and NJAWC-Logan Systems in Gloucester County in December 2009. Subsequently, an interconnecting pipeline was installed from the Logan System to NJAWC's Penns Grove System in Salem County in September 2010.

Demand

The average and peak daily demands of the DRS are 43 MGD and 47 MGD, respectively. These demands include 16 MGD of bulk sales in 2021 and supply transfers to other systems, including some NJAWC systems.

Source of Supply & Production

In addition to the DRRWTP, NJAWC also diverts groundwater from various Coastal Plain aquifers. There are 65 wells treated at 21 active production well stations located throughout the franchise areas within Burlington and Camden Counties. The current conjunctive annual source of supply for the DRS is approximately 60% surface water and 40% groundwater.

The DRRWTP typically provides an average of 22 to 25 MGD while the local groundwater sources provide approximately 17 MGD. The majority of the groundwater supply is within NJDEP's Critical Area 2.

With the reduced capacity available from ground water sources due to water quality concerns, the current (2021) total available system capacity is approximately 76 (75.8) MGD with an overall system reliable or firm capacity of 72.6 MGD.

Distribution & Storage

The distribution system network has multiple pressure gradients. The system has a total of twenty-three tanks for distribution storage. There are approximately 1,340 miles of main ranging in size from 2-inch to 54-inch diameter, as shown in Tables 3.4.A.1 and 3.4.A.2.

Table 3.4.A.1 - Delaware River System Water Mains

Delaware NJ0327001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	0.1	93.5			93.6
Cast Iron Lined	7.7	394.0	4.2	0.1	406.0
Cast Iron Unlined	38.9	126.1	0.7	0.0	165.8
Ductile Iron	14.5	526.4	47.2	57.9	646.0
Metal	1.3	0.3			1.6
Plastic	1.1	1.2	0.2	2.3	4.9
PCCP	0.1	0.0	11.5	8.3	19.9
Total	63.7	1141.6	63.8	68.7	1337.8

Note: due to rounding, not all the totals will sum.

Table 3.4.A.2 - Delaware River System Asset Summary Table

Delaware Water System PWSID NJ0327001	
Miles of Main	1,338
Hydrants	5,738
Valves	23,941
Service Connections	105,516

B. MT. HOLLY WATER SYSTEM (PWSID NJ0323001)

System Description

The Mt. Holly System is a public water system located in Burlington County, serving portions of Mansfield, Westampton, Eastampton, Hainesport, Lumberton, and Mount Holly Townships.

Source of Supply & Production

The supply for the Mt. Holly System includes three groundwater stations (Mansfield, Woodlane and Green Street) and a regional interconnection with the Delaware River System. All three well stations employ iron removal treatment. Five wells treated at the Woodlane Avenue and Green Street Stations are within Critical Area 2. The third well station, Mansfield, lies outside of the Critical Area 2 boundary. This station treats seven wells drilled into the Middle PRM aquifer. The maximum diversion rate is 5,600 gpm. The regional supply interconnection is located near Marne Highway.

The Mt. Holly System firm capacity is 14.392 MGD including 3 MGD transfer from the Delaware River Regional Pipeline.

Bulk water is sold to Medford Township pursuant to a Commodity Demand agreement currently set at 0.660 MGD.

Distribution & Storage

The distribution system operates as two gradients. The system has three tanks for a total of 4.232 MG of distribution storage. The system consists of approximately 220 miles of main ranging in size from 4-inch to 36-inch, as shown in Tables 3.4.B.1 and 3.4.B.2, below.

Table 3.4.B.1 - Mt. Holly System Water Mains

Mount Holly NJ0323001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	0.9	28.2			29.1
Cast Iron Lined		2.5	0.0		2.5
Cast Iron Unlined	1.0	12.5			13.5
Ductile Iron	1.6	145.6	9.7	7.7	164.7
Metal	0.1	0.4			0.5
Plastic	2.5	0.1	0.0	0.1	2.8
PCCP				5.9	5.9
Total	6.1	189.4	9.8	13.7	218.9

Note: Due to rounding, not all the totals will sum.

Table 3.4.B.2 - Mt. Holly System Asset Summary Table

Mt. Holly System PWSID NJ0323001	
Miles of Main	219
Hydrants	1,214
Valves	4,325
Service Connections	15,362

C. HOMESTEAD WATER SYSTEM (PWSID NJ0318002)

System Description

The Homestead System is located in Burlington County and provides water service to a portion of Mansfield Township. Other sections of Mansfield Township are served by the Mt. Holly System.

Source of Supply & Production

The Homestead service area supply consists of two groundwater wells with one treatment plant. The two wells are drilled into the Upper Potomac-Raritan-Magothy aquifer. Both wells are located within the Critical Area 2 Threatened Zone.

This system was interconnected with the Mt. Holly System in February 2006, via an interconnection on Petticoat Bridge Road on the northeastern part of the system.

Distribution & Storage

The distribution system operates as one gradient. The system consists of 12 miles of main ranging in size from 4-inch to 12-inch as shown on Tables 3.4.C.1 and 3.4.C.2, below. Homestead has one standpipe with a capacity of 450,000 gallons.

Table 3.4.C.1 - Homestead System Water Mains

Homestead NJ0318002 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Ductile Iron	0.3	11.5		0.2	12.0
Total	0.3	11.5		0.2	12.0

Table 3.4.C.2 - Homestead System Asset Summary Table

Homestead System PWSID NJ0318002 Asset Summary Table	
Miles of Main	12
Hydrants	79
Valves	236
Service Connections	1,294

D. SUNBURY WATER SYSTEM (PWSID NJ0329006)

System Description

The Pemberton-Sunbury System is a public water system located in Pemberton Township, Burlington County, New Jersey. The Pemberton-Sunbury System provides water service to Sunbury Village within Pemberton Township.

Source of Supply & Production

The supply for the Pemberton-Sunbury System includes one well drilled into the Mt. Laurel-Wenonah aquifer and a 150 gpm emergency interconnection with Pemberton Borough Water System.

Distribution & Storage

The distribution system operates as one gradient. The system consists of a 0.15 MG tank and 4 miles of main ranging in size from 2-inch to 12-inch.

Table 3.4.D.1 - Sunbury System Water Mains

Pemberton (Sunbury) NJ0329006 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement		2.4			2.4
Ductile Iron	0.0	1.6			1.6
Total	0.0	4.0			4.0

Table 3.4.D.2 - Sunbury System Asset Summary Table

Sunbury/ Pemberton System PWSID NJ0329006	
Miles of Main	4
Hydrants	17
Valves	66
Service Connections	405

E. VINCENTOWN WATER SYSTEM (PWSID NJ0333004)

System Description

The Vincentown System is a public water system located in Southampton Township, Burlington County, New Jersey. The Vincentown System provides water service to a portion of Southampton Township.

Source of Supply & Production

The Vincentown System has two wells drilled into the Mount Laurel Wenonah Formation.

Distribution & Storage

The system is operated as one gradient. The system consists of one tank and 3 miles of main ranging in size from 2-inch to 12-inch.

Table 3.4.E.1 - Vincentown System Water Mains

Vincentown (Southampton) NJ0333004 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Cast Iron Unlined	0.0	0.4			0.4
Ductile Iron	0.0	2.7			2.7
Metal	0.0	0.2			0.2
Plastic	0.0				0.0
Total	0.1	3.3			3.4

Table 3.4.E.2 - Vincentown System Asset Summary Table

Vincentown System PWSID NJ0333004	
Miles of Main	3.4
Hydrants	37
Valves	97
Service Connections	242

F. BRIDGEPORT WATER SYSTEM (PWSID NJ0809001)

System Description

The Bridgeport System is a public water system located in Gloucester County, southeast of the Commodore Barry Bridge. The Bridgeport System provides water service to the eastern part of Logan Township. Formerly owned by the Penns Grove Water Supply Company, NJAWC acquired and assumed operations of the Bridgeport System in November 2007.

Source of Supply & Production

The Bridgeport System has historically relied upon ground water from two wells located at its Railroad Avenue Station. These wells, drawing water from the Magothy (Upper) portion of the Potomac-Raritan-Magothy aquifer were found to have been affected by the PFAS contamination in 2018. Due to their relatively low yield, these wells were subsequently retired and sealed.

In September 2009, New Jersey American Water constructed an interconnection with the Delaware River System's Regional Transmission Main, and the Bridgeport System began receiving supplemental surface

water supplies. This interconnection, located near the intersection of Hendrickson Mill Road and Swedesboro-Paulsboro Road, has since become the primary source of supply this system.

Distribution & Storage

The distribution system is operated as one hydraulic gradient. The system includes three elevated tanks used for distribution, storage and equalization. There are 13 miles of main ranging in size from 4-inch to 16-inch.

Table 3.4.F.1 - Bridgeport System Water Mains

Bridgeport NJ0809001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Cast Iron Unlined		0.3			0.3281442
Ductile Iron	0.0	12.6	0.0		12.673315
Plastic	0.3	0.1	0.1		0.4741316
Total	0.3	13.0	0.1		13.5

Note: Due to rounding, not all the totals will sum.

Table 3.4.F.2 - Bridgeport System Asset Summary Table

Bridgeport System PWSID NJ0809001	
Miles of Main	13
Hydrants	70
Valves	181
Service Connections	362

G. HARRISON TOWNSHIP WATER SYSTEM (PWSID NJ0808001)

System Description

The Harrison System is a public water system located in Gloucester County, southeast of New Jersey Turnpike Exit 2. The Harrison System provides water service to the village of Mullica Hill and other areas of Harrison Township. Formerly owned by South Jersey Water Company, NJAWC acquired and assumed operations of the Harrison System in November 2007.

Source of Supply & Production

The Harrison System supply is comprised of three groundwater stations and includes two interconnections with the DRRWTP pipeline. Four wells drilled in the Magothy (Upper) portion of the Potomac-Raritan-Magothy aquifer are within Critical Area 2 restrictions.

In February 2006 NJAWC constructed an interconnection with the Delaware River System's Regional Transmission Main. This initial interconnection is located near the intersection of Heilig Road and Aura Road in the northeastern part of the system. A second interconnection located in the northwest corner of the system on Tomlin-Station Road became operational in November 2009.

Distribution & Storage

The distribution system operates as one gradient. The system includes on one standpipe and one ground storage reservoir for distribution storage. There are 64 miles of main ranging in size from 2-inch to 16-inch.

Table 3.4.G.1 - Harrison Twp. System Water Mains

Harrison NJ0808001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Cast Iron Lined		0.0			0.0
Cast Iron Unlined	0.1	0.6	0.0		0.7
Ductile Iron	1.4	62.3	2.3		66.0
Metal	0.0				0.0
Plastic	0.1	0.1			0.2
Total	1.7	62.9	2.3		66.9

Note: Due to rounding, not all the totals will sum.

Table 3.4.G.2 - Harrison Twp. System Asset Summary Table

Harrison System PWSID NJ0808001	
Miles of Main	67
Hydrants	441
Valves	1,178
Service Connections	3,142

H. LOGAN WATER SYSTEM (PWSID NJ0809002)

System Description

The Logan System is a public water system located in Gloucester County, southwest of the Commodore Barry Bridge. The Logan System was acquired by NJAWC in May 1998. The service area includes portions of Logan Township and a small portion of Woolwich Township. The Logan system also provides bulk sales to Aqua New Jersey (0.49 MGD) for its Woolwich System.

Source of Supply & Production

The supply for the Logan System consists of three groundwater stations: Birch Creek, and Beckett Stations. These stations provide iron removal treatment for five wells drilled in the Magothy (Middle) portion of the Potomac-Raritan-Magothy aquifer.

Distribution & Storage

The distribution system operates as two pressure gradients with two storage tanks. The Logan Main Gradient is the primary pressure gradient. The Commodore Rt. 295 Gradient is a smaller gradient. The Pedricktown Gradient in the Penns Grove System was interconnected with the Logan Main Gradient in 2010. The system is comprised of approximately 51 miles of main ranging in size from 4-inch to 16-inch as shown in Tables 3.4.H.1 and 3.4.H.2.

Table 3.4.H.1 - Logan System Water Mains

Logan NJ0809002 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Cast Iron Lined	0.0	0.6			0.6
Cast Iron Unlined		1.2			1.2
Ductile Iron	1.1	43.8	2.3	0.5	47.7
Metal	0.0	0.0			0.0
Plastic	0.1	0.4	0.9		1.4
Total	1.2	46.0	3.2	0.5	50.9

Note: Due to rounding, not all the totals will sum.

Table 3.4.H.2 - Logan System Asset Summary Table

Logan System PWSID NJ0809002	
Miles of Main	50
Hydrants	256
Valves	728
Service Connections	2,653

I. PENNS GROVE WATER SYSTEM (PWSID NJ1707001)

System Description

The Penns Grove System is a public water system located in Salem County, northeast of the Delaware Memorial Bridge. The Penns Grove System provides water service to Carney's Point and Oldman's Townships. Formerly owned by the Penns Grove Water Supply Company, NJAWC acquired and assumed operations of the Penns Grove System in November 2007.

The Oldman's Township (Pedricktown) part of the Penns Grove System is interconnected with the Logan System. This has resulted in approximately 330 customers and associated demands being shifted to the Logan System Main Pressure Gradient.

Source of Supply & Production

The Penns Grove System has two groundwater stations with seven wells. There are four wells at the Ranney Station: three wells drilled in the Magothy (Upper) portion of the Potomac-Raritan-Magothy (PRM) aquifer, and one well drilled in the Potomac (Lower) portion of the PRM aquifer. There are three wells at the Layton Station: two wells drilled in the Magothy (Upper) portion of the PRM aquifer, and one well drilled in the Potomac (Lower) portion of the PRM aquifer. In 2014, a new water treatment plant was placed in service at the Ranney Station to treat both the Ranney and Layton wellfields comprising iron and manganese removal followed by granular activated carbon adsorption for the removal of trace organics (PFAS).

The regional water supplies began to supplement the Penns Grove System at the end of 2010. Through the Pedricktown Booster Station, supplemental water supply is conveyed from the Logan System (which receives surface water supplies from the Delaware River System) to the Penns Grove System.

The Penns Grove System firm capacity is 2.396 MGD including a 0.2 MGD transfer from the Logan System.

Distribution & Storage

With the Oldman's Township (Pedricktown) part of the Penns Grove System now interconnected with the Logan System, the only remaining pressure gradient is the Penns Grove Main gradient. The system consists of six tanks and approximately 70 miles of main ranging in size from 4-inch to 16-inch in diameter.

Table 3.4.I.1 - Penns Grove System Water Mains

Penns Grove (Carneys Point) NJ1707001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement		1.1			1.1
Cast Iron Lined	0.3	8.0			8.4
Cast Iron Unlined	3.0	14.3		0.0	17.3
Ductile Iron	1.2	39.9	0.8	0.0	42.0
Metal	0.4	0.1			0.5
Plastic	0.3	0.4			0.7
Total	5.2	63.8	0.8	0.0	69.9

Note: Due to rounding, not all the totals will sum.

Table 3.4.I.2 - Penns Grove System Asset Summary Table

Penns Grove System PWSID NJ1707001	
Miles of Main	70
Hydrants	383
Valves	1,199
Service Connections	4,109

J. ATLANTIC COUNTY WATER SYSTEM (PWSID NJ0119002)

System Description

The Atlantic County System is a public water system located in Atlantic County serving customers in Absecon City, Egg Harbor Township, Galloway Township, Linwood City, Northfield City, Pleasantville City, and Somers Point City.

Source of Supply & Production

The source of supply for the Atlantic County service area is derived from 25 wells at 19 well stations located throughout the service area, drawing from either the Kirkwood-Cohansey formation or the 800-Foot Sands formation.

The Atlantic County System also maintains an interconnection with the Atlantic City Municipal Utilities Authority (ACMUA).[1]

Distribution & Storage

The Atlantic County distribution system operates as two pressure gradients with seven elevated tanks, approximately 650 miles of water main ranging in size from 4-inch to 24-inch in diameter, and more than 2,300 fire hydrants as shown in Tables 3.4.J.1 and 3.4.J.2, below.

Table 3.4.J.1 - Summary of Atlantic County System Water Mains

Atlantic County NJ0119002 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	0.0	9.7			9.7
Cast Iron Lined	1.4	74.0	0.1		75.4
Cast Iron Unlined	11.0	43.0			54.1
Ductile Iron	3.8	433.2	65.7	2.6	505.3
Metal	1.4	0.0			1.4
Plastic	0.3	1.6	0.4		2.3
Total	17.9	561.5	66.2	2.6	648.3

Note: Due to rounding, not all the totals will sum.

Table 3.4.J.2 - Atlantic County System Asset Summary Table

Atlantic County System PWSID NJ0119002	
Miles of Main	648
Hydrants	2,317
Valves	11,444
Service Connections	44,014

[1] NJAW's bulk purchase agreement with ACMUA terminated in November 2016. Only emergency interconnections remain.

K. CAPE MAY COURTHOUSE WATER SYSTEM (PWSID NJ050610)

System Description

The Cape May Court House Water System is a public water system serving customers in Cape May Court House, Mayville, Burleigh, Swainton, and surrounding areas in Middle Township, Cape May County. The Cape May Court House Water System has no sale for resale customers and currently has no customers accounting for more than 10% of total system delivery.

Source of Supply & Production

NJAWC owns and maintains three wells located in the northern, central, and southern parts of the service area, and one metered interconnection with Wildwood City. Two wells draw from the AC 800-Foot Sands and one well from Kirkwood-Cohansey aquifer, with a combined pumping capacity of 3.89 MGD.

Distribution & Storage

The distribution system operates as one pressure gradient with two elevated tanks and approximately 47 miles of main ranging in size from 4-inch to 16-inch as shown on Tables 3.4.K.1 and 3.4.K.2, below.

Table 3.4.K.1 - Cape May Court House System Water Mains

Cape May Courthouse NJ0506010 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement		4.3			4.3
Cast Iron Lined		0.3			0.3
Cast Iron Unlined	0.0	0.8			0.8
Ductile Iron	0.0	34.4	7.3		41.7
Metal	0.1				0.1
Total	0.1	39.8	7.3		47.2

Note: Due to rounding, not all the totals will sum.

Table 3.4.K.2 - Cape May Court House System Asset Summary Table

Cape May Courthouse System PWSID NJ0506010	
Miles of Main	47
Hydrants	250
Valves	862
Service Connections	2,765

L. OCEAN CITY WATER SYSTEM (PWSID NJ0508001)

System Description

The Ocean City Water System is a public water system serving customers within Ocean City, Marmora, Beesley's Point and other surrounding areas of Upper Township in Cape May County. The Ocean City Water System has no sale for resale customers, and currently has no customers accounting for more than 10% of total system delivery.

Source of Supply & Production

The Ocean City system is supplied by eleven wells drawing from the AC 800-Foot Sands aquifer.

Distribution & Storage

The distribution system currently operates as one pressure gradient maintained by two elevated tanks, one standpipe, and a reservoir. A new storage tank is planned for the Seaville area of Upper Twp., with an accompanying higher pressure gradient for the inland portion of Upper Twp. The Ocean City system has approximately 107 miles of main ranging in size from less than 4-inch to 24-inch as show on Tables 3.4.L.1 and 3.4.L.2, below.

Table 3.4.L.1 - Ocean City System Water Mains

Ocean City NJ0508001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	0.0	14.0			14.0
Cast Iron Lined	0.3	0.8			1.2
Cast Iron Unlined	2.8	22.3	0.7	0.3	26.2
Ductile Iron	0.2	26.8	7.2	2.5	36.7
Metal	0.8	0.0			0.8
Plastic	0.1	27.7	0.4	0.2	28.4
PCCP			0.1		0.1
Total	4.3	91.7	8.3	3.1	107.4

Note: Due to rounding, not all the totals will sum.

Table 3.4.L.2 - Ocean City System Asset Summary Table

Ocean City System PWSID NJ0508001	
Miles of Main	107
Hydrants	822
Valves	3,054
Service Connections	19,679

M. STRATHMERE WATER SYSTEM (PWSID NJ0511001)

System Description

The Strathmere System is a public water system serving customers in a small shore community within the eastern-most part of Upper Township in Cape May County. Strathmere is bounded by Strathmere Bay to the west, Corson Inlet to the north, the Atlantic Ocean to the east, and Sea Isle City to the south.

Source of Supply & Production

The source of supply for the Strathmere service area is derived from two wells, both drilled into the 800-Foot Sands aquifer, with a combined pumping capacity of 0.432 MGD. NJAWC also maintains an emergency connection with the City of Sea Isle.

Distribution & Storage

The Strathmere distribution system operates as one pressure maintained by Vincent Avenue elevated tank. The system has 5 miles of mains ranging in size up to 12-inch as shown in Tables 3.4.M.1 and 3.4.M.2, below.

Table 3.4.M.1 - Strathmere System Water Mains

Strathmere NJ0511001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Cast Iron Unlined	0.1	0.0			0.1
Ductile Iron	0.1	2.7	0.0		2.8
Metal	0.0				0.0
Plastic	0.1	1.6			1.7
Total	0.3	4.3	0.0		4.6

Note: Due to rounding, not all the totals will sum.

Table 3.4.M.2 - Strathmere System Asset Summary Table

Strathmere System PWSID NJ0511001	
Miles of Main	5
Hydrants	20
Valves	115
Service Connections	411

3.5 PROPOSED DSIC PROJECTS, FILING 2022-2025

A total of approximately 730 additional pipeline projects have been identified in the South Operating Area in need of renewal in this foundational filing, and a total of 825 projects when including previously DSIC Foundational Filing identified projects. Approximately 270 of these projects have been identified as high priority projects and are proposed to be completed between 2022 and 2025, as shown in Table 3.5, attached. The scope and location of the identified projects are presented in this table.

Exhibit 3.1a

Legend

Service Area

- Bridgeport
- Burlington/Camden
- Penns Grove
- Elk Twp
- Harrison
- Homestead
- Logan
- Mt Holly
- Sunbury
- Vincentown

COUNTY	MUNICIPALITY SERVED
CAMDEN	Audubon Borough
CAMDEN	Barrington Borough
CAMDEN	Bellmawr Borough
CAMDEN	Camden City
CAMDEN	Cherry Hill Township
CAMDEN	Clementon Borough
CAMDEN	Gibbsboro Township
CAMDEN	Gloucester Township
CAMDEN	Haddon Heights Borough
CAMDEN	Haddon Township
CAMDEN	Haddonfield Borough
CAMDEN	Hi-Nella Borough
CAMDEN	Laurel Springs Borough
CAMDEN	Lawnside Borough
CAMDEN	Lindenwold Borough
CAMDEN	Magnolia Borough
CAMDEN	Mount Ephraim Borough
CAMDEN	Oaklyn Borough
CAMDEN	Pennsauken Township
CAMDEN	Runnemede Borough
CAMDEN	Somerdale Borough
CAMDEN	Stratford Borough
CAMDEN	Voorhees Township

COUNTY	MUNICIPALITY SERVED
BURLINGTON	Beverly City
BURLINGTON	Burlington Township
BURLINGTON	Cinnaminson Township
BURLINGTON	Delanco Township
BURLINGTON	Delran Township
BURLINGTON	Eastampton Township
BURLINGTON	Edgewater Park Township
BURLINGTON	Hainesport Township
BURLINGTON	Lumberton Township
BURLINGTON	Mansfield Township
BURLINGTON	Maple Shade Township
BURLINGTON	Mount Holly Township
BURLINGTON	Mount Laurel Township
BURLINGTON	Palmyra Borough
BURLINGTON	Pemberton Township
BURLINGTON	Riverside Township
BURLINGTON	Riverton Borough
BURLINGTON	Southampton Township
BURLINGTON	Springfield Township
BURLINGTON	Westampton Township

COUNTY	MUNICIPALITY SERVED
GLOUCESTER	East Greenwich Township
GLOUCESTER	Harrison Township
GLOUCESTER	Logan Township
GLOUCESTER	Mantua Township
GLOUCESTER	Woolwich Township
SALEM	Carneys Point Township
SALEM	Oldmans Township
SALEM	Penns Grove Borough

N
W E
S

BURLINGTON

GLOUCESTER

CAMDEN

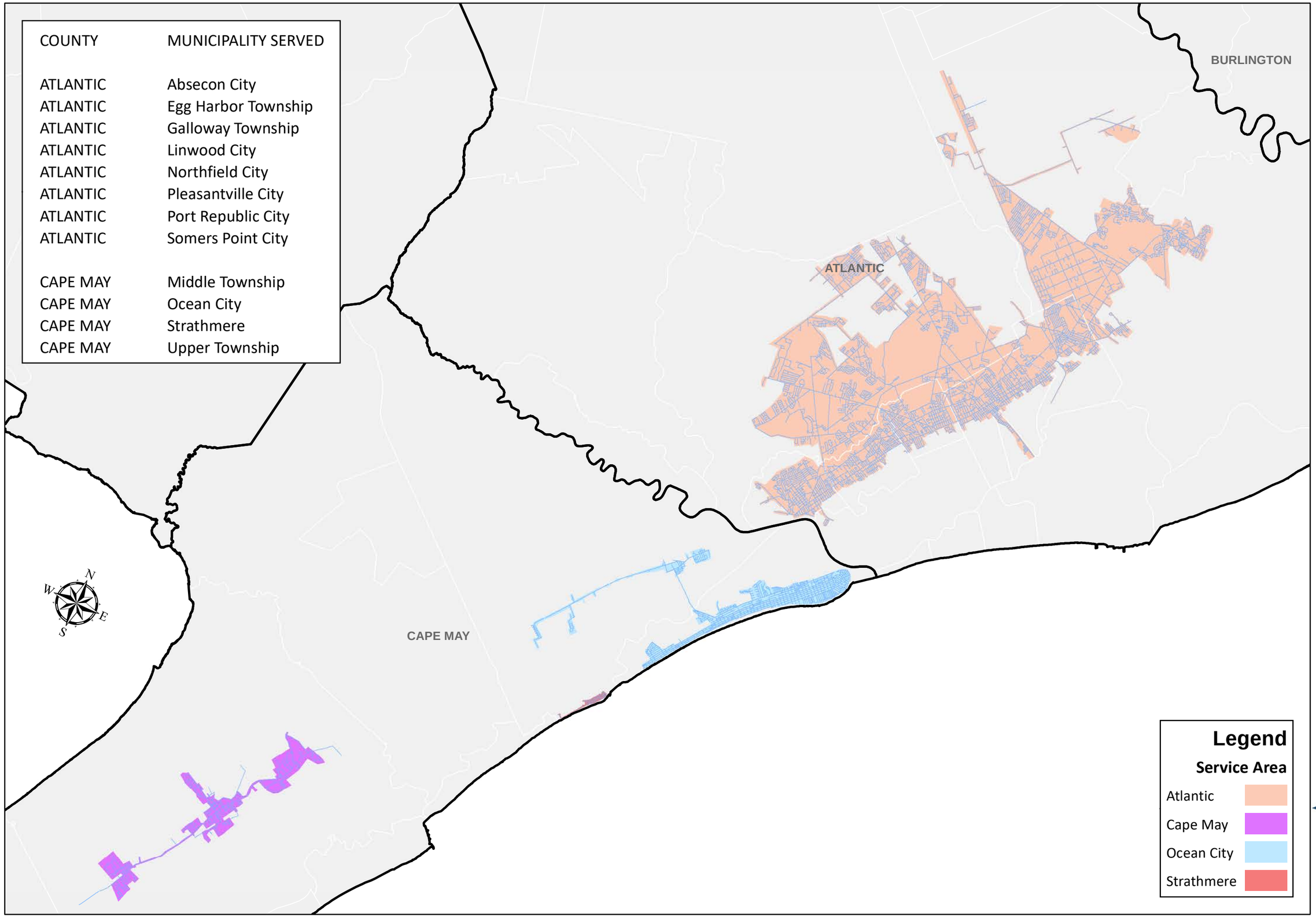
SALEM

New Jersey American Water
2022 DSIC Foundational Filing
South Operating Area

NEW JERSEY AMERICAN WATER

Exhibit 3.1b

COUNTY	MUNICIPALITY SERVED
ATLANTIC	Absecon City
ATLANTIC	Egg Harbor Township
ATLANTIC	Galloway Township
ATLANTIC	Linwood City
ATLANTIC	Northfield City
ATLANTIC	Pleasantville City
ATLANTIC	Port Republic City
ATLANTIC	Somers Point City
CAPE MAY	Middle Township
CAPE MAY	Ocean City
CAPE MAY	Strathmere
CAPE MAY	Upper Township



New Jersey American Water
2022 DSIC Foundational Filing
South Operating Area (Coastal)

NEW JERSEY AMERICAN WATER

2022 Foundational Filing
Table 3.5 - Southern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
217	Southern Operating Area	ABSECON	Shore Road - Between Faunce Landing Road & Shady Lane (Shore Rd Mort ends 2014)	$ 255,000	Replace	989	16.00	Ductile Iron	1910	4	CI	System Flows and Pressure	60	2025Q4
216	Southern Operating Area	ABSECON	Shore Road - Between Station Avenue & Faunce Landing Road (Shore Rd Mort ends 2014)	$ 609,000	Replace	1740	16.00	Ductile Iron	1940	6	CI	System Flows and Pressure	30	2025Q4
235	Southern Operating Area	ABSECON	Shore Road - Between Shady Lane & Bayview Drive (ASMRP 1.10)	$ 845,900	Replace	2417	16.00	Ductile Iron	1910	4	CI	System Flows and Pressure	90	2025Q4
237	Southern Operating Area	ABSECON	Shore Road - Between Kessler Avenue & 200 Feet North of Kessler Avenue	$ 72,000	Replace	206	16.00	Ductile Iron	1980	6	CI	System Flows and Pressure	10	2025Q4
6057	Southern Operating Area	ABSECON	Cordova Drive between Shore Road and Lisbon Ave	$ 50,000	Replace	255	6.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	25	2024Q4
236	Southern Operating Area	ABSECON	Shore Road - Between Bayview Drive & Wyoming Avenue	$ 453,000	Replace	1294	16.00	Ductile Iron	1910	4	CI	System Flows and Pressure	30	2025Q4
5509	Southern Operating Area	ABSECON	Richmond Circle from Shady Lane to the end	$ 93,250	Replace	373	6.00	Ductile Iron	1910	2	CI	Water Quality	12	2024Q4
6056	Southern Operating Area	ABSECON	Berkley Avenue between Shore Road and Euclid Drive	$ 112,500	Replace	611	8.00	Ductile Iron	1940	2	CI	System Flows and Pressure	60	2024Q4
6060	Southern Operating Area	ABSECON	Wyoming Avenue between Shore Road and Pitney Road	$ 650,000	Replace	2777	12.00	Ductile Iron	1910	6	CI	System Flows and Pressure	90	2023Q4
8504	Southern Operating Area	ABSECON	Libson Avenue & Cortez Avenue	$ 527,500	Replace	2102	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	90	2023Q4
10352	Southern Operating Area	ABSECON	Chelsea Rd, Woodcrest Ave, Elberon Ave and Mill Rd (Pitney Rd to Chelsea Rd)	$ 890,500	Replace	3344	8.00	Ductile Iron	1940	8	CI	Safety and Reliability/Structural	180	2025Q4
7654	Southern Operating Area	ABSECON	Pitney Road (Between Church St. - Wyoming Ave), Oak Drive, Spruce St, Pine St (Pitney to Shady Ln), Sycamore (Spruce to Pine)	$ 1,276,000	Replace	4640	12.00	Ductile Iron	1940	6	AC	System Flows and Pressure	60	2024Q4
419	Southern Operating Area	AUDUBON	Audubon - Wyoming Avenue - Audubon Avenue to Washington Terrace	$ 608,000	Replace	2675	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	90	2024Q3
8902	Southern Operating Area	AUDUBON	Audubon - RRX at W Kings Highway and W Atlantic Avenue	$ 200,000	Replace	140	12.00	Ductile Iron	1950	10	CI	Safety and Reliability/Structural	30	2024Q4
8877	Southern Operating Area	AUDUBON	Audubon - Central Avenue, Oswego Avenue, Wyoming Avenue, Creston Avenue, Beloit Avenue, Oakland Avenue	$ 1,265,400	Replace	5881	8.00	Ductile Iron	1900	4	CI	Safety and Reliability/Structural	60	2024Q4
10193	Southern Operating Area	AUDUBON	Audubon- Main Street (Rt168 to end) and Tosmania Avenue	$ 250,000	Replace	1466	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
8596	Southern Operating Area	BARRINGTON	Barrington - Mercer Drive, Letitia Lane, Avon Road, Princeton Road, Whitman Drive, and Peltoma Road	$ 1,216,000	Replace	7446	8.00	Ductile Iron	1940	8	AC	Safety and Reliability/Structural	90	2024Q4
5667	Southern Operating Area	BELLMAWR	Bellmawr - 1st Ave and N. Bellmawr Avenue - E. Browning Road to Existing 6"	$ 114,000	Replace	863	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	30	2025Q4
317	Southern Operating Area	CAMDEN	Camden - Saunders Street - 27th Street to 30th Street	$ 228,000	Replace	1536	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	30	2024Q4
5825	Southern Operating Area	CAMDEN	Camden - Harrison Avenue - North 28th Street to VCA-665	$ 138,700	Replace	816	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	60	2024Q4
5828	Southern Operating Area	CAMDEN	Camden - Concord Avenue - North 27th Street to North 29th Street	$ 209,000	Replace	1054	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	30	2024Q4
315	Southern Operating Area	CAMDEN	Camden - Cambridge Avenue - River Road to Harrison Avenue	$ 228,000	Replace	1328	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	30	2024Q4
5877	Southern Operating Area	CAMDEN	Camden - Marlton Ave - 12" in Federal St to 12" In Rosemont Ave	$ 720,000	Replace	3966	12.00	Ductile Iron	1920	8	CI	Relocation/Opportunity	90	2024Q4
5884	Southern Operating Area	CAMDEN	Camden - South 32nd Street - Fermont Ave to Highland Ave	$ 150,000	Replace	818	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	2024Q4
316	Southern Operating Area	CAMDEN	Camden - Cramer Street and 28th Street - 27th Street to 30th Street	$ 266,000	Replace	1525	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2024Q4
5847	Southern Operating Area	CAMDEN	Camden - Church Street - Westfield Avenue to Federal Street	$ 123,500	Replace	636	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2024Q4
5829	Southern Operating Area	CAMDEN	Camden - Hayes Avenue - North 27th Street to North 29th Street	$ 209,000	Replace	1061	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2025Q4
5830	Southern Operating Area	CAMDEN	Camden - Garfield Avenue - North 27th Street to North 29th Street	$ 209,000	Replace	1051	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	60	2025Q4
5858	Southern Operating Area	CAMDEN	Camden - Stewart Street - Howell Street to East State Street	$ 123,500	Replace	620	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	2024Q4
8836	Southern Operating Area	CAMDEN	Camden - Concord Ave, Hayes Ave, Garfield Ave, Arthur Ave, Sherman Ave, Wayne Ave, Lincoln Ave, Tyler Ave, Polk Ave, Harrison Ave, Buren Ave - Between North 27th Street to North 29th Street	$ 2,747,400	Replace	14452	8.00	Ductile Iron	1940	12	CI	Safety and Reliability/Structural	120	2024Q4
7556	Southern Operating Area	CAMDEN	Marlton Avenue, Berwick Avenue, Morse St, Sewell Street, Westminster Avenue	$ 350,000	Replace	1735	8.00	Ductile Iron	1900	6	CI	System Flows and Pressure	60	2024Q4
5845	Southern Operating Area	CAMDEN	Camden - North 28th Street - Thompson Street to Cramer Street	$ 228,000	Replace	1069	8.00	Ductile Iron	1900	4	CI	Safety and Reliability/Structural	30	2024Q4
7648	Southern Operating Area	CAMDEN	Camden - Howell St, 21st St, 22nd St, 23rd St, 24th St, 25th St, 26th St, Saunders St	$ 1,200,000	Replace	6118	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	120	2024Q4
9749	Southern Operating Area	CAMDEN	Hayes Avenue, North 19th Street, and North 34th Street	$ 1,600,000	Replace	7000	12.00	Ductile Iron	1900	4	CI	System Flows and Pressure	120	2024Q4
8717	Southern Operating Area	CAMDEN	Camden - Mickle Street, Stevens Street, Benson St, Washington Street and Eutaw Avenue	$ 1,872,200	Replace	10931	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	120	2024Q4
11063	Southern Operating Area	CAMDEN	S 35th St - Federal St to Highland Ave	$ 240,000	Replace	1142	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2024Q4
9735	Southern Operating Area	CARNEYS POINT	Shell Road (VCP-412 to Hawks Bridge Road)	$ 1,500,000	Replace	6507	8.00	Ductile Iron	1960	8	CI	Relocation/Opportunity	120	2024Q4

2022 Foundational Filing
Table 3.5 - Southern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
10073	Southern Operating Area	CARNEYS POINT	Carney's Point- Bay Street from B Street to J Street	$ 400,000	Replace	1653	8.00	Ductile Iron	1900	4	CI	Safety and Reliability/Structural	60	2024Q4
10071	Southern Operating Area	CARNEYS POINT	Carney's Point- Miller Avenue	$ 150,000	Replace	708	8.00	Ductile Iron	1930	6	DI	Safety and Reliability/Structural	30	2023Q4
10072	Southern Operating Area	CARNEYS POINT	Carney's Point- G Street (Maple Avenue to Bay Street)	$ 400,000	Replace	1145	8.00	Ductile Iron	1910	6	CI	Safety and Reliability/Structural	60	2024Q4
10981	Southern Operating Area	CARNEYS POINT	Carneys Point- Springfield Avenue and Manor Avenue (hyd 273 to Golfwood)	$ 750,000	Replace	3013	8.00	Ductile Iron	1940	6	CI	Safety and Reliability	30	2025Q4
484	Southern Operating Area	CHERRY HILL	Cherry Hill - Lisa Lane - Huntington Drive to Kings Point Road	$ 142,500	Replace	764	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2024Q4
7676	Southern Operating Area	CHERRY HILL	South Brookfield Rd & Cedarbrook Road	$ 420,000	Replace	2203	8.00	Ductile Iron	1950	8	AC	Safety and Reliability/Structural	90	2025Q4
7677	Southern Operating Area	CHERRY HILL	North and South Woodstock Drive	$ 725,000	Replace	3806	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	90	2025Q4
8659	Southern Operating Area	CHERRY HILL	Cherry Hill - Kings High Way S (NJ-41) and Montana Avenue	$ 609,000	Replace	3135	12.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	90	2024Q4
8661	Southern Operating Area	CHERRY HILL	Cherry Hill - Iron Master Road, Fieldstone Road, Warfield Road, Nantucket Road, Pearlcroft Road, Barcroft Drive, Heritage Road, Gravel Bend, and Farmington Road	$ 2,082,400	Replace	10949	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	120	2025Q4
10202	Southern Operating Area	CHERRY HILL	Cherry Hill- Monmouth Drive, Belmont Drive and Suffolk Drive	$ 38,500	Replace	4063	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2024Q4
10223	Southern Operating Area	CHERRY HILL	Cherry HIll- Longfellow Dr, Hillside Drive, Kipling Road, Keats Place, Eaton Place and Walt Whitman Blvd	$ 750,000	Replace	6520	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	120	2023Q4
10219	Southern Operating Area	CHERRY HILL	Cherry Hill- Melody Lane and Saddle Lane	$ 300,000	Replace	1836	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2023Q4
8600	Southern Operating Area	CHERRY HILL	Cherry Hill - Sheffield Road, Elkins Road, King George Road, Kingston Road, Kingston Drive, Yorkshire Road, Bradford Road, and Ramble Road	$ 2,017,800	Replace	11203	8.00	Ductile Iron	1950	8	AC	System Flows and Pressure	30	2023Q4
8589	Southern Operating Area	CHERRY HILL	Cherry Hill - Pleasant Drive, Nature Drive, Astor Drive, Garwood Place, and Randy Lane	$ 1,284,400	Replace	6760	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	180	2024Q4
10218	Southern Operating Area	CHERRY HILL	Cherry Hill-Silver Hill Road and Lake Drive West	$ 300,000	Replace	1949	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2023Q4
8590	Southern Operating Area	CHERRY HILL	Cherry Hill - E Valleybrook Road, Laurelbrook Road, Sunnybrook Road, Willowbrook Road, Oakdale Road, and Greenwood Road	$ 1,045,000	Replace	5349	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	90	2024Q4
8603	Southern Operating Area	CHERRY HILL	Cherry Hill - Chapel Avenue E, Lee Ann Road, Hastings Road, Salsbury Road, Kingsley Road	$ 999,400	Replace	5385	8.00	Ductile Iron	1950	8	AC	Safety and Reliability/Structural	60	2023Q4
8878	Southern Operating Area	CHERRY HILL	Cherry Hill - Jefferson Avenue, Sheridan Avenue, Grant Avenue, Edison Avenue, Wesley Avenue, Cooper Avenue and Madison Avenue	$ 3,313,600	Replace	15435	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	120	2024Q4
10230	Southern Operating Area	CHERRY HILL	Cherry HIll- E Eagle Drive, Collins Drive and Mimosa Drive	$ 400,000	Replace	2288	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2024Q4
10209	Southern Operating Area	CHERRY HILL	Cherry Hill- Barclay Rd, Yardley Road, York Rd, Randle Ct., Tariton Ct. and Greenbriar Road	$ 1,000,000	Replace	7271	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	120	2023Q4
10221	Southern Operating Area	CHERRY HILL	Cherry HIll- Hillcroft Lane	$ 200,000	Replace	930	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	60	2023Q4
10226	Southern Operating Area	CHERRY HILL	Cherry Hill- Walt Whitman Blvd	$ 200,000	Replace	1726	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	2024Q4
10243	Southern Operating Area	CHERRY HILL	Cherry Hill- Route 70 Phase 1	$ 800,000	Replace	3629	12.00	Ductile Iron	1960	8	CI	Relocation/Opportunity	30	2024Q4
8657	Southern Operating Area	CHERRY HILL	Cherry Hill - Churchill Road, Stanford Road, Shepard Road, Bel Aire Avenue, Newell Avenue, and Park Circle	$ 1,299,600	Replace	6701	8.00	Ductile Iron	1930	6	AC	Safety and Reliability/Structural	30	2024Q4
5859	Southern Operating Area	CHERRY HILL	Cherry Hill - Bedford Avenue; Martin Avenue; Hollis Avenue; Graham Avenue; Sherwood Avenue - Mercer Street to Haddonfield Road	$ 259,350	Replace	1678	4.00	Ductile Iron	1960	2	CI	System Flows and Pressure	30	2024Q4
10227	Southern Operating Area	CHERRY HILL	Cherry Hill- Locust Grove Dr and Firethorne Rd	$ 300,000	Replace	1653	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	60	2024Q4
10936	Southern Operating Area	CHERRY HILL	Cherry Hill- Russet Drive , Dewberry Lane, Viking Lane , Gatewood Rd and Queen Anne Road	$ 1,150,000	Replace	4603	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	120	2023Q4
10937	Southern Operating Area	CHERRY HILL	Cherry Hill- Barby Lane	$ 370,000	Replace	1453	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	60	2024Q4
10938	Southern Operating Area	CHERRY HILL	Wagon Lane - Knollwood Dr to Tarry Ln	$ 290,000	Replace	1403	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2024Q4
10222	Southern Operating Area	CHERRY HILL	Cherry Hill- Deland Avenue, Daytona Avenue, Tampa Avenue and Queens Road	$ 500,000	Replace	3444	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	90	2023Q4
10244	Southern Operating Area	CHERRY HILL	Cherry Hill- Route 70 Phase 2	$ 1,000,000	Replace	15073	12.00	Ductile Iron	1960	16	CEM	Safety and Reliability/Structural	120	2024Q4
10245	Southern Operating Area	CHERRY HILL	Cherry HIll- Route 70 Phase 3	$ 1,000,000	Replace	15736	12.00	Ductile Iron	1990	8	DI	Safety and Reliability/Structural	120	2024Q4
10229	Southern Operating Area	CHERRY HILL	Cherry Hill- East and West Split Rock Avenue	$ 300,000	Replace	1603	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	2024Q4
10203	Southern Operating Area	CHERRY HILL	Cherry Hill- Hedy Avenue and LLoyd Avenue	$ 300,000	Replace	1255	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
10240	Southern Operating Area	CINNAMINSON	Cinnaminson- Lexington, Hartford Dr and Sheffield Dr, Concord Dr	$ 700,000	Replace	3045	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	90	2024Q4
10846	Southern Operating Area	CINNAMINSON	Pompeston Creek Bridge	$ 100,000	Replace	619	12.00	Ductile Iron	1960	12	CI	Relocation/Opportunity	60	2023Q4
10236	Southern Operating Area	CINNAMINSON	Cinnaminson- Oakwood, Villinger Avenue and Broadwood Avenue	$ 950,000	Replace	4144	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	120	2024Q4
10239	Southern Operating Area	CINNAMINSON	Cinnaminson- Sherwood Dr, Hamilton Drive, Cambridge Drive and Susan Drive	$ 720,000	Replace	3189	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2024Q4
11061	Southern Operating Area	CINNAMINSON	Kathleen Ave - Columbia Ave to Highland Ave	$ 180,000	Replace	883	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	40	2024Q4
8579	Southern Operating Area	DELRAN	Delran - 8th Street, South Chester Avenue, Greenwood Avenue, Norwich Avenue, Rancocas Avenue, Oak Street, Delaware Avenue and Greenwood Avenue	$ 2,310,400	Replace	8763	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	120	2022Q4

2022 Foundational Filing
Table 3.5 - Southern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
8827	Southern Operating Area	DELRAN	Delran - Meadowview Drive, Foxcroft Drive and Barberry Drive - Between Waterford Drive to Woodhaven Drive	$ 866,400	Replace	4579	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	120	2024Q4
8344	Southern Operating Area	EGG HARBOR TWP	Black Horse Pike between Palermo Avenue to Granada Avenue	$ 985,000	Replace	2496	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	90	2023Q4
8343	Southern Operating Area	EGG HARBOR TWP	Black Horse Pike between between Lyons Court and Palermo Avenue, Including Frankfort Ct, Toulon Ave, Genoa Ave & Palermo Ave	$ 1,215,500	Replace	3123	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	30	2023Q4
10178	Southern Operating Area	EGG HARBOR TWP	E. Plaza Place, Athens Avenue, Naples Avenue, Granada Avenue and Oxford Place	$ 620,000	Replace	2456	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	90	2023Q4
10928	Southern Operating Area	EGG HARBOR TWP	Black Horse Pike (W Plaza Place to Granada Ave)	$ 700,000	Replace	1881	8.00	Ductile Iron	1950	6	CI	Relocation/Opportunity	60	2023Q4
8345	Southern Operating Area	EGG HARBOR TWP	Black Horse Pike 16" Main from Brenta Ave to Atlantic City boarder	$ 1,902,250	Replace	5435	16.00	PVC	1960	16	DI	Safety and Reliability/Structural	120	2023Q4
10179	Southern Operating Area	EGG HARBOR TWP	Black Horse Pike between Granada Avenue and Atlantic City boarder - 6"CI Main	$ 1,835,425	Replace	5947	8.00	PVC	1960	6	CI	Safety and Reliability/Structural	120	2023Q4
10231	Southern Operating Area	GLOUCESTER TWP	Gloucester Twp- Main, Huntington Avenue, Woodland Avenue and Lake Ave	$ 400,000	Replace	5143	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	120	2024Q4
5958	Southern Operating Area	HADDON HEIGHTS	Haddon Heights - South Park Avenue - Bellmawr Avenue to Station Avenue	$ 281,200	Replace	1638	8.00	Ductile Iron	1900	4	CI	Sustained Economic Growth	60	2024Q4
7623	Southern Operating Area	HADDON HEIGHTS	Haddon Heights - Chestnut Ave, Maple Ave, Lake St, Bellmawr ave, Glenside Ave, Devon Ave, Glenview Ave	$ 1,500,000	Replace	5549	8.00	Ductile Iron	1950	6	AC	System Flows and Pressure	60	2024Q4
9823	Southern Operating Area	HADDON HEIGHTS	11th Avenue	$ 220,000	Replace	1110	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2023Q4
8937	Southern Operating Area	HADDON HEIGHTS	Haddon Heights - RRX at Green Street and E Atlantic Avenue	$ 200,000	Replace	100	6.00	Ductile Iron	1900	6	CI	Safety and Reliability/Structural	30	2022Q4
5933	Southern Operating Area	HADDON TWP	Haddon Township - Marlborough Avenue - Black Horse Pike to Nicholson Road	$ 541,500	Replace	2883	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	30	2024Q4
7102	Southern Operating Area	HADDONFIELD	Haddonfield - Haddon Avenue (CR-561) - Ellis Street (CR-651) to Marne Avenue	$ 1,450,000	Replace	3247	12.00	Ductile Iron	1790	8	CI	Safety and Reliability/Structural	90	2024Q4
8679	Southern Operating Area	HADDONFIELD	Haddonfield - Maple Avenue, Princeton Avenue, Ardmore Avenue, Marne Avenue, and Maple Court	$ 1,630,200	Replace	5203	8.00	Ductile Iron	1790	6	CI	Safety and Reliability/Structural	120	2024Q4
10195	Southern Operating Area	HADDONFIELD	Haddonfield- Longwood Drive, Longwood Circle, and Hillside Avenue	$ 400,000	Replace	2751	8.00	Ductile Iron	1790	6	CI	Safety and Reliability/Structural	90	2024Q4
10840	Southern Operating Area	HADDONFIELD	Haddonfield- Homestead Avenue (Hinchmen to Barberry)	$ 500,000	Replace	634	8.00	Ductile Iron	1790	6	CI	Relocation/Opportunity	30	2022Q4
10196	Southern Operating Area	HADDONFIELD	Haddonfield- E. Edgepark Drive, N. Edgepark Drive, S. Edgepark Drive and Wayside Lane	$ 450,000	Replace	3281	8.00	Ductile Iron	1790	6	CI	Safety and Reliability/Structural	90	2024Q4
8606	Southern Operating Area	HAINESPORT TWP	Hainesport Twp - Glenwood Rd, Shefield Rd, Rockland Ter, Nassau Rd, Estate Rd, Hemsing Dr, Oak Landing Rd, Hollybrook Ave, Hickory Ct, Bellauh Ave, Eastlick Ave - Between Route 38 to Main Street to End of Roadways	$ 3,211,000	Replace	14728	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
10949	Southern Operating Area	HAINESPORT TWP	Albert St - Washington St to Broad St	$ 170,000	Replace	795	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2024Q4
215	Southern Operating Area	LINWOOD	Shore Road between Patcong Ave and Greenwich Avenue	$ 892,500	Replace	2381	16.00	Ductile Iron	1960	6	CI	System Flows and Pressure	90	2023Q4
212	Southern Operating Area	LINWOOD	Shore Road Ph 9 - Between Ocean Heights Avenue & Garfield Avenue	$ 740,000	Replace	1961	16.00	Ductile Iron	1960	6	CI	System Flows and Pressure	30	2024Q4
5600	Southern Operating Area	LINWOOD	Iona Avenue from Shore Road to VLW-530, Myrtle Ave from Shore Rd to Arbor Dr and Woode-lynne Blvd	$ 480,000	Replace	1920	8.00	Ductile Iron	1950	6	AC	Relocation/Opportunity	60	2025Q4
214	Southern Operating Area	LINWOOD	Shore Road Ph VIII- Between Iona Avenue & E Patcong Avenue	$ 258,000	Replace	683	16.00	Ductile Iron	1960	6	AC	System Flows and Pressure	10	2023Q4
213	Southern Operating Area	LINWOOD	Shore Road (LW PH 6) - Between Garfield Avenue & Iona Avenue	$ 243,450	Replace	499	16.00	Ductile Iron	1960	6	AC	System Flows and Pressure	30	2023Q4
6550	Southern Operating Area	LINWOOD	Davis Avenue between Maple Avenue and Shore Road	$ 412,000	Replace	2056	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	20	2025Q4
6541	Southern Operating Area	LINWOOD	W. Seaview Avenue between Shore Road and Wabash Avenue	$ 108,750	Replace	435	8.00	Ductile Iron	1910	2	CI	Safety and Reliability/Structural	30	2023Q4
6549	Southern Operating Area	LINWOOD	Maple Avenue between US Rt 9 and Wilson Avenue	$ 152,000	Replace	790	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	120	2025Q4
6538	Southern Operating Area	LINWOOD	Garfield Ave between Shore Road and Wabash Avenue	$ 175,000	Replace	903	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	60	2024Q4
7574	Southern Operating Area	LINWOOD	Lincoln Ave. Steven Dr. State St. Dee Dr. Wood Dr.	$ 820,000	Replace	4100	8.00	Ductile Iron	1950	6	AC	System Flows and Pressure	120	2025Q4
8693	Southern Operating Area	LUMBERTON TWP	Lumberton - Eayrestown Road - Between Route 38 to Municipal Drive	$ 1,540,000	Replace	6810	12.00	Ductile Iron	1990	12	DI	System Flows and Pressure	30	2024Q4
10066	Southern Operating Area	MAGNOLIA	Magnolia- Washington Street (Cumberland Avenue to Gloucester Avenue)	$ 200,000	Replace	669	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2022Q4
10064	Southern Operating Area	MAGNOLIA	Magnolia- Arnold Place	$ 100,000	Replace	186	4.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2022Q4
10065	Southern Operating Area	MAGNOLIA	Magnolia- Cumberland Avenue (Monroe to Washington Avenue)	$ 200,000	Replace	634	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	120	2022Q4
10070	Southern Operating Area	MAGNOLIA	Magnolia- East Madison and King Street (White Horse Pike to Evesham Rd)	$ 260,000	Replace	1341	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2022Q4
10063	Southern Operating Area	MAGNOLIA	Magnolia- West Madison Avenue (Otter Branch to Charles Road) and West Harrison	$ 250,000	Replace	3380	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
6136	Southern Operating Area	MIDDLE TWP	Boyd Street between Stites Ave and Pacific Ave	$ 688,000	Replace	2285	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	105	2023Q4

2022 Foundational Filing
Table 3.5 - Southern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
6155	Southern Operating Area	MIDDLE TWP	Stites Avenue between Boyd St and Main St	$ 166,250	Replace	665	8.00	Ductile Iron	1950	6	AC	System Flows and Pressure	30	2023Q4
6132	Southern Operating Area	MIDDLE TWP	Atlantic Avenue between Boyd St and Route 9	$ 131,250	Replace	722	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2023Q4
6135	Southern Operating Area	MIDDLE TWP	Boyd Street between Romney Place and Mechanic St	$ 232,500	Replace	923	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2024Q4
8868	Southern Operating Area	MIDDLE TWP	Hand Avenue between Railroad and Boyd Street	$ 300,000	Replace	540	12.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2024Q4
5609	Southern Operating Area	MIDDLE TWP	Mechanic Street from the railroad tracks to North Boyd Street, Including railroad crossing	$ 648,000	Replace	904	12.00	Ductile Iron	1950	12	AC	System Flows and Pressure	90	2024Q4
6145	Southern Operating Area	MIDDLE TWP	Bennett Road (GSP and Hewitt Rd), Fitch Rd, Penkethman Way, Hewitt Rd, Bayberry Dr (Bennett and Steel)	$ 730,500	Replace	1888	8.00	Ductile Iron	1940	8	AC	Safety and Reliability/Structural	60	2025Q4
5840	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Green Street - Station to Hillside Rd via Green St, Mill St, and Buttonwood St	$ 860,000	Replace	4221	12.00	Ductile Iron	1840	12	CI	Safety and Reliability	120	2024Q4
5994	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Clover Street - Union Street to Garden Street	$ 171,000	Replace	819	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	5	2024Q3
10241	Southern Operating Area	MOUNT HOLLY TWP	Mt. Holly- Washington Street Bridge	$ 500,000	Replace	807	8.00	Ductile Iron	1920	8	CI	Safety and Reliability/Structural	250	2024Q4
8989	Southern Operating Area	MOUNT HOLLY TWP	Village Square Apartments (First Montgomery Drive)	$ 325,000	Replace	1624	8.00	Ductile Iron	1930	4	AC	System Flows and Pressure	60	2024Q4
9808	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Mill Street - Culvert Crossing	$ 300,000	Replace	749	12.00	Ductile Iron	1920	8	CI	Safety and Reliability/Structural	60	2022Q4
206	Southern Operating Area	NORTHFIELD	Tilton Road - Between Mill Road and Wabash Avenue (Tilton Moratorium ends 2013)	$ 223,250	Replace	853	16.00	Ductile Iron	1960	2	CI	System Flows and Pressure	2	2024Q4
207	Southern Operating Area	NORTHFIELD	Tilton Road - Between Wabash Avenue & Zion Road (Tilton Moratorium ends 2013)	$ 66,000	Replace	180	16.00	Ductile Iron	2000	6	DI	System Flows and Pressure	30	2024Q4
5597	Southern Operating Area	NORTHFIELD	Cove Avenue from Shore Road to end of Cove Avenue	$ 160,000	Replace	635	6.00	Ductile Iron	1930	2	PE	Relocation/Opportunity	45	2023Q4
6565	Southern Operating Area	NORTHFIELD	W. Yorkshire Avenue between Shore Road and Wabash Ave	$ 182,500	Replace	652	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
6917	Southern Operating Area	NORTHFIELD	Bonnie Lee Dr between County Club Dr and Heather Dr	$ 431,000	Replace	1724	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2025Q4
6574	Southern Operating Area	NORTHFIELD	Wabash Avenue between Tilton Road and Zion Road	$ 173,250	Replace	630	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2024Q4
6572	Southern Operating Area	NORTHFIELD	Willow Drive between Tilton Road and Zion Road	$ 230,450	Replace	838	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
6916	Southern Operating Area	NORTHFIELD	County Club Drive, Circle Dr & Heather Dr Main Replacements	$ 362,500	Replace	1800	8.00	Ductile Iron	1950	2	CI	System Flows and Pressure	60	2025Q4
6564	Southern Operating Area	NORTHFIELD	W. Glencove Avenue between US Rt 9 and Wabash Avenue	$ 313,000	Replace	1252	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2024Q4
6597	Southern Operating Area	NORTHFIELD	Northfield Ave between Zion Road and Tilton Road	$ 170,000	Replace	698	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2024Q4
8295	Southern Operating Area	NORTHFIELD	Hemsley Place between Shore Rd. & the Bay	$ 231,250	Replace	925	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	60	2024Q4
6101	Southern Operating Area	NORTHFIELD	Zion Road between New Road and Wabash Avenue	$ 810,875	Replace	2495	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2024Q4
6570	Southern Operating Area	NORTHFIELD	Chestnut Avenue between 2nd Ave and Maple Ave	$ 272,500	Replace	1091	8.00	Ductile Iron	1910	8	CI	Safety and Reliability/Structural	60	2024Q4
8285	Southern Operating Area	NORTHFIELD	Oak Avenue between Mill Road and Burroughs Ave	$ 900,000	Replace	3469	12.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	90	2024Q4
8291	Southern Operating Area	NORTHFIELD	2nd Avenue between Fairbanks Avenue & Davis Avenue	$ 407,500	Replace	1629	8.00	Ductile Iron	1990	8	DI	System Flows and Pressure	60	2024Q4
8293	Southern Operating Area	NORTHFIELD	1st Avenue between Fairbanks Avenue & Davis Avenue	$ 385,000	Replace	1539	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	90	2023Q4
8286	Southern Operating Area	NORTHFIELD	Roosevelt Avenue between RT. 9 & 1st Avenue.	$ 320,000	Replace	1281	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	60	2023Q4
6573	Southern Operating Area	NORTHFIELD	Locust Drive between Tilton Road and Zion Road	$ 265,000	Replace	1060	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2024Q4
6102	Southern Operating Area	NORTHFIELD	Northfield Avenue between Zion Road and Shore Road	$ 162,750	Replace	1051	8.00	Ductile Iron	1910	6	CI	Safety and Reliability/Structural	45	2024Q4
8296	Southern Operating Area	NORTHFIELD	Roosevelt Avenue between Broad Street & Shore Road	$ 184,250	Replace	657	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	45	2022Q4
8274	Southern Operating Area	NORTHFIELD	Herbert Drive (Oak to New Rd), Shepard Circle	$ 1,022,500	Replace	4090	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	120	2023Q4
5380	Southern Operating Area	OCEAN CITY	Surf Road from Atlantic to Wesley	$ 300,150	Replace	1323	12.00	PVC	1930	6	CI	Relocation/Opportunity	75	2024Q4
5398	Southern Operating Area	OCEAN CITY	25th Street from Haven Ave to Asbury Ave	$ 204,600	Replace	618	8.00	Ductile Iron	1910	6	AC	Safety and Reliability/Structural	30	2025Q4
203	Southern Operating Area	OCEAN CITY	Simpson Avenue - Between 1st Street & 2nd Street. 1st Street - Between Simpson Ave. - Bay Ave. 2nd Street - Between Simpson Ave. - Bay Ave.	$ 250,000	Replace	1134	8.00	PVC	1910	4	CI	System Flows and Pressure	30	2025Q4
219	Southern Operating Area	OCEAN CITY	Stenton Place - Between Corinthian Avenue & Beach	$ 45,000	Replace	236	8.00	PVC	1910	2	GALV	System Flows and Pressure	30	2024Q4
5546	Southern Operating Area	OCEAN CITY	Stenton Place from Corinthian Avenue to Boardwalk	$ 70,000	Replace	236	6.00	PVC	1910	2	GALV	Relocation/Opportunity	30	2024Q4
6264	Southern Operating Area	OCEAN CITY	Bay Ave replacement from 56th to 52nd	$ 417,250	Replace	1124	12.00	PVC	1970	12	AC	Safety and Reliability/Structural	30	2022Q4
6398	Southern Operating Area	OCEAN CITY	West Ave replacement from 7th to 3rd	$ 545,000	Replace	2179	8.00	PVC	1910	6	CI	Safety and Reliability/Structural	15	2024Q4
6447	Southern Operating Area	OCEAN CITY	16th St replacement from Bay to Simpson	$ 131,250	Replace	232	8.00	Ductile Iron	1950	12	AC	Safety and Reliability/Structural	90	2024Q4
6261	Southern Operating Area	OCEAN CITY	Dory Dr replacement from 55th to 52nd	$ 325,000	Replace	1391	8.00	PVC	1970	8	AC	Safety and Reliability/Structural	30	2025Q4
6256	Southern Operating Area	OCEAN CITY	Asbury Ave replacement from 51st to 48th	$ 870,000	Replace	2904	12.00	Ductile Iron	1950	2	GALV	Safety and Reliability/Structural	30	2025Q1
5388	Southern Operating Area	OCEAN CITY	14th Street Asbury to Ocean	$ 307,200	Replace	1024	8.00	Ductile Iron	1910	4	CI	System Flows and Pressure	30	2023Q4
6382	Southern Operating Area	OCEAN CITY	44th St replacement from West to Central	$ 148,750	Replace	527	8.00	PVC	1950	8	AC	Safety and Reliability/Structural	30	2023Q1
6375	Southern Operating Area	OCEAN CITY	10th St replacement from end to Palen	$ 20,000	Replace	59	8.00	PVC	1910	2	GALV	Safety and Reliability/Structural	30	2024Q4
6440	Southern Operating Area	OCEAN CITY	20th St replacement from Wesley to Central	$ 61,600	Replace	307	8.00	PVC	1980	6	CI	Safety and Reliability/Structural	60	2023Q4
6248	Southern Operating Area	OCEAN CITY	Central Ave replacement from 20th to 15th	$ 572,000	Replace	2786	8.00	PVC	1910	6	CI	Safety and Reliability	30	2024Q4

2022 Foundational Filing
Table 3.5 - Southern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
5652	Southern Operating Area	OCEAN CITY	51st Street between Central Avenue and Asbury Avenue	$ 72,500	Replace	281	8.00	Ductile Iron	1950	2	GALV	System Flows and Pressure	15	2022Q4
6448	Southern Operating Area	OCEAN CITY	18th St replacement from Asbury to Simpson	$ 324,800	Replace	911	12.00	Ductile Iron	1950	12	AC	Safety and Reliability/Structural	90	2024Q4
6381	Southern Operating Area	OCEAN CITY	25th St replacement from Wesley to Haven	$ 317,500	Replace	1263	8.00	PVC	1910	6	AC	Safety and Reliability/Structural	60	2024Q4
8615	Southern Operating Area	OCEAN CITY	Corinthian Avenue between Brighton Place & Stenton Place	$ 607,500	Replace	2428	12.00	PVC	1910	10	CI	System Flows and Pressure	90	2024Q4
8730	Southern Operating Area	OCEAN CITY	W 55th Street between Bay Avenue & End (Bay side)	$ 295,000	Replace	1181	12.00	PVC	1970	12	AC	System Flows and Pressure	60	2023Q4
8808	Southern Operating Area	OCEAN CITY	Central Avenue between 15th Street & 18th Street	$ 421,250	Replace	1683	8.00	PVC	1910	6	CI	System Flows and Pressure	90	2024Q4
8939	Southern Operating Area	OCEAN CITY	Wesley Rd. between Wesley Rd. & Battersea Rd.	$ 394,500	Replace	1578	12.00	PVC	1930	10	CI	System Flows and Pressure	60	2024Q4
8815	Southern Operating Area	OCEAN CITY	16th Street between Asbury Avenue & Wesley Avenue	$ 151,250	Replace	604	12.00	PVC	1910	12	CI	System Flows and Pressure	60	2024Q4
8646	Southern Operating Area	OCEAN CITY	Vernon Lane between Victoria Ln & Roosevelt Blvd.	$ 75,000	Replace	291	8.00	PVC	1950	8	AC	System Flows and Pressure	30	2024Q4
8732	Southern Operating Area	OCEAN CITY	West Avenue between 48th Street & 52nd Street, 50th & 52nd from West to Asbury	$ 910,000	Replace	2847	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	90	2025Q4
8647	Southern Operating Area	OCEAN CITY	Roosevelt Blvd. between Waterview Blvd. & Bay Ave.	$ 650,000	Replace	2601	8.00	PVC	1950	6	AC	System Flows and Pressure	90	2024Q4
8630	Southern Operating Area	OCEAN CITY	Atlantic Avenue between 6th St. & 9th St.	$ 420,000	Replace	1678	16.00	Ductile Iron	1910	16	CI	System Flows and Pressure	60	2024Q4
8802	Southern Operating Area	OCEAN CITY	West Avenue between 7th Street and 9th Street	$ 325,000	Replace	1074	8.00	PVC	1910	8	CI	Safety and Reliability/Structural	60	2024Q4
8523	Southern Operating Area	OCEAN CITY	E. Atlantic Blvd. between Gull Rd. & Ocean Rd.	$ 668,750	Replace	2277	16.00	Ductile Iron	1930	8	CI	System Flows and Pressure	60	2024Q4
6399	Southern Operating Area	OCEAN CITY	17th St replacement from beach to West Ave.	$ 311,250	Replace	1245	8.00	PVC	1910	6	CI	Safety and Reliability/Structural	60	2023Q4
8768	Southern Operating Area	OCEAN CITY	Beach Road to Gull Road between North Street and Ocean Road	$ 482,500	Replace	1341	8.00	PVC	1930	8	CI	Safety and Reliability/Structural	60	2022Q4
8804	Southern Operating Area	OCEAN CITY	Central Avenue between 6th Street and 9th Street	$ 425,500	Replace	1562	8.00	Ductile Iron	1910	4	CI	Safety and Reliability/Structural	60	2023Q4
6420	Southern Operating Area	OCEAN CITY	Asbury Ave replacement from 17th to 21st	$ 562,500	Replace	2247	8.00	PVC	1910	6	CI	Safety and Reliability/Structural	60	2024Q4
8640	Southern Operating Area	OCEAN CITY	Haven Avenue between 26th Street & 31st Street	$ 646,250	Replace	2585	8.00	Ductile Iron	1950	8	AC	System Flows and Pressure	120	2023Q4
8643	Southern Operating Area	OCEAN CITY	Victoria Lane between Waterview Blvd. & Vernon Ln.	$ 320,750	Replace	1284	8.00	PVC	1950	6	AC	System Flows and Pressure	120	2024Q4
8784	Southern Operating Area	OCEAN CITY	Genoa Court between Tennessee Avenue & Bonita Court	$ 145,000	Replace	547	12.00	PVC	2000	12	AC	System Flows and Pressure	60	2024Q4
6269	Southern Operating Area	OCEAN CITY	Waterway Rd replacement from Bayland to End (Bay)	$ 460,250	Replace	1841	8.00	PVC	1940	8	AC	Safety and Reliability/Structural	30	2022Q4
8771	Southern Operating Area	OCEAN CITY	Bayland Drive between Waterway Rd. north to end	$ 165,500	Replace	662	8.00	PVC	1940	8	AC	System Flows and Pressure	60	2022Q4
8838	Southern Operating Area	OCEAN CITY	13th Street bewteen Asbury Avenue & Boardwalk	$ 414,750	Replace	1106	8.00	PVC	1910	8	CI	System Flows and Pressure	60	2023Q4
8938	Southern Operating Area	OCEAN CITY	2nd Street between Atlantic Avenue & Boardwalk	$ 345,750	Replace	1383	8.00	PVC	1910	6	CI	System Flows and Pressure	60	2024Q4
8777	Southern Operating Area	OCEAN CITY	Lagoon Rd and Bay Road	$ 240,500	Replace	962	8.00	PVC	1910	8	CI	Safety and Reliability/Structural	90	2023Q4
8727	Southern Operating Area	OCEAN CITY	Asbury Avenue between 51st Street & 55th Street &	$ 765,000	Replace	2477	12.00	Ductile Iron	1950	12	CI	System Flows and Pressure	90	2024Q4
8522	Southern Operating Area	OCEAN CITY	Ocean Road between E. Seabright Rd. & Waverly Blvd.	$ 200,000	Replace	800	12.00	PVC	1930	10	CI	System Flows and Pressure	60	2024Q4
8807	Southern Operating Area	OCEAN CITY	8th Street between Asbury Avenue and Boardwalk	$ 681,600	Replace	1955	12.00	PVC	1910	10	CI	Safety and Reliability/Structural	60	2023Q4
8635	Southern Operating Area	OCEAN CITY	West Avenue between 22nd Street & 26th Street	$ 696,250	Replace	2384	8.00	PVC	1950	8	AC	System Flows and Pressure	90	2023Q4
8626	Southern Operating Area	OCEAN CITY	Central Avenue between 2nd Street & 5th Street.	$ 423,750	Replace	1694	8.00	PVC	1910	6	CI	System Flows and Pressure	60	2023Q4
8785	Southern Operating Area	OCEAN CITY	Bass Court & Marlin Court	$ 185,000	Replace	749	8.00	PVC	2000	6	AC	System Flows and Pressure	60	2024Q4
8792	Southern Operating Area	OCEAN CITY	Central Avenue between 18th Street & 20th Street	$ 282,750	Replace	1132	8.00	PVC	1910	6	CI	System Flows and Pressure	60	2024Q4
8521	Southern Operating Area	OCEAN CITY	E Atlantic Blvd. between Harbor Road & Seaspray Rd.	$ 582,300	Replace	1941	16.00	Ductile Iron	1930	12	CI	System Flows and Pressure	60	2024Q4
8536	Southern Operating Area	OCEAN CITY	53rd Street between Asbury Ave and the Beach	$ 42,500	Replace	281	8.00	PVC	1950	2	CI	System Flows and Pressure	30	2024Q4
8794	Southern Operating Area	OCEAN CITY	West Avenue between 17th Street & 22nd Street	$ 722,500	Replace	2889	8.00	PVC	1910	6	CI	System Flows and Pressure	90	2023Q4
10861	Southern Operating Area	OCEAN CITY	Simpson Ave (15th Street to 18th Street) & 18th St (Simpson to West)	$ 700,000	Replace	2573	8.00	Ductile Iron	1950	12	AC	Safety and Reliability/Structural	30	2024Q4
10862	Southern Operating Area	OCEAN CITY	Ocean Road from Battersea Road to E. Seabright Road	$ 593,750	Replace	2373	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2023Q1
8772	Southern Operating Area	OCEAN CITY	Morningside Rd, Gardens Rd and Nassau Rd	$ 548,250	Replace	2193	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	90	2022Q4
8813	Southern Operating Area	OCEAN CITY	16th Street between Haven Avenue & Asbury Avenue	$ 145,000	Replace	577	8.00	PVC	1910	8	CI	System Flows and Pressure	60	2024Q4
8616	Southern Operating Area	OCEAN CITY	St. Charles Place between Atlantic Avenue & Boardwalk	$ 343,750	Replace	1374	8.00	PVC	1910	6	CI	System Flows and Pressure	60	2024Q4
8631	Southern Operating Area	OCEAN CITY	7th Street between Atlantic Avenue & Boardwalk	$ 260,000	Replace	1037	8.00	PVC	1910	8	CI	System Flows and Pressure	30	2024Q4
8645	Southern Operating Area	OCEAN CITY	Waterview Blvd. between Bartram Ln. & Bayou Terrace	$ 28,750	Replace	112	8.00	PVC	1950	6	AC	System Flows and Pressure	90	2024Q4
8731	Southern Operating Area	OCEAN CITY	South Inlet Drive between W. 55th Street & Bay Avenue	$ 250,000	Replace	984	8.00	PVC	1970	8	AC	Safety and Reliability/Structural	60	2023Q4
6245	Southern Operating Area	OCEAN CITY	Anchorage Dr replacement from 55th to 52nd	$ 510,000	Replace	1582	8.00	PVC	1970	8	AC	Safety and Reliability	60	2025Q4

2022 Foundational Filing
Table 3.5 - Southern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
6252	Southern Operating Area	OCEAN CITY	Bay Ave replacement from 31st to 26th	$ 1,002,050	Replace	2863	12.00	Ductile Iron	1940	12	AC	Safety and Reliability/Structural	90	2025Q4
8741	Southern Operating Area	OCEAN CITY	Westminster Lane between Roosevelt Avenue & Bartram Lane	$ 120,000	Replace	480	8.00	PVC	1950	6	AC	System Flows and Pressure	30	2024Q4
10932	Southern Operating Area	OCEAN CITY	Simpson Ave from 15th Street to 18th Street	$ 545,000	Replace	1673	8.00	Ductile Iron	1950	12	AC	Safety and Reliability/Structural	60	2024Q4
8818	Southern Operating Area	OCEAN CITY	Chelsea Place	$ 87,500	Replace	348	8.00	PVC	1910	6	CI	System Flows and Pressure	30	2024Q4
8617	Southern Operating Area	OCEAN CITY	Pennlyn Place between Corinthian Avenue to Boardwalk	$ 750,000	Replace	301	8.00	PVC	1910	6	CI	System Flows and Pressure	30	2024Q4
8817	Southern Operating Area	OCEAN CITY	16th Street between Wesley Avenue to Boardwalk	$ 95,000	Replace	380	8.00	PVC	1910	6	CI	System Flows and Pressure	30	2024Q4
11062	Southern Operating Area	OCEAN CITY	3rd Street from Wesley Avenue to Atlantic Avenue	$ 190,000	Replace	679	12.00	Ductile Iron	1910	8	CI	Safety and Reliability/Structural	60	2025Q1
534	Southern Operating Area	PENNS GROVE	Penns Grove - Railroad Avenue and Mill Street - Naylor Avenue to Dead End to HPG-56	$ 492,600	Replace	1189	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2024Q4
5353	Southern Operating Area	PENNS GROVE	Penns Grove - West Harmony Avenue - Delaware Avenue to North Broad Street	$ 475,000	Replace	2116	12.00	Ductile Iron	1900	4	CI	System Flows and Pressure	60	2024Q4
6029	Southern Operating Area	PENNS GROVE	Penns Grove - East Main Street - Virginia Avenue to South Broad Street	$ 340,100	Replace	1928	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	21	2024Q4
388	Southern Operating Area	PENNS GROVE	Penns Grove - Mary Street and John Street - South Broad Street to Main Street	$ 228,000	Replace	747	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2024Q4
6033	Southern Operating Area	PENNS GROVE	Penns Grove - Railroad Avenue - Naylor Avenue to Airy Avenue	$ 171,000	Replace	895	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2024Q4
6018	Southern Operating Area	PENNS GROVE	Penns Grove - South Broad Street - East Main Street to Dead End	$ 750,500	Replace	4195	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	20	2024Q4
6025	Southern Operating Area	PENNS GROVE	Penns Grove - Wright Street and Poplar Street - Lanning Avenue to Dead End	$ 197,600	Replace	1027	8.00	Ductile Iron	1960	2	CI	System Flows and Pressure	60	2024Q4
10198	Southern Operating Area	PENNS GROVE	Penns Grove- 6th Avenue (Leap Drive and N. Broad Street)	$ 200,000	Replace	1007	8.00	Ductile Iron	1910	2	CI	Safety and Reliability/Structural	60	2024Q4
7649	Southern Operating Area	PENNSAUKEN	Pennsauken - Forrest Avenue, Sharon Terrace, Pitman Avenue	$ 315,000	Replace	1611	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	30	2024Q4
5990	Southern Operating Area	PLEASANTVILLE	4th Street between Washington Avenue and West Jersey Avenue	$ 165,000	Replace	459	8.00	Ductile Iron	1990	6	CI	System Flows and Pressure	30	2024Q4
5987	Southern Operating Area	PLEASANTVILLE	N. 4th Street between W. Adams Ave and Pleasant Ave	$ 121,600	Replace	919	8.00	Ductile Iron	1930	2	GALV	System Flows and Pressure	60	2024Q4
6411	Southern Operating Area	PLEASANTVILLE	Neumark Avenue between W. Leeds Ave and New Road	$ 164,700	Replace	869	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2023Q4
5649	Southern Operating Area	PLEASANTVILLE	Washinton Avenue between Main Street and Franklin Boulevard	$ 170,000	Replace	831	12.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	30	2025Q4
5991	Southern Operating Area	PLEASANTVILLE	3rd Street between Martin Luther King Jr Ave and West Jersey Ave	$ 281,500	Replace	1126	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	15	2024Q4
6421	Southern Operating Area	PLEASANTVILLE	Loraine Avenue between Main Street to E. end of road, Franklin Blvd from Walnut Ave to Expressway	$ 550,250	Replace	2280	8.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	30	2023Q4
6401	Southern Operating Area	PLEASANTVILLE	E. Princeton Ave & E Lindley Ave between Main St and Iowa Ave	$ 531,250	Replace	2525	8.00	Ductile Iron	1940	2	GALV	Safety and Reliability/Structural	90	2025Q4
6405	Southern Operating Area	PLEASANTVILLE	Magnolia Place between Main Street and McConnell Drive	$ 149,600	Replace	580	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	30	2025Q4
6413	Southern Operating Area	PLEASANTVILLE	Linden Avenue between W. Delilah Road and W. Thompson Avenue	$ 162,800	Replace	630	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	20	2025Q4
6406	Southern Operating Area	PLEASANTVILLE	Laurel Drive between Magnolia Place and McConnell Drive	$ 117,000	Replace	625	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	45	2025Q4
5648	Southern Operating Area	PLEASANTVILLE	Washington Avenue between New Road and Main Street	$ 572,000	Replace	2082	12.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	45	2024Q4
5989	Southern Operating Area	PLEASANTVILLE	N. 4th Street between Washington Ave and Martin Luther King Jr Ave	$ 50,000	Replace	1032	8.00	Ductile Iron	1990	4	CI	Safety and Reliability/Structural	20	2025Q4
6450	Southern Operating Area	PLEASANTVILLE	Chatham Avenue between Main Street and Clearview Avenue, Franklin Blvd between Stenton Place to E. Reading Ave	$ 475,000	Replace	1900	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2024Q4
6604	Southern Operating Area	PLEASANTVILLE	E. Delilah Road between Main Street and Franklin Blvd	$ 112,000	Replace	713	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	60	2025Q4
6423	Southern Operating Area	PLEASANTVILLE	Mulberry Ave between Linden Avenue and Franklin Blvd	$ 300,000	Replace	1202	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2023Q4
6407	Southern Operating Area	PLEASANTVILLE	W. Leeds Ave between New Road and Main Street	$ 850,500	Replace	3012	12.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	12	2024Q4
8481	Southern Operating Area	PLEASANTVILLE	McKinley Avenue between Shadeland Avenue and Ashland Avenue, Including Fernwood east of McKinley	$ 445,000	Replace	1778	8.00	Ductile Iron	2000	4	DI	Safety and Reliability/Structural	60	2024Q4
8459	Southern Operating Area	PLEASANTVILLE	Woodland Avenue Between Well #3A & Rt. 9	$ 323,750	Replace	1295	16.00	Ductile Iron	1940	12	CI	System Flows and Pressure	60	2024Q4
8457	Southern Operating Area	PLEASANTVILLE	Wesley Avenue between Rt9. & end (Somerset Ave.)	$ 628,750	Replace	2512	8.00	Ductile Iron	1990	6	CI	System Flows and Pressure	90	2024Q4
8473	Southern Operating Area	PLEASANTVILLE	Black Horse Pike between Franklin Blvd and Lyons Ct & Includes Franklin, Chester, Hampden and Lyons	$ 200,000	Replace	511	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	2023Q4
5986	Southern Operating Area	PLEASANTVILLE	N. 3rd Street between W. Adams Ave and Hendricks St	$ 68,000	Replace	414	8.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2025Q4
6404	Southern Operating Area	PLEASANTVILLE	McConnell Drive between E. Leeds Ave and Cedarcrest Ave	$ 285,000	Replace	1100	8.00	Ductile Iron	2000	6	AC	Safety and Reliability/Structural	60	2025Q4

2022 Foundational Filing
Table 3.5 - Southern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
6452	Southern Operating Area	PLEASANTVILLE	Walnut Avenue between Main Street and Franklin Blvd, Walnut Ave from Skyline Condo entrance to Clearview Ave	$ 275,000	Replace	1100	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	60	2024Q4
6402	Southern Operating Area	PLEASANTVILLE	E. Leeds Avenue between Main Street and Franklin Blvd	$ 285,000	Replace	377	12.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	90	2025Q4
8460	Southern Operating Area	PLEASANTVILLE	Spruce Avenue between Belmont Avenue & Glenwood Avenue, Glenwood and Woodland to Cambria Ave	$ 980,000	Replace	3614	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	90	2024Q4
8930	Southern Operating Area	RIVERSIDE	Polk Street, Madison Street, Jefferson Street, Monroe Street, Fairview Street	$ 750,000	Replace	3883	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	90	2024Q4
10235	Southern Operating Area	SOMERDALE	Somerdale- San Deigo and Fresno Drive	$ 450,000	Replace	2022	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
10234	Southern Operating Area	SOMERDALE	Somerdale- Surrey Road	$ 250,000	Replace	836	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2024Q4
10950	Southern Operating Area	SOMERDALE	Somerdale- Amhurst Ave and Columbia Ave	$ 500,000	Replace	1907	8.00	Ductile Iron	1950	6	AC	Safety and Reliability	60	2025Q4
10232	Southern Operating Area	SOMERDALE	Somerdale- Downing Road (Hollyoke Rd to Downing Circle) and Hollyoke Rd (Downing Rd to Prospect Lane)	$ 550,000	Replace	2415	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2024Q4
205	Southern Operating Area	SOMERS POINT	Shore Road Ph 10 - Between Groveland Avenue & Ocean Heights Avenue	$ 1,300,000	Replace	3264	16.00	Ductile Iron	1910	6	CI	System Flows and Pressure	5	2025Q4
6231	Southern Operating Area	SOMERS POINT	10th from Laurel to New York and Dobbs Ave from 10th Street to Well.	$ 487,500	Replace	1001	8.00	Ductile Iron	1950	8	AC	Safety and Reliability/Structural	25	2024Q4
6519	Southern Operating Area	SOMERS POINT	E. Laurel Dr between Braddock Dr to US Route 9	$ 449,900	Replace	1325	12.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2023Q4
6464	Southern Operating Area	SOMERS POINT	Marks Road between Rhode Island Ave (SP Tank) and Maryland Ave	$ 588,350	Replace	1681	16.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	2024Q4
8406	Southern Operating Area	SOMERS POINT	Cliveden Avenue between Mays Landing Rd and Harlan Ave, Harland Ave from Woodlawn Ave to Horter Ave, Horter Ave (Harland to end)	$ 224,664	Replace	1190	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	90	2022Q4
10712	Southern Operating Area	SOMERS POINT	Paul Clark Drive	$ 450,000	Replace	945	8.00	PVC	1990	8	DI	Safety and Reliability/Structural	60	2023Q4
8413	Southern Operating Area	SOMERS POINT	New York Road between Route 9 and 3rd Street, 4th and 7th Street both from New York to Connecticut and south on 5th Street from New York	$ 682,500	Replace	2842	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	90	2023Q4
8418	Southern Operating Area	SOMERS POINT	New York Road from Shore Road toward Bay Ave	$ 205,500	Replace	620	8.00	Ductile Iron	1990	6	DI	Safety and Reliability	60	2024Q4
8410	Southern Operating Area	SOMERS POINT	Braddock Drive from Mac Arthur Blvd and Holly Hills Drive, Including Braddock Avenue and Woodland Avenue	$ 587,500	Replace	2348	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	90	2022Q4
8356	Southern Operating Area	STRATFORD	Stratford - West Laurel Road (CR-673), Warwick Road (CR-669) and Elinor Avenue	$ 1,307,200	Replace	6800	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	120	2024Q4
8530	Southern Operating Area	STRATFORD	Stratford - E Vassar Avenue, Cornell Avenue, Union Avenue and Yale Avenue	$ 1,459,200	Replace	8113	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	120	2024Q4
8353	Southern Operating Area	STRATFORD	Stratford - Longwood Drive, Evergreen Road and Meadowlark Road - Warwick Road (CR-669) to Homestead Road and Longwood Drive to Winding Way Road	$ 1,059,440	Replace	5563	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	120	2024Q4
10930	Southern Operating Area	VOORHEES	Voorhees- Lenox Avenue, Warren Avenue and Camden Avenue	$ 693,225	Replace	3081	8.00	Ductile Iron	1950	8	CI	Relocation/Opportunity	90	2023Q2
10946	Southern Operating Area	VOORHEES	Voorhees- Round Hill Road	$ 500,000	Replace	1835	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	180	2024Q4
10947	Southern Operating Area	VOORHEES	Voorhees- Essex Ave, Hudson Avenue, Ford Ave and Mercer Ave and Middlesex Avenue	$ 1,275,000	Replace	5107	6.00	Ductile Iron	1960	8	CI	Safety and Reliability	10	2025Q4
10948	Southern Operating Area	VOORHEES	Voorhees- Burlington Ave and Camden Avenue	$ 875,000	Replace	3462	8.00	Ductile Iron	1950	6	AC	Safety and Reliability	90	2024Q4
			Total	$ 141,374,079										

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SECTION 4. NORTH OPERATING AREA

4.1 OVERVIEW

New Jersey American Water's North Operating Area is responsible for the management of 10 Public Community Water Systems in Warren, Morris, Passaic, Essex, Union and Somerset Counties. These systems are listed in Table 4.1.1 and shown in Exhibit 4.1, attached.

Table 4.1.1 - North Operating Area Water Systems' Characteristics (2021)

PWSID	System Name	Service Connections	Estimated Population Served	Avg Day Demand (MGD)	Peak Month Demand (MGD)
NJ0712001	Passaic Basin (Short Hills)	81,270	217,000	34.558	41.271
NJ1605001	Little Falls	4,530	11,200	1.778	2.117
NJ2121001	Washington	4,154	10,700	1.270	1.381
NJ1436002	Roxbury	3,905	11,800	0.951	1.171
NJ2103001	Belvidere	1,194	2,850	0.349	0.390
NJ1407001	Four Seasons	120	250	0.035	0.062
NJ1427009	West Jersey	215	576	0.096	0.108
NJ1803002	Twin Lakes	47	126	0.009	0.011
NJ1427017	International Trade Center (ITC)	298	920	0.213	0.260

The sources of supply for this region include the Canoe Brook Water Treatment Plant, water system interconnections and numerous well stations in Warren, Morris, Passaic, Essex, Union and Somerset Counties. The North Operating Area's corrosion control strategy includes pH control and the addition of phosphates and corrosion inhibitors at the surface water treatment plants and groundwater well stations. Phosphates are used to inhibit the internal corrosion of water mains, to sequester iron, manganese, calcium, and magnesium, and to improve the quality of water in the distribution system by preventing scale deposits and tuberculation. Zinc orthophosphate, added at the Canoe Brook surface water treatment plant, inhibits corrosion as it reacts with dissolved minerals in the water to form a thin coating or film on the inner surface of the pipe that is exposed to the treated water. Blended poly phosphates are added at most well facilities in order to sequester soluble metals found in the groundwater, and also provide corrosion control. The two forms of phosphate additions (zinc orthophosphate and blended poly phosphates) work together to reduce discoloration and scaling issues in the groundwater.

The non-revenue water rate for the North Operating Area (Essex Passaic) averaged 20.1% in 2021. This rate, while above the NJDEP guideline, is typical of a large surface water system with significant elevation changes, and numerous pressure zones and rock soil types. Routine maintenance, flushing, leak detection, valve exercising, and meter replacement occur on an ongoing basis, and assist in controlling non-revenue water rates. Accelerated investment in this system targets the types of mains and services that are likely contributors for leaks.

The North Operating Area provides water service to customers by conveying treated water from various sources of supply through approximately 1,400 miles of mains. Water mains were manufactured and installed over many decades, resulting in numerous materials, pipe sizes and joint types. The type of water main installed was based on the predominant pipe material available at the time. Table 4.1.2, below, provides a summary of the materials and diameter of the assets that continue to provide service.

Table 4.1.2 - North Operating Area Summary of Mains by Material Type

North Operating Area All PWSID's Miles of Main by Diameter					
Row Labels	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	1.1	59.0		0.5	60.5
Cast Iron Lined	4.8	354.2	10.4	1.7	371.1
Cast Iron Unlined	45.6	348.2	8.5	5.8	408.2
Ductile Iron	2.3	469.0	52.1	46.3	569.7
Metal	1.8	1.3	0.2		3.2
Plastic	0.3	6.4		1.7	8.4
PCCP		0.3	8.0	5.9	14.2
Total	55.9	1238.4	79.1	61.8	1435.2

Note: Table does not sum due to rounding.

4.2 DISTRIBUTION SYSTEM ASSET PERFORMANCE

The following section presents asset management data and conclusions regarding the need for accelerated investment. The performance of mains and their relative deterioration rates can be monitored by the break frequency and characteristics. Table 4.2.1 shows the break frequency in tabular form. Figures 4.2.a and 4.2.b illustrate the number of repairs by material and type of break in the North Operating Area during 2021.

The useful life of mains, valves, hydrants and service connections vary based on materials, environment, internal and external corrosion rate, internal and external forces, ground freezing and thawing cycles, groundwater levels, soil conditions and many other factors. As the water system ages there is a need to renew infrastructure to ensure safety and reliability, improve system flows and water pressure, protect water

quality, promote conservation and reduce non-revenue water. The performance of mains and deterioration rates can be determined by monitoring the break frequency.

Table 4.2.1 lists the miles of main by material, the breaks by material and the calculated break rate (breaks / mile / yr) for 2021. This table illustrates that the highest break rate frequencies in the North systems occur in the category of "other" metallic mains (galvanized, stove pipe and similar materials), followed by cast iron and plastic pipes.

Table 4.2.1 - Summary of Break Rate by Material for the North Operating Area (2021)

North District Total							
	Asbestos Cement	Cast Iron	Ductile Iron	Other Metallic	PCCP	Plastic	Total
Miles of Main	61	779	570	3	14	8	1435
Main Failures	9	258	33	6			306
Failures per Mile	0.15	0.33	0.06	1.85	0.00	0.00	0.21

Figure 4.2.a - Summary of Main Breaks by Type in North (2021)

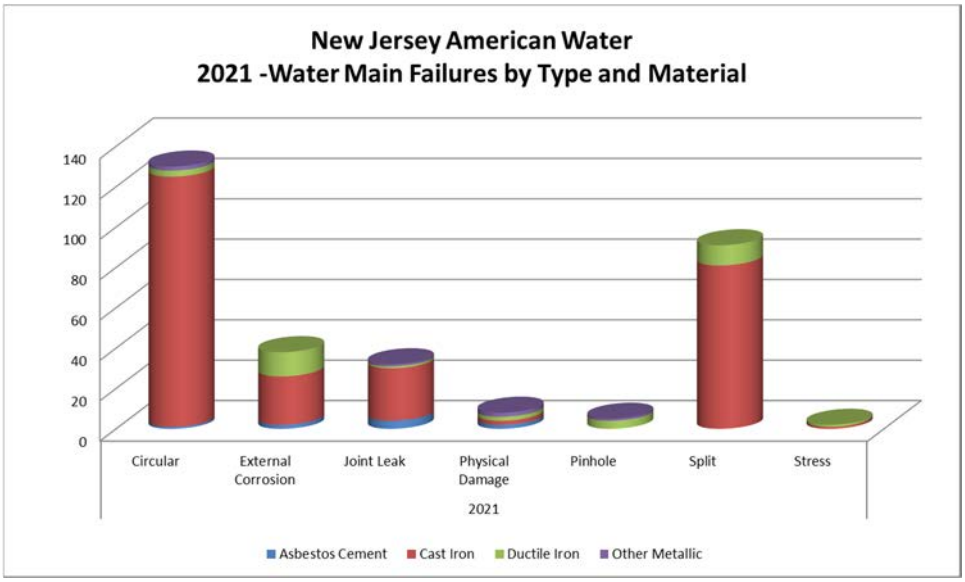


Table 4.2.1 shows that the majority of water main failures in the North Operating Area are associated with cast iron water mains. Most cast iron pipes fail because of a combination of factors that include external loading, internal pressure, thermal stress, age of material, manufacturing deficiencies and corrosion damage. Figure 4.2.a shows that failures in the North Operating Area are most often attributable to circular or circumferential cracking, where the pipe splits in a circle across its diameter. Circular failures generally result from the settlement of the pipe due to erosion of the pipe bedding. Prior to the pipe bed settling, there is usually a pinhole or joint leak which causes the soil erosion in the area. Circular breaks are also

noted in increased frequency when there is change in water temperature and attributed to thermal stress within the pipe. It should be noted that the split-type failure is the second largest type of failure, and quite significant in the North Operating Area. Split breaks are caused by longitudinal stresses resulting from higher operating pressure and metal fatigue, typical of the North Operating Area.

Figure 4.2.b - Summary of Main Failures by Diameter – North (2021)

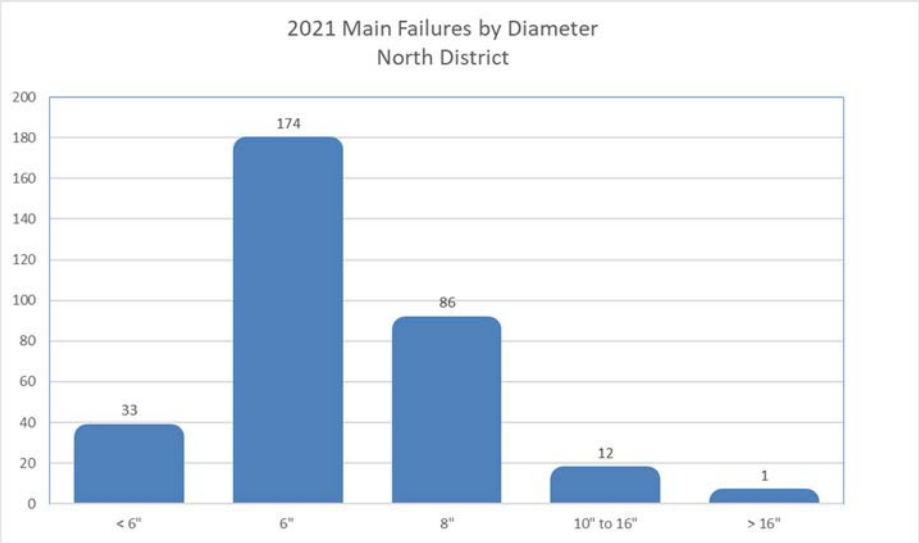


Figure 4.2.b illustrates pipe failures by diameter for the North Operating Area. The majority of main failures occur in pipes with diameters of six and eight inches.

When viewed together, Table 4.2.1 and Figures 4.2.a and 4.2.b illustrate that highest break rate frequency in the North Operating Area systems occurs on cast iron, and other metallic pipes. The cast iron mains installed in the first half the century are the largest subset of NJAWC water mains that are seeing increased failure rates. These mains are targeted for accelerated rehabilitation and replacement in the DSIC program.

4.3 SYSTEM-SPECIFIC ISSUES

The North Operating Area has grown over many decades, using the materials, design standards and construction practices available at the time. The system extends over the second and third Watchung Mountain ranges, creating challenges in topography and pressure zone management. The topography requires treated water to be pumped over these high elevations to serve the communities in the valley between the mountain ranges. The change in topography results in system pressures exceeding 100 psi in large areas of the network.

The key drivers for accelerated renewal are:

1) Unlined cast iron mains with significant tuberculation that can result in discolored water and reduce flows and pressure;
2) High break rates on older cast iron and other metallic mains which have become obsolete;
3) Non-revenue water rate for this system exceeds NJDEP guidelines; additional investment in renewing pipe and service connections is needed to reduce sources of leakage; and
4) Old and obsolete valves need to be replaced to allow for adequate response time during emergencies.

Approximately 28% of the water mains within the system are cast iron (CI). Significant improvements have been made in reducing the CI percentage which was in excess of 60% prior to DSIC program. In addition to the breakage rates discussed previously, many of these cast iron mains are unlined and have a tuberculated (incrustation) buildup of minerals and corrosion products. These mains are a source of discolored water complaints. A non-structural and semi-structural cleaning and lining program exists in this service area, and will continue to be accelerated within the DSIC program for candidate mains that are found to be structurally sound mains.

Cleaning and lining projects are most suitable when the mains are in a grid and activity can be coordinated in neighborhoods or sections. Bernards Twp, Berkeley Heights, Chatham Twp, Chester, Maplewood, Mendham, Millburn, West Orange and Woodland Park are some of the towns identified within this Operating Area as having opportunities for cleaning and lining. Therefore, several cleaning and lining projects within these towns have been identified in this Foundational Filing.

A specific operating constraint for the Passaic Basin system is the profile of water pressures within a pressure gradient, depending on the elevation. Locations within a valley experience higher pressures. While analysis has been performed to reduce these pressures, reconfiguring the pressure gradients would require miles of piping and re-pumping. Because leaks that develop in these areas could be significant contributors to the non-revenue water rate, NJAWC has implemented an aggressive evaluation of these areas via expanded pressure zone metering, coupled with ongoing leak monitoring.

A high frequency of breaks and hydraulic restrictions are occurring in Berkley Heights, Bernards, Little Falls, Millburn, New Providence and West Orange within the Passaic Basin System. There is no one single issue plaguing these areas; each area is comprised of older cast iron, small diameter mains installed in the 1920s, along with galvanized steel and asbestos cement pipe constructed in the 1940s. These obsolete mains are a major issue of concern that need to be addressed as they result in a reduced level of service to these communities.

The communities of Belvidere and Washington Borough also have old, undersized mains that cause service problems with water quality, main breaks, and flow, with a history of breaks and hydraulic restrictions. The projects identified in this Foundational Filing for these areas are proposed to specifically address these issues, and to help increase the reliability, water quality, and improved flow for customers.

A list of DSIC-eligible projects to be completed between 2022 and 2025 is shown in Table 4.5 attached hereto. Most of the projects consist of replacing water mains that were put in service in the early to mid-1900's in the various water systems in the North Operating Area. The renewal projects identified in this Foundational Filing for the North Operating Area total approximately 75 miles.

4.4 INDIVIDUAL SYSTEM DESCRIPTIONS

A. PASSAIC BASIN WATER SYSTEM (PWSID NJ0712001)

System Description

The Passaic Basin System is a public water system that supplies finished water to 25 municipalities in Essex, Union, Morris, and Somerset counties. Finished water delivered to customers is derived from several sources, including treated surface water, treated ground water, inter-company transfers, and purchased water.

Source of Supply & Production

Approximately 20% of the Passaic Basin System water delivered to customers is produced at the Canoe Brook surface water treatment plant. Raw water supply for the Canoe Brook surface water treatment plant is derived from the Passaic River and Canoe Brook, and held in three interconnected storage reservoirs located in Millburn and Livingston.

In addition to the surface water supplies, NJAWC also diverts ground water from various Piedmont and Highlands aquifers. Approximately 25% of the Passaic Basin System finished water delivered to customers is produced from ground water sources. Currently, there are 24 active wells treated at ten stations located throughout the franchise area of the system within Essex, Union, Morris, and Somerset Counties.

NJAWC's Raritan System supplies approximately 30% of the water to the Passaic Basin System through four active interconnections.

Water supply is also provided by three bulk water suppliers: the Passaic Valley Water Commission (PVWC) and to a much lesser exrent, Morris County MUA (MCMUA), and the Montclair Water Bureau.

The Passaic Basin System provides bulk water supplies to other public community water systems in the region through bulk water sales agreements. The system currently serves three bulk water sales customers; Livingston Township, South Orange Township, and East Hanover Township.

Distribution & Storage

The Passaic Basin System has an extensive piping network that includes approximately 1,200 miles of water mains. The entire system is operated with 23 pressure gradients. Distribution storage is provided by 20 water storage tanks. Tables 4.4.A.1 and 4.4.A.2, below, detail the water main inventory.

Table 4.4.A.1 - Passaic Basin System Water Mains

Passaic Basin (Short Hills) NJ0712001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	0.3	13.4		0.5	14.2
Cast Iron Lined	3.6	325.9	9.4	1.7	340.7
Cast Iron Unlined	39.3	320.2	8.4	5.8	373.7
Ductile Iron	1.6	344.5	36.3	46.3	428.6
Metal	1.3	1.2	0.2		2.7
Plastic	0.3	5.5		1.7	7.5
PCCP		0.1	6.3	5.9	12.2
Total	46.4	1010.8	60.6	61.8	1179.6

Note: Due to rounding, not all the totals will sum.

Table 4.4.A.2 - Passaic Basin System Asset Summary Table

Passaic System PWSID NJ0712001	
Miles of Main	1,180
Hydrants	7,133
Valves	23,949
Service Connections	81,995

B. BELVIDERE WATER SYSTEM (PWSID NJ2103001)

System Description

The Belvidere System is a public water system providing water primarily to residential service to the Town of Belvidere and portions of White Township in Warren County.

Source of Supply & Production:

The Belvidere System obtains its water supply from two groundwater wells drilled into the Kittatinny aquifer with a combined capacity of 1.8 MGD.

Distribution & Storage

The distribution system has two pressure zones and approximately 21 miles of water mains ranging in size from 4-inch to 16-inch.

There is one 0.75 MG ground storage reservoir, the Belvidere Reservoir, in the system. The two water supply wells feed into the High Service zone. The Main Service zone is fed through a pressure reducing valve (PRV) from the High Service. Tables 4.4.B.1 and 4.4.B.2, below, list the pipe and buried asset inventory for this system.

Table 4.4.B.1 - Belvidere System Water Mains

Belvidere NJ2103001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Cast Iron Unlined	2.2	0.0	5.3		7.5
Ductile Iron	0.0	0.5	12.7	0.0	13.2
Metal	0.1				0.1
Plastic			0.3		0.3
Total	2.3	0.5	18.3	0.0	21.1

Note: Due to rounding, not all the totals will sum.

Table 4.4.B.2 - Belvidere System Asset Summary Table

Belvidere System PWSID NJ2103001	
Miles of Main	21
Hydrants	83
Valves	510
Service Connections	1,333

C. INTERNATIONAL TRADE CENTER (ITC) SYSTEM (PWSID NJ1427017)

System Description

The ITC System is a public water system providing water service to the commercial and light industrial customers located around the junction of Routes 80, 46 and 206 in Mount Olive Township, Morris County. The Country Oaks at Mt. Olive Township was merged into the ITC water system providing water to a primarily residential section of Mt. Olive Township located in Morris County.

Source of Supply & Production

The raw water supply for the ITC system is provided by five ground water wells in the Leithsville Formation with a combined firm capacity of 1.152 MGD.

Distribution & Storage

The ITC distribution system consists of separate potable water and fire protection systems. The potable water system has three gradients. There are three water storage tanks in the ITC potable water system: one storage tank in each gradient. The fire protection system consists of a ground storage tank (fed from the potable water system), a fire pump station located next to the ground storage tank, and looped fire protection mains that serve several of the buildings in the ITC business park.

The three ITC wells discharge into the ITC North gradient while two wells discharge into the Country Oaks gradient. A booster station on International Drive pumps water from the ITC North gradient to the ITC South gradient. A PRV located on Gold Mine Road connects the ITC South gradient with the Cuountry Oaks gradient. The system contains approximately 15 miles of water mains ranging in size from 6-inch to 16-inch as shown in Tables 4.4.C.1 and 4.4.C.2, below.

Table 4.4.C.1 - ITC System Water Mains

International Trade Center (ITC) NJ1427017 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Cast Iron Unlined	0.0	0.1	0.0		0.1
Ductile Iron	0.1	9.3	5.2		14.6
Total	0.1	9.4	5.2		14.7

Table 4.4.C.2 - ITC System Asset Summary Table

ITC System PWSID NJ1427017	
Miles of Main	15
Hydrants	93
Valves	273
Service Connections	649

D. LITTLE FALLS WATER SYSTEM (PWSID NJ1605001)

System Description

The Little Falls System is a public water system that serves Little Falls Township and portions of Woodland Park Borough, North Caldwell Borough, Cedar Grove Township, and Montclair Township in Passaic and Essex Counties.

Source of Supply & Production

The Little Falls System purchases 100% of its water supply from nine interconnections with the Passaic Valley Water Commission (PVWC) system and three interconnections with the Montclair Township Water Bureau via bulk purchase contracts.

Distribution & Storage

The system is operated with four pressure gradients. One customer, the Oak Hill Road Office Complex, has an individual PVWC interconnection. The system consists of 52 miles of distribution mains in sizes up to 16-inch as detailed in Tables 4.4.D.1 and 4.4.D.2, below. There are no storage tanks within the Little Falls System. The storage is provided by PVWC and Montclair Township Water Bureau.

Table 4.4.D.1 - Little Falls System Water Mains

Little Falls NJ1605001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement		3.4			3.4
Cast Iron Lined	1.0	19.1			20.1
Cast Iron Unlined	0.6	13.9	0.0		14.5
Ductile Iron	0.0	11.8	1.4		13.2
Metal	0.1	0.0			0.1
Plastic		0.2			0.2
PCCP		0.3			0.3
Total	1.6	48.7	1.4		51.7

Note: Due to rounding, not all the totals will sum.

Table 4.4.D.2 - Little Falls System Asset Summary Table

Little Falls System PWSID NJ1605001	
Miles of Main	52
Hydrants	423
Valves	1,295
Service Connections	4,681

E. TWIN LAKES WATER SYSTEM (PWSID NJ1803002)

System Description

The Twin Lakes System is a public water system providing service to customers located in Bernardsville Borough, Somerset County.

Source of Supply & Production

The Twin Lakes System is supplied by two wells permitted to supply a maximum of 0.1mgd. The water is treated with sodium hydroxide for ph adjustment and sodium hypochlorite for disinfection.

Distribution & Storage

The distribution system consists of one pressure gradient and one 17,000 gallon reservoir as shown in Tables 4.4.F.1 and 4.4.F.2, below.

Table 4.4.F.1 - Twin Lakes System Water Mains

Twin Lakes NJ1803002 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	0.2				0.2
Cast Iron Lined	0.1	0.1			0.3
Cast Iron Unlined	0.2	0.2	0.0		0.4
Ductile Iron	0.0	4.9	0.1	0.0	5.1
Metal	0.0				0.0
Total	0.5	5.3	0.1	0.0	5.9

Table 4.4.F.2 - Twin Lakes System Asset Summary Table

Twin Lakes System PWSID NJ1803002	
Miles of Main	6
Hydrants	62
Valves	358
Service Connections	242

F. WASHINGTON WATER SYSTEM (PWSID NJ2121001)

System Description

The Washington System is a public water system providing water to residential and commercial customers in Washington Township, Washington Borough, and parts of Oxford Township, Mansfield Township, and Franklin Township, all located within Warren County.

Source of Supply & Production

The Washington System obtains its water supply from six groundwater wells with a combined permitted pumping capacity of 3.79 mgd, drawing water from Kittatinny Formation, the Leithsville Formation and the Hardyston Formation. The wells are treated at four groundwater treatment stations.

Distribution & Storage

The distribution system is operated with three pressure gradients, two storage tanks, and a hydropneumatic tank in the Washington High gradient. The system consists of approximately 94 miles of water main ranging in size from 4-inch to 16-inch as shown in Tables 4.4.G.1 and 4.4.G.2, below.

Table 4.4.G.1 - Washington System Water Mains

Washington NJ2121001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	0.2	4.0			4.2
Cast Iron Lined	0.0	9.0	0.9		10.0
Cast Iron Unlined	1.3	6.4	0.0		13.3
Ductile Iron	0.2	60.6	8.6		63.9
Metal	0.3				0.3
Plastic		0.5			0.5
PCCP		0.0	1.7		1.7
Total	2.1	75.0	11.3		93.9

Note: Due to rounding, not all the totals will sum.

Table 4.4.G.2 - Washington System Asset Summary Table

Washington System PWSID NJ2121001	
Miles of Main	94
Hydrants	401
Valves	1,1880
Service Connections	4,995

G. WEST JERSEY WATER SYSTEM (PWSID NJ1427009)

System Description

The West Jersey System is a public water system located in Mount Olive Township, Morris County serving a residential community along the southwest shore of Budd Lake.

Source of Supply & Production

The West Jersey System obtains its supply from three groundwater wells with a combined capacity of 0.299 mgd. Two treatment stations provide chlorination, pH adjustment and corrosion control treatment.

Distribution & Storage

The distribution system operates as two pressure gradients maintained by the Wallman Way Reservoir. A booster station pumps water from the West Jersey Main gradient to the West Jersey High gradient.

The system consists of 6 miles of water main, mostly ranging in size from 2-inch or smaller to 6-inch as shown in Tables 4.4.H.1 and 4.4.H.2, below.

Table 4.4.H.1 - West Jersey System Water Mains

West Jersey NJ1427009 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Cast Iron Unlined	2.1	1.5			3.6
Ductile Iron	0.1	2.2			2.4
Metal	0.0	0.0			0.1
Total	2.2	3.8			6.0

Note: Due to rounding, not all the totals will sum.

Table 4.4.H.2 - West Jersey System Asset Summary Table

West Jersey System PWSID NJ1427009	
Miles of Main	6
Hydrants	4
Valves	118
Service Connections	217

H. ROXBURY WATER SYSTEM (PWSID NJ1436002)

System Description

The Roxbury System is a public water system providing water to residential and commercial customers in Roxbury Township, Morris County.

Source of Supply & Production

The Roxbury System obtains its supply from five groundwater wells with a combined capacity of 3.49 mgd.

Distribution & Storage

The distribution system operates as one pressure gradients maintained by the Roxbury Tank.

The system consists of 60 miles of water main, mostly ranging in size from 2-inch or smaller to 6-inch as shown in Tables 4.4.I.1 and 4.4.I.2, below.

Table 4.4.I.1 - Roxbury System Water Mains

Roxbury NJ1436002 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	0.4	38.1			38.5
Cast Iron Unlined		0.5			0.5
Ductile Iron	0.2	22.0			22.1
Total	0.6	60.6			61.2

Table 4.4.I.2 - Roxbury System Asset Summary Table

Roxbury System PWSID NJ1436002	
Miles of Main	61
Hydrants	408
Valves	1,120
Service Connections	4,038

I. FOUR SEASONS AT CHESTER TOWNSHIP WATER SYSTEM (PWSID NJ1407001)

System Description

The Four Seasons at Chester Township is a public water system providing water primarily to residential customers in Chester Township located in Morris County. The system obtains its water supply from two groundwater wells drawing from the Bedrock Aquifer.

Distribution & Storage

The distribution system operates as one pressure gradient, pressure with a hydro pneumatic tank. As shown in Tables 4.4.J.1 and 4.4.J.2, below, the system consists of approximately 1 mile of 8-inch diameter distribution mains.

Table 4.4.J.1 - Four Seasons at Chester System Water Mains

Four Seasons at Chester NJ1407001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Ductile Iron		1.0			1.0
Total		1.0			1.0

Table 4.4.J.1 - Four Seasons System Asset Summary Table

Four Seasons System PWSID NJ1407001	
Miles of Main	1
Hydrants	8
Valves	29
Service Connections	125

4.5 PROPOSED DSIC PROJECTS, FILING 2022-2025

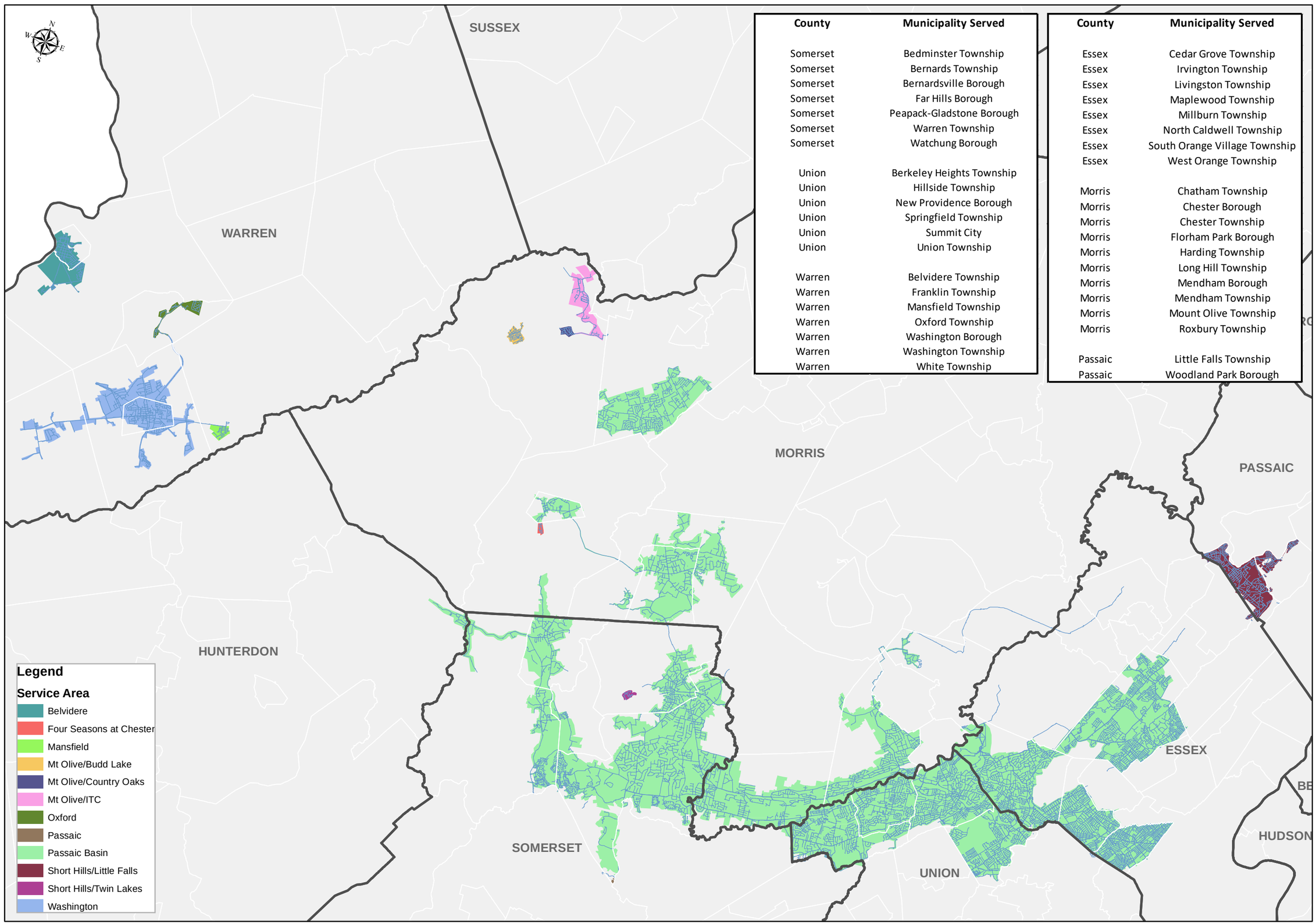
Approximately 310 additional pipeline projects have been identified in the North Operating Area in need of renewal in this Foundational Filing, and a total of approximately 410 projects when including previously DSIC Foundational Filing identified projects. Approximately 200 of these projects have been identified as high priority projects to be completed between 2022 and 2025, and are described in Table 4.5, attached. The scope and location of the identified projects are presented in this table.

Exhibit 4.1

New Jersey American Water
2022 DSIC Foundational Filing
North Operating Area

County	Municipality Served
Somerset	Bedminster Township
Somerset	Bernards Township
Somerset	Bernardsville Borough
Somerset	Far Hills Borough
Somerset	Peapack-Gladstone Borough
Somerset	Warren Township
Somerset	Watchung Borough
Union	Berkeley Heights Township
Union	Hillside Township
Union	New Providence Borough
Union	Springfield Township
Union	Summit City
Union	Union Township
Warren	Belvidere Township
Warren	Franklin Township
Warren	Mansfield Township
Warren	Oxford Township
Warren	Washington Borough
Warren	Washington Township
Warren	White Township

County	Municipality Served
Essex	Cedar Grove Township
Essex	Irvington Township
Essex	Livingston Township
Essex	Maplewood Township
Essex	Millburn Township
Essex	North Caldwell Township
Essex	South Orange Village Township
Essex	West Orange Township
Morris	Chatham Township
Morris	Chester Borough
Morris	Chester Township
Morris	Florham Park Borough
Morris	Harding Township
Morris	Long Hill Township
Morris	Mendham Borough
Morris	Mendham Township
Morris	Mount Olive Township
Morris	Roxbury Township
Passaic	Little Falls Township
Passaic	Woodland Park Borough



NEW JERSEY AMERICAN WATER

2022 Foundational Filing
Table 4.5 - Northern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
6766	Northern Operating Area	BEDMINSTER	BEDMINSTER - Ski Hill Dr off Route 206	$ 800,000	Replace	5055	8.00	Ductile Iron	1980	6	CI	Safety and Reliability	30	2022Q3
6764	Northern Operating Area	BEDMINSTER	BEDMINSTER - Old Stonehouse Rd between Old Dutch Rd & Ski Hill Dr	$ 440,000	Replace	2263	8.00	Ductile Iron	1970	6	CI	Safety and Reliability	90	2023Q4
10800	Northern Operating Area	BEDMINSTER	Easement from river off Black River Rd to feed Long Lane houses	$ 625,000	Rehab	2466	8.00	Other	1910	8	CI	Safety and Reliability/Structural	90	2022Q4
10843	Northern Operating Area	BEDMINSTER	Route 202 bridge over the Raritan River North Branch	$ 100,000	Replace	146	16.00	Steel	1970	8	DI	Relocation/Opportunity	30	2024Q3
5471	Northern Operating Area	BELVIDERE	4th Street from Franklin to 5th	$ 250,000	Replace	1034	6.00	Ductile Iron	1930	4	CI	Safety and Reliability	30	2022Q4
6690	Northern Operating Area	BERKELEY HEIGHTS	Berkshire Dr From Mountain Ave to end cap	$ 465,000	Replace	1793	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	45	2025Q3
6701	Northern Operating Area	BERKELEY HEIGHTS	Holly Glen Lane S from Holly Glen Lane to Pinnel Ct.	$ 282,000	Replace	1578	8.00	Ductile Iron	1950	6	CI	Water Quality	15	2024Q4
6696	Northern Operating Area	BERKELEY HEIGHTS	Kline Place from Rickler Place to Maple Ave	$ 132,000	Replace	740	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2024Q4
6708	Northern Operating Area	BERKELEY HEIGHTS	Forest Ave from Park Ave to Columbus Ave	$ 373,000	Replace	1879	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q2
6772	Northern Operating Area	BERKELEY HEIGHTS	BERKELEY HEIGHTS - Park Ave from Euclid to Mountain	$ 840,000	Replace	3970	8.00	Ductile Iron	1960	8	CI	Safety and Reliability	90	2025Q4
6771	Northern Operating Area	BERKELEY HEIGHTS	BERKELEY HEIGHTS - Mountain Ave from Diamond Hill Rd to Park Ave	$ 3,150,000	Replace	27251	12.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	7	2024Q4
6705	Northern Operating Area	BERKELEY HEIGHTS	Orchard Lane from Old Farm Rd to Emerson Lane	$ 351,000	Replace	1764	8.00	Ductile Iron	1950	6	CI	Water Quality	60	2024Q4
6698	Northern Operating Area	BERKELEY HEIGHTS	Hillside Ave from Timber Dr to Fern Pl	$ 449,000	Replace	2268	8.00	Ductile Iron	1960	6	CI	Water Quality	90	2023Q4
10698	Northern Operating Area	BERKELEY HEIGHTS	Hamilton Ave from Franklin to Snyder	$ 125,000	Replace	403	8.00	Ductile Iron	1990	8	CI	Safety and Reliability	60	2022Q4
6710	Northern Operating Area	BERKELEY HEIGHTS	Cornell Ave frpm Mountain Ave to Hillcrest Ave	$ 215,000	Replace	1010	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
6773	Northern Operating Area	BERKELEY HEIGHTS	BERKELEY HEIGHTS - Park Av between Euclid and Plainfield	$ 560,000	Replace	3215	8.00	Ductile Iron	1920	6	CI	Safety and Reliability	90	2025Q4
6695	Northern Operating Area	BERKELEY HEIGHTS	Lenape Lane from Dogwood Lan to Lorraine Dr	$ 400,000	Replace	1683	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
6702	Northern Operating Area	BERKELEY HEIGHTS	Cambridge Dr from Mountain Ave to Holly Glen Lane	$ 156,000	Replace	725	8.00	Ductile Iron	1950	8	CI	Water Quality	90	2025Q4
9010	Northern Operating Area	BERKELEY HEIGHTS	Mountain Ave from Diamonfd Hill Rd to Woodwild	$ 1,600,000	Replace	6276	12.00	Ductile Iron	1930	12	CI	Safety and Reliability	120	2025Q4
6294	Northern Operating Area	BERNARDS TWP	W. Oak Street from N. Alward Ave to S. Finley Ave	$ 522,000	Replace	2442	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	30	2023Q4
6285	Northern Operating Area	BERNARDS TWP	Tuxford Terrace from Old Coach Rd to Victoria Drive	$ 577,000	Replace	2868	8.00	Ductile Iron	1960	8	CI	Water Quality	5	2024Q4
6282	Northern Operating Area	BERNARDS TWP	Addison Dr from Archgate Rd to Warrick Lane	$ 219,000	Replace	2032	8.00	Ductile Iron	1970	8	CI	Water Quality	30	2024Q4
6283	Northern Operating Area	BERNARDS TWP	Franklin Dr. from Parkview to end cap	$ 111,125	Replace	1003	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2025Q4
6291	Northern Operating Area	BERNARDS TWP	Cedar Street from Rankin Ave to S. Finley Ave	$ 112,000	Replace	535	8.00	Ductile Iron	1960	4	CI	Water Quality	60	2025Q3
6290	Northern Operating Area	BERNARDS TWP	Rankin Ave from W. Henry Street to Cedar Street	$ 300,000	Replace	1467	8.00	Ductile Iron	1960	4	CI	Water Quality	15	2023Q4
6289	Northern Operating Area	BERNARDS TWP	Woodstone Dr from Peachtree Rd to Cross Rd	$ 428,000	Replace	2140	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2025Q4
6654	Northern Operating Area	BERNARDS TWP	Riverside Drive from Hilltop Rd to Lord Sterling Rd	$ 774,000	Replace	4815	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	30	2025Q4
93	Northern Operating Area	BERNARDS TWP	Bernards - Martinsville Road from Alan to Valley	$ 300,000	Replace	1387	8.00	Ductile Iron	2000	8	CI	Safety and Reliability/Structural	60	2025Q3
6658	Northern Operating Area	BERNARDS TWP	Culberson Rd from Spencer Rd to the end cap west of S. Alward Ave	$ 295,000	Replace	1438	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2022Q4
6655	Northern Operating Area	BERNARDS TWP	Sherwood Dr from Lord Stirling Rd to end cal	$ 162,000	Replace	769	8.00	Ductile Iron	2000	8	CI	Safety and Reliability/Structural	60	2025Q4
6840	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Old Army Rd between Oak Ridge Rd and HBER-68 past Van Courtland Rd	$ 600,000	Replace	2945	8.00	Ductile Iron	1930	6	CI	Water Quality	90	2024Q4
6783	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Old Madisonville Rd from Madisonville to dead end	$ 122,500	Replace	716	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
6281	Northern Operating Area	BERNARDS TWP	Fieldstone Dr from Morristown Rd to Morristown Road	$ 673,000	Replace	3356	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
6182	Northern Operating Area	BERNARDS TWP	CREST DRIVE	$ 380,000	Replace	1139	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	30	2025Q4
10210	Northern Operating Area	BERNARDS TWP	Stonybrook Rd from Glen Ave to Tysley St	$ 125,000	Replace	475	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	30	2022Q4
6300	Northern Operating Area	BERNARDSVILLE	Ambar Place from Mt. Airy Rd to Washington Ave	$ 613,000	Replace	2990	8.00	Ductile Iron	1950	8	CI	Water Quality	10	2025Q4
6303	Northern Operating Area	BERNARDSVILLE	South Street from Dayton Crecent to Mt. Airy Rd	$ 92,000	Replace	430	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	40	2025Q3
6320	Northern Operating Area	BERNARDSVILLE	MT AIRY RD FROM PROSPECT TO MINEBROOK	$ 800,000	Replace	794	12.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2022Q4
6853	Northern Operating Area	BERNARDSVILLE	BERNARDSVILLE - Old Fort Rd from Seney Dr around the whole circle and out Olcott to Old Army Rd	$ 600,000	Replace	2917	8.00	Ductile Iron	1950	6	AC	Conservation	30	2024Q4
5692	Northern Operating Area	CHATHAM TWP	Maple Street from School Ave to end	$ 128,000	Replace	1541	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2024Q3
6682	Northern Operating Area	CHATHAM TWP	Overlook Rd from Fernadale Rd to Sandy Hill Rd	$ 199,000	Replace	1711	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	15	2024Q4
6666	Northern Operating Area	CHATHAM TWP	May Drive from Noe Avenue to Robert Dr	$ 493,000	Replace	2404	8.00	Ductile Iron	1950	8	CI	Water Quality	30	2024Q4
6715	Northern Operating Area	CHATHAM TWP	CHATHAM - Rolling Hill Rd between Southern and Dale	$ 760,000	Replace	2863	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	30	2025Q3
6667	Northern Operating Area	CHATHAM TWP	Huron Dr and Macevoy Ave from end cap to Van Houton Ave.	$ 765,000	Replace	3771	8.00	Ductile Iron	1960	8	CI	Water Quality	90	2024Q4
7284	Northern Operating Area	CHATHAM TWP	Southern Blvd - Balance of MapCall ID# 6902, Due to paving moratorium	$ 1,125,000	Replace	4462	8.00	Ductile Iron	1930	8	CI	Safety and Reliability	90	2023Q4
6721	Northern Operating Area	CHATHAM TWP	CHATHAM TWP - Jay Rd from Southern Blvd to the cul-de-sac	$ 297,500	Replace	1521	6.00	Ductile Iron	1940	6	CI	Safety and Reliability	60	2024Q4
6857	Northern Operating Area	CHATHAM TWP	CHATHAM - River Rd from Southern to Passaic	$ 540,000	Replace	2566	8.00	Ductile Iron	2000	8	CI	Safety and Reliability	90	2023Q4
6660	Northern Operating Area	CHATHAM TWP	Green Village Rd from Meyersville Rd to Shunpike Rd.	$ 1,382,000	Replace	7069	8.00	Ductile Iron	1930	8	CI	Water Quality	120	2024Q4
6678	Northern Operating Area	CHATHAM TWP	Fairfax Terrace from Edgewood Rd to Chatham Boro Fairfax Ter Interconnect #2	$ 172,000	Replace	776	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	60	2024Q4
6885	Northern Operating Area	CHATHAM TWP	CHATHAM - Spring St from Lafayette to Dale	$ 280,000	Replace	1088	8.00	Ductile Iron	1930	6	CI	Safety and Reliability	60	2024Q4

2022 Foundational Filing
Table 4.5 - Northern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
6681	Northern Operating Area	CHATHAM TWP	Noe Avenue from Southern Blvd to Watchung Ave	$ 736,875	Replace	3166	12.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	90	2023Q4
6670	Northern Operating Area	CHATHAM TWP	Woodlawn Dr from Cypress Rd to Long Hill Lane	$ 76,125	Replace	432	6.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2022Q4
6861	Northern Operating Area	CHATHAM TWP	CHATHAM - River Rd from Passaic to 60' west of HCT-160 (2000' east of Fairmont)	$ 960,000	Replace	3805	8.00	Ductile Iron	1930	6	CI	Safety and Reliability	90	2023Q2
6683	Northern Operating Area	CHATHAM TWP	Warwick Rd from Ferndale Rd to Oak Hill Rd	$ 300,000	Replace	1237	8.00	Ductile Iron	1950	6	CI	Water Quality	60	2024Q4
6679	Northern Operating Area	CHATHAM TWP	Maple Ave from School Ave to Lafayette Ave	$ 375,000	Replace	1541	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q3
6854	Northern Operating Area	CHATHAM TWP	CHATHAM - Ormont Rd from cul-de-sac east of Henry to dead end west of Mountainside	$ 600,000	Replace	2260	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	90	2025Q4
6280	Northern Operating Area	CHESTER BOROUGH	Route 206 well line replacement	$ 270,000	Replace	2039	8.00	Ductile Iron	1990	3	CI	Safety and Reliability	15	2024Q3
6884	Northern Operating Area	HARDING TWP	HARDING - Spring Valley Rd from Douglas to Meyersville	$ 400,000	Replace	2104	8.00	Ductile Iron	1940	8	CI	Safety and Reliability	30	2025Q4
6722	Northern Operating Area	IRVINGTON	IRVINGTON - Essex St between Maple & Chancellor	$ 150,000	Replace	743	8.00	Ductile Iron	1900	6	CI	Safety and Reliability	60	2022Q4
7520	Northern Operating Area	IRVINGTON	Cleremont Ave, Irvington from Union Ave toward Mt Vernon Ave 500'	$ 110,000	Replace	445	12.00	Ductile Iron	1900	12	CI	Safety and Reliability/Structural	30	2022Q4
6880	Northern Operating Area	IRVINGTON	IRVINGTON - Howard St between May & Nye	$ 180,000	Replace	891	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	60	2023Q4
6724	Northern Operating Area	IRVINGTON	IRVINGTON - Clinton Ave between Union & Ball	$ 125,000	Replace	563	6.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q3
9629	Northern Operating Area	IRVINGTON	Mount Vernon Ave from Cleremont Ave to Melleville Pl	$ 360,000	Replace	1200	16.00	Ductile Iron	1940	12	CI	Safety and Reliability/Structural	60	2025Q3
6881	Northern Operating Area	IRVINGTON	IRVINGTON - Western Parkway from Woodlawn to Grove	$ 585,000	Replace	2497	12.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2023Q4
5548	Northern Operating Area	LITTLE FALLS	Main St replacement (west end)	$ 472,500	Replace	802	12.00	Ductile Iron	1940	6	CI	Safety and Reliability	5	2023Q4
6735	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Montclair Ave from RR crossing to Oak Dr Cedar Grove	$ 180,000	Replace	1172	8.00	Ductile Iron	1950	8	DI	Safety and Reliability/Structural	30	2023Q4
6882	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Donato Drive - entire loop, plus Paul, Pine and Elm	$ 592,000	Replace	2819	8.00	Ductile Iron	1940	8	CI	Safety and Reliability	90	2024Q4
6739	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Notch Rd from rt 46 to Longhill Rd	$ 380,000	Replace	2167	8.00	Ductile Iron	1980	12	DI	Safety and Reliability/Structural	90	2024Q4
9781	Northern Operating Area	LITTLE FALLS	C&L Little Falls phase 1 around 1st street	$ 3,000,000	Rehab	17500	6.00	Cast Iron	1940	6	CI	Water Quality	120	2023Q4
6836	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Woods Rd from Long Hill Rd to ROW	$ 280,000	Replace	1415	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2023Q4
6747	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Wilmore Rd Between Prospect St and 1st ave	$ 560,000	Replace	2829	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	90	2023Q4
9783	Northern Operating Area	LITTLE FALLS	C&L CI mains in Little Falls phase 2	$ 3,000,000	Rehab	21343	6.00	Cast Iron	1940	6	CI	Water Quality	120	2022Q4
10714	Northern Operating Area	LITTLE FALLS	Ridge Ave	$ 600,000	Replace	2598	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	90	2022Q4
6746	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Walnut St between Union and Stevens Ave	$ 340,000	Replace	1889	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2024Q4
6745	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Villa Rd from Longhill Rd	$ 100,000	Replace	707	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
6533	Northern Operating Area	LONG HILL TWP	Railroad Ave from end to end	$ 174,125	Replace	995	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2025Q4
6500	Northern Operating Area	LONG HILL TWP	Long Hill Rd from Merersvillle Rd to Hydrant HLH-84 east of Gillette Rd.	$ 949,500	Replace	4315	12.00	Ductile Iron	1950	6	CI	System Flows and Pressure	90	2023Q4
6523	Northern Operating Area	LONG HILL TWP	Union Street from dead end to Warren Ave	$ 312,000	Replace	731	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	10	2023Q4
6723	Northern Operating Area	LONG HILL TWP	Maple Av from St Joseph to Delaware	$ 400,000	Replace	1769	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q4
6504	Northern Operating Area	LONG HILL TWP	Meyersville Rd from New Vernon Rd / Gillette Ave to Crestwood Rd	$ 662,000	Replace	3333	8.00	Ductile Iron	1950	8	CI	Water Quality	30	2025Q4
6749	Northern Operating Area	LONG HILL TWP	LONG HILL - Elm St from Central Ave	$ 300,000	Replace	1484	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2023Q4
6535	Northern Operating Area	LONG HILL TWP	Chestnut Street from North Ave to Central Ave	$ 183,000	Replace	927	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	160	2024Q4
6244	Northern Operating Area	LONG HILL TWP	Hillside Drive from Long Hill Rd to Lacey Ave	$ 156,000	Replace	768	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2024Q4
6529	Northern Operating Area	LONG HILL TWP	Mercer Street from Passaic Ave to end	$ 227,000	Replace	934	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
9736	Northern Operating Area	LONG HILL TWP	Northfield Rd from Valley Rd to Long Hill Rd	$ 1,800,000	Replace	2983	20.00	Ductile Iron	1950	6	CI	System Flows and Pressure	45	2022Q4
6752	Northern Operating Area	LONG HILL TWP	LONG HILL - Madison St Morristown Rd	$ 230,000	Replace	1121	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2024Q4
5706	Northern Operating Area	MAPLEWOOD	Maplewood Ave - Baker St. to Beach Place	$ 500,000	Replace	1922	12.00	Ductile Iron	1960	8	CI	System Flows and Pressure	2	2022Q2
9795	Northern Operating Area	MAPLEWOOD	Maplewood Twp - Burnett IC upstream reinforcement	$ 585,420	Replace	1774	12.00	Ductile Iron	1910	6	CI	System Flows and Pressure	30	2023Q3
9626	Northern Operating Area	MAPLEWOOD	Baker St from Ridgewood Rd to Burnet Ave	$ 830,000	Replace	1771	16.00	Ductile Iron	1920	8	CI	Safety and Reliability/Structural	60	2022Q4
5702	Northern Operating Area	MAPLEWOOD	Hickory Drive - Kermit to Ridgewood	$ 250,000	Replace	1788	8.00	Ductile Iron	1910	4	CI	System Flows and Pressure	90	2023Q2
9301	Northern Operating Area	MAPLEWOOD	20" in Oakland @ Kensington, then Prospect, Elmwood, Boyden and Parker to the Irvington line	$ 3,509,250	Replace	9358	20.00	Ductile Iron	1910	16	CI	Safety and Reliability/Structural	60	2023Q4
6308	Northern Operating Area	MENDHAM BOROUGH	Prospect Street from Hilltop Rd to End	$ 281,750	Replace	1618	6.00	Ductile Iron	1980	4	CI	System Flows and Pressure	30	2024Q4
6328	Northern Operating Area	MENDHAM BOROUGH	Maple Ave from Mountain Ave to Garabrant St	$ 393,000	Replace	2051	8.00	Ductile Iron	1960	8	CI	Safety and Reliability	90	2025Q4
6341	Northern Operating Area	MENDHAM BOROUGH	Horseshoe Bend Rd from Bernardsville Rd to Corey Lane	$ 1,428,750	Replace	6283	12.00	Ductile Iron	1980	8	AC	System Flows and Pressure	20	2025Q3
6332	Northern Operating Area	MENDHAM BOROUGH	Bower Dr from Phoenix Dr. to Dean Rd	$ 166,400	Replace	833	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	2022Q4
6830	Northern Operating Area	MENDHAM BOROUGH	MENDHAM Boro -Florie Farm Rd from Mountain Ave to Knollwood Trail	$ 562,500	Replace	2104	12.00	Ductile Iron	1960	12	DI	Safety and Reliability/Structural	30	2022Q4
6329	Northern Operating Area	MENDHAM BOROUGH	Garabrant St from Mountain Ave to Maple Ave	$ 260,000	Replace	1997	8.00	Ductile Iron	1930	4	CI	Safety and Reliability	60	2024Q4
6792	Northern Operating Area	MENDHAM BOROUGH	MENDHAM BOROUGH - Hoffman Rd from Mountain Ave to Bowers	$ 160,000	Replace	766	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	2022Q4
10920	Northern Operating Area	MENDHAM BOROUGH	Area behind West Morris High School	$ 2,300,000	Rehab	7600	8.00	Other	1960	8	CI	Safety and Reliability	10	2023Q4
6794	Northern Operating Area	MENDHAM TWP	MENDHAM TWP - Hilltop Cir from Deer Run to Cherry Lane	$ 900,000	Replace	3962	8.00	Ductile Iron	2000	6	CI	Safety and Reliability/Structural	90	2025Q4
6795	Northern Operating Area	MENDHAM TWP	MENDHAM TWP - Knollwood Trail from Deer Run to Farm Rd	$ 860,000	Replace	4281	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	120	2025Q3
40	Northern Operating Area	MILLBURN	Millburn - Browning Rd. Tennyson to White Oak	$ 380,000	Replace	2569	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
6183	Northern Operating Area	MILLBURN	KNOLLWOOD FROM WELLS TO PARK	$ 100,000	Replace	1284	8.00	Ductile Iron	1990	3	CI	System Flows and Pressure	14	2024Q4
6876	Northern Operating Area	MILLBURN	MILLBURN - Main St from Route 78 to Essex St	$ 680,000	Replace	3354	8.00	Ductile Iron	1910	4	CI	Relocation/Opportunity	90	2025Q3

2022 Foundational Filing
Table 4.5 - Northern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
6208	Northern Operating Area	MILLBURN	FIELDING MILLBURN	$ 91,000	Replace	502	6.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2025Q3
6897	Northern Operating Area	MILLBURN	MILLBURN - Hobart from White Oak Ridge to Brantwood	$ 280,000	Replace	1215	8.00	Ductile Iron	1980	4	CI	Safety and Reliability	60	2025Q3
6796	Northern Operating Area	MILLBURN	MILLBURN - East Pine Terr from Blatusrol Way to Campbell Rd	$ 180,000	Replace	901	8.00	Ductile Iron	1900	6	CI	Safety and Reliability/Structural	60	2023Q4
6875	Northern Operating Area	MILLBURN	MILLBURN - Great Hills Rd from Old Short Hills to Wildwood	$ 280,000	Replace	1242	8.00	Ductile Iron	1930	6	CI	Safety and Reliability	30	2025Q3
6898	Northern Operating Area	MILLBURN	MILLBURN - Hobart from South St to White Oak Ridge	$ 480,000	Replace	2287	8.00	Ductile Iron	1980	4	CI	Safety and Reliability/Structural	90	2024Q4
10212	Northern Operating Area	MILLBURN	Lackawanna Place from Glen Ave to Essex St	$ 300,000	Replace	900	24.00	HDPE	1950	20	CEM	Crossing Risk Reduction	60	2023Q2
6799	Northern Operating Area	MILLBURN	MILLBURN - Kean Rd from Winthrop Rd	$ 460,000	Replace	2281	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	90	2025Q4
6800	Northern Operating Area	MILLBURN	MILLBURN - Silver Spring Rd from South Orange Ave to Old Short Hills Rd	$ 1,200,000	Replace	6134	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2025Q3
9465	Northern Operating Area	MILLBURN	Millburn Ave from Lackawanna to Morris Ave, and Morris to Rte 24	$ 1,800,000	Rehab	9104	10.00	Other	1880	10	CI	Water Quality	120	2025Q4
10699	Northern Operating Area	MILLBURN	Wyoming Ave from Millburn Ave to Glen Ave	$ 1,000,000	Replace	735	12.00	HDPE	1890	10	CI	Crossing Risk Reduction	60	2023Q4
9535	Northern Operating Area	MILLBURN	Clean & line 10" & 12" mains in Millburn	$ 2,000,000	Rehab	9466	10.00	Cast Iron	1980	12	CI	Water Quality	120	2025Q4
10924	Northern Operating Area	MILLBURN	Myrtle Ave	$ 900,000	Replace	2897	8.00	Ductile Iron	1920	6	CI	Relocation/Opportunity	90	2023Q4
6831	Northern Operating Area	MILLBURN	MILLBURN - Hartshorn Dr from Highview Rd to Oakey Rd	$ 380,000	Replace	1902	12.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	60	2025Q4
6815	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Pleasent View Ave from Livingston ave to Springfield Ave	$ 420,000	Replace	2079	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	30	2023Q4
6817	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - South St from Dian Ct to Springfield Ave	$ 740,000	Replace	3713	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2025Q3
6809	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Magnolia Dr from Springfield Ave to Valentine Rd	$ 250,000	Replace	1238	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	25	2023Q4
6848	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Walton Ave from Passaic St to Hedden Pl	$ 440,000	Replace	2188	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	90	2025Q3
6805	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Gales Dr from South St to Springfield Ave	$ 400,000	Replace	2020	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2023Q4
6806	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Hawthorne Dr from Central Ave to Pearl St	$ 360,000	Replace	1763	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
6813	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Pearl St from Central Ave to Fickler Pl	$ 300,000	Replace	2439	8.00	Ductile Iron	1990	6	CI	Safety and Reliability/Structural	90	2025Q3
10673	Northern Operating Area	NEW PROVIDENCE	Holmes Oval and Ridgeview Ave	$ 900,000	Replace	2378	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2023Q4
6847	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - The Fellsway from Maple St to Forest Rd	$ 900,000	Replace	2947	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2023Q3
6804	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Central Ave from Maple to Brook Hollow	$ 440,000	Replace	1646	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	2025Q4
10858	Northern Operating Area	NEW PROVIDENCE	New Providence - Mountain Avenue from Division Avenue to Oakwood Drive	$ 909,750	Replace	3639	16.00	Ductile Iron	1990	6	CI	Safety and Reliability	90	2025Q4
10859	Northern Operating Area	NEW PROVIDENCE	New Providence - Oakwood Drive from hydrant HNP-59 to South street and from South Street to the intersection of Mountain Avenue and to hydrant HNP-30 in Mountain Avenue.	$ 938,500	Replace	3754	16.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2025Q4
10860	Northern Operating Area	NEW PROVIDENCE	New Providence - Mountain Avenue from hydrant HNP-30 to just west of Union Ave/Diamond Hill Rd	$ 1,125,000	Replace	4239	16.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2025Q4
6814	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Pine Ct from Pine Way	$ 100,000	Replace	464	8.00	Ductile Iron	1970	2	CI	Safety and Reliability/Structural	30	2025Q4
10917	Northern Operating Area	NEW PROVIDENCE	Clinton Ave - all	$ 330,000	Replace	1121	8.00	Ductile Iron	1930	6	CI	Safety and Reliability	60	2023Q4
10918	Northern Operating Area	NEW PROVIDENCE	Fairmount Rd	$ 240,000	Replace	820	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q4
7191	Northern Operating Area	PEAPACK GLADSTONE BOROUGH	Holland Road private main	$ 1,500,000	Replace	5400	8.00	Ductile Iron				Safety and Reliability/Structural	120	2023Q4
10649	Northern Operating Area	ROXBURY TOWNSHIP	Kenvil Road	$ 1,000,000	Replace	3747	8.00	Ductile Iron	1950	8	AC	Safety and Reliability	90	2023Q4
10651	Northern Operating Area	ROXBURY TOWNSHIP	Circuit Drive East & West	$ 725,000	Replace	2897	8.00	Ductile Iron	1960	8	AC	Safety and Reliability	90	2025Q4
10652	Northern Operating Area	ROXBURY TOWNSHIP	Kentwood Terr & Ruth Ct	$ 750,000	Replace	2743	8.00	Ductile Iron	1970	8	AC	Safety and Reliability	65	2025Q4
10653	Northern Operating Area	ROXBURY TOWNSHIP	Horizon Drive	$ 600,000	Replace	2240	8.00	Ductile Iron	1970	8	AC	Safety and Reliability	15	2025Q4
10654	Northern Operating Area	ROXBURY TOWNSHIP	Henry St and William St	$ 975,000	Replace	3861	8.00	Ductile Iron	1950	6	AC	Relocation/Opportunity	90	2024Q4
10655	Northern Operating Area	ROXBURY TOWNSHIP	Honeyman Dr and Kadel Dr	$ 900,000	Replace	3416	8.00	Ductile Iron	1950	8	AC	Safety and Reliability	30	2024Q4
10656	Northern Operating Area	ROXBURY TOWNSHIP	Beechwood Dr and Robert Ct	$ 550,000	Replace	2052	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	90	2024Q4
6858	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Pitt Rd from Shunpike Rd to Mountain Ave	$ 560,000	Replace	2818	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	3	2025Q4
6944	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Colfax Rd from Denham to Short Hills Ave	$ 270,000	Replace	1339	8.00	Ductile Iron	1920	6	CI	Safety and Reliability	60	2023Q2
6947	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Marcy from Severna to Morris	$ 120,000	Replace	603	8.00	Ductile Iron	1910	6	CI	Relocation/Opportunity	12	2023Q4
6862	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Shunpike Rd from Mountain Ave to I-78	$ 840,000	Replace	4315	8.00	Ductile Iron	1990	8	CI	Safety and Reliability/Structural	120	2025Q4
6864	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Colonial Rd from Evergreen Rd to West End Ave	$ 280,000	Replace	1032	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2024Q4
6877	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Route 22 east and west	$ 2,000,000	Replace	8623	12.00	Ductile Iron	1940	6	CI	Safety and Reliability	120	2024Q4
6948	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Green Hill Rd from Tree Top to Highland	$ 440,000	Replace	2573	8.00	Ductile Iron	1960	8	CI	Relocation/Opportunity	60	2025Q4
6863	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Skylark Rd from Tree Top Dr to Green Hill Rd	$ 1,100,000	Replace	2436	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	90	2025Q4
6935	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Golf Oval from Mountain Ave	$ 260,000	Replace	1324	8.00	Ductile Iron	1970	6	CI	Relocation/Opportunity	60	2024Q4
6856	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Briar Hills Circle from Wentz Ave to Mountain Ave	$ 600,000	Replace	3368	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2025Q3
10704	Northern Operating Area	SPRINGFIELD	Vista Way	$ 510,000	Replace	1723	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	15	2022Q4

2022 Foundational Filing
Table 4.5 - Northern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
6859	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Riverside Dr from Cain St to Maple Ave	$ 240,000	Replace	1209	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
6946	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Molter from Severna to Morris	$ 100,000	Replace	518	8.00	Ductile Iron	1910	6	DI	Relocation/Opportunity	60	2023Q4
6338	Northern Operating Area	SPRINGFIELD	Walnut St from Morris to Church Mall	$ 116,000	Replace	410	8.00	Ductile Iron	1940	0	GALV	Safety and Reliability	30	2025Q4
10211	Northern Operating Area	SPRINGFIELD	Caldwell Pl near Mountain ave	$ 125,000	Replace	100	12.00	Ductile Iron	1970	12	CI	Relocation/Opportunity	90	2023Q2
6938	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Sharon Rd from Highland Ave to Summit Rd	$ 140,000	Replace	707	8.00	Ductile Iron	1940	6	AC	Relocation/Opportunity	60	2024Q4
6871	Northern Operating Area	SUMMIT	SUMMIT - Shunpike Rd from Harvard St to Yale St	$ 550,000	Replace	2757	8.00	Ductile Iron	1890	2	CI	Safety and Reliability/Structural	90	2022Q4
6868	Northern Operating Area	SUMMIT	SUMMIT - Gates Ave from Morris Ave to Montrose Ave	$ 180,000	Replace	842	8.00	Ductile Iron	1970	4	CI	Safety and Reliability/Structural	60	2024Q4
6890	Northern Operating Area	SUMMIT	SUMMIT - Glenside Ave from Van Dyke to Baltusrol Well	$ 560,000	Replace	3849	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2025Q3
7286	Northern Operating Area	SUMMIT	Summit Rehab - Glenside & Morris from Van Dyke to Morris Court	$ 200,000	Rehab	1814	10.00	Cast Iron	1890	10	CI	System Flows and Pressure	60	2023Q4
8864	Northern Operating Area	SUMMIT	Summit - Kent Place Blvd from Colonial Rd St to Norwood Ave	$ 1,031,700	Replace	3439	16.00	Ductile Iron	1990	4	CI	System Flows and Pressure	90	2024Q4
10641	Northern Operating Area	SUMMIT	Pine Grove Rd	$ 350,000	Replace	1136	8.00	Ductile Iron	1920	4	CI	Relocation/Opportunity	60	2022Q4
10671	Northern Operating Area	SUMMIT	New Providence Ave	$ 350,000	Replace	160	4.00	Ductile Iron	1950	2	CI	Safety and Reliability	30	2023Q4
10185	Northern Operating Area	SUMMIT	Morris Ave from River Rd to Kent Place Blvd	$ 1,500,000	Replace	7089	12.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	120	2023Q2
10923	Northern Operating Area	SUMMIT	Park Ave	$ 960,000	Replace	3137	8.00	Ductile Iron	1890	4	CI	System Flows and Pressure	90	2022Q4
7358	Northern Operating Area	TEWKSBURY TWP	Hollow Brook from Fairmont Rd E to past HTEW-19	$ 1,400,000	Replace	6336	8.00	Ductile Iron	1790	8	CI	Safety and Reliability	120	2022Q4
6892	Northern Operating Area	TEWKSBURY TWP	TEWKSBURY - Hollow Brook Rd from Homestead Rd to dead end of main	$ 1,100,000	Replace	5435	8.00	Ductile Iron	1890	8	CI	Safety and Reliability/Structural	90	2022Q4
141	Northern Operating Area	WASHINGTON BOROUGH	Washington Boro - W Stewart, between Lincoln and Grand	$ 220,000	Replace	971	8.00	Ductile Iron	1890	4	CI	System Flows and Pressure	60	2022Q4
5757	Northern Operating Area	WASHINGTON BOROUGH	Birchwood Ave from Washburn Ave to End	$ 80,500	Replace	463	8.00	Ductile Iron	1930	4	AC	System Flows and Pressure	30	2022Q4
5755	Northern Operating Area	WASHINGTON BOROUGH	Van Burern St from Prosper Way until end	$ 149,000	Replace	762	8.00	Ductile Iron	1960	6	AC	System Flows and Pressure	60	2022Q4
5747	Northern Operating Area	WASHINGTON BOROUGH	Gibson Place from Jackson Ave to Prosper Way	$ 221,000	Replace	1022	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	30	2024Q4
5748	Northern Operating Area	WASHINGTON BOROUGH	Prosper Way from Gibson Place to E. Washington Ave	$ 233,000	Replace	1366	8.00	Ductile Iron	1960	6	AC	System Flows and Pressure	20	2025Q3
5753	Northern Operating Area	WASHINGTON BOROUGH	McDonald Street from Warren St to end at 16" main	$ 260,700	Replace	1065	12.00	Ductile Iron	1930	6	CI	System Flows and Pressure	30	2023Q4
5758	Northern Operating Area	WASHINGTON BOROUGH	Myrtle Ave from S. Pickel Ave to end cap with new main thru easement to Flower Ave	$ 438,750	Replace	1563	12.00	Ductile Iron	1960	6	CI	Water Quality	90	2023Q4
130	Northern Operating Area	WASHINGTON TWP	Washington - Washburn Road Changwater to S Lincoln	$ 945,000	Replace	4330	12.00	Ductile Iron	1930	6	AC	System Flows and Pressure	30	2022Q4
6184	Northern Operating Area	WASHINGTON TWP	OLD SCHOOL HOUSE RD	$ 134,000	Replace	534	8.00	Ductile Iron	1960	2	GALV	System Flows and Pressure	30	2025Q3
5760	Northern Operating Area	WASHINGTON TWP	Washington Ave from Brass Castle Rd to Mill Pond Road	$ 725,000	Replace	2952	16.00	Ductile Iron	1950	8	CI	System Flows and Pressure	30	2022Q4
6185	Northern Operating Area	WASHINGTON TWP	DOGWOOD LANE	$ 192,000	Replace	815	8.00	Ductile Iron	1870	2	CI	System Flows and Pressure	30	2023Q4
5743	Northern Operating Area	WASHINGTON TWP	Fisher Ave from Railroad Ave to Washburn Ave	$ 275,000	Replace	1349	8.00	Ductile Iron	1930	4	AC	Water Quality	60	2022Q4
5761	Northern Operating Area	WASHINGTON TWP	Plane Hill Road from Partridge Run to Kinnaman Ave	$ 250,000	Replace	1187	8.00	Ductile Iron	1960	8	CI	System Flows and Pressure	30	2024Q4
10028	Northern Operating Area	WASHINGTON TWP	Brass Castle Rd @ culvert opposite Dogwood Lane	$ 575,000	Replace	40	16.00	Ductile Iron	1950	16	CI	Relocation/Opportunity	30	2025Q4
154	Northern Operating Area	WEST ORANGE	West Orange Rehab - Phase 4 Replace	$ 67,500	Rehab	4364	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2024Q4
155	Northern Operating Area	WEST ORANGE	West Orange Rehab - Phase 5 Replace	$ 326,250	Rehab	2969	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2025Q4
6225	Northern Operating Area	WEST ORANGE	Ahern Ave. (from Barton Dr. to end cap) and Barton Dr. (from Laurel Dr. to end cap)	$ 227,500	Replace	1170	6.00	Ductile Iron	1950	6	CI	System Flows and Pressure	30	2023Q2
153	Northern Operating Area	WEST ORANGE	West Orange Rehab - Phase 3 Replace	$ 247,500	Replace	2745	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	25	2023Q4
6217	Northern Operating Area	WEST ORANGE	Rock Spring Avenue from Northfield Ave to Chestnut Road	$ 402,000	Replace	1819	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
49	Northern Operating Area	WEST ORANGE	West Orange - Mitchell St (bet Colony & Rollinson)	$ 330,000	Replace	321	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q2
6220	Northern Operating Area	WEST ORANGE	Devonshire Terrace from Mt. Pleasant Ave to end cap past Nottingham Rd	$ 197,000	Replace	1343	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	100	2025Q4
6227	Northern Operating Area	WEST ORANGE	Hover Ave from Pleasant Valley Way to end just past Roosevelt Ave	$ 190,000	Replace	838	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	5	2025Q4
6909	Northern Operating Area	WEST ORANGE	WEST ORANGE - Forest Hill Rd from Gregory Ave to Collamore	$ 500,000	Replace	1213	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
6907	Northern Operating Area	WEST ORANGE	WEST ORANGE - Belle Terre Rd from Pleasant Valley Way to Coolidge Ave	$ 260,000	Replace	1287	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2024Q4
6925	Northern Operating Area	WEST ORANGE	WEST ORANGE - Stone Dr from Blackstock Rd to Weber Rd	$ 460,000	Replace	1337	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
6943	Northern Operating Area	WEST ORANGE	WEST ORANGE - Eagle Rock Ave from Pleasant Valley Way to Oval Rd.	$ 935,000	Replace	3025	12.00	Ductile Iron	1930	6	CI	Safety and Reliability	90	2025Q3
6927	Northern Operating Area	WEST ORANGE	WEST ORANGE - Sunnyside Rd from Pleasant Valley Way	$ 300,000	Replace	1545	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2023Q4
6911	Northern Operating Area	WEST ORANGE	WEST ORANGE - Korwel Cir + Ct from Northfield Ave	$ 380,000	Replace	2048	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2024Q3
7290	Northern Operating Area	WEST ORANGE	Prospect Av from Eagle Rock to Marcella	$ 1,300,000	Replace	5568	16.00	Ductile Iron	1940	16	CI	System Flows and Pressure	120	2023Q2
6923	Northern Operating Area	WEST ORANGE	WEST ORANGE - St. Cloud Ave From Old Indian Rd to Arverne Rd	$ 460,000	Replace	2059	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2022Q4
6203	Northern Operating Area	WEST ORANGE	Fairview Ave from Birchwood Ave to Chestnut Rd	$ 245,000	Replace	1369	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q4

2022 Foundational Filing
Table 4.5 - Northern Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
6914	Northern Operating Area	WEST ORANGE	WEST ORANGE - Pleasant Valley Way from Eagle Rock Ave to I-280	$ 1,000,000	Replace	5284	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	120	2023Q2
6913	Northern Operating Area	WEST ORANGE	WEST ORANGE - Northfield Ave from Walker Rd to Main St	$ 2,000,000	Replace	8083	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2023Q4
6920	Northern Operating Area	WEST ORANGE	WEST ORANGE - Randolph Pl from Mt Pleasant Ave to Longview St	$ 300,000	Replace	1436	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2023Q4
6942	Northern Operating Area	WEST ORANGE	WEST ORANGE - Eagle Rock Ave from Mississippi to Smith Manor Blvd	$ 680,000	Replace	3511	8.00	Ductile Iron	2000	8	CI	Safety and Reliability	90	2025Q3
10680	Northern Operating Area	WEST ORANGE	Gaston Street	$ 100,000	Replace	300	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	45	2022Q4
7642	Northern Operating Area	WEST ORANGE	Walker road from Northfield Avenue to Undercliff Terrace S	$ 760,000	Replace	3946	12.00	Ductile Iron	1950	8	CI	System Flows and Pressure	45	2022Q4
9537	Northern Operating Area	WEST ORANGE	Clean & line 6" to 10" mains in W Orange	$ 1,320,000	Rehab	6623	6.00	Cast Iron	1940	10	CI	Water Quality	120	2024Q4
6922	Northern Operating Area	WEST ORANGE	WEST ORANGE - Seaman Rd + Deerfield Dr from Woodland Ave	$ 1,000,000	Replace	1710	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2023Q4
10935	Northern Operating Area	WEST ORANGE	Birchwood Ave from Fairview south to dead end	$ 100,000	Replace	383	6.00	Ductile Iron	1930	8	CI	Water Quality	90	2023Q4
6931	Northern Operating Area	WEST ORANGE	WEST ORANGE - Wellington Ave from Gregory Ave to Valley Rd	$ 400,000	Replace	2351	8.00	Ductile Iron	1940	8	CI	Safety and Reliability/Structural	90	2023Q4
10130	Northern Operating Area	WEST ORANGE	Clearview	$ 125,000	Replace	471	8.00	Ductile Iron	1920	6	CI	Relocation/Opportunity	30	2023Q2
9560	Northern Operating Area	WEST ORANGE	WEST ORANGE - Northfield Ave from Wheeler St to Valley Rd	$ 123,000	Replace	410	12.00	Ductile Iron	2000	4	CI	System Flows and Pressure	30	2025Q4
5660	Northern Operating Area	WOODLAND PARK	McBride Av north end	$ 425,000	Replace	1869	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2025Q3
			Total	$ 120,419,970										

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SECTION 5. CENTRAL OPERATING AREA

5.1 OVERVIEW

NJAWC's Central Operating Area consists of three Public Community Water Systems in 48 municipalities in Union, Middlesex, Somerset, Morris, Hunterdon, and Mercer Counties. Combined, these water systems deliver approximately 138 MGD, on average, to water customers. The Raritan System also provides bulk water supplies to other public community water systems in the region through bulk water sales agreements and inter-company transfers. Table 5.1.1 details the number of customers and water usage by the three water systems. Exhibit 5.1, attached, illustrates the location of these service areas.

The system currently serves nine bulk water sales customers and two additional NJAWC systems. The nine bulk water sales customers are Liberty Water Company, Edison Water Company, Middlesex Water Company, Winfield Township, Franklin Township, Hopewell Borough, Aqua New Jersey - Lawrenceville, and South Brunswick Township. The NJAWC Passaic Basin System system receives water transfers from the Raritan System.

Table 5.1.1 - Central Operating Area Water Systems' Characteristics (2021)

PWSID	System Name	Service Connections	Population Served	Avg Day Demand (MGD)	Peak Month Demand (MGD)
NJ1011001	Frenchtown	450	1,200	0.096	0.093
NJ1024001	Crossroads at Oldwick	80	215	0.0030	0.043
NJ2004002	Raritan Basin	216,000	563,000	137.941	154.821

The primary sources of supply for this Operating Area is the Raritan River treated at the Canal Road Treatment Plant and the Raritan- Millstone Treatment Plant. Raw water supplies for these two water treatment plants are derived from intakes in the Raritan River, and supplemented when needed by the Millstone River, and the Delaware & Raritan Canal. Flows in the Raritan River are augmented by releases from the Spruce Run Reservoir and Round Valley Reservoir, both operated by the New Jersey Water Supply Authority. Flows in the Delaware & Raritan Canal are also controlled by the New Jersey Water Supply Authority.

In addition to the surface water supplies, NJAWC also diverts ground water from various Piedmont and Inner Coastal Plain aquifers. Approximately 10% of the Central Operating Area finished water delivered to customers is produced from ground water sources. Currently, there are 45 active wells treated at 19

stations located throughout the franchise area of the system within Union, Middlesex, Somerset, Hunterdon, and Mercer Counties.

The Central Operating Area's corrosion control strategy includes pH control and the addition of phosphates as corrosion inhibitors at the Canal Road and Raritan-Millstone surface water treatment plants and groundwater well stations. Phosphates are used to inhibit the internal corrosion of water mains, to sequester iron, manganese, calcium, and magnesium, and to improve the quality of water in the distribution system by preventing scale deposits and tuberculation. Orthophosphate, added at the surface water treatment plants, inhibits corrosion as it reacts with dissolved minerals in the water to form a thin coating or film on the inner surface of the pipe that is exposed to the treated water. Blended poly phosphates are added at most well facilities in order to sequester soluble metals found in the groundwater. The two forms of phosphate addition (orthophosphate and blended poly phosphates) work together to provide corrosion control while also reducing discoloration and scaling from groundwater.

The non-revenue water rate for the Central Operating Area in 2021 was 23.4%. Routine maintenance, flushing, leak detection, valve exercising, and meter replacement all occur on an ongoing basis to assist in controlling non-revenue water. The rate for this system is above the NJDEP guideline, but is similar to other utilities serving areas with significant topographic changes, numerous pumping zones and rocky soil conditions. Renewal of water mains in this area is important to assist in the reduction and control of leakage rates.

The treated water from the Company's sources of supply is conveyed to customers through 3,200 miles of distribution mains, with sections of the service areas dating back to the pre-1900 period. Water mains were manufactured and installed over many decades, resulting in varying types of materials, sizes and joints. The type of water main installed was based on the predominant pipe material available at the time. Table 5.1.2 provides a summary of the material and the diameter of the assets that continue to provide service.

Table 5.1.2 -Central Operating Area Summary of Mains by Material Type (in miles)

Central Operating System All PWSID's Miles of Main by Diameter					
Row Labels	**< 6"**	**6" to 12"**	**14" to 16"**	**> 16"**	**Total**
Asbestos Cement	0.8	39.8	11.6	1.9	54.1
Cast Iron Lined	2.9	413.4	27.6	28.0	471.9
Cast Iron Unlined	18.9	773.0	31.9	13.7	837.6
Ductile Iron	20.6	1439.6	184.4	67.8	1712.4
Metal	1.0	4.2	2.6	1.0	8.7
Plastic	0.2	3.5	2.4	0.3	6.5
PCCP	0.1	0.4	4.8	136.2	141.4
Total	**44.4**	**2674.0**	**265.2**	**249.0**	**3232.6**

Note: Due to rounding, not all the totals will sum.

5.2 DISTRIBUTION SYSTEM ASSET PERFORMANCE

The useful life of mains, valves, hydrants and service connections varies based on materials, environment, internal and external corrosion rate, internal and external forces, ground freezing and thawing cycles, groundwater levels, soil conditions, and many other factors. As the water systems age there is a need to renew infrastructure to ensure safety and reliability, improve system flows and water pressure, protect water quality, promote conservation and reduce non-revenue water.

The following section presents asset management data and conclusions regarding the need for accelerated investment. The performance of mains and their relative deterioration rate can be monitored by the break frequency and other characteristics. Table 5.2 shows the break frequency in tabular form. Figures 5.2.a and 5.2.b illustrate the number of repairs by material and type of break in the Central Operating Area during 2021.

Table 5.2 - Summary of Break Rate by Material for the Central Operating Area (2021)

Central District Total							
	Asbestos Cement	Cast Iron	Ductile Iron	Other Metallic	PCCP	Plastic	Total
Miles of Main	54	1309	1712	9	141	6	3233
Main Failures	7	328	101	7	1	1	445
Failures per Mile	0.13	0.25	0.06	0.80	0.01	0.15	0.14

Figure 5.2.a - Summary of Main Breaks by Type in Central (2021)

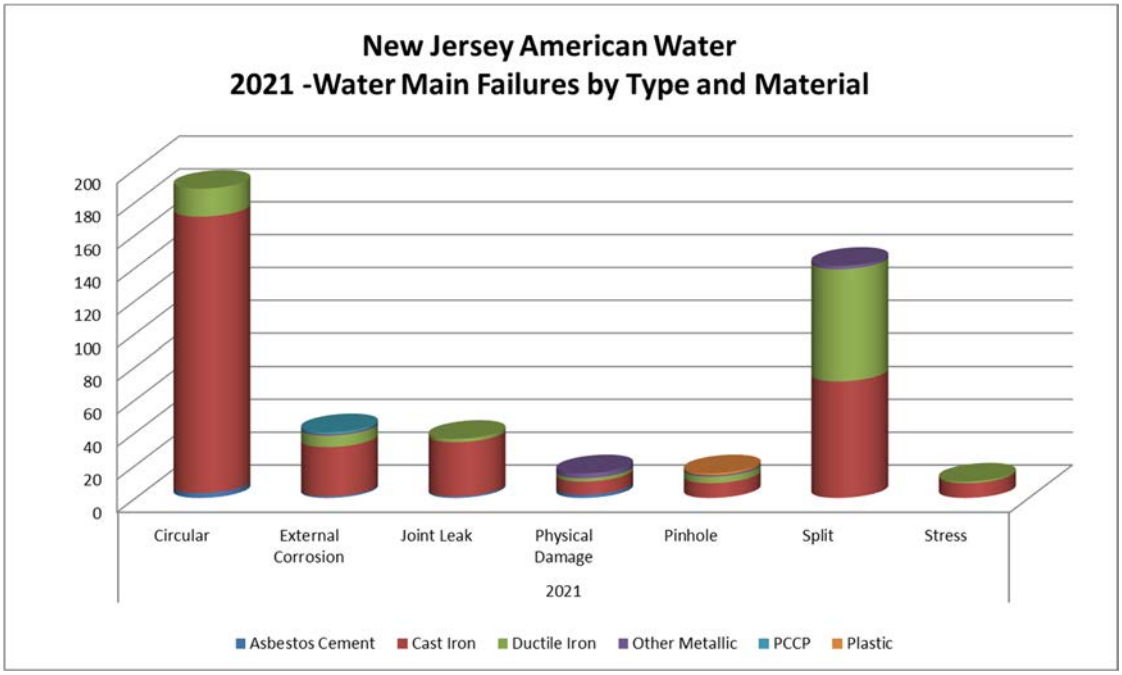
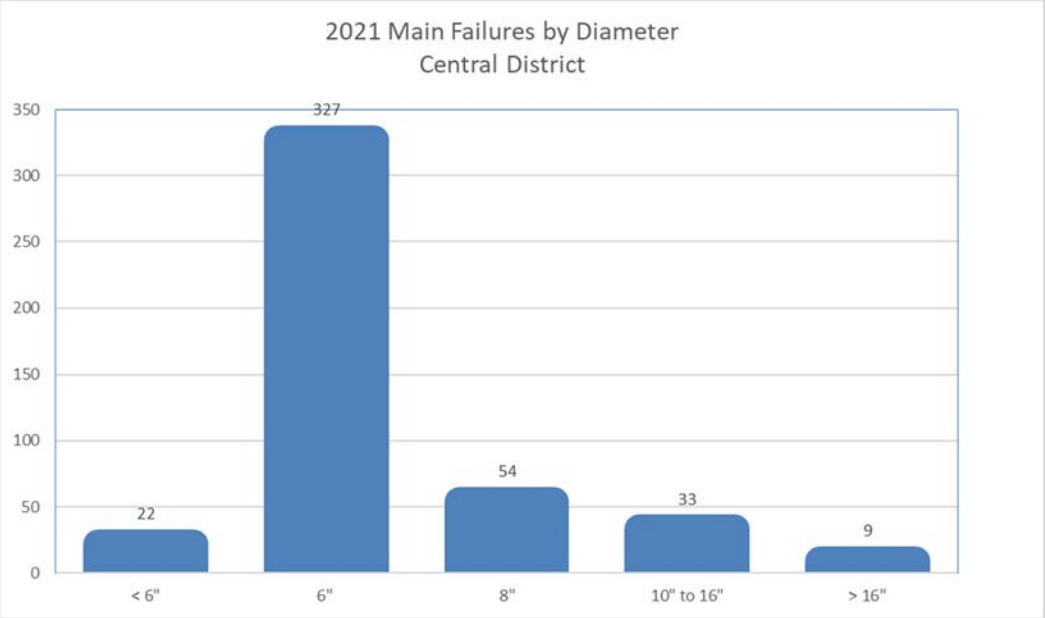


Table 5.2 illustrates the highest break rate frequency (breaks/mile/year) in these systems (primarily the Raritan) occurs on cast iron, and other metallic mains. The majority of main failures are circular breaks in cast iron mains and to a lesser extent split breaks between cast iron and ductile iron mains. The majority of breaks in this operating area occur on cast iron mains that were installed in the first half the 1900's. These mains are targeted for accelerated rehabilitation and replacement in the DSIC program. Circular failures generally result from the settlement of pipe due to erosion of the pipe bedding. The erosion of bedding material can result over time from a pinhole or joint leak on the main. Circular breaks are also noted in increased frequency when there is change in water temperature and attributed to thermal stress within the pipe (typically associated with surface water sources. It should be noted that the split-type breakage is the second most common type of failure and quite significant for the Central Operating Area. Split breaks are caused by longitudinal stresses resulting from higher operating pressure and metal fatigue. Figure 5.2.a shows the majority of the main breaks in the Central Operating Area occur on older cast iron pipe with over 168 (90%) of those breaks attributable to circular failure.

In addition to main breaks, the Central Operating Area receives customer complaints related to discolored water. Cleaning and cement mortar lining has been utilized to rehabilitate unlined cast iron mains that contribute to frequent water quality complaints. This technique can only be used if the mains are found to be structurally sound and of adequate hydraulic capacity after rehabilitation. For example, any mains that

have had a break history in the past are not suitable candidates for cleaning and cement mortar lining, as this rehabilitation method does not add any structural integrity to the mains. NJAWC will investigate projects suitable for structural lining where economically feasible. Valves, hydrants and service connections are replaced during the cleaning and lining rehabilitation projects as these assets have a shorter service life than the mains.

Figure 5.2.b - Summary of Main Failures by Diameter – Central (2021)



5.3 SYSTEM-SPECIFIC ISSUES

The Central Operating Area includes a very large regional water system serving both urban and suburban neighborhoods and two small water systems. The primary distribution system issues in this system are:

(1) Older, urban communities with undersized water mains with high break rates, internal tuberculation and limited fire flow;

(2) Older cast iron mains in many older suburban areas no longer provide the required level of service, have higher break rates and limited fire flow capacity;

(3) Several communities have been identified for NJAWC's rehabilitation program via the Company's cleaning and lining program; these include communities with frequent discolored water complaints and low local fire flows; and

(4) Broken valves.

The rehabilitation program (via cleaning and lining) presented in this Foundational Filing includes renewal of the distribution systems in Garwood, Hillside, Piscataway, North Plainfield, Union, and Westfield. These towns have been identified as prime candidates for non-structural rehabilitation through the cement-mortar cleaning and lining method. The above towns have entire neighborhoods with old, structurally–sound, unlined cast iron mains installed in the earlier 1900's with no history of breaks, but with numerous water quality issues, where cleaning and lining is appropriate and cost-effective. These projects will rehabilitate entire neighborhoods through cleaning and lining of unlined cast iron mains, main replacements, valve and hydrant replacements, and service lateral replacements.

An example of the replacement of mains due to higher break frequency includes the eastern portion of the Central Operating Area, primarily in Linden, Roselle and Roselle Park. These areas consist of old, unlined and brittle cast iron mains that are prone to breaks with even the slightest pressure change. Often, when transfers from other regional systems in the eastern portion of the service area are necessary to maintain services during emergencies or scheduled shutdowns, the break frequency in this portion of the Central Operating Area is noticeably increased. Similarly, the issue of older cast iron mains with a high break rate exists within Princeton Township and Princeton Borough, causing major traffic disruptions and escalated repair costs. Manville also has a significant break history with a large amount of asbestos cement pipe.

A list of DSIC-eligible projects proposed to be completed between 2022 and 2025 is shown in Table 5.5, attached. Most of the projects consist of replacing water mains from the early- to mid-1900's in the water systems in the Central Operating Area.

5.4 INDIVIDUAL SYSTEM DESCRIPTIONS

A. RARITAN WATER SYSTEM (PWSID NJ2004002)

System Description

The Raritan System is a public water system providing water to 48 municipalities in Union, Middlesex, Somerset, Morris, Hunterdon and Mercer Counties, with a combined population of 563,000.

Source of Supply & Production

Approximately 90% of the Raritan System finished water delivered to customers is produced at the Raritan-Millstone WTP and the Canal Road WTP, and 10% is from groundwater from multiple well stations throughout the service area.

Distribution & Storage

The Raritan System is operated with 26 pressure gradients, with storage provided by 40 water storage tanks and approximately 3,200 miles of water mains as shown in Tables 5.4.A.1 and 5.4.A.2, below.

Table 5.4.A.1 - Raritan System Water Mains

Raritan Basin NJ2004002 Miles of Main by Diameter					
	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	0.8	39.8	11.6	1.9	54.1
Cast Iron Lined	2.9	413.3	27.6	28.0	471.8
Cast Iron Unlined	18.9	772.6	31.9	13.7	837.1
Ductile Iron	20.5	1433.3	183.0	67.8	1704.7
Metal	1.0	4.2	2.6	1.0	8.7
Plastic	0.2	3.5	2.4	0.3	6.5
PCCP	0.1	0.4	4.8	136.2	141.4
Total	44.4	2667.1	263.9	249.0	3224.4

Note: Due to rounding, not all the totals will sum.

Table 5.4.A.2 - Raritan System Asset Summary Table

Raritan System PWSID NJ2004002	
Miles of Main	3,224
Hydrants	17,040
Valves	67,746
Service Connections	220,486

B. CROSSROADS AT OLDWICK WATER SYSTEM (PWSID NJ1024001)

System Description

The Crossroads at Oldwick Water System is a public water system providing primarily residential water service to this subdivision located in Tewksberry Township, Hunterdon County.

Source of Supply & Production

The Crossroads at Oldwick obtains its water supply from three groundwater wells drilled into the Kittatinny Formation with a combined permitted capacity of 0.102 mgd.

Distribution & Storage

The distribution system has one pressure zone maintained by one 0.298 MG ground tank, two hydropneumatic tanks, and approximately 1 mile of water mains ranging in size from 6-inch to 12-inch shown in Tables 5.4.B.1 and 5.4.B.2, below.

Table 5.4.B.1 - Crossroads at Oldwick System Water Mains

Crossroads at Oldwick NJ1024001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Ductile Iron		1.3			1.3
Total		1.3			1.3

Table 5.4.B.2 - Crossroads at Oldwick System Asset Summary Table

Cross Roads at Oldwick System PWSID NJ1024001	
Miles of Main	1
Hydrants	11
Valves	22
Service Connections	81

C. FRENCHTOWN WATER SYSTEM (PWSID NJ1011001)

System Description

The Frenchtown System is a public water system providing water service to residential and commercial customers in Frenchtown Borough. This service area is located along the Delaware River, with customers extending to the municipal boundary in Alexandria Township in Hunterdon County.

Source of Supply & Production

The Frenchtown System obtains its water supply from four groundwater wells drilled into the Passaic Aquifer.

Distribution & Storage

The distribution system has two pressure zones: The Main Service zone and High Service zone. There is one storage tank, Ridge Road Reservoir, with a capacity of 0.75 MG, located in the High Service zone. A booster station at the Race Street Station pumps water from the Main Service zone to the High Service zone. There are approximately 7 miles of pipe service in Frenchtown as shown in Tables 5.4.C.1 and 5.4.C.2, below.

Table 5.4.C.1 - Frenchtown System Water Mains

Frenchtown NJ1011001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Cast Iron Lined		0.1	0.0		0.1
Cast Iron Unlined	0.0	0.4	0.0		0.5
Ductile Iron	0.0	5.1	1.3		6.4
Metal	0.0				0.0
Total	0.0	5.6	1.3		6.9

Note: Due to rounding, not all the totals will sum.

Table 5.4.C.2 - Frenchtown System Asset Summary Table

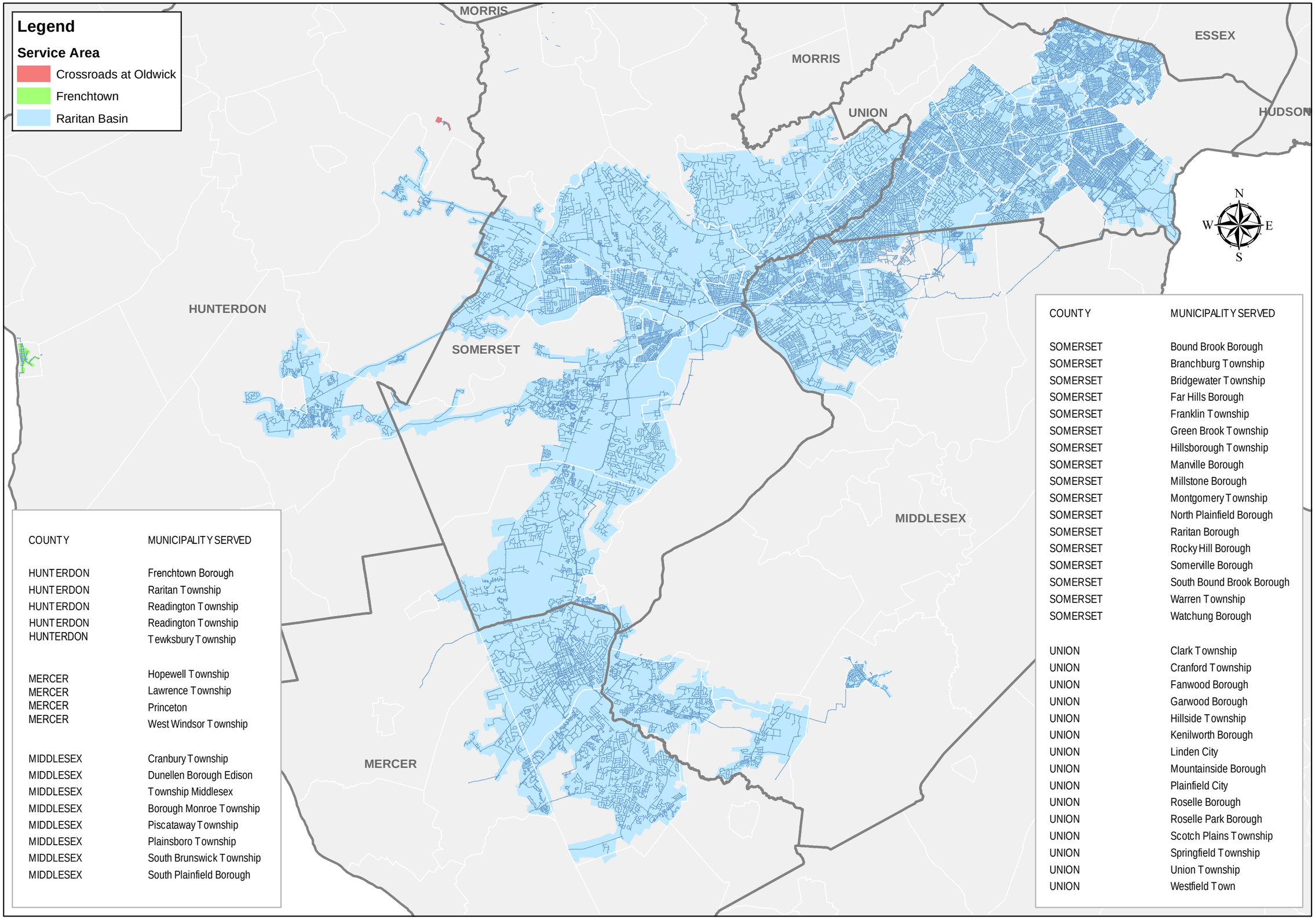
Frenchtown System PWSID NJ1011001	
Miles of Main	7
Hydrants	44
Valves	210
Service Connections	517

5.5 PROPOSED DSIC PROJECTS, FILING 2022-2025

Approximately 590 additional pipeline projects have been identified in the Central Operating Area in need for renewal in this foundational filing, and a total 870 projects when including previously DSIC Foundational Filing identified projects. Approximately, 400 of these projects have been identified as priority projects for the 2022 through 2025 fiscal years, and are described in Table 5.5, attached. The scope and location of the identified projects are presented in this table.

Exhibit 5.1

New Jersey American Water
2022 DSIC Foundational Filing
Central Operating Area



COUNTY	MUNICIPALITY SERVED
HUNTERDON	Frenchtown Borough
HUNTERDON	Raritan Township
HUNTERDON	Readington Township
HUNTERDON	Readington Township
HUNTERDON	Tewksbury Township
MERCER	Hopewell Township
MERCER	Lawrence Township
MERCER	Princeton
MERCER	West Windsor Township
MIDDLESEX	Cranbury Township
MIDDLESEX	Dunellen Borough Edison
MIDDLESEX	Township Middlesex
MIDDLESEX	Borough Monroe Township
MIDDLESEX	Piscataway Township
MIDDLESEX	Plainsboro Township
MIDDLESEX	South Brunswick Township
MIDDLESEX	South Plainfield Borough

COUNTY	MUNICIPALITY SERVED
SOMERSET	Bound Brook Borough
SOMERSET	Branchburg Township
SOMERSET	Bridgewater Township
SOMERSET	Far Hills Borough
SOMERSET	Franklin Township
SOMERSET	Green Brook Township
SOMERSET	Hillsborough Township
SOMERSET	Manville Borough
SOMERSET	Millstone Borough
SOMERSET	Montgomery Township
SOMERSET	North Plainfield Borough
SOMERSET	Raritan Borough
SOMERSET	Rocky Hill Borough
SOMERSET	Somerville Borough
SOMERSET	South Bound Brook Borough
SOMERSET	Warren Township
SOMERSET	Watchung Borough
UNION	Clark Township
UNION	Cranford Township
UNION	Fanwood Borough
UNION	Garwood Borough
UNION	Hillside Township
UNION	Kenilworth Borough
UNION	Linden City
UNION	Mountainside Borough
UNION	Plainfield City
UNION	Roselle Borough
UNION	Roselle Park Borough
UNION	Scotch Plains Township
UNION	Springfield Township
UNION	Union Township
UNION	Westfield Town

NEW JERSEY AMERICAN WATER

2022 Foundational Filing
Table 5.5 - Central Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
69	Central Operating Area	BOUND BROOK BOROUGH	Bound Brook - Vosseller AveFrom Talmadge to Main st.small section of 4" pipe chokes flow to area.	$ 225,000	Replace	259	12.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	30	2025Q4
5791	Central Operating Area	BOUND BROOK BOROUGH	Vossseller Ave Main replacement	$ 200,000	Replace	1976	8.00	Ductile Iron	1950	6	CI	Water Quality	25	2025Q4
7298	Central Operating Area	BOUND BROOK BOROUGH	Daley Pl Main replacement	$ 75,000	Replace	412	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2024Q4
9266	Central Operating Area	BOUND BROOK BOROUGH	Marion St. Main Replacement	$ 120,000	Replace	800	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	365	2022Q4
9267	Central Operating Area	BOUND BROOK BOROUGH	Helfin St. Main Replacement	$ 200,000	Replace	720	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2022Q2
9281	Central Operating Area	BOUND BROOK BOROUGH	Chestnut St. Main Replacement	$ 420,000	Replace	2100	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2025Q4
9293	Central Operating Area	BOUND BROOK BOROUGH	West Maple Ave. Main Replacement	$ 200,000	Replace	1000	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
10676	Central Operating Area	BOUND BROOK BOROUGH	Washington St Main replacment	$ 225,000	Replace	701	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	60	2022Q2
10682	Central Operating Area	BOUND BROOK BOROUGH	Crusader Way Main Replacement	$ 3,000,000	Replace	1649	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2022Q2
10683	Central Operating Area	BOUND BROOK BOROUGH	Carleton St. Main Replacement	$ 350,000	Replace	754	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2022Q4
10835	Central Operating Area	BOUND BROOK BOROUGH	Ross Lane Main replacement	$ 225,000	Replace	717	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2022Q4
10836	Central Operating Area	BOUND BROOK BOROUGH	Farm La Main replacement phase -2	$ 150,000	Replace	843	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2022Q4
10933	Central Operating Area	BOUND BROOK BOROUGH	Mountain Avenue Main Replacement	$ 1,500,000	Replace	9065	8.00	Ductile Iron	1970	16	DI	Safety and Reliability/Structural	120	2023Q2
5779	Central Operating Area	BRIDGEWATER TWP	Finderne ave 16" A/C main replacement	$ 400,000	Replace	994	16.00	Ductile Iron	1950	16	AC	Safety and Reliability/Structural	15	2025Q4
10616	Central Operating Area	BRIDGEWATER TWP	Croyden Rd. main replacement	$ 200,000	Replace	654	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2022Q2
10617	Central Operating Area	BRIDGEWATER TWP	North Bridge St Main Replacement	$ 1,200,000	Replace	3400	12.00	Ductile Iron	1960	8	DI	Safety and Reliability/Structural	90	2024Q4
10675	Central Operating Area	BRIDGEWATER TWP	Buxton Road Main Replacement	$ 800,000	Replace	2720	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2022Q4
9154	Central Operating Area	BRIDGEWATER TWP	Bridgewater - Country Club Road from Garretson Rd to Talamini Rd	$ 1,969,500	Replace	3939	24.00	Ductile Iron	1960	16	CI	Safety and Reliability	90	2024Q4
10615	Central Operating Area	BRIDGEWATER TWP	Rector Rd Main replacement	$ 250,000	Replace	746	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2022Q2
10614	Central Operating Area	BRIDGEWATER TWP	Sherwood Rd. main replacement	$ 815,000	Replace	2715	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2022Q2
10856	Central Operating Area	BRIDGEWATER TWP	Chimney Rock Rd Main Relocation/ Replacement	$ 600,000	Replace	1669	8.00	Ductile Iron	1960	10	CI	Crossing Risk Reduction	60	2022Q2
10889	Central Operating Area	BRIDGEWATER TWP	Cheshire Road Main Replacement	$ 250,000	Replace	717	8.00	Ductile Iron	1960	8	CI	Safety and Reliability	60	2023Q4
10895	Central Operating Area	BRIDGEWATER TWP	Thomas Street Main Replacement	$ 150,000	Replace	415	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	90	2024Q4
10898	Central Operating Area	BRIDGEWATER TWP	Riha Street Main Replacement	$ 300,000	Replace	1304	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	60	2024Q4
10899	Central Operating Area	BRIDGEWATER TWP	Field Street Main Replacement	$ 300,000	Replace	1154	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	60	2024Q4
10905	Central Operating Area	BRIDGEWATER TWP	Manville Boulevard Main Replacement	$ 250,000	Replace	997	8.00	Ductile Iron	1970	6	CI	Looping	120	2025Q4
10906	Central Operating Area	BRIDGEWATER TWP	Newberry Street Main Replacement	$ 300,000	Replace	932	8.00	Ductile Iron	1950	6	CI	Looping	60	2025Q4
9790	Central Operating Area	BRIDGEWATER TWP	Bellcone Rd. Main Replacement	$ 225,000	Replace	920	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2022Q2
9925	Central Operating Area	CLARK TWP	Emerson Rd(Parkway Dr to Valley Rd)	$ 450,000	Replace	1253	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2022Q4
9806	Central Operating Area	CLARK TWP	Raritan Rd(Bridge at Featherbed Ln to Westfield Ave)	$ 475,000	Replace	1754	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2024Q4
9810	Central Operating Area	CLARK TWP	Raritan Rd (Clarkton Dr to Westfield Ave)	$ 300,000	Replace	712	12.00	Ductile Iron	1930	6	CI	System Flows and Pressure	90	2024Q4
9922	Central Operating Area	CLARK TWP	East Ln (West Ln to North Lane)	$ 350,000	Replace	1107	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	10	2024Q4
9923	Central Operating Area	CLARK TWP	Longfellow Lane (East Ln to Dead End)	$ 115,000	Replace	463	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	30	2022Q4
9809	Central Operating Area	CLARK TWP	Hutchinson St (Ruddy Pl and Shady Ln to Dead End)	$ 450,000	Replace	1598	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2024Q4
9921	Central Operating Area	CLARK TWP	West Ln(Blake Dr to Emerson Rd)	$ 350,000	Replace	1193	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	30	2024Q4
10691	Central Operating Area	CLARK TWP	Madison Hill Rd (Winthrop Rd to Doris Way)	$ 300,000	Replace	949	12.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	2024Q4
9877	Central Operating Area	CLARK TWP	Runnymede Rd (between Liberty St and Lupine Way)	$ 300,000	Replace	1200	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2024Q4
9924	Central Operating Area	CLARK TWP	Spruce St(Longfellow Ln to Emerson Rd)	$ 115,400	Replace	455	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	30	2022Q4
9805	Central Operating Area	CLARK TWP	Kenneth Pl(Hutchinson St to Westfield Ave)	$ 350,000	Replace	1201	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2024Q4
9878	Central Operating Area	CLARK TWP	Oleander Way and Ascott Way(Liberty St to Lupine Way)	$ 400,000	Replace	1800	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2024Q4
9914	Central Operating Area	CLARK TWP	Raritan Rd (Lexington Blvd to Gibson Blvd)	$ 140,000	Replace	487	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	30	2022Q4
9920	Central Operating Area	CLARK TWP	Parkway Dr(Highland Pl to West Ln)	$ 350,000	Replace	1704	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2024Q4
9739	Central Operating Area	CLARK TWP	Central Ave RR Crossing Directional Drill	$ 150,000	Replace	803	12.00	HDPE	1920	6	CI	Safety and Reliability/Structural	60	2023Q4
6686	Central Operating Area	CRANFORD TWP	Brookdale Pl. (Brookdale Rd. to Dead End)	$ 56,000	Replace	302	6.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2024Q4
9977	Central Operating Area	CRANFORD TWP	Madison Ave (Arlington Rd to Elizabeth Ave)	$ 215,000	Replace	796	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	150	2025Q4
9637	Central Operating Area	CRANFORD TWP	Cranford Ave (Elizabeth Ave to Dead End)	$ 387,500	Replace	1526	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2025Q4
9969	Central Operating Area	CRANFORD TWP	Ramsgate Rd (Orchard St to Dead End)	$ 200,000	Replace	796	8.00	Ductile Iron	1900	6	CI	System Flows and Pressure	30	2025Q4
9633	Central Operating Area	CRANFORD TWP	Beech St (Makatom Dr to TorbushSt)	$ 382,500	Replace	1279	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2025Q4
9952	Central Operating Area	CRANFORD TWP	Arbor St/ Sutton Pl(Belmont Ave to Orange Ave)	$ 325,000	Replace	1273	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	90	2023Q4
9523	Central Operating Area	CRANFORD TWP	Romore Pl (between Park Dr and Springfield Ave and Dead End)	$ 139,750	Replace	524	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2025Q4
10669	Central Operating Area	CRANFORD TWP	Woodlawn Ave(S Union Ave to Dead End)	$ 145,000	Replace	540	8.00	Ductile Iron	1930	6	CI	Water Quality	60	2025Q4
10678	Central Operating Area	CRANFORD TWP	Hawthorne St(Mansion Ter to Dead End)	$ 310,000	Replace	1155	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
10679	Central Operating Area	CRANFORD TWP	Pine St (Mansion Ter to Dead End)	$ 300,000	Replace	973	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9976	Central Operating Area	CRANFORD TWP	Hamilton Ave (Forest Ave to Elizabeth Ave)	$ 450,000	Replace	1710	8.00	Ductile Iron	1900	6	CI	System Flows and Pressure	60	2025Q4
9636	Central Operating Area	CRANFORD TWP	Cranford Ave (Forest Ave to Elizabeth Ave)	$ 350,000	Replace	1486	8.00	Ductile Iron	1900	6	CI	System Flows and Pressure	60	2025Q4
9640	Central Operating Area	CRANFORD TWP	Roselle Ave (Albany Ave to Dead End)	$ 435,000	Replace	1686	8.00	Ductile Iron	1930	6	CI	Water Quality	14	2025Q4
9639	Central Operating Area	CRANFORD TWP	Bloomingdale Ave(Faitoute Ave to Birchwood Ave)	$ 425,000	Replace	2084	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	10	2025Q4
9634	Central Operating Area	CRANFORD TWP	Claremont Pl(Casino Ave to Riverside Dr)	$ 450,000	Replace	1600	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9971	Central Operating Area	CRANFORD TWP	Prospect Ave (Riverside Ave to Manor Ave)	$ 425,000	Replace	1569	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9975	Central Operating Area	CRANFORD TWP	Sylvester St (Cranford Ave to Hamilton Ave)	$ 180,000	Replace	1124	8.00	Ductile Iron	1900	6	CI	System Flows and Pressure	60	2023Q4
9635	Central Operating Area	CRANFORD TWP	Normandie Pl (Barges Pl to Craig Pl)	$ 325,000	Replace	1176	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2025Q4
9973	Central Operating Area	CRANFORD TWP	Casino Ave (Manor Ave to End)	$ 285,000	Replace	1501	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2023Q4
9970	Central Operating Area	CRANFORD TWP	Woods Hole Rd (Orchard St to Dead End)	$ 300,000	Replace	1130	8.00	Ductile Iron	1960	8	CI	System Flows and Pressure	60	2025Q4
9972	Central Operating Area	CRANFORD TWP	Casino Ave (Riverside Ave to Manor Ave)	$ 400,000	Replace	1049	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9953	Central Operating Area	CRANFORD TWP	Orange Ave (Pacific Ave to Birchwood Ave)	$ 350,000	Replace	1155	12.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9156	Central Operating Area	DUNELLEN BOROUGH	3rd Street (Sanford Ave. to N. Washington Ave/529)	$ 440,000	Replace	2200	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	90	2022Q2

2022 Foundational Filing
Table 5.5 - Central Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
9190	Central Operating Area	DUNELLEN BOROUGH	Madison Ave. (1st Street to Mountain View Terrace)	$ 324,000	Replace	1620	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2022Q2
9155	Central Operating Area	DUNELLEN BOROUGH	Lincoln Ave. (Mountain View Terrace to North Ave)	$ 600,000	Replace	3000	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	90	2022Q2
9168	Central Operating Area	DUNELLEN BOROUGH	Mountain View Terrace (Lincoln Ave. to Terminus)	$ 208,000	Replace	1040	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	60	2022Q2
9189	Central Operating Area	DUNELLEN BOROUGH	N. Washington Ave./ 529 (1st Street to Mountain View Terrace)	$ 404,000	Replace	2020	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	90	2022Q2
9184	Central Operating Area	DUNELLEN BOROUGH	N. Avenue Ext. (Pulaski St. to Bound Brook Rd.)	$ 360,000	Replace	1800	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	60	2022Q2
9188	Central Operating Area	DUNELLEN BOROUGH	Pulaski St. (Bound Brook Rd. to Terminus)	$ 420,000	Replace	1600	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	90	2022Q2
9164	Central Operating Area	DUNELLEN BOROUGH	4th Street (3rd St. to Terminus)	$ 560,000	Replace	2800	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	90	2022Q2
5488	Central Operating Area	FANWOOD	Paterson Rd.(Terrill Rd to Martine Ave)	$ 840,000	Replace	3146	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2024Q4
7004	Central Operating Area	FANWOOD	Forest Rd. (Midway to North)	$ 267,000	Replace	1253	8.00	Ductile Iron	1970	6	CI	System Flows and Pressure	60	2024Q4
7005	Central Operating Area	FANWOOD	Russell Rd. (Midway to North)	$ 400,400	Replace	1911	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2024Q4
7001	Central Operating Area	FANWOOD	Beech Ave. (LaGrande to South)	$ 399,200	Replace	703	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2024Q4
7003	Central Operating Area	FANWOOD	Burns Way (Helen to S. Martine)	$ 312,200	Replace	1425	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2024Q4
7006	Central Operating Area	FANWOOD	Woodland Ave. (N. Martine to Dead end)	$ 422,400	Replace	1978	8.00	Ductile Iron	1970	6	CI	System Flows and Pressure	60	2024Q4
630	Central Operating Area	GARWOOD BOROUGH	Garwood/Cranford Rehab - Ph1a 6,330 LF of 16" main along Clifton & Sycamore Ave	$ 1,481,000	Rehab	6330	16.00	Other				System Flows and Pressure	30	2025Q4
307	Central Operating Area	GARWOOD BOROUGH	Garwood/Cranford Rehab - Ph3 25000 Lf of Distribution mains S of Unami Park	$ 1,875,000	Rehab	25000	6.00	Other				System Flows and Pressure	30	2024Q4
5624	Central Operating Area	HILLSBOROUGH TWP	Johanson Ave from Dukes Pkwy to Taylor Road	$ 715,000	Replace	3875	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	90	2025Q4
5680	Central Operating Area	HILLSBOROUGH TWP	Hawly Road between Taylor Ave and Johanson Ave	$ 140,000	Replace	682	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	45	2025Q4
5678	Central Operating Area	HILLSBOROUGH TWP	Gail Road between Hammler Road and Johanson Ave	$ 120,000	Replace	594	8.00	Ductile Iron	1960	4	AC	Safety and Reliability/Structural	30	2025Q4
5672	Central Operating Area	HILLSBOROUGH TWP	Kimblerly Road from Dukes Pkway to Johanson Ave	$ 200,000	Replace	935	8.00	Ductile Iron	1960	4	AC	Safety and Reliability/Structural	30	2025Q4
5683	Central Operating Area	HILLSBOROUGH TWP	Cul-de-Sac near inter section of Taylor Ave and Johanson Ave	$ 50,000	Replace	226	8.00	Ductile Iron	1960	4	AC	Safety and Reliability/Structural	5	2025Q4
5673	Central Operating Area	HILLSBOROUGH TWP	Hammler Road from Taylor Ave to Claudia Road	$ 320,000	Replace	764	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2025Q4
5687	Central Operating Area	HILLSBOROUGH TWP	Dukes Pkwy from Johanson Ave to Dead End	$ 155,000	Replace	771	8.00	Ductile Iron	1960	10	CI	Safety and Reliability	21	2025Q4
5623	Central Operating Area	HILLSBOROUGH TWP	Taylor Ave from Duke Pkwy to Johanson Ave	$ 515,000	Replace	3280	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	10	2025Q4
5679	Central Operating Area	HILLSBOROUGH TWP	Claudia Road between Taylor Ave and Johanson Ave	$ 160,000	Replace	444	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2025Q4
5686	Central Operating Area	HILLSBOROUGH TWP	Dukes Pkwy between Taylor Ave and Johanson Ave	$ 303,750	Replace	1350	12.00	Ductile Iron				Safety and Reliability	30	2025Q4
6510	Central Operating Area	HILLSIDE	Easement between Bunett St and Glenwood Ave	$ 40,000	Replace	107	12.00	Ductile Iron	1930	6	CI	Water Quality	30	2024Q4
9595	Central Operating Area	HILLSIDE	Herbert Ave (Liberty Ave to Gurd Ave)	$ 130,000	Replace	526	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9597	Central Operating Area	HILLSIDE	Stanley Terr (Hillside Ave to Oakland Ave)	$ 165,000	Replace	637	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9591	Central Operating Area	HILLSIDE	Vorhees St (Conant St to Arthur St)	$ 250,000	Replace	1014	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9599	Central Operating Area	HILLSIDE	Oakland Ter (Liberty Ave to Maple Ave)	$ 425,000	Replace	2363	8.00	Ductile Iron	1980	16	DI	System Flows and Pressure	60	2025Q4
9583	Central Operating Area	HILLSIDE	Yale Ave (Bloy St. to New York Pl)	$ 355,000	Replace	1401	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9758	Central Operating Area	HILLSIDE	Hillside Main Cleaning and Lining West of Evergreen Cemetary	$ 2,300,000	Rehab	11150	6.00	Other	1920	6	CI	System Flows and Pressure	120	2024Q3
9585	Central Operating Area	HILLSIDE	Princeton Ave (Bloy St to Liberty Ave)	$ 350,000	Replace	1266	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9587	Central Operating Area	HILLSIDE	Columbia Ave (Bloy St to Columbia Ave)	$ 190,000	Replace	757	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9605	Central Operating Area	HILLSIDE	Dorer Ave (Liberty Ave to Maple Ave)	$ 430,000	Replace	1616	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2025Q4
9514	Central Operating Area	HILLSIDE	Long Ave(Central Ave to Pennsylvania Ave)	$ 161,250	Replace	677	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9600	Central Operating Area	HILLSIDE	Belleview Terr (Liberty Ave to Maple Ave)	$ 430,000	Replace	1689	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9607	Central Operating Area	HILLSIDE	Conklin Ave (Summit to Maple Ave)	$ 435,000	Replace	1715	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2025Q4
9588	Central Operating Area	HILLSIDE	Columbia Pl (Bloy St to Dead End)	$ 115,000	Replace	411	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	30	2025Q4
6476	Central Operating Area	JAMESBURG	Walnut Street from Pergola Ave to dead end	$ 105,000	Replace	486	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2024Q4
6429	Central Operating Area	JAMESBURG	Cedar Lane from Maple Dr to Birchwood Road	$ 80,000	Replace	373	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2025Q3
6468	Central Operating Area	JAMESBURG	Front Street in between Oakland Road and Gatzmer Ave	$ 190,000	Replace	950	8.00	Ductile Iron				Safety and Reliability/Structural	8	2024Q4
6471	Central Operating Area	JAMESBURG	Hillside Ave from Front Street to Divison Ave	$ 163,000	Replace	232	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	10	2023Q4
6426	Central Operating Area	JAMESBURG	Half Acre Rd from Forsgate Dr to Fernwood Lane	$ 483,750	Replace	3009	12.00	Ductile Iron	1960	8	AC	Safety and Reliability/Structural	30	2024Q4
6427	Central Operating Area	JAMESBURG	Maple Dr from Half Acre Rd to Forsgate Dr	$ 235,000	Replace	1175	8.00	Ductile Iron				Safety and Reliability/Structural	30	2025Q1
6484	Central Operating Area	JAMESBURG	Grace Hill Road from Buckelew Ave to dead end	$ 175,000	Replace	823	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2023Q4
6428	Central Operating Area	JAMESBURG	Birchwood Road from Maple Dr to dead end	$ 175,000	Replace	1037	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2023Q4
6485	Central Operating Area	JAMESBURG	Travis Ct from Little Brook Lane to dead end	$ 75,000	Replace	252	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	100	2023Q4
6472	Central Operating Area	JAMESBURG	Hillside Ave from Davison Ave to Gatzmer Ave	$ 150,000	Replace	790	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2022Q2
6475	Central Operating Area	JAMESBURG	Forge Street from Pergola Ave to dead end	$ 38,000	Replace	164	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2024Q4
6483	Central Operating Area	JAMESBURG	Little Brook Lane from Buckelew Ave to Grace Hill Road	$ 320,000	Replace	1631	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	12	2023Q4
6432	Central Operating Area	JAMESBURG	Oakland Road from Half Acre Rd to Forsgate Drive	$ 300,000	Replace	1787	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2025Q4
6430	Central Operating Area	JAMESBURG	Fernwood Lane from Half Acre Rd to Maple Drive	$ 160,000	Replace	800	8.00	Ductile Iron				Safety and Reliability/Structural	60	2025Q4
6470	Central Operating Area	JAMESBURG	West Church Street from Davison Ave to Gatzmer Ave	$ 65,000	Replace	277	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2022Q2
6477	Central Operating Area	JAMESBURG	Buckelew Ave from Valve # VJB-346 to dead end	$ 580,000	Replace	3452	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	45	2023Q4
5724	Central Operating Area	JAMESBURG	Rhode Hill Rd. main replacement	$ 250,000	Replace	936	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2023Q4
7622	Central Operating Area	JAMESBURG	East /West Rail Road Ave Main tie in	$ 250,000	Replace	321	12.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q4

2022 Foundational Filing
Table 5.5 - Central Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
6469	Central Operating Area	JAMESBURG	Davison Ave from Hillside Ave to West Church Street	$ 310,000	Replace	381	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2024Q4
6424	Central Operating Area	JAMESBURG	Forsgate Dr from Maple Dr to East Rail Road Ave	$ 630,000	Replace	2698	12.00	Ductile Iron	1960	8	AC	Safety and Reliability/Structural	15	2024Q4
10896	Central Operating Area	JAMESBURG	Forsgate Drive Main Replacement Phase 1	$ 500,000	Replace	2313	8.00	Ductile Iron	1960	8	AC	Safety and Reliability	90	2023Q4
10897	Central Operating Area	JAMESBURG	Hillside Avenue Main Replacement PART 2	$ 300,000	Replace	790	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	60	2023Q4
10907	Central Operating Area	JAMESBURG	Mill Road Main Replacement	$ 250,000	Replace	860	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	60	2022Q2
6445	Central Operating Area	JAMESBURG	Woodland Road from Half Acre Road to Forsgate Drive	$ 335,000	Replace	544	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2024Q4
9339	Central Operating Area	LINDEN CITY	Harvard Rd. (Summit to Wood)	$ 253,270	Replace	1146	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	90	2022Q4
9151	Central Operating Area	LINDEN CITY	Gesner St(between N. Wood Ave to Laurita St.)	$ 520,300	Replace	2420	8.00	Ductile Iron		6	CI	Water Quality	90	2025Q4
9344	Central Operating Area	LINDEN CITY	McKinley St. (Mildred to Dill)	$ 112,445	Replace	519	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9150	Central Operating Area	LINDEN CITY	Orchard Ter.(between W. St. George Ave to Gesner St)	$ 136,525	Replace	652	8.00	Ductile Iron		6	CI	System Flows and Pressure	60	2023Q4
9199	Central Operating Area	LINDEN CITY	W Elizabeth Ave (between N Stiles St to N Wood Ave)	$ 690,000	Replace	2300	12.00	Ductile Iron	1930	6	CI	System Flows and Pressure	90	2024Q4
9348	Central Operating Area	LINDEN CITY	Ercama St. (St. George to W. Curtis)	$ 286,165	Replace	1441	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9181	Central Operating Area	LINDEN CITY	W Price St (Between Donaldson Pl and Lumber St)	$ 213,925	Replace	995	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	45	2023Q4
9338	Central Operating Area	LINDEN CITY	Princeton Rd. (Lenape to Sunnyfield)	$ 413,445	Replace	1922	8.00	Ductile Iron	1960	2	CI	System Flows and Pressure	30	2024Q4
7022	Central Operating Area	LINDEN CITY	Brunswick Ave. (Park to Morses Mill) Bayway Refinery	$ 720,000	Replace	3480	12.00	Ductile Iron	2000	12	CI	System Flows and Pressure	30	2025Q4
9145	Central Operating Area	LINDEN CITY	Miltonia St (between W. St. Georges Ave to W. Gibbons St.	$ 187,050	Replace	870	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2024Q4
9345	Central Operating Area	LINDEN CITY	Bernard Ave. (St. George to Mildred)	$ 260,580	Replace	1211	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9340	Central Operating Area	LINDEN CITY	Yale Terr. (Summit to Wood)	$ 239,940	Replace	1123	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2022Q4
9337	Central Operating Area	LINDEN CITY	Knopf St. (Spruce to Stiles)	$ 266,385	Replace	1227	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2024Q4
9177	Central Operating Area	LINDEN CITY	Helen St (between W. Elm St and W Blancke St)	$ 191,135	Replace	889	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2024Q4
9383	Central Operating Area	LINDEN CITY	Caroline Ave. (Garfield to Park)	$ 211,560	Replace	994	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2023Q4
9380	Central Operating Area	LINDEN CITY	E. Gibbons St. (N. Wood to Washington)	$ 228,115	Replace	1067	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9643	Central Operating Area	LINDEN CITY	Harrison Pl (between E. Blancke St and E. Henry St)	$ 240,000	Replace	952	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	20	2023Q4
9158	Central Operating Area	LINDEN CITY	W. Henry St (between N Stiles St and N Wood Ave)	$ 696,600	Replace	3240	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2025Q4
9644	Central Operating Area	LINDEN CITY	Roselle St (between St Georges and Pennsylvania Ave)	$ 1,175,000	Replace	4262	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	120	2024Q4
9341	Central Operating Area	LINDEN CITY	Ingalls Ave. (Alexander to Park)	$ 175,655	Replace	771	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9228	Central Operating Area	LINDEN CITY	Middlesex St(W Baltimore to Maple Ave)	$ 586,950	Replace	4300	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	120	2023Q4
9387	Central Operating Area	LINDEN CITY	2nd Ave. (Walnut to Wheatsheaf)	$ 86,860	Replace	284	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9690	Central Operating Area	LINDEN CITY	W Edgar Rd 36" (Smith St to E Lincoln Ave in Rahway)	$ 3,240,000	Replace	3432	36.00	Ductile Iron	2000	36	CEM	Safety and Reliability	15	2023Q4
10009	Central Operating Area	LINDEN CITY	4th ave (Clark St to Wheatsheaf Rd)	$ 175,000	Replace	684	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9229	Central Operating Area	LINDEN CITY	E. Henry St. (N. Wood Ave to Carnegie St)	$ 972,875	Replace	7754	8.00	Ductile Iron		6	CI	System Flows and Pressure	120	2023Q4
9336	Central Operating Area	LINDEN CITY	Miltonia St. (From W. Curtis to Stiles)	$ 446,555	Replace	2163	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	10	2024Q4
10079	Central Operating Area	LINDEN CITY	Tremley Point Rd Loop Phase 5	$ 1,300,000	Replace	3066	16.00	PVC	1960	12	CI	System Flows and Pressure	90	2023Q2
9910	Central Operating Area	LINDEN CITY	Walnut St(St Georges Ave to 733 Walnut St)	$ 400,000	Replace	1497	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
10010	Central Operating Area	LINDEN CITY	Wheatsheaf Rd (St Georges Ave to Washington Ave)	$ 275,000	Replace	1102	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9144	Central Operating Area	LINDEN CITY	Laurita St(between W St. George Ave and W. gibbons St)	$ 175,225	Replace	815	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2024Q4
10866	Central Operating Area	LINDEN CITY	W Price St	$ 665,000	Replace	1400	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	120	2022Q4
9342	Central Operating Area	LINDEN CITY	Adams St. (St. George to Caroline)	$ 178,450	Replace	824	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9200	Central Operating Area	LINDEN CITY	Wood Ave (between St George Ave and Amsterdam Ave)	$ 1,980,000	Replace	6600	12.00	Ductile Iron	1970	6	CI	System Flows and Pressure	120	2024Q4
9213	Central Operating Area	LINDEN CITY	Carnegie St (between Middlesex St to Penn Ave)	$ 569,750	Replace	2785	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2024Q4
9349	Central Operating Area	LINDEN CITY	Keep St. (St. George to W. Curtis)	$ 296,485	Replace	1385	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9388	Central Operating Area	LINDEN CITY	1st Ave. (Walnut to Wheatsheaf)	$ 100,835	Replace	467	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2023Q4
9458	Central Operating Area	LINDEN CITY	Brook St. (W. Curtis to W. Blancke)	$ 402,480	Replace	1951	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2024Q4
9613	Central Operating Area	LINDEN CITY	PSEG ROW Main replacement along railroad(from Kohler inter south to the new hot box)	$ 1,500,000	Replace	5185	12.00	PVC	2000	10	DI	Safety and Reliability/Structural	120	2024Q4
9911	Central Operating Area	LINDEN CITY	Washington Ave(E Curtis St to St Georges Ave)	$ 425,000	Replace	1629	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9343	Central Operating Area	LINDEN CITY	Alexander Ave. (St. George to Dill)	$ 120,185	Replace	703	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9346	Central Operating Area	LINDEN CITY	Garfield St. (St George to Pennsylvania)	$ 436,450	Replace	1993	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9689	Central Operating Area	LINDEN CITY	Pleasant St 36"(Smith Street to S Stiles St)	$ 2,700,000	Replace	3000	36.00	Ductile Iron	2000	36	CEM	Safety and Reliability	90	2023Q4
9233	Central Operating Area	MANVILLE BOROUGH	South 12th Ave Main Replacement	$ 350,000	Replace	1453	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
9232	Central Operating Area	MANVILLE BOROUGH	South 10th Avenue main replacement	$ 350,000	Replace	1477	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
6577	Central Operating Area	MANVILLE BOROUGH	Huff Ave @ Bridge St	$ 50,000	Replace	300	8.00	Ductile Iron				Safety and Reliability	30	2024Q4
10123	Central Operating Area	MANVILLE BOROUGH	West Frech Ave / Engle Pl main replacement	$ 450,000	Replace	3508	8.00	Ductile Iron	1950	6	AC	Safety and Reliability	90	2022Q2
10260	Central Operating Area	MANVILLE BOROUGH	North 14th Ave Main replacement	$ 250,000	Replace	667	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	60	2022Q2
9234	Central Operating Area	MANVILLE BOROUGH	South 11th Street Main replacement	$ 400,000	Replace	2079	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	20	2024Q4
10124	Central Operating Area	MANVILLE BOROUGH	Dominic Street Main Replacement	$ 400,000	Replace	1300	8.00	Ductile Iron	1950	6	AC	System Flows and Pressure	60	2024Q4
9194	Central Operating Area	MANVILLE BOROUGH	South 7th Street Main Replacement	$ 400,000	Replace	1722	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	25	2024Q4
10875	Central Operating Area	MANVILLE BOROUGH	North 15th Ave Main replacement	$ 250,000	Replace	743	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	60	2022Q2
10880	Central Operating Area	MANVILLE BOROUGH	North 16th Avenue Main Replacement	$ 300,000	Replace	1100	8.00	Ductile Iron	1960	6	AC	Water Quality	60	2023Q4
10881	Central Operating Area	MANVILLE BOROUGH	North 17th Avenue Main Replacement	$ 300,000	Replace	1100	8.00	Ductile Iron	1960	6	AC	Looping	60	2023Q4
10886	Central Operating Area	MANVILLE BOROUGH	North 18th Avenue Main Replacement	$ 300,000	Replace	1320	8.00	Ductile Iron	1960	6	AC	Looping	60	2023Q4
10888	Central Operating Area	MANVILLE BOROUGH	North 20th Avenue Main Replacement	$ 300,000	Replace	1363	8.00	Ductile Iron	1960	6	AC	Looping	60	2023Q4

2022 Foundational Filing
Table 5.5 - Central Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
10892	Central Operating Area	MANVILLE BOROUGH	North 21st Avenue Main Replacement	$ 100,000	Replace	276	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	30	2024Q4
10904	Central Operating Area	MANVILLE BOROUGH	Kennedy Boulevard Main Replacement	$ 750,000	Replace	5428	12.00	Ductile Iron	1960	6	AC	Safety and Reliability	30	2022Q4
10316	Central Operating Area	MANVILLE BOROUGH	North 12th St Main replacement	$ 200,000	Replace	593	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	60	2023Q4
10925	Central Operating Area	MANVILLE BOROUGH	North Main Street Main Replacement - Dukes Pkwy E to Brooks Boulevard	$ 500,000	Replace	1708	12.00	Ductile Iron	2010	8	DI	Safety and Reliability	60	2022Q4
10926	Central Operating Area	MANVILLE BOROUGH	South Main Street Main Replacement - South Street to Camplain Road	$ 500,000	Replace	2579	12.00	Ductile Iron	2020	8	DI	Safety and Reliability/Structural	90	2022Q3
10927	Central Operating Area	MANVILLE BOROUGH	South Main Street Main Replacement - Camplain Road to Roosevelt Avenue	$ 500,000	Replace	2062	12.00	Ductile Iron	2010	8	DI	Safety and Reliability/Structural	90	2022Q3
9179	Central Operating Area	MANVILLE BOROUGH	South 13 Ave Main replacement	$ 300,000	Replace	1157	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
10315	Central Operating Area	MANVILLE BOROUGH	North 13th Ave main replacement	$ 300,000	Replace	843	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	60	2023Q4
9415	Central Operating Area	MIDDLESEX BOROUGH	Ashland Rd. From Lincoln Blvd. to A Street	$ 564,000	Replace	2917	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
9412	Central Operating Area	MIDDLESEX BOROUGH	Mead Ave. & Center Place. From Seneca Ave. to Mead Ave.	$ 308,000	Replace	1540	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2024Q4
9462	Central Operating Area	MIDDLESEX BOROUGH	E. Wilson St. (Dayton to Dead End)	$ 57,835	Replace	269	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	30	2023Q4
9407	Central Operating Area	MIDDLESEX BOROUGH	Greene Ave. From Union Ave. to Osceola Ave.	$ 268,000	Replace	1340	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2022Q4
9416	Central Operating Area	MIDDLESEX BOROUGH	Oswego Ave. From George Ave. to Oak Dr.	$ 84,000	Replace	420	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2024Q4
9466	Central Operating Area	MIDDLESEX BOROUGH	Wilson St.	$ 205,970	Replace	959	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2024Q4
9404	Central Operating Area	MIDDLESEX BOROUGH	Fairview Ave. From Union Ave to Seneca Ave.	$ 540,000	Replace	2723	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2022Q4
9406	Central Operating Area	MIDDLESEX BOROUGH	Melrose Ave. From Union Ave. to Seneca Ave.	$ 600,000	Replace	3000	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2022Q4
9463	Central Operating Area	MIDDLESEX BOROUGH	Washington Ave. (June Way to Bound Brook Rd.)	$ 343,355	Replace	1598	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2024Q4
9408	Central Operating Area	MIDDLESEX BOROUGH	Delaware Ave. From Greene Ave. to Clinton Ave.	$ 180,000	Replace	900	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2022Q4
9420	Central Operating Area	MIDDLESEX BOROUGH	A Street From Lincoln Blvd. to Ashland Rd.	$ 288,000	Replace	1440	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	60	2022Q4
9230	Central Operating Area	MIDDLESEX BOROUGH	Beechwood Rd/Orchard Rd(between Ambrose to Lydecker Pl)	$ 586,950	Replace	2730	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	90	2024Q4
9414	Central Operating Area	MIDDLESEX BOROUGH	George Ave. From Lincoln Blvd. to Oak Dr.	$ 300,000	Replace	1500	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2024Q4
9421	Central Operating Area	MIDDLESEX BOROUGH	C Street. From Lincoln Blvd. to Ashland Rd.	$ 632,000	Replace	3160	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	120	2022Q4
9419	Central Operating Area	MIDDLESEX BOROUGH	D Street. From Lincoln Blvd. to Ashland Rd.	$ 304,000	Replace	1520	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	60	2022Q4
9417	Central Operating Area	MIDDLESEX BOROUGH	Greenlawn Ave. From George Ave. to Oak Dr.	$ 80,000	Replace	400	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2024Q4
9870	Central Operating Area	MIDDLESEX BOROUGH	Factory Lane(River Rd to Baekeland Ave)	$ 1,450,000	Replace	4744	12.00	Ductile Iron	1950	48	CEM	System Flows and Pressure	120	2023Q4
9413	Central Operating Area	MIDDLESEX BOROUGH	Oak Dr. From Lincoln Blvd. to Ashland Rd.	$ 720,000	Replace	3600	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
9418	Central Operating Area	MIDDLESEX BOROUGH	F Street From Chestnut St. to Ashland Rd.	$ 80,000	Replace	400	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2024Q4
9411	Central Operating Area	MIDDLESEX BOROUGH	Seneca Ave. From Melrose Ave. to Pierrepont Ave.	$ 380,000	Replace	1891	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2024Q4
9410	Central Operating Area	MIDDLESEX BOROUGH	East Greenlawn Ave. From Melrose Ave. to Woodland Ave. South.	$ 200,000	Replace	1000	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2022Q4
9573	Central Operating Area	MOUNTAINSIDE BOROUGH	Bechwood Ct (Long Meadows to Dead End)	$ 106,250	Replace	423	8.00	Ductile Iron	1960	6	DI	Safety and Reliability	30	2024Q4
9836	Central Operating Area	MOUNTAINSIDE BOROUGH	Summit Rd (Maple Ct to Rt 22)	$ 525,000	Replace	1822	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2024Q4
9872	Central Operating Area	MOUNTAINSIDE BOROUGH	Briar Patch(Wood Valley Rd to Dead End)	$ 120,000	Replace	482	6.00	Ductile Iron	1940	2	CI	System Flows and Pressure	30	2024Q4
9849	Central Operating Area	MOUNTAINSIDE BOROUGH	Locust Ave(between Rt 22 to Dead End)	$ 200,000	Replace	735	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2024Q4
10037	Central Operating Area	NORTH PLAINFIELD BOROUGH	Regent Dr (Whitewood Ave to Watchung Ave)	$ 165,000	Replace	648	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	60	2023Q4
9934	Central Operating Area	NORTH PLAINFIELD BOROUGH	Pearl St (Brook Ave to Somerset St0	$ 350,000	Replace	1063	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2023Q4
10033	Central Operating Area	NORTH PLAINFIELD BOROUGH	Whitewood Ave (Coddington Ave to Mountain Ave)	$ 180,000	Replace	677	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	60	2023Q4
10032	Central Operating Area	NORTH PLAINFIELD BOROUGH	Mountain Ave(Norwood Ave to Somerset St)	$ 675,000	Replace	2320	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	90	2023Q4
10031	Central Operating Area	NORTH PLAINFIELD BOROUGH	Forestbrook Dr (Delacy Dr to North Dr)	$ 155,000	Replace	905	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2023Q4
10038	Central Operating Area	NORTH PLAINFIELD BOROUGH	Belmont Ave (Mountain Ave to Brook Ave)	$ 500,000	Replace	2529	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	90	2023Q4
10040	Central Operating Area	NORTH PLAINFIELD BOROUGH	Oneida Pl (Oneida Ave to Dead End)	$ 180,000	Replace	691	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9937	Central Operating Area	NORTH PLAINFIELD BOROUGH	Harrison Ave (Route 22 to Greenbrook Rd)	$ 450,000	Replace	1737	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	60	2023Q4
9940	Central Operating Area	NORTH PLAINFIELD BOROUGH	Oneida Ave (Mobus Ave to Brook Ave)	$ 425,000	Replace	997	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9071	Central Operating Area	NORTH PLAINFIELD BOROUGH	Route 22 West., (Rock Ave., Greenbrook to Terrill Rd., Watchung)	$ 7,946,800	Replace	19867	16.00	Ductile Iron	1980	12	DI	System Flows and Pressure	60	2024Q4
10314	Central Operating Area	NORTH PLAINFIELD BOROUGH	North Plainfield Cleaning and Lining between Watchung Ave and Sanford Ave	$ 3,700,000	Rehab	16464	6.00	Other	1910	6	CI	Water Quality	60	2025Q4
10034	Central Operating Area	NORTH PLAINFIELD BOROUGH	Watchung Ave (Rt 22 to Regent St)	$ 205,000	Replace	680	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	15	2023Q4
9517	Central Operating Area	NORTH PLAINFIELD BOROUGH	Sweetbriar Ln	$ 73,100	Replace	336	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	30	2023Q4
10042	Central Operating Area	NORTH PLAINFIELD BOROUGH	Brook Ave (Meadowbrook Rd to Farragut Rd)	$ 155,000	Replace	616	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	60	2023Q4
9936	Central Operating Area	NORTH PLAINFIELD BOROUGH	Jefferson Ave (Route 22 to Hydrant HNOR-343)	$ 210,000	Replace	835	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	60	2023Q4
10036	Central Operating Area	NORTH PLAINFIELD BOROUGH	Somerset St (Rt 22 to Regent St)	$ 282,000	Replace	730	12.00	Ductile Iron	1920	12	CI	System Flows and Pressure	60	2023Q4
10041	Central Operating Area	NORTH PLAINFIELD BOROUGH	MeadowBrook Rd (Brook Ave to Dead End)	$ 245,000	Replace	909	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2023Q4
9518	Central Operating Area	NORTH PLAINFIELD BOROUGH	Belmont Ave/Leonard Pl	$ 274,125	Replace	1277	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9935	Central Operating Area	NORTH PLAINFIELD BOROUGH	Race St (Watchung Ave to Somerset St)	$ 180,000	Replace	422	8.00	Ductile Iron	1970	4	CI	Safety and Reliability	30	2023Q4
10035	Central Operating Area	NORTH PLAINFIELD BOROUGH	Coddington Ave (Somerset St to Terminus)	$ 375,000	Replace	1418	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	60	2023Q4
9939	Central Operating Area	NORTH PLAINFIELD BOROUGH	Grove St (Route 22 to Interhaven Ave)	$ 300,000	Replace	1015	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2023Q4
10039	Central Operating Area	NORTH PLAINFIELD BOROUGH	Sanford Ave (Mountain Ave to Brook Ave)	$ 575,000	Replace	2201	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	90	2023Q4
10297	Central Operating Area	PISCATAWAY TWP	Piscataway Main Cleaning and Lining	$ 3,692,000	Rehab	16801	6.00	Other	1790	6	CI	Water Quality	60	2023Q4
9775	Central Operating Area	PISCATAWAY TWP	60 inch at 2 Turner Pl Slip Line	$ 1,000,000	Replace	200	48.00	Ductile Iron	1960	60	DI	Safety and Reliability/Structural	30	2022Q4
10133	Central Operating Area	PISCATAWAY TWP	Old New Brunswick Rd (Centennial Rd to Hydrant HPIS-672)	$ 280,000	Replace	1294	12.00	Ductile Iron	1960	12	DI	System Flows and Pressure	60	2023Q4
9967	Central Operating Area	PLAINFIELD CITY	Mariners Pl (Myrtle Ave to W. Front St)	$ 187,500	Replace	720	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	120	2022Q4
9961	Central Operating Area	PLAINFIELD CITY	Rushmore Ave (S 2nd St to W 3rd St)	$ 150,000	Replace	589	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	60	2022Q4
9962	Central Operating Area	PLAINFIELD CITY	Evona Ave (W 3rd St to township line)	$ 290,000	Replace	1024	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	60	2022Q4
9966	Central Operating Area	PLAINFIELD CITY	Albert St (Myrtle Ave to W Front St)	$ 187,500	Replace	694	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	30	2022Q4
9959	Central Operating Area	PLAINFIELD CITY	S 2nd St (Clinton Ave to Rock Ave)	$ 700,000	Replace	2727	8.00	Ductile Iron	1900	8	CI	System Flows and Pressure	90	2022Q4
9472	Central Operating Area	PLAINFIELD CITY	Lee Street (S.2nd Street-W.4th Street)	$ 255,000	Replace	968	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	60	2022Q4

2022 Foundational Filing
Table 5.5 - Central Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
9968	Central Operating Area	PLAINFIELD CITY	Emma St (Myrtle Ave to W Front St)	$ 190,000	Replace	723	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	15	2022Q4
10247	Central Operating Area	PLAINSBORO TWP	Rt @ Forrestal Rd replacement	$ 300,000	Replace	158	16.00	Ductile Iron	2000	16	ST	Safety and Reliability/Structural	30	2025Q4
79	Central Operating Area	PRINCETON BOROUGH	Princeton Boro - Elm RoadHodge to 206Main Breaks	$ 432,000	Replace	2378	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	90	2025Q4
9395	Central Operating Area	PRINCETON BOROUGH	Fitzraldolph Rd. Main Replacement	$ 128,000	Replace	640	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
9402	Central Operating Area	PRINCETON BOROUGH	Greenholm St. Main Replacement	$ 140,000	Replace	700	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2023Q1
9724	Central Operating Area	PRINCETON BOROUGH	RT 27 (Nassau St) phase -3	$ 1,500,000	Replace	1800	12.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q3
9397	Central Operating Area	PRINCETON BOROUGH	Robert Rd. Main Replacement	$ 248,000	Replace	1240	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	45	2025Q4
9712	Central Operating Area	PRINCETON BOROUGH	Rt 27 (Nassau St) main replacement	$ 1,500,000	Replace	1981	12.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9396	Central Operating Area	PRINCETON BOROUGH	Prospect Ave. Main Replacement	$ 220,000	Replace	1100	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9403	Central Operating Area	PRINCETON BOROUGH	Aiken Ave. Main Replacement	$ 144,000	Replace	720	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
83	Central Operating Area	PRINCETON TWP	Princeton Township - RidgeView RoadGreat Road to Cherry Hill Road	$ 1,026,000	Replace	3923	12.00	Ductile Iron	1980	12	DI	Safety and Reliability/Structural	90	2025Q4
19	Central Operating Area	PRINCETON TWP	Princeton - Nassau Street from Harrisson	$ 1,500,000	Replace	7781	12.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2023Q4
9365	Central Operating Area	PRINCETON TWP	Dorann Ave. Main Replacement	$ 180,000	Replace	900	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9394	Central Operating Area	PRINCETON TWP	Riverside Dr. East Main Replacement	$ 300,000	Replace	1500	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9373	Central Operating Area	PRINCETON TWP	Leigh Ave. Main Replacement	$ 120,000	Replace	600	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
9381	Central Operating Area	PRINCETON TWP	King St. Main Replacement	$ 104,000	Replace	520	8.00	Ductile Iron	1920	3	CI	Safety and Reliability/Structural	60	2025Q4
9374	Central Operating Area	PRINCETON TWP	Western Way Main Replacement	$ 204,000	Replace	1020	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9359	Central Operating Area	PRINCETON TWP	Loomis Ct. Main Replacement	$ 104,000	Replace	520	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2024Q4
9361	Central Operating Area	PRINCETON TWP	Walnut Ln. Main Replacement	$ 148,000	Replace	720	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9375	Central Operating Area	PRINCETON TWP	Southern Way Main Replacement	$ 200,000	Replace	1000	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9372	Central Operating Area	PRINCETON TWP	Birch Ave. Main Replacment	$ 340,000	Replace	1744	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
9376	Central Operating Area	PRINCETON TWP	Cedar Ln. Main Replacement	$ 188,000	Replace	940	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9385	Central Operating Area	PRINCETON TWP	Marshall Ave. Main Replacement	$ 124,000	Replace	620	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2025Q4
9363	Central Operating Area	PRINCETON TWP	Harrison St. North Main Replacement	$ 420,000	Replace	2039	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	90	2025Q4
9370	Central Operating Area	PRINCETON TWP	Monroe Ln. Main Replacement	$ 188,000	Replace	930	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2022Q2
10701	Central Operating Area	PRINCETON TWP	Wheatssheaf Lane Main Replacement	$ 300,000	Replace	946	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2022Q2
9371	Central Operating Area	PRINCETON TWP	Terhune Rd. Main Replacement	$ 500,000	Replace	2500	8.00	Ductile Iron	1920	8	CI	Safety and Reliability/Structural	90	2023Q4
9369	Central Operating Area	PRINCETON TWP	Randall Rd. Main Replacement	$ 360,000	Replace	1800	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
10882	Central Operating Area	PRINCETON TWP	Dodds Lane Main Replacement	$ 1,000,000	Replace	5482	8.00	Ductile Iron	1920	8	CI	Safety and Reliability	120	2022Q4
9382	Central Operating Area	PRINCETON TWP	Eisenhower St. Main Replacement	$ 52,000	Replace	460	8.00	Ductile Iron	1920	3	CI	Safety and Reliability/Structural	30	2025Q4
9357	Central Operating Area	PRINCETON TWP	Dempsey Ave. Main Replacement	$ 160,000	Replace	800	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9391	Central Operating Area	PRINCETON TWP	Butler Rd. & Butler Ave. Main Replacement	$ 280,000	Replace	1213	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
10931	Central Operating Area	PRINCETON TWP	South Harrison Street Main Replacement Nassau St to Hartley Avenue	$ 1,000,000	Replace	6929	12.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9379	Central Operating Area	PRINCETON TWP	Harrison Ln. Main Replacement	$ 120,000	Replace	600	8.00	Ductile Iron	1920	3	CI	Safety and Reliability/Structural	45	2025Q4
9390	Central Operating Area	PRINCETON TWP	Halsey St. Main Replacement	$ 88,000	Replace	781	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9377	Central Operating Area	PRINCETON TWP	Sycamore Rd. Main Replacement	$ 200,000	Replace	1000	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9360	Central Operating Area	PRINCETON TWP	Oakland St. & Hickory Ct. Main Replacement	$ 268,000	Replace	1340	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
5782	Central Operating Area	RARITAN BOROUGH	First Avenue Main Replacement	$ 450,000	Replace	1590	12.00	Ductile Iron	1790	8	CI	Safety and Reliability/Structural	30	2025Q4
6730	Central Operating Area	RARITAN BOROUGH	First Avenue Main Replacement	$ 400,000	Replace	1400	8.00	Ductile Iron				Safety and Reliability/Structural	45	2024Q4
10138	Central Operating Area	RARITAN BOROUGH	Meehan Ave Main Replacement	$ 450,000	Replace	1855	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2024Q4
10869	Central Operating Area	RARITAN BOROUGH	Lagrange St Ph II Main Replacement	$ 225,000	Replace	909	8.00	Ductile Iron	1790	6	CI	Safety and Reliability/Structural	60	2024Q4
10870	Central Operating Area	RARITAN BOROUGH	Elmer St. Main Replacement	$ 150,000	Replace	381	8.00	Ductile Iron	1790	6	CI	Safety and Reliability/Structural	30	2025Q4
10871	Central Operating Area	RARITAN BOROUGH	Anderson St Main Replacement	$ 300,000	Replace	2254	8.00	Ductile Iron	1980	8	DI	Safety and Reliability/Structural	90	2025Q4
9942	Central Operating Area	ROSELLE BOROUGH	Colonial Rd(Washington Ave to Independence Dr)	$ 155,000	Replace	612	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2022Q4
9820	Central Operating Area	ROSELLE BOROUGH	Chestnut Ave (E 4th St to E 7th St)	$ 350,000	Replace	1266	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2025Q4
9941	Central Operating Area	ROSELLE BOROUGH	Independence DR(Washington Ave Loop Around)	$ 500,000	Replace	1980	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2022Q4
9821	Central Operating Area	ROSELLE BOROUGH	Chestnut Ave (E 7th St to E 11th St)	$ 475,000	Replace	1804	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	2022Q4
9728	Central Operating Area	ROSELLE BOROUGH	Shaffer Ave (Brooklawn Ave to Burt Dr)	$ 275,000	Replace	979	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	60	2024Q4
9819	Central Operating Area	ROSELLE BOROUGH	Chestnut Ave (W 1st Ave to E. 4th St)	$ 350,000	Replace	1371	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2022Q4
10891	Central Operating Area	ROSELLE BOROUGH	Replace 300' 2" main with 8"DIP on Wheatsheaf Rd	$ 100,000	Replace	300	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	30	2022Q4
9822	Central Operating Area	ROSELLE BOROUGH	Chestnut Ave (E 11th St to E St Georges St)	$ 475,000	Replace	1466	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2024Q4
9729	Central Operating Area	ROSELLE BOROUGH	Crescent ave (E.St Georges Ave to Clark St)	$ 375,000	Replace	1258	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	60	2025Q4
9994	Central Operating Area	ROSELLE BOROUGH	Drake (E 2nd Ave to E 6th Ave)	$ 400,000	Replace	1955	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2022Q4
10016	Central Operating Area	ROSELLE PARK BORO	E Lincoln Ave (Chestnut St to Sherman Ave)	$ 600,000	Replace	2162	8.00	Ductile Iron	1960	6	DI	System Flows and Pressure	90	2025Q4
10019	Central Operating Area	ROSELLE PARK BORO	E Colfax Ave (Chestnut St to Walnut St)	$ 190,000	Replace	743	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
10015	Central Operating Area	ROSELLE PARK BORO	E Clay Ave (Sherman Ave to Galloping Hill Rd)	$ 312,500	Replace	1223	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	15	2025Q4
10018	Central Operating Area	ROSELLE PARK BORO	Woodland Ave (Lehigh Ave to E Clay Ave)	$ 400,000	Replace	1508	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9661	Central Operating Area	ROSELLE PARK BORO	Elinor Ave(Galloping Hill Rd to Henry St)	$ 200,000	Replace	472	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2023Q4
10677	Central Operating Area	ROSELLE PARK BORO	W Lincoln Ave(Amsterdam Ave to Faitoute Ave)	$ 255,000	Replace	970	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2025Q4
9679	Central Operating Area	ROSELLE PARK BORO	Galloping Hill Rd(E Grant St to E Westfield Ave)	$ 375,000	Replace	1465	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	45	2023Q4
9680	Central Operating Area	ROSELLE PARK BORO	Ragland Dr (Galloping Hill Rd to Charlotte Terr)	$ 175,000	Replace	572	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2023Q4
10014	Central Operating Area	ROSELLE PARK BORO	E Clay Ave (Walnut St to Sherman Ave)	$ 475,000	Replace	1246	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2025Q4
10171	Central Operating Area	ROSELLE PARK BORO	W Summer Ave (Locust St to S 31st St)	$ 500,000	Replace	1819	8.00	Ductile Iron	1970	8	DI	System Flows and Pressure	60	2025Q4
10022	Central Operating Area	ROSELLE PARK BORO	Roosevelt St (W Clay Ave to W Westfield Ave)	$ 150,000	Replace	522	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
10023	Central Operating Area	ROSELLE PARK BORO	W Clay Ave (Hawthorne St to Faitoute Ave)	$ 385,000	Replace	1377	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2023Q4
10017	Central Operating Area	ROSELLE PARK BORO	E Lincoln Ave (Sherman Ave to Galloping Hill Rd)	$ 275,000	Replace	1177	8.00	Ductile Iron	1930	16	CI	System Flows and Pressure	15	2025Q4
9309	Central Operating Area	ROSELLE PARK BORO	Madison Ave. (from Galloping Hill to Charlotte)	$ 163,830	Replace	783	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
10020	Central Operating Area	ROSELLE PARK BORO	Hawthorne St (W Clay Ave to Westfield Ave)	$ 225,000	Replace	836	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9268	Central Operating Area	SCOTCH PLAINS TWP	Evergreen Ave. (From Portland Ave. to Jerusalem Rd. Reservior)	$ 5,019,000	Replace	4976	48.00	Ductile Iron	2000	48	CEM	Safety and Reliability/Structural	120	2025Q4
6613	Central Operating Area	SCOTCH PLAINS TWP	Park Ave. (Route 22 to Portland)	$ 841,275	Replace	3657	12.00	Ductile Iron	1970	6	CI	System Flows and Pressure	15	2024Q4

2022 Foundational Filing
Table 5.5 - Central Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
9563	Central Operating Area	SCOTCH PLAINS TWP	Morse Ave 30in Main Replacement PH2(Plainfield Ave to Jerusalem Rd Station)	$ 2,500,000	Replace	2874	30.00	Ductile Iron	2000	24	CEM	System Flows and Pressure	90	2024Q4
9562	Central Operating Area	SCOTCH PLAINS TWP	Morse Ave 30 inch Main Replacement Ph1 (North Ave to Plainfield Ave)	$ 2,500,000	Replace	4378	30.00	Ductile Iron	2000	24	CEM	System Flows and Pressure	60	2023Q4
9898	Central Operating Area	SCOTCH PLAINS TWP	Gamble Rd (Lamberts Mill Rd to Terminus)	$ 230,000	Replace	857	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2024Q4
9984	Central Operating Area	SCOTCH PLAINS TWP	Graymill Dr (W Broad St to Wood Rd)	$ 515,000	Replace	1799	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2024Q4
9894	Central Operating Area	SCOTCH PLAINS TWP	Terrill Rd (Copper Rd to Stonleigh Dr)	$ 175,000	Replace	743	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	90	2022Q2
9980	Central Operating Area	SCOTCH PLAINS TWP	Lamberts Mill Rd (W Broad St to Shadowlawn Dr)	$ 708,000	Replace	2150	12.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2024Q4
9983	Central Operating Area	SCOTCH PLAINS TWP	Golf St (Brookside Dr to Dogwood Dr)	$ 500,000	Replace	2310	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	90	2022Q2
9893	Central Operating Area	SCOTCH PLAINS TWP	Cooper Rd (Terrill Rd to Heritage Ln)	$ 175,000	Replace	534	8.00	Ductile Iron	1930	8	CI	System Flows and Pressure	60	2022Q2
9892	Central Operating Area	SCOTCH PLAINS TWP	Lenape Way (Ashbrook Dr to Terminus)	$ 175,000	Replace	1016	8.00	Ductile Iron	1890	6	CI	Water Quality	60	2024Q4
9982	Central Operating Area	SCOTCH PLAINS TWP	Brookside Dr (Golf St to Brookside Ct)	$ 350,000	Replace	2080	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2022Q2
9979	Central Operating Area	SCOTCH PLAINS TWP	Austin St (Lamberts Mill Rd to Scotch Plains Ave)	$ 300,000	Replace	1185	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2024Q4
9981	Central Operating Area	SCOTCH PLAINS TWP	Seward Dr (Golf St to Lamberts Mill Rd)	$ 210,000	Replace	776	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2024Q4
9986	Central Operating Area	SCOTCH PLAINS TWP	Duncan Dr (Duncan Dr Loop)	$ 695,000	Replace	2673	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	90	2024Q4
9899	Central Operating Area	SCOTCH PLAINS TWP	Raritan Rd (Hydrant HSCO-130 to Winding Brook Way)	$ 145,000	Replace	507	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2022Q2
9896	Central Operating Area	SCOTCH PLAINS TWP	Lake Ave(Raritan Rd to Linden Ln)	$ 565,000	Replace	4551	8.00	Ductile Iron	1940	16	CI	System Flows and Pressure	120	2024Q4
9029	Central Operating Area	SOMERVILLE BOROUGH	Somerville - Union Avenue and William Street	$ 745,500	Replace	2428	16.00	Ductile Iron	1920	6	CI	Safety and Reliability	90	2025Q4
10663	Central Operating Area	SOMERVILLE BOROUGH	Replace 750 feet of 6-inch main with 12-inch DI main.	$ 255,000	Replace	726	12.00	Ductile Iron	1930	6	CI	Safety and Reliability	60	2025Q4
9318	Central Operating Area	SOMERVILLE BOROUGH	Catherine St. Main Replacement	$ 240,000	Replace	1200	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2024Q4
9299	Central Operating Area	SOMERVILLE BOROUGH	North Gaston Ave. Main Replacement	$ 222,000	Replace	2220	8.00	Ductile Iron	1930	12	CI	Safety and Reliability/Structural	90	2024Q4
9319	Central Operating Area	SOMERVILLE BOROUGH	Sycamore St. Main Replacement	$ 80,000	Replace	400	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2024Q4
10175	Central Operating Area	SOMERVILLE BOROUGH	South Doughty Ave Main Replacement	$ 225,000	Replace	1030	8.00	Ductile Iron	1790	8	CI	System Flows and Pressure	60	2025Q4
9024	Central Operating Area	SOMERVILLE BOROUGH	Somerville - PHASE 2 - Loeser Avenue	$ 491,250	Replace	1960	12.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2024Q4
10874	Central Operating Area	SOMERVILLE BOROUGH	3rd Street Main Replacement	$ 350,000	Replace	1426	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2024Q4
10605	Central Operating Area	SOMERVILLE BOROUGH	East Cliff St Main Replacement	$ 200,000	Replace	707	8.00	Ductile Iron	1910	6	CI	Safety and Reliability/Structural	60	2022Q2
10876	Central Operating Area	SOMERVILLE BOROUGH	Center St Main replacement	$ 250,000	Replace	1103	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	90	2025Q4
10877	Central Operating Area	SOMERVILLE BOROUGH	Hamilton Street main Replacement	$ 400,000	Replace	1159	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	35	2025Q4
10607	Central Operating Area	SOMERVILLE BOROUGH	Warren St Main replacement	$ 200,000	Replace	672	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q4
10885	Central Operating Area	SOMERVILLE BOROUGH	East/West Orchard Street Main Replacement	$ 500,000	Replace	2456	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	90	2022Q3
10887	Central Operating Area	SOMERVILLE BOROUGH	Brookside Avenue Main Replacement	$ 400,000	Replace	1540	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	60	2022Q4
10893	Central Operating Area	SOMERVILLE BOROUGH	Riviera Drive Main Replacement	$ 250,000	Replace	1143	8.00	Ductile Iron	1950	8	CI	Safety and Reliability	60	2022Q4
10894	Central Operating Area	SOMERVILLE BOROUGH	East Cadillac Drive Main Replacement	$ 250,000	Replace	729	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	60	2022Q4
9031	Central Operating Area	SOMERVILLE BOROUGH	Somerville - Grove Street from William Street to East Cliff Street	$ 222,000	Replace	743	16.00	Ductile Iron	1930	6	CI	Safety and Reliability	60	2024Q4
9317	Central Operating Area	SOMERVILLE BOROUGH	Culver St. Main Replacement	$ 500,000	Replace	1800	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2023Q4
9079	Central Operating Area	SOMERVILLE BOROUGH	Davenport Street from W.Cliff Street to W Main Street	$ 300,000	Replace	1178	16.00	Ductile Iron	1930	10	CI	System Flows and Pressure	60	2025Q4
10872	Central Operating Area	SOUTH BOUND BROOK BOROUGH	Canal Rd / Main St replacement	$ 350,000	Replace	700	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
5682	Central Operating Area	SOUTH BRUNSWICK TWP	Heathcote Brook Rd Main replacement	$ 250,000	Replace	1542	8.00	Ductile Iron	1990	6	DI	Safety and Reliability/Structural	30	2023Q4
5684	Central Operating Area	SOUTH BRUNSWICK TWP	Prospect St main replacement	$ 150,000	Replace	400	8.00	Ductile Iron				Safety and Reliability/Structural	30	2023Q4
5681	Central Operating Area	SOUTH BRUNSWICK TWP	Euclid Ave Main Replacement	$ 200,000	Replace	426	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2023Q4
294	Central Operating Area	SOUTH PLAINFIELD BORO	South Plainfield - Park Avenue - Bridge Reconstruction	$ 1,100,000	Replace	300	36.00	Ductile Iron				Relocation/Opportunity	30	2025Q4
9949	Central Operating Area	SOUTH PLAINFIELD BORO	Maltby Ave (Ellis Pl to Tompkins Ave)	$ 215,000	Replace	545	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2022Q4
9945	Central Operating Area	SOUTH PLAINFIELD BORO	Ivy St (Clinton Ave to Dead End)	$ 330,000	Replace	1304	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2022Q4
9947	Central Operating Area	SOUTH PLAINFIELD BORO	Melrose Ave(Grant Ave to Baker Ave)	$ 225,000	Replace	839	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2022Q4
9292	Central Operating Area	UNION TWP	Martin Rd. (from Galloping Hill to Martin Pl.)	$ 354,750	Replace	1660	8.00	Ductile Iron		6	CI	System Flows and Pressure	60	2023Q4
9237	Central Operating Area	UNION TWP	Broadwell Ave. (Colonial Ave. to Salem Rd.)	$ 280,000	Replace	1400	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	60	2025Q4
10152	Central Operating Area	UNION TWP	Cider Mill Rd (Arbor Ln to Oakland Ave)	$ 200,000	Replace	590	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	12	2023Q4
10087	Central Operating Area	UNION TWP	Homer Ter (Crawford Ter to Colonial Ave)	$ 220,000	Replace	936	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2025Q4
9304	Central Operating Area	UNION TWP	Darby La. (Lehigh to Dead End)	$ 79,550	Replace	369	8.00	Ductile Iron		6	CI	System Flows and Pressure	30	2023Q4
10151	Central Operating Area	UNION TWP	Porthmouth Way(Arbor Ln to Oakland Ave)	$ 200,000	Replace	728	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2023Q4
9259	Central Operating Area	UNION TWP	Winchester Ave. (Randolph Pl. to Salem Rd.)	$ 700,000	Replace	3500	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	90	2023Q4
9236	Central Operating Area	UNION TWP	Townley Ave. (Broadwell Ave. to Morris Ave.)	$ 412,000	Replace	2060	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	90	2025Q4
9273	Central Operating Area	UNION TWP	Stratford, Winthrop, Baily, Parkview, Indian Run Pkwy., Union	$ 3,060,000	Rehab	15295	6.00	Other Plastic	1920	6	CI	System Flows and Pressure	120	2022Q4
9211	Central Operating Area	UNION TWP	Arnet Ave (between Morris Ave and Beverly Rd)	$ 211,775	Replace	985	8.00	Ductile Iron		6	CI	System Flows and Pressure	30	2025Q4
9264	Central Operating Area	UNION TWP	Forest Dr. (Salem Rd. to Chesnut St)	$ 650,000	Replace	3000	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	60	2025Q4
10085	Central Operating Area	UNION TWP	Golf Ter (David Ter to Colonial Ave)	$ 510,000	Replace	1835	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2025Q4
6810	Central Operating Area	UNION TWP	Springfield Ave. (Valley to Vauxhall Rd.)	$ 443,000	Replace	2307	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	30	2025Q4
9212	Central Operating Area	UNION TWP	Carteret Ave (between Morris and Huquenot)	$ 317,125	Replace	2681	8.00	Ductile Iron		6	CI	System Flows and Pressure	90	2025Q4
10900	Central Operating Area	UNION TWP	Green Ln from Woodland Ave to Floral Ave N	$ 450,000	Replace	1548	12.00	Ductile Iron	1790	6	CI	System Flows and Pressure	30	2022Q4
10901	Central Operating Area	UNION TWP	Utilities Rd/Green Ln from Clermont Ter to Magie Avenue	$ 2,500,000	Replace	800	12.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	2022Q4
10903	Central Operating Area	UNION TWP	UNION TWP - Gregory Ave, from Bradford Ter to Union Ave. Then Union Ave, from Gregory Ave to VUNI-3305	$ 980,000	Replace	2782	16.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2023Q4
10086	Central Operating Area	UNION TWP	Colonial Ave (Morris Ave to Golf Ter)	$ 960,000	Replace	3431	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	90	2025Q4
10149	Central Operating Area	UNION TWP	Schmidt Ave(Vauxhall Rd to Earl St)	$ 170,000	Replace	567	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2023Q4
10150	Central Operating Area	UNION TWP	Arbor Ln(Vauxhall Rd to Oakland Ln)	$ 410,000	Replace	1479	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
10054	Central Operating Area	UNION TWP	Lehigh Ave Ph 1(Galloping hill Rd to Cranbury Rd)	$ 1,100,000	Replace	2572	16.00	Ductile Iron	1940	12	CI	System Flows and Pressure	90	2025Q4
10088	Central Operating Area	UNION TWP	Dogwood Dr (Oakview Pl to Dead End)	$ 220,000	Replace	827	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2025Q4

2022 Foundational Filing
Table 5.5 - Central Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
10153	Central Operating Area	UNION TWP	Grandview Ave (Vauxhall Rd to Mountainview Ave)	$ 295,000	Replace	1774	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
9210	Central Operating Area	UNION TWP	Potter Ave (between Morris Ave and Dead End)	$ 245,100	Replace	1181	8.00	Ductile Iron		6	CI	System Flows and Pressure	60	2025Q4
9303	Central Operating Area	UNION TWP	Jensen La. (Lehigh to Dead End)	$ 116,745	Replace	539	8.00	Ductile Iron		6	CI	System Flows and Pressure	60	2023Q4
9072	Central Operating Area	WARREN TWP	Mountain Blvd. (Wildwood Terr. to Mt. Bethel Rd.)	$ 1,272,300	Replace	4241	12.00	Ductile Iron	1960	12	CI	System Flows and Pressure	120	2025Q4
7	Central Operating Area	WEST WINDSOR TWP	West Windsor - Washington RoadRoute 1 to Fairview 12" main	$ 297,000	Replace	2429	12.00	Ductile Iron	1970	8	DI	Safety and Reliability/Structural	1	2024Q4
8	Central Operating Area	WEST WINDSOR TWP	West Windsor - Wheeler Way	$ 238,500	Replace	1081	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
6841	Central Operating Area	WESTFIELD	Easement - Echo Lake CC (Woodland to Springfield)	$ 1,018,500	Replace	4049	16.00	Ductile Iron	1960	16	AC	Water Quality	30	2025Q4
9990	Central Operating Area	WESTFIELD	Norwood Dr (Tamaques Way to Rahway Ave)	$ 215,000	Replace	788	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2022Q2
9132	Central Operating Area	WESTFIELD	Lenox Ave. (Elmer to Stanley)	$ 419,250	Replace	1950	8.00	Ductile Iron	2000	6	DI	System Flows and Pressure	60	2025Q4
9998	Central Operating Area	WESTFIELD	Summit Ct (Summit Ct Loop)	$ 525,000	Replace	1969	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2022Q2
9995	Central Operating Area	WESTFIELD	Leigh Dr (Surrey Ln to Rahway Ave)	$ 180,000	Replace	691	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2022Q2
9991	Central Operating Area	WESTFIELD	Tamaques Way (Norwood Dr Loop)	$ 435,000	Replace	1379	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2022Q2
9999	Central Operating Area	WESTFIELD	Ayliffe Ave (Central Ave to Summit Ave)	$ 375,000	Replace	1172	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2022Q2
9128	Central Operating Area	WESTFIELD	East Broad St (Between North Ave and Elmer St)	$ 424,800	Replace	1416	12.00	Ductile Iron	1920	12	CI	System Flows and Pressure	60	2024Q4
9992	Central Operating Area	WESTFIELD	Kensington Dr(Surrey Ln to Rahway Ave)	$ 225,000	Replace	906	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2022Q2
9978	Central Operating Area	WESTFIELD	Warren St (Lamberts Mill Rd to Scotch Plains Ave)	$ 300,000	Replace	1179	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2022Q2
9987	Central Operating Area	WESTFIELD	Otisco Dr/Cayuga Way (Summit Ave Loop)	$ 425,000	Replace	1159	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	60	2022Q2
9131	Central Operating Area	WESTFIELD	S. Euclid Ave. (North to E. Broad St.)	$ 462,465	Replace	2151	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2025Q4
9988	Central Operating Area	WESTFIELD	Mohawk Trail (Rahway Ave to Loop)	$ 675,000	Replace	2883	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	90	2022Q2
10000	Central Operating Area	WESTFIELD	Malboro St (Pinegrove Ave to Central Ave)	$ 195,000	Replace	758	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2022Q2
9989	Central Operating Area	WESTFIELD	Rahway Ave (Leigh Dr to Willow Grove Rd)	$ 900,000	Replace	3714	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	90	2022Q2
			Total	$ 187,745,395										

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SECTION 6. COASTAL OPERATING AREA

6.1 OVERVIEW

The Coastal Operating Area is located in the coastal region of New Jersey, covering portions of Monmouth, and Ocean Counties. The Coastal Operating Area consists of eight Public Community Water Systems serving 48 municipalities including the Coastal North regional system, Union Beach, Shorelands, Deep Run and New Egypt systems in Plumstead Twp., shown in Table 6.1.1, below. New Jersey American Water currently provides service to customers in the Coastal Operating Area, serving a population of approximately 400,000. Exhibit 6.1, attached, shows the location of these service areas.

Table 6.1.1 - Coastal Operating Area Water Systems' Characteristics (2021)

PWSID	System Name	Service Connections	Estmated Population Served	Avg Day Demand (MGD)	Peak Month Demand (MGD)
NJ1345001	Coastal North	141,050	353,000	44.166	56.929
NJ1350001	Union Beach	2,076	5,550	0.455	0.526
NJ1523002	Deep Run	242	650	0.033	0.042
NJ1523003	New Egypt (Plumstead)	363	950	0.083	0.09
NJ1339001	Shorelands	11,385	28,700	4.194	5.274

The sources of supply for this region include three surface water treatment plants, and numerous ground water well stations. The Oak Glen, Swimming River and Jumping Brook surface water treatment plants located in Monmouth County provide water across the northern portion of the Coastal Operating area. In addition, as a large regional water system, the water treatment process includes optimized corrosion control treatment. The Coastal Operating Area's corrosion control strategy includes pH control and the addition of corrosion inhibitors. Phosphates are used to inhibit the internal corrosion of water mains, to sequester iron, manganese, calcium, and magnesium minerals, and to improve the quality of water in the distribution system by preventing scale deposits and tuberculation. Blended poly phosphates is added at several well facilities in order to sequester soluble metals and minerals found in the groundwater. Orthophosphate, added at the surface water treatment plants in the northern portion of the Coastal Operating area, inhibits corrosion as it reacts with dissolved minerals in the water to form a thin coating or film on the inner surface of the pipe that is exposed to the treated water. The two forms of phosphate additions (orthophosphate and blended poly phosphates) work together to reduce discoloration and scaling issues as well as taste and odor issues in the groundwater.

The non-revenue water rate in the Coastal Operating Area averaged 12.2% in 2021. This rate, below the NJDEP guideline, is an important aspect of water resource management in the coastal area to optimize supplies and combat salt water intrusion in freshwater aquifers. Factors contributing to this low rate include (1) numerous well sources and flat terrain which aid in managing pressure, (2) sandy soils to help reduce the corrosivity of the underground environment, (3) the relative constant temperature of the groundwater supplies, and (4) routine maintenance, flushing, leak detecting, valve exercising, and meter replacement which occur on an ongoing basis and assist in controlling leakage and non-revenue water rates.

The treated water from NJAWC's sources of supply is conveyed to customers through over 2,000 miles of distribution mains, with sections of the operating area dating back to the pre-1900 period. Water mains were manufactured and installed over many decades, resulting in a wide variety of materials, pipe sizes and joint types. The type of water main installed was based on the predominant pipe material available at the time. Table 6.1.2, below, provides a summary of the materials and diameter of the assets that continue to provide service.

Table 6.1.2 - Coastal Summary of Mains by Material Type (in miles)

Coastal Operating System All PWSID's Miles of Main by Diameter					
Row Labels	**< 6"**	**6" to 12"**	**14" to 16"**	**> 16"**	**Total**
Asbestos Cement	1.3	340.3	3.1		344.7
Cast Iron Lined	23.5	353.9	3.8	5.9	387.1
Cast Iron Unlined	35.9	194.2	5.3	16.8	252.2
Ductile Iron	2.0	787.8	94.4	83.2	967.4
Metal	6.2	1.8	0.0	0.9	8.9
Plastic	3.0	56.2	2.7	3.8	65.7
PCCP	0.0	0.2	8.3	20.2	28.7
Total	**71.9**	**1734.3**	**117.6**	**130.9**	**2054.6**

Note: Due to rounding, not all the totals will sum.

6.2 DISTRIBUTION SYSTEM ASSET PERFORMANCE

The following section presents asset management data and conclusions regarding the need for accelerated investment. The performance of mains and their relative deterioration rate can be monitored by the break frequency, and characteristics. Table 6.2 shows the miles of main, number of breaks and calculated breaks

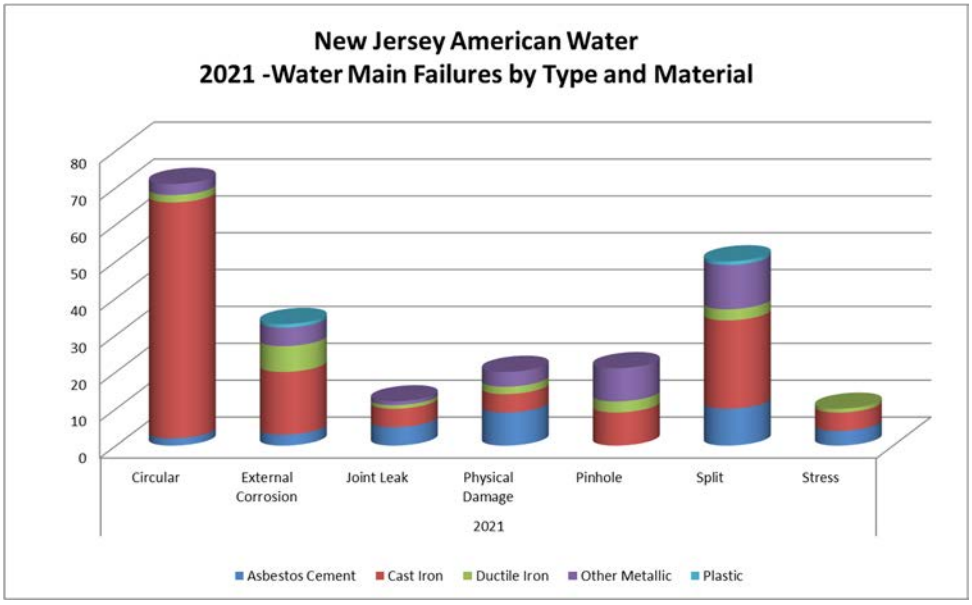
per mil in tabular form. Figures 6.2.a and 6.2.b illustrate the number of repairs by material and type of break in the Coastal Operating Area during 2021.

The useful life of mains, valves, hydrants, and service connections varies based on materials, environment, internal and external corrosion rates, internal and external forces, ground freezing and thawing cycles, groundwater levels, soil conditions and many other factors. As water systems age, infrastructure needs to be renewed to ensure safety and reliability, improve system flows and water pressure, protect water quality, promote conservation and reduce non-revenue water. This section examines system performance based on these types of parameters, and presents recommendations for acceleration of investment where needed. Table 6.2 and Figure 6.2.a, below, provide a summary of repairs by material and type of break in the Coastal Operating Area during 2021.

Table 6.2 - Summary of Break Rate by Material for the Coastal Operating Area (2021)

Coastal District Total							
	Asbestos Cement	Cast Iron	Ductile Iron	Other Metallic	PCCP	Plastic	Total
Miles of Main	345	639	967	9	29	66	2055
Main Failures	33	129	19	34	2		217
Failures per Mile	0.10	0.20	0.02	3.83	0.07	0.00	0.11

Figure 6.2.a - Summary of Main Breaks by Type in Coastal (2021)

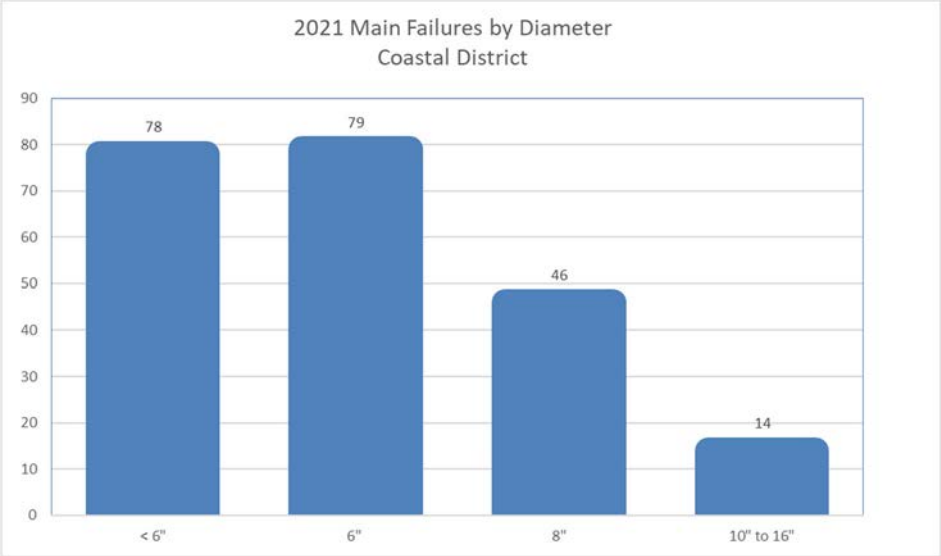


Data on main breaks and main lengths were compiled by service area from NJAWC's MapCall and GIS data files. Table 6.2 illustrates the highest break rate frequency in these systems occurs on cast iron, and other metallic pipes. These mains are targeted for accelerated rehabilitation and replacement in the DSIC program. Particularly high (over one order of magnitude) is the other metallic pipe category which mostly comprises of galvanized pipes at 3.83 breaks per mile.

Figure 6.2.a illustrates that circular failures are the predominant break type, followed by splits, andexternal corrosion . Circular failures generally result from the settlement of pipe due to erosion of the pipe bedding or traffic loads. Bed settling generally occurs as a result of pinhole or joint leaks, which cause erosion in the area. Circular failures, as indicated by the chart, are most common type of breaks for cast iron mains. Circular breaks are also noted in increased frequency when there is change in water temperature, and attributed to thermal stress within the pipe. Split is second and closely followed by the corrosion breaks. Corrosion breaks are mainly caused by aggressive soils while split breaks are caused by longitudinal stresses resulting from material fatigue. Joint leaks can be attributed to external corrosion, gasket deterioration, or mechanical failures. It should also be noted that the corrosion and split type breakage is more common on "Other Metallic" pipe in this area. This is another indication that accelerated investment to replace Other Metallic mains is warranted.

The majority of asbestos cement pipe (ACP) failures in the Coastal Operating Area are either joint, physical damage, or split type breaks. This is consistent with visual observations made of old ACP in aggressive soils where the pipe material is softened, reducing its tensile strength. Because of the difficulty of repairing ACP, replacement of the entire pipe length is generally performed; the ACP is generally too weak for a clamp repair.

Figure 6.2.b - Summary of Main Failures by Diameter – Coastal (2021)



6.3 SYSTEM-SPECIFIC ISSUES

The Coastal Operating Area (Monmouth and Ocean Counties) distribution system was installed over many decades, and was built with the pipe materials available at the time. The pipe material and design standards used followed the best practices of the time; however, many of these are considered obsolete for today's service needs. The following are specific concerns in this operating area:

(1) Aggressive soil conditions in certain areas, which often leads to corrosion on the exterior of older cast iron and galvanized steel mains;
(2) Redevelopment and increased housing density, which drives the need for replacement of small diameter mains; and
(3) Higher break frequency rates for other metallic and cast-iron mains.

The distribution system performance in the community of Aberdeen, Monmouth County, is an example of where this first issue has resulted in frequent breaks and service interruptions. While the problem is continuing, the significant ACP replacement in recent years has made a remarkable improvement in the break rate for ACP. The Aberdeen system was constructed in the 1940's of thin-walled asbestos cement piping. Experience has shown that asbestos cement pipes (ACP) in this area have deteriorated to such an extent that crews report that during repairs, the pipe wall has been found to be "spongy". Thin-walled ACP, typically used on small-diameter installations, has a much higher break rate than its counterpart, large diameter asbestos cement pipes manufactured with thicker walls. Experience has also shown that once a section of ACP main is replaced in the distribution system, it typically results in increased rates of failure for

the downstream sections of pipe. Main breaks in this area often result in large sink holes, which pose significant public safety issues.

The second key issue for this area relates to a revival in a number of municipalities of “Smart Growth” plans and private redevelopment. Many of these towns have water mains in excess of 100 years old, consisting mainly of unlined, undersized cast iron pipe. Many small housing units are being replaced with larger residential units, including multi-family homes and condominiums. This trend has resulted in an increase in system demand, domestic use and fire suppression needs. Mains originally sized for small residential units needing nominal fire flow are now carrying greater flows than the original design criteria. In order to continue safe and adequate service, the replacement of small-diameter mains and the elimination of hydraulic restrictions in the system are needed.

The third significant issue in this area is the break rate of older cast iron mains and other metallic mains. While the issue is not unique to any one section of the service area, it is quite prevalent, particularly in older communities built prior to World War II. In addition, significant internal tuberculation built up over many decades has severely restricted the hydraulic capacity of these mains, causing local low flow and pressure problems. These mains are frequent sources of water quality complaints, mostly discoloration. Communities that have a greater frequency of these issues include Asbury Park, Lakewood, Ocean Grove, and Ortley Beach. The break rate, water quality complaints and obsolete flow capacity combine to generate the prioritization of these mains for renewal. In order to improve the level of service and reduce the break frequency in these particular areas as well other, smaller areas, the replacement of these mains is paramount. For these reasons, NJAWC has identified and prioritized for replacement numerous projects (110 miles) of failing cast iron mains within the Coastal Region in the accelerated program submitted within this Foundational Filing.

Significant break and flow issues from the galvanized steel pipe which was widely used in the 1940s and 1950s are also generating customer complaints. The Coastal Region has significant exposure to this type of pipe with nearly 11 miles of “other metallic” pipe generating a break rate in excess of 2 breaks per year, per mile in 2019.

A list of DSIC-eligible projects with the Coastal Region to be completed in 2022 through 2025 is shown in Table 6.5. Most of the projects consist of replacing water mains that are from the early- to mid-1900’s in the various water systems in the Coastal Operating Area. In addition, these renewal projects, when completed, will increase reliability, safety and water quality to customers in this area.

6.4 INDIVIDUAL SYSTEM DESCRIPTIONS

A. COASTAL NORTH WATER SYSTEM (PWSID NJ1345001)

System Description

The Coastal North System is a public water system providing service to 35 municipalities in parts of Monmouth and Ocean Counties. The Coastal North water system has several sales for resale customers: Matawan, Keansburg, Red Bank, Avon by the Sea, Belmar, Lake Como, Point Pleasant and Farmingdale. The total demand of these bulk customers is approximately 43 MGD.

Source of Supply & Production

The Coastal North System is supplied by various groundwater and surface water sources of supply. Raw surface water supplies are treated at the Swimming River Treatment Plant (SRTP), the Jumping Brook Treatment Plant (JBTP) and the Oak Glen Treatment Plant (OGTP). The SRTP is supplied by the Swimming River Reservoir and three wells. The JBTP is supplied by the Glendola Reservoir, a NJAWC-owned reservoir that holds raw water purchased from the New Jersey Water Supply Authority (NJWSA). The JBTP also treats surface water from intakes off the Shark River and Jumping Brook, as well as groundwater from three wells. The Oak Glen Treatment Plant (OGTP), located in Howell Township, treats raw water purchased from the NJWSA. Additional wells are located throughout Howell Township, Lakewood and along the barrier island in Ocean County.

Distribution & Storage

The system has a total of 29 distribution storage facilities, consisting of standpipes, ground storage tanks, elevated tanks, and reservoirs, not including several clearwells. There are 1,800 miles of main ranging in size from 2-inch to 66-inch as shown in Tables 6.4.A.1 and 6.4.A.2, below.

Table 6.4.A.1 - Coastal North System Water Mains

Coastal North NJ1345001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	1.0	230.6	0.0		231.6
Cast Iron Lined	23.4	353.0	3.8	5.9	386.1
Cast Iron Unlined	35.0	184.4	5.2	16.8	241.5
Ductile Iron	1.9	725.3	90.6	83.2	900.9
Metal	6.0	1.8	0.0	0.9	8.7
Plastic	0.9	37.2	2.7	3.8	44.6
PCCP	0.0	0.2	8.3	20.2	28.7
Total	68.2	1532.4	110.7	130.8	1842.2

Note: Due to rounding, not all the totals will sum.

Table 6.4.A.2 - Coastal North System Asset Summary Table

Coastal North System PWSID NJ1345001	
Miles of Main	1,842
Hydrants	8,225
Valves	34,891
Service Connections	135,906

B. UNION BEACH WATER SYSTEM (PWSID NJ1350001)

System Description

The Union Beach Water System is a Public Water System in northern Monmouth County bounded by the Raritan Bay to the north, Hazlet Township to the east and south, and Keyport Borough to the west.

The Union Beach water system is predominantly residential and commercial, has no sale for resale customers, and currently has no customers accounting for more than 10% of total system delivery.

Source of Supply & Production

To supply Union Beach customers, NJAWC transports water through the former Shorelands Water Company system[1] via two interconnection facilities. NJAWC also delivers water to Shorelands system from the Coastal North regional system. An emergency interconnection with the Keyport Borough water system is also maintained.

Distribution & Storage

The distribution system operates as one pressure gradient with approximately 26 miles of main ranging in size from 4-inch to 12-inch as shown in Tables 6.4.D.1 and 6.4.D.2, below. The system maintains one standpipe.

Table 6.4.B.1 - Union Beach System Water Mains

Union Beach NJ1350001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement		1.9			1.9
Cast Iron Lined	0.1	0.7			0.8
Cast Iron Unlined	0.8	8.6			9.4
Ductile Iron	0.0	5.1			5.1
Metal	0.1				0.1
Plastic	0.0	9.1			9.2
Total	1.0	25.4			26.4

Note: Due to rounding, not all the totals will sum.

Table 6.4.B.2 - Union Beach System Asset Summary Table

Union Beach System PWSID NJ135001	
Miles of Main	26
Hydrants	225
Valves	694
Service Connections	2,084

[1] A plan is being developed to consolidate the Union Beach and Shorelands systems into the greater Coastal North system in the near future.

C. NEW EGYPT WATER SYSTEM (PWSID NJ1523003)

System Description

The New Egypt System is a public water system located in Ocean County. It is located approximately 6.5 miles east from NJAWC's Mt. Holly System. The New Egypt System provides water service to the New Egypt area of Plumsted Township. Its operation and management is under the Howell Operating Center.

Source of Supply & Production

The supply for the New Egypt System consists of three wells, two located at the Oakford Avenue Station and one located at Lakewood Road Station. All well pumps are drilled in the Englishtown aquifer and have acceptable water quality.

Distribution & Storage

The distribution system operates as one gradient. The system includes two elevated tanks with a total storage of 0.35 MG. There are 9 miles of main ranging in size from 3-inch to 12-inch as shown in Tables 6.4.C.1 and 6.4.C.2.

Table 6.4.C.1 - New Egypt System Water Mains

New Egypt (Plumstead) NJ1523003 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Cast Iron Lined		0.0			0.0
Cast Iron Unlined		0.6			0.6
Ductile Iron	0.0	7.9	0.4	0.0	8.4
Metal	0.0				0.0
Plastic				0.0	0.0
Total	0.0	8.5	0.4	0.0	9.1

Table 6.4.C.2 - New Egypt System Asset Summary Table

New Egypt System PWSID NJ1523003	
Miles of Main	9
Hydrants	74
Valves	255
Service Connections	507

D. DEEP RUN WATER SYSTEM (PWSID NJ1523002)

The Deep Run System is a public water system located in Plumstead Township, Burlington County, New Jersey. Deep Run is located approximately one (1) mile east of New Egypt along CR 537.

System Description

NJAWC provides service to approximately 256 residential units in the Deep Run service area.

Source of Supply & Production

The Deep Run System has five permitted wells drilled into the Mount Laurel Wenonah Formation.

Distribution & Storage

The system is operated as one gradient. The system consists of two storage tanks that have a capacity of 0.025 MG and 4 miles of main ranging in size from 2-inch to 12-inch.

Table 6.4.D.1 - Deep Run System Water Mains

Jensen's Deep Run NJ1523002 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Plastic	2.0	2.0			4.0
Total	2.0	2.0			4.0

Table 6.4.D.2 - Deep Run System Asset Summary Table

Deep Run System PWSID NJ1523002	
Miles of Main	4
Hydrants	14
Valves	43
Service Connections	258

E. SHORELANDS WATER SYSTEM (PWSID NJ1339001)

System Description

The Shorelands System serves parts of Holmdel and Hazlet Townships in Monmouth County. It is mainly surrounded by NJAWC's Coastal North and Union Beach systems, with areas bordering Keyport Water Company and Aberdeen Township Water Company.

Source of Supply & Production

The supply for the Shorelands System consists of seven wells located at two water treatment plants along with transfers at three locations from NJAWC's Coastal North System. Four wells are drilled in the Upper PRM aquifer and three wells are drilled in the Middle PRM aquifer; all wells are in Critical Area 1. The wells currently supply water during the warmer months (May through October/November), while the winter supply comes from NJAWC's Coastal System (October/November through May).

Distribution & Storage

The distribution system operates as three gradients. There are 173 miles of main ranging in size from 2-inch to 30-inch, with more than 70% of the mains 8-inches in diameter or less. The system includes four finished water storage tanks with a total storage volume of 5.58 MG.

Table 6.4.E.1 - Shorelands System Water Mains

Shorelands Water Company NJ1339001 Miles of Main by Diameter					
Material	< 6"	6" to 12"	14" to 16"	> 16"	Total
Asbestos Cement	0.4	107.8	3.0		111.2
Cast Iron Lined		0.1			0.1
Cast Iron Unlined	0.1	0.6	0.0		0.7
Ductile Iron	0.1	49.5	3.3	0.1	53.0
Metal	0.1				0.1
Plastic	0.0	7.9			7.9
Total	0.6	165.9	6.4	0.1	172.9

Note: Due to rounding, not all the totals will sum.

Table 6.4.E.2 - Shorelands System Asset Summary Table

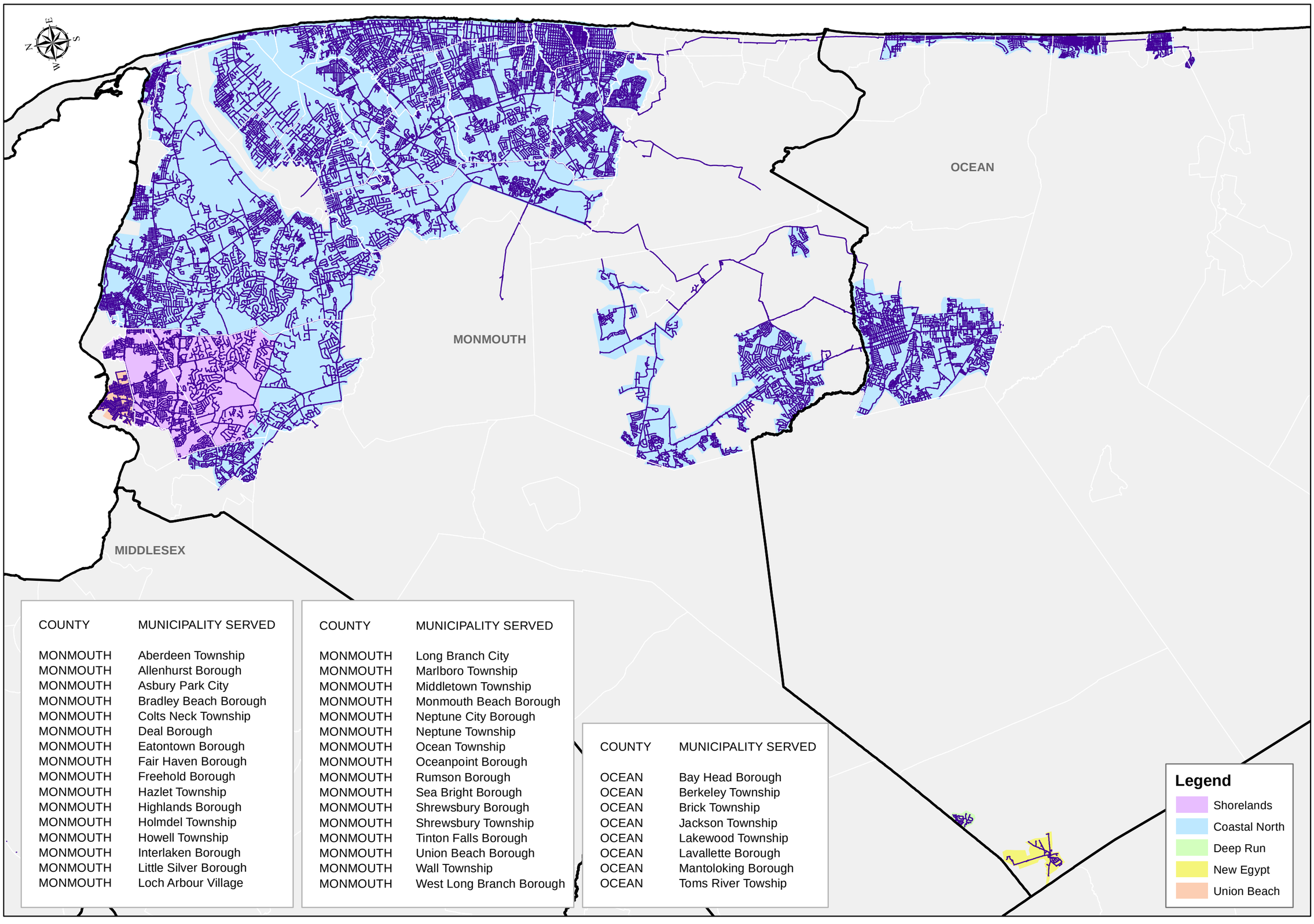
Union Beach System PWSID NJ135001	
Miles of Main	173
Hydrants	850
Valves	3,217
Service Connections	11,433

6.5 PROPOSED DSIC PROJECTS, FILING 2022-2025

Approximately 660 additional pipeline projects have been identified in the Coastal Operating Area in need for renewal in this foundational filing, and a total of approximately 1,160 projects when including previously DSIC Foundational Filing identified projects. Approximately 600 of these projects have been identified as high priority projects for 2022-2025, and are listed in Table 6.5, attached. The scope and location of the identified projects are presented in this table. Due to pipe size and condition and individual project scope, only few projects presented opportunity for Cleaning and Lining renewal method.

Exhibit 6.1

New Jersey American Water
2022 DSIC Foundational Filing
Coastal Operating Area



COUNTY	MUNICIPALITY SERVED
MONMOUTH	Aberdeen Township
MONMOUTH	Allenhurst Borough
MONMOUTH	Asbury Park City
MONMOUTH	Bradley Beach Borough
MONMOUTH	Colts Neck Township
MONMOUTH	Deal Borough
MONMOUTH	Eatontown Borough
MONMOUTH	Fair Haven Borough
MONMOUTH	Freehold Borough
MONMOUTH	Hazlet Township
MONMOUTH	Highlands Borough
MONMOUTH	Holmdel Township
MONMOUTH	Howell Township
MONMOUTH	Interlaken Borough
MONMOUTH	Little Silver Borough
MONMOUTH	Loch Arbour Village

COUNTY	MUNICIPALITY SERVED
MONMOUTH	Long Branch City
MONMOUTH	Marlboro Township
MONMOUTH	Middletown Township
MONMOUTH	Monmouth Beach Borough
MONMOUTH	Neptune City Borough
MONMOUTH	Neptune Township
MONMOUTH	Ocean Township
MONMOUTH	Oceanpoint Borough
MONMOUTH	Rumson Borough
MONMOUTH	Sea Bright Borough
MONMOUTH	Shrewsbury Borough
MONMOUTH	Shrewsbury Township
MONMOUTH	Tinton Falls Borough
MONMOUTH	Union Beach Borough
MONMOUTH	Wall Township
MONMOUTH	West Long Branch Borough

COUNTY	MUNICIPALITY SERVED
OCEAN	Bay Head Borough
OCEAN	Berkeley Township
OCEAN	Brick Township
OCEAN	Jackson Township
OCEAN	Lakewood Township
OCEAN	Lavallette Borough
OCEAN	Mantoloking Borough
OCEAN	Toms River Township

Legend

- Shorelands
- Coastal North
- Deep Run
- New Egypt
- Union Beach

NEW JERSEY AMERICAN WATER

2022 Foundational Filing
Table 6.5 - Coastal Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
244	Coastal Operating Area	ABERDEEN	Aberdeen - Idlebrook, from InnerHill to "I" tank 10"	$ 120,000	Replace	725	8.00	PVC	1950	10	CI	Safety and Reliability/Structural	20	2025Q4
5293	Coastal Operating Area	ABERDEEN	Idaho Lane, Main Replacement	$ 195,000	Replace	1327	8.00	PVC	1960	6	AC	Safety and Reliability	5	2025Q4
9824	Coastal Operating Area	ABERDEEN	Heritage Sq Main Replacement	$ 334,000	Replace	370	8.00	PVC	1960	6	AC	Relocation/Opportunity	30	2025Q4
11024	Coastal Operating Area	ABERDEEN	Overlea Lane Eastment Rehab	$ 250,000	Rehab	964	8.00	Other	1960	8	AC	Safety and Reliability/Structural	60	2025Q4
11050	Coastal Operating Area	ABERDEEN	Idlewild Lane to Ivy Hill Main Rehab	$ 120,000	Rehab	424	12.00	Other	1950	12	AC	Safety and Reliability/Structural	30	2025Q4
6979	Coastal Operating Area	ALLENHURST	Cedar Ave Railroad Crossing	$ 160,000	Replace	384	8.00	Ductile Iron	2000	4	DI	System Flows and Pressure	30	2025Q4
7794	Coastal Operating Area	ASBURY PARK	Steiner Place 2" GALV	$ 50,000	Replace	500	8.00	Ductile Iron	1990	2	GALV	Safety and Reliability/Structural	90	2025Q4
8365	Coastal Operating Area	ASBURY PARK	Borden Ave. 6" CI	$ 364,000	Replace	1820	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2025Q4
798	Coastal Operating Area	BAY HEAD	Bay Head - Between Lake Ave and Rt 35 from Karge St south to terminus.	$ 27,600	Replace	173	6.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2024Q4
802	Coastal Operating Area	BAY HEAD	Bay Head - Warren Pl from Osborne Ave to terminus.	$ 15,600	Replace	126	2.00	Other Plastic	1930	2	CI	Safety and Reliability/Structural	30	2024Q4
8330	Coastal Operating Area	BAY HEAD	Chadwick St, 6" CI	$ 35,200	Replace	211	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	30	2024Q4
8329	Coastal Operating Area	BAY HEAD	Forsythe St, 8" CI	$ 50,400	Replace	309	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	30	2024Q4
8328	Coastal Operating Area	BAY HEAD	Howe St, 8" CI	$ 92,000	Replace	569	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	60	2024Q4
8336	Coastal Operating Area	BAY HEAD	Johnson St., 6" CI	$ 102,500	Replace	407	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	30	2022Q4
8357	Coastal Operating Area	BAY HEAD	Bridge Ave, 8" CI, 6" CI	$ 292,000	Replace	1825	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	60	2022Q4
8350	Coastal Operating Area	BAY HEAD	Woodland Ave, 6" CI	$ 68,800	Replace	435	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	30	2024Q4
10470	Coastal Operating Area	BAY HEAD	Clayton Avenue	$ 500,000	Replace	1982	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	30	2022Q4
8342	Coastal Operating Area	BAY HEAD	Lake Ave, 6" CI, 6" AC	$ 1,113,000	Replace	4416	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	45	2022Q4
8349	Coastal Operating Area	BAY HEAD	Cranberry Ave, 6" CI, AC, DI	$ 141,600	Replace	837	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	25	2024Q4
10471	Coastal Operating Area	BAY HEAD	Bridge Avenue	$ 1,000,000	Replace	1442	12.00	HDPE	1930	6	CI	Safety and Reliability/Structural	60	2022Q4
10472	Coastal Operating Area	BAY HEAD	Bridge Avenue	$ 400,000	Replace	1211	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2022Q4
10480	Coastal Operating Area	BERKELEY TWP	Rt 37 Pelican Island	$ 4,000,000	Replace	4818	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	120	2023Q4
7733	Coastal Operating Area	BRADLEY BEACH	Fletcher Lake Ave. 2" CI, 2.25" CI, 6" CI & 6" AC BTWN 3rd Ave & Lake Terrace (RT-18)	$ 560,000	Replace	1926	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
784	Coastal Operating Area	BRICK TWP	Brick Twp - Bowline Ave from Rt 35 N to Sunset Ln.	$ 21,600	Replace	131	6.00	Ductile Iron	1950	2	DI	Safety and Reliability/Structural	30	2023Q4
8437	Coastal Operating Area	BRICK TWP	Normandy Dr, 6" AC	$ 152,800	Replace	973	6.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
8435	Coastal Operating Area	BRICK TWP	7th Ave, 6" AC	$ 24,000	Replace	141	6.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
8439	Coastal Operating Area	BRICK TWP	Baytree Ct, 6" AC	$ 40,000	Replace	250	6.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	30	2023Q4
7804	Coastal Operating Area	DEAL	Norwood Ave. 2.25" CI & 6" CI	$ 200,000	Replace	2000	8.00	Ductile Iron	1930	12	CI	Safety and Reliability/Structural	30	2025Q4
7800	Coastal Operating Area	DEAL	Darlington Road 4" CI, 4" DI & 6" CI	$ 410,000	Replace	4100	8.00	Ductile Iron	1930	4	DI	Safety and Reliability/Structural	120	2025Q4
7805	Coastal Operating Area	DEAL	Runyan Ave. 2" CI & 6" CI	$ 80,000	Replace	800	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2025Q4
7801	Coastal Operating Area	DEAL	Roseld Ave. 4" CI	$ 90,000	Replace	900	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2025Q4
8273	Coastal Operating Area	DEAL	Almyr Ave. 2" CI & 2.25" CI	$ 460,000	Replace	1800	6.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	30	2025Q4
8287	Coastal Operating Area	DEAL	Whitehall Ave. 2" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8282	Coastal Operating Area	DEAL	Phillips Ave. 4" CI & 6" CI	$ 160,000	Replace	800	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8275	Coastal Operating Area	DEAL	Popular Ave. 4" CI	$ 120,000	Replace	600	6.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	30	2025Q4
7799	Coastal Operating Area	DEAL	Marine Place 4" CI & 6" CI	$ 80,000	Replace	800	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2025Q4
7803	Coastal Operating Area	DEAL	Roseld Court 2.25 CI	$ 50,000	Replace	500	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8299	Coastal Operating Area	DEAL	Woodford Rd. 4" CI, 6" CI & 6"AC	$ 400,000	Replace	2000	8.00	Ductile Iron	1970	4	CI	Safety and Reliability/Structural	30	2025Q4
7806	Coastal Operating Area	DEAL	Lehman Ave. 2' CI and 6" CI	$ 70,000	Replace	700	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2025Q4
8271	Coastal Operating Area	DEAL	Morgan Ave. 4" CI	$ 180,000	Replace	900	6.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2025Q4
8292	Coastal Operating Area	DEAL	W. Morgan Ave. 2" CI	$ 40,000	Replace	200	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	90	2025Q4
8278	Coastal Operating Area	DEAL	Wyckoff St. 4" CI	$ 60,000	Replace	300	6.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	30	2025Q4
8284	Coastal Operating Area	DEAL	Campbell CT. 4" CI & 6" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1990	4	CI	Safety and Reliability/Structural	60	2025Q4
11053	Coastal Operating Area	DEAL	Atlantic Ave to Lady Bess Drive Water Main Rehabilitation	$ 120,000	Rehab	344	6.00	Other	1950	6	AC	Safety and Reliability/Structural	30	2025Q4
5557	Coastal Operating Area	EATONTOWN	Eatontown - Locust Ave main replacement	$ 102,000	Replace	613	6.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
10112	Coastal Operating Area	EATONTOWN	Hope Rd	$ 1,000,000	Replace	1963	24.00	Ductile Iron	1950	16	CEM	System Flows and Pressure	60	2025Q4
10999	Coastal Operating Area	EATONTOWN	Villa Place/Watson Place Main Replacement	$ 115,000	Replace	451	6.00	Ductile Iron	1920	2	CI	System Flows and Pressure	30	2025Q4
571	Coastal Operating Area	FAIR HAVEN	Hillside Pl. - Buena Vista to terminus	$ 105,000	Replace	126	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	30	2025Q4
573	Coastal Operating Area	FAIR HAVEN	Forman Street - Cedar to Hance Ave.	$ 225,000	Replace	1505	8.00	Ductile Iron	2010	8	DI	Safety and Reliability/Structural	30	2025Q4
8097	Coastal Operating Area	FAIR HAVEN	Sycamore Ln. 6" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
8105	Coastal Operating Area	FAIR HAVEN	Browns Ln. 2" CI & 6" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8126	Coastal Operating Area	FAIR HAVEN	Park Ave. 2" CI	$ 152,000	Replace	760	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	10	2025Q4
8112	Coastal Operating Area	FAIR HAVEN	Riverlawn Dr. 2" CI & 6" CI	$ 260,000	Replace	1300	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
8095	Coastal Operating Area	FAIR HAVEN	Katherine Street 2.5" CI	$ 104,000	Replace	520	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8111	Coastal Operating Area	FAIR HAVEN	Hagger Ln. 2.5"CI	$ 100,000	Replace	500	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8125	Coastal Operating Area	FAIR HAVEN	Grange Walk 2" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
8104	Coastal Operating Area	FAIR HAVEN	Pine Tree Ln. 2" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	30	2025Q4
8093	Coastal Operating Area	FAIR HAVEN	Heights Terrace 2" CI	$ 160,000	Replace	800	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8098	Coastal Operating Area	FAIR HAVEN	Doughty Ln. 4" PVC & 2" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8118	Coastal Operating Area	FAIR HAVEN	Parker Ave. 6" CI	$ 300,000	Replace	1500	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2025Q4
8092	Coastal Operating Area	FAIR HAVEN	Highland Ave. 2" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8100	Coastal Operating Area	FAIR HAVEN	Milton Ln. 2" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	30	2025Q4
8099	Coastal Operating Area	FAIR HAVEN	Elm Pl. 6" CI	$ 84,000	Replace	420	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2025Q4
8106	Coastal Operating Area	FAIR HAVEN	Park Ln. 2" CI	$ 1,200	Replace	600	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8108	Coastal Operating Area	FAIR HAVEN	3rd St. 6" CI	$ 700,000	Replace	3500	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	10	2025Q4
8115	Coastal Operating Area	FAIR HAVEN	Navesink Ave. 2" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	5	2025Q4
8109	Coastal Operating Area	FAIR HAVEN	Crozier Ct. 1.5" CI & 2" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1920	1	CI	Safety and Reliability/Structural	60	2025Q4
8096	Coastal Operating Area	FAIR HAVEN	Lockwood Pl. 4" CI & 2" CI	$ 108,000	Replace	540	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8110	Coastal Operating Area	FAIR HAVEN	Church St. 2" CI & 6" CI	$ 384,000	Replace	1920	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
8113	Coastal Operating Area	FAIR HAVEN	Battin Rd. 4" CI, 6" CI & 2" CI	$ 640,000	Replace	3200	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	90	2025Q4
8116	Coastal Operating Area	FAIR HAVEN	Timber Court 2" CI	$ 40,000	Replace	200	8.00	Ductile Iron	1970	2	CI	Safety and Reliability/Structural	25	2025Q4

2022 Foundational Filing
Table 6.5 - Coastal Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
8124	Coastal Operating Area	FAIR HAVEN	Dartmouth Ave. 2" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
10097	Coastal Operating Area	HAZLET	Village Green Way	$ 550,000	Replace	2223	8.00	Ductile Iron	1970	6	DI	Safety and Reliability	90	2025Q4
11055	Coastal Operating Area	HAZLET	Moak Drive to Webster Drive Water Main Rehabilitation	$ 100,000	Rehab	139	6.00	Other	1960	6	AC	Safety and Reliability/Structural	60	2025Q4
11060	Coastal Operating Area	HAZLET	13th Street to Munroe Avenue Main Rehabilitation	$ 100,000	Rehab	223	6.00	Other Plastic	1950	6	CI	Safety and Reliability/Structural	30	2025Q4
10957	Coastal Operating Area	HIGHLANDS	Shrewsbury Ave Main Replacement	$ 127,500	Replace	425	6.00	Ductile Iron	2000	4	CI	System Flows and Pressure	30	2025Q4
10958	Coastal Operating Area	HIGHLANDS	South Bay Ave Main Replacement	$ 160,000	Replace	527	6.00	Ductile Iron	2000	4	CI	System Flows and Pressure	60	2025Q4
10960	Coastal Operating Area	HIGHLANDS	Portland Road Main Replacement	$ 120,000	Replace	369	6.00	Ductile Iron	2000	4	CI	System Flows and Pressure	30	2025Q4
10962	Coastal Operating Area	HIGHLANDS	South Peak Street Main Replacement	$ 230,000	Replace	898	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	60	2025Q4
10964	Coastal Operating Area	HIGHLANDS	Highlands Ave Main Replacement	$ 107,500	Replace	516	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	60	2025Q4
10965	Coastal Operating Area	HIGHLANDS	Bay Street Main Replacement	$ 102,000	Replace	275	6.00	Ductile Iron	1940	4	CI	System Flows and Pressure	30	2025Q4
11025	Coastal Operating Area	HOLMDEL	Beers Street Rehabilitation	$ 225,000	Rehab	1160	12.00	Other Plastic	1960	12	AC	Safety and Reliability/Structural	60	2025Q4
11026	Coastal Operating Area	HOLMDEL	Route 34 Easement Rehab	$ 200,000	Rehab	667	8.00	Other	1960	8	CI	Safety and Reliability/Structural	60	2025Q4
11058	Coastal Operating Area	HOLMDEL	Takolusa Drive to Morse Way South Water Main Rehabilitation	$ 100,000	Rehab	265	8.00	Other	1980	8	AC	Safety and Reliability/Structural	30	2025Q4
11059	Coastal Operating Area	HOLMDEL	East Brook Drive to Overlook Drive Water Main Rehabilitation	$ 250,000	Rehab	770	12.00	Other	1970	12	AC	Safety and Reliability/Structural	25	2025Q4
10419	Coastal Operating Area	HOWELL TWP	N Westfield Road: From Old Bridge Drive to S. Westfield Road	$ 376,000	Replace	1582	8.00	Ductile Iron	1970	6	AC	Safety and Reliability/Structural	30	2023Q4
10569	Coastal Operating Area	HOWELL TWP	Carrera Del Darro Rd: From Dag Hammarskjold Blvd to Guesta De Gomerez Rd / perimeter main	$ 494,500	Replace	2316	8.00	Ductile Iron	1960	4	AC	Safety and Reliability/Structural	90	2025Q4
10497	Coastal Operating Area	HOWELL TWP	Corsa Italia (NW loop) From Dag Hammarskjold Blvd to Dag Hammarskjold	$ 161,250	Replace	738	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2025Q4
10438	Coastal Operating Area	HOWELL TWP	Aldrich Road: From Pinewood Rd (valve VHW-4374) to Spruce Rd (valve VHW-4019)	$ 630,000	Replace	2100	12.00	Ductile Iron	1960	10	AC	Safety and Reliability/Structural	90	2024Q4
10495	Coastal Operating Area	HOWELL TWP	Corsa Italia (SE loop) From Dag Hammarskjold Blvd to Corsa Italia	$ 225,750	Replace	1002	8.00	Ductile Iron	1960	8	AC	Safety and Reliability/Structural	60	2024Q4
10386	Coastal Operating Area	HOWELL TWP	Winsted Drive: From Berkshire Dr (valve VHW-1152) to Berkshire Dr (valve VHW-1160)	$ 376,000	Replace	1595	8.00	Ductile Iron	1970	8	AC	Safety and Reliability/Structural	60	2025Q4
10436	Coastal Operating Area	HOWELL TWP	E Aldrich Road: From Spruce Rd (valve VHW-4019) to terminus near Rt 195 overpass	$ 706,500	Replace	2355	12.00	Ductile Iron	1960	10	AC	Safety and Reliability/Structural	60	2024Q4
10390	Coastal Operating Area	HOWELL TWP	Berkshire Drive: From Markwood Drive to Stratton Drive	$ 517,000	Replace	2570	8.00	Ductile Iron	1970	8	AC	Safety and Reliability/Structural	90	2025Q4
10494	Coastal Operating Area	HOWELL TWP	Corsa Italia (NE loop) From Corsa Italia to Corsa Itlalia	$ 344,000	Replace	1575	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2025Q4
10561	Coastal Operating Area	HOWELL TWP	Carrera Del Darro Rd (West) From Carrera Del Darro Rd SW loop to perimeter main (NW)	$ 311,750	Replace	1447	8.00	Ductile Iron	1960	4	AC	Safety and Reliability/Structural	90	2025Q4
10387	Coastal Operating Area	HOWELL TWP	Stratton Drive : From Winsted Dr to Berkshire Dr	$ 199,750	Replace	850	8.00	Ductile Iron	1970	8	AC	Safety and Reliability/Structural	60	2025Q4
10498	Coastal Operating Area	HOWELL TWP	Carrera Del Darro Rd (East) From Carrera Del Darro Rd SE loop to perimeter main (E)	$ 215,000	Replace	1001	8.00	Ductile Iron	1960	8	AC	Safety and Reliability/Structural	60	2025Q4
10469	Coastal Operating Area	HOWELL TWP	Corsa Italia (NE loop): From Corsa Italia to Corsa Itlalia	$ 344,000	Replace	1636	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	80	2025Q4
9057	Coastal Operating Area	HOWELL TWP	Windsor Rd. 6" AC	$ 160,000	Replace	800	8.00	Ductile Iron	1970	6	AC	Safety and Reliability/Structural	60	2023Q4
9064	Coastal Operating Area	HOWELL TWP	Livingston Dr. 6" AC	$ 280,000	Replace	1400	8.00	Ductile Iron	1970	6	AC	Safety and Reliability/Structural	15	2023Q4
10391	Coastal Operating Area	HOWELL TWP	Markwood Drive: From Old Bridge Drive to Berkshire Drive.	$ 82,250	Replace	2413	8.00	Ductile Iron	1970	10	AC	Safety and Reliability/Structural	90	2025Q4
10444	Coastal Operating Area	HOWELL TWP	Cours De Clemenceau: From entrance Dag Hammarskjold Blvd, loop around Cours De Martinique & Rue De St Germaine Rd to intersection of Parkway Dr and Henley Ct	$ 660,350	Replace	3192	8.00	Ductile Iron	1960	8	AC	Safety and Reliability/Structural	90	2025Q4
10408	Coastal Operating Area	HOWELL TWP	Old Bridge Drive: From S Westfield Dr (valve VHW-709) to S Westfield Rd (valve VHW-707)	$ 470,000	Replace	1755	8.00	Ductile Iron	1970	6	AC	Safety and Reliability/Structural	60	2023Q4
10442	Coastal Operating Area	HOWELL TWP	Aldrich Road: From Pinewood Rd to Jackson Interconnection	$ 2,964,600	Replace	9882	12.00	Ductile Iron	1960	10	AC	Safety and Reliability/Structural	120	2024Q4
10388	Coastal Operating Area	HOWELL TWP	Mendon Drive: From Berkshire Drive to Winsted Drive	$ 146,875	Replace	694	8.00	Ductile Iron	1970	8	AC	Safety and Reliability/Structural	60	2025Q4
10413	Coastal Operating Area	HOWELL TWP	S Westfield Road: From Old Bridge Dr to Sylvan Blvd	$ 546,375	Replace	2323	8.00	Ductile Iron	1970	6	AC	Safety and Reliability/Structural	90	2023Q4
10435	Coastal Operating Area	HOWELL TWP	Burdge Drive: From Aldrich Rd to terminus	$ 205,625	Replace	865	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2024Q4
11022	Coastal Operating Area	HOWELL TWP	Livingston Dr from VLV-2638 to Putnam Rd	$ 136,600	Replace	542	8.00	Ductile Iron	1970	6	AC	System Flows and Pressure	60	2023Q4
10565	Coastal Operating Area	HOWELL TWP	Carrera Del Darro Road: From Dag Hammarskjold Blvd to Guesta De Gomerez Rd / perimeter main	$ 177,375	Replace	909	8.00	Ductile Iron	1960	8	AC	Safety and Reliability/Structural	60	2025Q4
10389	Coastal Operating Area	HOWELL TWP	Stowe Lane: From Mednon Drive to Straton Drive	$ 176,250	Replace	609	8.00	Ductile Iron	1970	8	AC	Safety and Reliability/Structural	60	2025Q4
10496	Coastal Operating Area	HOWELL TWP	Corsa Italia (SW loop) From Dag Hammarskjold Blvd to Dag Hammarskjold	$ 161,250	Replace	639	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2025Q4
7770	Coastal Operating Area	INTERLAKEN	Fernmere Ave. 2" CI	$ 110,000	Replace	1100	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
6178	Coastal Operating Area	LAKEWOOD	12th Street from Monmouth Ave to Squankum Rd	$ 316,000	Replace	1594	8.00	Ductile Iron	1930	6	AC	Safety and Reliability/Structural	15	2024Q4
7935	Coastal Operating Area	LAKEWOOD	Spruce St, 2" Galvinized	$ 142,500	Replace	1452	8.00	Ductile Iron	1950	2	GALV	Safety and Reliability/Structural	60	2023Q4
6179	Coastal Operating Area	LAKEWOOD	Cedar Bridge from Rt 88 to Dr. MLK Drive	$ 516,600	Replace	2583	12.00	Ductile Iron	1960	8	CI	Safety and Reliability	30	2025Q4
7468	Coastal Operating Area	LAKEWOOD	Woehr St. Replace 950' of 6" CI pipe between Park & Cottage Place	$ 225,000	Replace	942	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
7469	Coastal Operating Area	LAKEWOOD	Dewey Ave -Replace 900' =/- of 6" CI from E. 4th St. to exist 8" DI pipe	$ 215,000	Replace	940	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
8003	Coastal Operating Area	LAKEWOOD	4th St, 4", 6"	$ 116,000	Replace	1176	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2024Q4

2022 Foundational Filing
Table 6.5 - Coastal Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
7994	Coastal Operating Area	LAKEWOOD	Park Pl, 2"	$ 80,000	Replace	760	8.00	Ductile Iron	1980	2	CI	Safety and Reliability/Structural	60	2023Q2
9033	Coastal Operating Area	LAKEWOOD	Laurelwood Ave. 6" CI	$ 258,000	Replace	1159	8.00	Ductile Iron	1930	8	DI	Safety and Reliability/Structural	60	2022Q4
7962	Coastal Operating Area	LAKEWOOD	Birch St, 4" CI	$ 107,500	Replace	1064	8.00	PVC	1990	4	CI	Safety and Reliability/Structural	60	2023Q4
9066	Coastal Operating Area	LAKEWOOD	Edgewood Ct. 6" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2022Q2
8964	Coastal Operating Area	LAKEWOOD	1st Street 6" CI	$ 400,000	Replace	2000	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2023Q4
9032	Coastal Operating Area	LAKEWOOD	Parkside Dr. 6" CI	$ 193,500	Replace	900	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	15	2023Q2
9081	Coastal Operating Area	LAKEWOOD	Pine St. 6" CI	$ 260,000	Replace	1300	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	15	2023Q4
7983	Coastal Operating Area	LAKEWOOD	Sunset Rd, 2" CI	$ 105,000	Replace	1018	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	60	2023Q2
8966	Coastal Operating Area	LAKEWOOD	N. Lake Dr. 6" CI & 8" DI	$ 400,000	Replace	2000	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2023Q4
9047	Coastal Operating Area	LAKEWOOD	Stratford Pl. 6" CI	$ 240,000	Replace	1200	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2023Q4
9098	Coastal Operating Area	LAKEWOOD	Shelley St. 6" CI	$ 600	Replace	300	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	30	2024Q4
8004	Coastal Operating Area	LAKEWOOD	Clifton Ave, 4" CI	$ 42,500	Replace	418	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	30	2023Q4
10369	Coastal Operating Area	LAKEWOOD	Downing St	$ 325,000	Rehab	1196	6.00	Other	1950	6	CI	Safety and Reliability/Structural	60	2023Q4
8979	Coastal Operating Area	LAKEWOOD	Park Ave. South 6" CI	$ 280,000	Replace	1400	8.00	Ductile Iron	1950	8	DI	Safety and Reliability/Structural	60	2023Q4
9030	Coastal Operating Area	LAKEWOOD	Tuxedo Terrace 6" AC	$ 80,000	Replace	400	8.00	Ductile Iron	1990	6	AC	Safety and Reliability/Structural	30	2023Q2
9048	Coastal Operating Area	LAKEWOOD	Governors Rd. 6" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2023Q4
10262	Coastal Operating Area	LAKEWOOD	Lisa Court	$ 33,000	Replace	140	4.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2023Q2
6297	Coastal Operating Area	LAKEWOOD	W County Line Rd from Clifton Ave to Laurelwood Ave	$ 1,067,150	Replace	3049	16.00	Ductile Iron	1930	8	CI	Sustained Economic Growth	90	2025Q4
9002	Coastal Operating Area	LAKEWOOD	14th Street 6"AC	$ 220,000	Replace	1100	8.00	Ductile Iron	1930	6	AC	Safety and Reliability/Structural	30	2022Q2
9102	Coastal Operating Area	LAKEWOOD	Read St. 6" AC	$ 124,000	Replace	620	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
10266	Coastal Operating Area	LAKEWOOD	West County Line Road	$ 300,000	Replace	1434	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	60	2025Q4
8974	Coastal Operating Area	LAKEWOOD	E.4th Street 6" CI & 6" AC	$ 180,000	Replace	900	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2023Q4
9004	Coastal Operating Area	LAKEWOOD	14th Street 6" CI BTWN Monmouth Ave. & Princeton Ave.	$ 240,000	Replace	1200	8.00	Ductile Iron	1930	8	DI	Safety and Reliability/Structural	60	2022Q2
9068	Coastal Operating Area	LAKEWOOD	Wynat St. 6" AC	$ 144,000	Replace	720	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2023Q4
10253	Coastal Operating Area	LAKEWOOD	Cedar Row	$ 533,200	Replace	2480	8.00	Ductile Iron	1930	6	DI	Safety and Reliability	90	2023Q2
9034	Coastal Operating Area	LAKEWOOD	Fernwood Ave. 6" AC & 6" CI	$ 322,500	Replace	1370	8.00	Ductile Iron	1930	6	AC	Safety and Reliability/Structural	60	2022Q4
10367	Coastal Operating Area	LAKEWOOD	Conventry Drive	$ 425,000	Rehab	1518	6.00	Other	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
7437	Coastal Operating Area	LAKEWOOD	Cypress Ave Replace 1150 of 8" AC pipe on Cypress from 12" on Oak to Carol	$ 265,000	Replace	1123	8.00	Ductile Iron	1950	8	AC	Safety and Reliability/Structural	60	2024Q4
8738	Coastal Operating Area	LAKEWOOD	Regent Pl, 6" AC	$ 203,700	Replace	966	8.00	Ductile Iron	1930	6	AC	Safety and Reliability/Structural	60	2023Q2
8971	Coastal Operating Area	LAKEWOOD	4th St. 6" CI BTWN Monmouth Ave. & E. 4th St.	$ 1,700,000	Replace	800	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2023Q4
9005	Coastal Operating Area	LAKEWOOD	Hudson St. 6" AC & 6" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1930	6	AC	Safety and Reliability/Structural	120	2022Q2
9073	Coastal Operating Area	LAKEWOOD	Arlington Ave. 6" AC	$ 600,000	Replace	3000	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2023Q2
9100	Coastal Operating Area	LAKEWOOD	Sherwood Dr. 6" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2023Q4
9038	Coastal Operating Area	LAKEWOOD	Pinemere Ave. 6" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2022Q4
8006	Coastal Operating Area	LAKEWOOD	Clifton Ave, 4" CI, 6" CI	$ 162,500	Replace	1608	12.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2024Q4
10376	Coastal Operating Area	LAKEWOOD	S Lake Dr	$ 410,000	Replace	2127	8.00	Ductile Iron	1930	8	DI	Safety and Reliability/Structural	90	2022Q4
8983	Coastal Operating Area	LAKEWOOD	3rd St. 6" CI	$ 504,000	Replace	2520	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2023Q4
9075	Coastal Operating Area	LAKEWOOD	W. Spruce St. 6" AC	$ 200,000	Replace	1000	8.00	Ductile Iron	1980	6	AC	Safety and Reliability/Structural	90	2023Q4
7999	Coastal Operating Area	LAKEWOOD	Monmouth Ave, 4" CI, 6" DI	$ 64,000	Replace	633	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2023Q4
8001	Coastal Operating Area	LAKEWOOD	4th St, 4", 6" CI	$ 125,000	Replace	1258	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2023Q4
8739	Coastal Operating Area	LAKEWOOD	Robin Dr, 6" AC	$ 283,500	Replace	1348	8.00	Ductile Iron	1980	8	AC	Safety and Reliability/Structural	60	2023Q4
9039	Coastal Operating Area	LAKEWOOD	RT-9/Madison Ave. 6" CI	$ 1,700,000	Replace	8000	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	20	2022Q4
8985	Coastal Operating Area	LAKEWOOD	6th St. 6" CI BTWN Clifton & Lexington	$ 176,400	Replace	700	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2023Q4
8992	Coastal Operating Area	LAKEWOOD	Squankum Rd. 6" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q4
9035	Coastal Operating Area	LAKEWOOD	Oakwood Ave. 6" AC & 6" CI	$ 240,800	Replace	1115	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2022Q4
8019	Coastal Operating Area	LAKEWOOD	E 8th St, 2" CI, 6" DI	$ 137,500	Replace	1364	8.00	Ductile Iron	2000	6	DI	Safety and Reliability/Structural	20	2023Q2
8987	Coastal Operating Area	LAKEWOOD	7th St. 6" CI	$ 780,000	Replace	3900	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2023Q4
9001	Coastal Operating Area	LAKEWOOD	14th Street 6" CI	$ 1,400,000	Replace	6851	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	120	2023Q2
10250	Coastal Operating Area	LAKEWOOD	Chalet Terrace	$ 96,750	Replace	439	8.00	Ductile Iron	1930	6	DI	Safety and Reliability	30	2025Q4
10362	Coastal Operating Area	LAKEWOOD	West County Line Road (CR 526)	$ 660,000	Replace	3043	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	90	2025Q4
9036	Coastal Operating Area	LAKEWOOD	Cedarview Ave. 6" CI & 6" AC	$ 300,000	Replace	990	8.00	Ductile Iron	1930	6	AC	Safety and Reliability/Structural	60	2022Q4
9093	Coastal Operating Area	LAKEWOOD	Murray St. 6" CI	$ 160,000	Replace	800	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	30	2024Q4
10464	Coastal Operating Area	LAKEWOOD	Ardenwood Avenue	$ 160,000	Replace	688	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	90	2023Q2
10254	Coastal Operating Area	LAKEWOOD	Martin Street	$ 172,000	Replace	450	8.00	Ductile Iron	1930	6	DI	Safety and Reliability	30	2023Q2
10356	Coastal Operating Area	LAKEWOOD	Avis Avenue	$ 140,000	Replace	608	8.00	Ductile Iron	1930	6	DI	Safety and Reliability/Structural	60	2025Q4
8735	Coastal Operating Area	LAKEWOOD	Regent Dr., 8" AC	$ 626,430	Replace	3064	8.00	Ductile Iron	1980	8	AC	Safety and Reliability/Structural	90	2024Q4
9028	Coastal Operating Area	LAKEWOOD	Tanglewood Ln. 6" AC	$ 340,000	Replace	1703	8.00	Ductile Iron	1990	6	AC	Safety and Reliability/Structural	25	2023Q2
9085	Coastal Operating Area	LAKEWOOD	Pine St. 6" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2022Q4
10366	Coastal Operating Area	LAKEWOOD	Williamsburg Lane	$ 325,000	Rehab	1141	6.00	Other	1950	6	CI	Safety and Reliability/Structural	30	2025Q4
10370	Coastal Operating Area	LAKEWOOD	North Lake Drive	$ 950,000	Replace	4028	8.00	Ductile Iron	1930	8	AC	Safety and Reliability/Structural	14	2023Q4
10384	Coastal Operating Area	LAKEWOOD	Bradshaw Road	$ 86,000	Replace	342	8.00	Ductile Iron	1930	8	DI	Safety and Reliability/Structural	14	2022Q4
10261	Coastal Operating Area	LAKEWOOD	Pine Park Avenue	$ 250,000	Replace	1052	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2023Q2
6924	Coastal Operating Area	LAKEWOOD	Hope Chapel Road from W. County Line Road to 14th Street	$ 285,000	Replace	1913	12.00	Ductile Iron	1980	6	AC	System Flows and Pressure	60	2024Q4
8990	Coastal Operating Area	LAKEWOOD	8th St.6" CI BTWN RT-9 & Monmouth Ave.	$ 302,400	Replace	1200	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2023Q4
8969	Coastal Operating Area	LAKEWOOD	Forest Ave. 6" CI & 8" CI BTWN 4th St. & N. Lake Dr.	$ 520,000	Replace	2600	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	90	2024Q4
9037	Coastal Operating Area	LAKEWOOD	Heathwood Ave. 6" CI	$ 200,000	Replace	678	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2022Q4
10364	Coastal Operating Area	LAKEWOOD	Tudor Ct	$ 305,000	Rehab	1112	6.00	Other	1950	6	CI	Safety and Reliability/Structural	30	2025Q4
10383	Coastal Operating Area	LAKEWOOD	Davis Road	$ 130,000	Replace	625	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	90	2022Q4
8963	Coastal Operating Area	LAKEWOOD	State Hwy 88- 6" CI	$ 217,000	Replace	620	12.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2022Q2
9099	Coastal Operating Area	LAKEWOOD	High St. 6" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
10929	Coastal Operating Area	LAKEWOOD	E 4th St from Ridge 4th St to Manetta Ave	$ 507,375	Replace	1862	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2023Q2
10378	Coastal Operating Area	LAKEWOOD	Myrtle Place	$ 205,000	Replace	922	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2023Q4

2022 Foundational Filing
Table 6.5 - Coastal Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
10941	Coastal Operating Area	LAKEWOOD	Sampson Ave from Bergan Ave to E 4th St	$ 175,395	Replace	696	8.00	Ductile Iron	1980	6	CI	System Flows and Pressure	60	2023Q2
10942	Coastal Operating Area	LAKEWOOD	Negba St from E 4th St to Ridge Ave	$ 105,340	Replace	418	8.00	Ductile Iron	1950	6	DI	System Flows and Pressure	30	2023Q2
10943	Coastal Operating Area	LAKEWOOD	Stirling Ave from Linden Ave to Terminus	$ 96,265	Replace	382	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q2
10944	Coastal Operating Area	LAKEWOOD	Stirling Ave from Somerset Ave to N Oakland St	$ 93,745	Replace	372	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	30	2023Q2
10945	Coastal Operating Area	LAKEWOOD	Linden Ave from Ocean Ave to Somerset Ave	$ 338,690	Replace	1344	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	2023Q2
10256	Coastal Operating Area	LAKEWOOD	Sherie Court	$ 86,000	Replace	347	8.00	Ductile Iron	1930	6	CI	Safety and Reliability	60	2023Q2
10265	Coastal Operating Area	LAKEWOOD	Cathedral Drive	$ 295,000	Replace	1348	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	60	2023Q4
10268	Coastal Operating Area	LAKEWOOD	Hawthorne Street / Poplar Street	$ 75,000	Replace	777	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2023Q4
10368	Coastal Operating Area	LAKEWOOD	Governors Road	$ 425,000	Rehab	1526	6.00	Other	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
10363	Coastal Operating Area	LAKEWOOD	Pricneton Ave (Conventry Square)	$ 475,000	Rehab	2173	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	90	2025Q4
10365	Coastal Operating Area	LAKEWOOD	Colony Circle	$ 425,000	Rehab	1493	6.00	Other	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
10381	Coastal Operating Area	LAKEWOOD	Sunset Road	$ 172,000	Replace	698	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	60	2022Q4
10462	Coastal Operating Area	LAKEWOOD	Central Avenue	$ 1,700,000	Replace	4994	8.00	Ductile Iron	1930	8	AC	Safety and Reliability/Structural	120	2023Q4
11027	Coastal Operating Area	LAKEWOOD	Glen Ave from Central Ave to Carlton Ave	$ 323,300	Replace	1283	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2022Q4
11028	Coastal Operating Area	LAKEWOOD	Glen Ave from Central Ave to Carlton Ave_AC Pipe	$ 298,600	Replace	1185	8.00	Ductile Iron	1970	6	AC	System Flows and Pressure	60	2022Q4
11029	Coastal Operating Area	LAKEWOOD	Lois Ln from Arlington Ave to MLK Dr	$ 151,650	Replace	674	8.00	Ductile Iron	1960	8	CI	System Flows and Pressure	60	2022Q4
11036	Coastal Operating Area	LAKEWOOD	John ST from RT9 to MLK Dr	$ 335,700	Replace	1332	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2023Q2
7438	Coastal Operating Area	LAKEWOOD	Canterberry Rd. Replace 1770' of 6" AC pipe between W. County Line Rd. and Tanglewood	$ 440,000	Replace	1720	8.00	Ductile Iron	1990	6	AC	Safety and Reliability/Structural	60	2023Q2
8024	Coastal Operating Area	LAKEWOOD	6th St, 4" CI, 6" CI	$ 115,000	Replace	1140	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2023Q4
10382	Coastal Operating Area	LAKEWOOD	Kimball Rd	$ 150,000	Replace	550	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2022Q4
250	Coastal Operating Area	LITTLE SILVER	Little Silver - Seven Bridges Road (from Little Silver Pt Rd to Holly Dr)	$ 180,000	Replace	1049	8.00	Ductile Iron	1920	6	CI	Relocation/Opportunity	60	2025Q4
8186	Coastal Operating Area	LITTLE SILVER	Rosslyn Ct. 2" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	60	2025Q4
8130	Coastal Operating Area	LITTLE SILVER	Church St. 4" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2025Q4
8127	Coastal Operating Area	LITTLE SILVER	Prospect Ave. 2" CI, 6" CI & 6" AC	$ 324,000	Replace	1620	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2025Q4
8187	Coastal Operating Area	LITTLE SILVER	Shrewood Circle 2.25" CI	$ 40,000	Replace	200	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	30	2025Q4
8135	Coastal Operating Area	LITTLE SILVER	Branch Ave. 2" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	10	2025Q4
8134	Coastal Operating Area	LITTLE SILVER	Woodbine Ave. 2" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8133	Coastal Operating Area	LITTLE SILVER	Alden Terrace 2" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	30	2025Q4
8136	Coastal Operating Area	LITTLE SILVER	Borden Pl. 2" CI & 6" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2025Q4
8128	Coastal Operating Area	LITTLE SILVER	Orchard Pl. 2"CI	$ 120,000	Replace	600	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
11011	Coastal Operating Area	LITTLE SILVER	Riverview Ave main replacement	$ 170,000	Replace	676	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8131	Coastal Operating Area	LITTLE SILVER	Standish Rd. 2 " CI	$ 120,000	Replace	600	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	60	2025Q4
5722	Coastal Operating Area	LONG BRANCH	Long Branch - John Street from Hendrickson Ave to terminus	$ 145,000	Replace	395	6.00	Ductile Iron	1920	2	GALV	System Flows and Pressure	30	2025Q4
7812	Coastal Operating Area	LONG BRANCH	Stuyveasant Place 2" CI	$ 70,000	Replace	700	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7815	Coastal Operating Area	LONG BRANCH	Bethal Ave. 4" CI	$ 64,000	Replace	320	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	30	2025Q4
7820	Coastal Operating Area	LONG BRANCH	Castlewall Ave. 2" GALV	$ 260,000	Replace	1300	8.00	Ductile Iron	1920	2	GALV	Safety and Reliability/Structural	30	2025Q4
7888	Coastal Operating Area	LONG BRANCH	Conover Pl. 2" GALV	$ 44,000	Replace	220	8.00	Ductile Iron	1920	2	GALV	Safety and Reliability/Structural	30	2025Q4
7838	Coastal Operating Area	LONG BRANCH	Cottage Ave. 4" UNK, 2" CI & 4" CI	$ 300,000	Replace	1500	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
7861	Coastal Operating Area	LONG BRANCH	Ocean Blvd. 2" BTWN Dunbar Ave. & Arthur Ave.	$ 100,000	Replace	500	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7811	Coastal Operating Area	LONG BRANCH	Ocean Court 2" CI	$ 40,000	Replace	400	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	30	2025Q4
7829	Coastal Operating Area	LONG BRANCH	Oakley Ave. 2" CI & 6" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7833	Coastal Operating Area	LONG BRANCH	Marshall Court 2" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	90	2025Q4
7859	Coastal Operating Area	LONG BRANCH	Vanpelt Place 2" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	30	2025Q4
7809	Coastal Operating Area	LONG BRANCH	N. Lincoln Ave. 2" GALV & 6" CO	$ 100,000	Replace	1000	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
7860	Coastal Operating Area	LONG BRANCH	Arthur Ave 2" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
7813	Coastal Operating Area	LONG BRANCH	Pullman Ave. 2 " CI	$ 100,000	Replace	500	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7818	Coastal Operating Area	LONG BRANCH	Norgrove Place 2" & 6" CI	$ 300,000	Replace	1500	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
7844	Coastal Operating Area	LONG BRANCH	Howland Ave. 2"	$ 220,000	Replace	1100	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7894	Coastal Operating Area	LONG BRANCH	3rd Ave. 6" CI	$ 280,000	Replace	1400	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
7827	Coastal Operating Area	LONG BRANCH	Fairfield Ave. 2" CI & 6" CI	$ 160,000	Replace	800	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7835	Coastal Operating Area	LONG BRANCH	Hollywood Ave. & Monmouth Place 2" CI	$ 760,000	Replace	3800	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	90	2025Q4
7886	Coastal Operating Area	LONG BRANCH	Park Pl. 2" GALV	$ 120,000	Replace	600	8.00	Ductile Iron	1920	2	GALV	Safety and Reliability/Structural	4	2025Q4
7821	Coastal Operating Area	LONG BRANCH	Elizabeth Terrace 2" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7834	Coastal Operating Area	LONG BRANCH	Lenox Ave. & Woodgate Ave. 4" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
7887	Coastal Operating Area	LONG BRANCH	Brinley St. 2" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1920	2	DI	Safety and Reliability/Structural	60	2025Q4
7857	Coastal Operating Area	LONG BRANCH	N. Bath Ave. 2" GALV & 4" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
7864	Coastal Operating Area	LONG BRANCH	Nesto Terrace 2" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	30	2025Q4
7823	Coastal Operating Area	LONG BRANCH	Branton Ave 2" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7830	Coastal Operating Area	LONG BRANCH	Jersey Ave. 2" CI & 6" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7832	Coastal Operating Area	LONG BRANCH	Reid Street 2" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7900	Coastal Operating Area	LONG BRANCH	N. 2nd Ave. 4" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	30	2025Q4
7851	Coastal Operating Area	LONG BRANCH	Summer Street & Springdale Ave. 2" & 6" CI	$ 380,000	Replace	1900	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
7853	Coastal Operating Area	LONG BRANCH	Pearl Street 2" CI & 6" CI	$ 280,000	Replace	1400	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	5	2025Q4
7902	Coastal Operating Area	LONG BRANCH	Liberty St. 6" CI	$ 140,000	Replace	1400	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	5	2025Q4
7904	Coastal Operating Area	LONG BRANCH	Union Ave. 6" CI 7 6" AC	$ 340,000	Replace	1700	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2025Q4
8302	Coastal Operating Area	LONG BRANCH	Middle Ln. 6" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	90	2025Q4
7903	Coastal Operating Area	LONG BRANCH	Monmouth Ave. 2" CI	$ 160,000	Replace	800	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	60	2025Q4
7807	Coastal Operating Area	LONG BRANCH	Stratton Place 4" CI	$ 40,000	Replace	400	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
7841	Coastal Operating Area	LONG BRANCH	Indiana Ave. 2" GALV & 4" CI	$ 600,000	Replace	3000	8.00	Ductile Iron	1920	2	GALV	Safety and Reliability/Structural	30	2025Q4
7856	Coastal Operating Area	LONG BRANCH	Cleveland Ave. 2" CI & 6" AC	$ 400,000	Replace	2000	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	90	2025Q4
7837	Coastal Operating Area	LONG BRANCH	Hoey Street 2" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7842	Coastal Operating Area	LONG BRANCH	Cottage Place 4" CI & 6" CI	$ 360,000	Replace	1800	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
7840	Coastal Operating Area	LONG BRANCH	W. End Ave. 2" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
7847	Coastal Operating Area	LONG BRANCH	W. End Court 4" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	90	2025Q4
7828	Coastal Operating Area	LONG BRANCH	Yorke Ave. 2" CI & 6" CI	$ 164,000	Replace	820	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7877	Coastal Operating Area	LONG BRANCH	Jay Street 2" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	30	2025Q4
7858	Coastal Operating Area	LONG BRANCH	Dunbar Ave. 2" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1920	8	DI	Safety and Reliability/Structural	60	2025Q4
7897	Coastal Operating Area	LONG BRANCH	Memorial Pkwy. 2" CI	$ 60,000	Rehab	300	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	25	2025Q4
7810	Coastal Operating Area	LONG BRANCH	Garfield Terrace 2" CI & 6" CI	$ 50,000	Replace	500	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
7814	Coastal Operating Area	LONG BRANCH	Lincoln Court 2" CI	$ 240,000	Replace	1200	8.00	Ductile Iron	1920	6	AC	Safety and Reliability/Structural	60	2025Q4
7839	Coastal Operating Area	LONG BRANCH	Shrewsbury Ave. 4" CI & 6" AC	$ 400,000	Replace	2000	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	180	2025Q4
7848	Coastal Operating Area	LONG BRANCH	Eastbourne Ave. 1.25" CI & 2" CI	$ 360,000	Replace	1800	8.00	Ductile Iron	1920	1	CI	Safety and Reliability/Structural	60	2025Q4
7916	Coastal Operating Area	LONG BRANCH	Long Branch Ave. 6" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2025Q4
7831	Coastal Operating Area	LONG BRANCH	Hoey Ave. 2" CI & 4" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7917	Coastal Operating Area	LONG BRANCH	Hoyt St. Now Court Street 2" CI	$ 64,000	Replace	320	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	30	2025Q4
8324	Coastal Operating Area	LONG BRANCH	River Ln. 6" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
786	Coastal Operating Area	MANTOLOKING	Mantoloking - Old Bridge St from Bay Ave to terminus (bay).	$ 25,200	Replace	222	4.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2024Q4
9722	Coastal Operating Area	MANTOLOKING	Bergen Channel Lagoon Ln	$ 574,600	Replace	2340	8.00	Ductile Iron	1950	8	DI	Safety and Reliability	90	2023Q4
10475	Coastal Operating Area	MANTOLOKING	Lagoon Lane	$ 72,000	Replace	335	6.00	Ductile Iron	1950	6	DI	Safety and Reliability/Structural	30	2023Q4
10989	Coastal Operating Area	MATAWAN	Monmouth Ct main replacement	$ 100,000	Replace	393	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
7930	Coastal Operating Area	MIDDLETOWN	Ridge Ave. 2" CI	$ 1,400	Replace	700	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	60	2025Q4
8011	Coastal Operating Area	MIDDLETOWN	Union Ave. 6" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	15	2025Q4
7969	Coastal Operating Area	MIDDLETOWN	Morningside Pl. 2" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1970	2	CI	Safety and Reliability/Structural	60	2025Q4
7940	Coastal Operating Area	MIDDLETOWN	Campbell Ave. 2" CI BTWN Wilson Ave. & Main St.	$ 40,000	Replace	200	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	30	2025Q4
8058	Coastal Operating Area	MIDDLETOWN	Linden AVENUE 2" CI	$ 100,000	Replace	410	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	30	2025Q4
8059	Coastal Operating Area	MIDDLETOWN	Butler Ln. 2" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
7960	Coastal Operating Area	MIDDLETOWN	Grace Ave. 2" CI & 6" CI	$ 280,000	Replace	1400	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2025Q4
8060	Coastal Operating Area	MIDDLETOWN	Blossom Circle W. 2" CI	$ 40,000	Replace	200	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
8062	Coastal Operating Area	MIDDLETOWN	Elm Ct. 2" CI	$ 40,000	Replace	200	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
7980	Coastal Operating Area	MIDDLETOWN	Oregon Ave. 1" CI & 2" CI	$ 104,000	Replace	520	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
8061	Coastal Operating Area	MIDDLETOWN	Blossom Circle E. 2" CI	$ 44,000	Replace	220	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
8028	Coastal Operating Area	MIDDLETOWN	Bray Ave. BTWN Monmouth Ave. & Bayside Pkwy	$ 120,000	Replace	600	8.00	Ductile Iron	1990	4	CI	Safety and Reliability/Structural	60	2025Q4
7937	Coastal Operating Area	MIDDLETOWN	Cherry St. 1.5" GALV	$ 100,000	Replace	500	8.00	Ductile Iron	2000	1	GALV	Safety and Reliability/Structural	30	2025Q4
8030	Coastal Operating Area	MIDDLETOWN	Hudson Ave. 4" CI & 6" CI BTWN Monmouth Ave. & Bayside Pkwy	$ 100,000	Replace	500	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
7936	Coastal Operating Area	MIDDLETOWN	Compton St. 2" CI	$ 24,000	Replace	120	6.00	Ductile Iron	1990	2	CI	Safety and Reliability/Structural	30	2025Q4
7938	Coastal Operating Area	MIDDLETOWN	Collins Ave 2" CI	$ 120,000	Replace	552	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	60	2025Q4
7968	Coastal Operating Area	MIDDLETOWN	Woodlawn Ave. 6" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2025Q4
8068	Coastal Operating Area	MIDDLETOWN	Brotherton Ave. 2" CI	$ 160,000	Replace	800	8.00	Ductile Iron	1970	2	CI	Safety and Reliability/Structural	30	2025Q4
7998	Coastal Operating Area	MIDDLETOWN	Atlantic Ave. 2" CI	$ 260,000	Replace	1300	8.00	Ductile Iron	1980	2	CI	Safety and Reliability/Structural	60	2025Q4
5468	Coastal Operating Area	MIDDLETOWN	Middletown - Pine St main Replacement	$ 129,000	Replace	568	8.00	Ductile Iron	1960	6	CI	Relocation/Opportunity	60	2025Q4
7380	Coastal Operating Area	MIDDLETOWN	Water main replacement\rehab	$ 150,000	Replace	959	8.00	Ductile Iron	1950	12	CI	Safety and Reliability	10	2025Q4
7923	Coastal Operating Area	MIDDLETOWN	Maple Drive 2" CI	$ 64,000	Replace	320	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	25	2025Q4
7925	Coastal Operating Area	MIDDLETOWN	Hollie Dr. W. 2" CI 7 6" AC	$ 100,000	Replace	500	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2025Q4
7932	Coastal Operating Area	MIDDLETOWN	Garnsey Place 2" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	60	2025Q4
8032	Coastal Operating Area	MIDDLETOWN	Monmouth Ave. 2" CI Btwn Port Monmouth Rd & Terminus	$ 60,000	Replace	300	8.00	Ductile Iron	2000	2	CI	Safety and Reliability/Structural	30	2025Q4
7953	Coastal Operating Area	MIDDLETOWN	Walnut St. 2" CI & 6" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
7972	Coastal Operating Area	MIDDLETOWN	1st Ave. 2" CI	$ 160,000	Replace	800	8.00	Ductile Iron	1990	2	CI	Safety and Reliability/Structural	60	2025Q4
7976	Coastal Operating Area	MIDDLETOWN	Bray Ave. 6" CI BTWN Main St. & Terminus	$ 700,000	Replace	2334	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	90	2025Q4
8002	Coastal Operating Area	MIDDLETOWN	Union Pl. 2" CI	$ 24,000	Replace	120	8.00	Ductile Iron	1990	2	CI	Safety and Reliability/Structural	30	2025Q4
8064	Coastal Operating Area	MIDDLETOWN	Division St. 2" CI & 2" PE	$ 140,000	Replace	700	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	60	2025Q4
7950	Coastal Operating Area	MIDDLETOWN	Lawrence Pl. 2" CI	$ 40,000	Replace	200	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	30	2025Q4
7975	Coastal Operating Area	MIDDLETOWN	Central Ave. 6" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2025Q4
7954	Coastal Operating Area	MIDDLETOWN	Poplar St. 2" CI & 6" CI	$ 100,000	Replace	1000	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	30	2025Q4
7971	Coastal Operating Area	MIDDLETOWN	Sunset Pl. 2" CI & 6" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
8005	Coastal Operating Area	MIDDLETOWN	Atlantic Ave. 4" CI BTWN Port Monmouth RD. & Park Ave.	$ 224,000	Replace	1120	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	30	2025Q4
8065	Coastal Operating Area	MIDDLETOWN	Hall St. and Division St 2" CI	$ 11,000	Replace	637	8.00	Ductile Iron	1930	2	CI	System Flows and Pressure	60	2025Q4
10420	Coastal Operating Area	MIDDLETOWN	1st Ave 6" CI	$ 111,000	Replace	558	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2025Q4
7982	Coastal Operating Area	MIDDLETOWN	Baldwin Ave. 2" CI & 6" CI	$ 408,000	Replace	2040	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	90	2025Q4
7956	Coastal Operating Area	MIDDLETOWN	Hudson Ave. 2" CI & 6" CI	$ 320,000	Replace	1758	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	60	2025Q4
8000	Coastal Operating Area	MIDDLETOWN	Sycamore Ave. and Atlantic Ave 2" CI, 4" CI & 6" CI	$ 743,000	Replace	3738	8.00	Ductile Iron	1980	2	CI	Safety and Reliability/Structural	90	2025Q4
7933	Coastal Operating Area	MIDDLETOWN	Campbell Ave. 2" CI and Compton Creek Crossing	$ 600,000	Replace	1983	8.00	Ductile Iron	1960	8	AC	Safety and Reliability/Structural	90	2025Q4
8007	Coastal Operating Area	MIDDLETOWN	Port Monmouth Rd. 4" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	30	2025Q4
8010	Coastal Operating Area	MIDDLETOWN	Jersey Ave. 6" CI & 2" CI	$ 280,000	Replace	1400	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8015	Coastal Operating Area	MIDDLETOWN	Woodbine Street 6" AC & 6" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2025Q4
8027	Coastal Operating Area	MIDDLETOWN	Krueger Pl 4" CI	$ 64,000	Replace	320	8.00	Ductile Iron	1990	4	CI	Safety and Reliability/Structural	30	2025Q4
8063	Coastal Operating Area	MIDDLETOWN	Nottingham Way 2" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
8009	Coastal Operating Area	MIDDLETOWN	Oregon Ave. 6" CI BTWN Jersey Ave. & Fielding Ave.	$ 120,000	Replace	600	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	35	2025Q4
10951	Coastal Operating Area	MIDDLETOWN	Bay Ave Main Replacement	$ 121,250	Replace	589	6.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	60	2025Q4
10952	Coastal Operating Area	MIDDLETOWN	Florence Ave 2" Main Replacement	$ 32,500	Replace	130	4.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	30	2025Q4
10953	Coastal Operating Area	MIDDLETOWN	Dartmouth Ave Main Replacement	$ 105,000	Replace	420	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
10954	Coastal Operating Area	MIDDLETOWN	East Twin Road Main Replacement	$ 109,000	Replace	437	6.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	30	2025Q4

2022 Foundational Filing
Table 6.5 - Coastal Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
10955	Coastal Operating Area	MIDDLETOWN	Valley Road Main Replacement	$ 225,000	Replace	670	8.00	Ductile Iron	1960	4	CI	System Flows and Pressure	60	2025Q4
10956	Coastal Operating Area	MIDDLETOWN	Brighton Ave main replacement	$ 275,000	Replace	1003	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	60	2025Q4
10959	Coastal Operating Area	MIDDLETOWN	Andover St Main Replacement	$ 160,000	Replace	632	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
10961	Coastal Operating Area	MIDDLETOWN	Harvard St Main Replacement	$ 417,500	Replace	1642	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	8	2025Q4
10963	Coastal Operating Area	MIDDLETOWN	Jefferson St main replacement	$ 175,000	Replace	693	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
10966	Coastal Operating Area	MIDDLETOWN	Delware Ave Main Replacement	$ 100,000	Replace	397	6.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2025Q4
10967	Coastal Operating Area	MIDDLETOWN	Mohawk Ave Main Replacement	$ 130,000	Replace	510	6.00	Ductile Iron	1930	2	CI	System Flows and Pressure	60	2025Q4
10969	Coastal Operating Area	MIDDLETOWN	1st Ave Main Replacement	$ 75,000	Replace	466	6.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2025Q4
10970	Coastal Operating Area	MIDDLETOWN	Millers Crossing Main Replacement	$ 400,000	Replace	1600	6.00	Ductile Iron	1970	2	CI	System Flows and Pressure	15	2025Q4
10971	Coastal Operating Area	MIDDLETOWN	Brookside Road Main Replacement	$ 175,000	Replace	541	6.00	Ductile Iron	1970	2	CI	System Flows and Pressure	60	2025Q4
10972	Coastal Operating Area	MIDDLETOWN	Braeside Ave Main Replacement	$ 75,000	Replace	213	4.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2025Q4
10973	Coastal Operating Area	MIDDLETOWN	David Court Main Replacement	$ 83,000	Replace	330	4.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2025Q4
10974	Coastal Operating Area	MIDDLETOWN	Canterbury Court Main Replacement	$ 82,500	Replace	328	4.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2025Q4
10975	Coastal Operating Area	MIDDLETOWN	Grove Street Main Replacement	$ 123,000	Replace	485	6.00	Ductile Iron	1960	2	CI	System Flows and Pressure	30	2025Q4
10976	Coastal Operating Area	MIDDLETOWN	Willis Place Main Replacement	$ 60,000	Replace	192	4.00	Ductile Iron	1980	2	CI	System Flows and Pressure	30	2025Q4
10977	Coastal Operating Area	MIDDLETOWN	Patterson Ave Main Replacement	$ 125,000	Replace	411	4.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2025Q4
10978	Coastal Operating Area	MIDDLETOWN	Crescent Parkway/Mohawk Main Replacement	$ 462,500	Replace	1723	8.00	Ductile Iron	1950	4	CI	System Flows and Pressure	60	2025Q4
10979	Coastal Operating Area	MIDDLETOWN	East Roosevelt Circle Main Replacement	$ 37,500	Replace	145	4.00	Ductile Iron	1970	2	CI	System Flows and Pressure	30	2025Q4
10980	Coastal Operating Area	MIDDLETOWN	Walnut Ave/Pine Street Main Replacement	$ 300,000	Replace	1058	8.00	Ductile Iron	1950	2	CI	System Flows and Pressure	60	2025Q4
10986	Coastal Operating Area	MIDDLETOWN	Longwood Ave, Middletown NJ	$ 250,000	Replace	1008	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
10988	Coastal Operating Area	MIDDLETOWN	Minton Court Main Replacement	$ 100,000	Replace	364	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
10991	Coastal Operating Area	MIDDLETOWN	Corn Lane main replacement	$ 130,000	Replace	514	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
7381	Coastal Operating Area	MIDDLETOWN	Midd State Hwy 35 & Navesink River RD Water main replacement\rehab	$ 225,000	Replace	800	8.00	Ductile Iron	1950	2	CI	Safety and Reliability	60	2025Q4
11003	Coastal Operating Area	MIDDLETOWN	Gayboy CT main replacement	$ 106,000	Replace	422	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
11005	Coastal Operating Area	MIDDLETOWN	Azilea Ct Main replacement	$ 80,000	Replace	315	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
7974	Coastal Operating Area	MIDDLETOWN	2nd Ave. 2" CI	$ 104,000	Replace	520	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	60	2025Q4
7981	Coastal Operating Area	MIDDLETOWN	Ohio Ave. 2" GALV & 6" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
11006	Coastal Operating Area	MIDDLETOWN	Broadway Main Replacement	$ 90,000	Replace	335	6.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2025Q4
11007	Coastal Operating Area	MIDDLETOWN	Ridgewood Ave/Viola Ave Main Replacement	$ 150,000	Replace	592	8.00	Ductile Iron	1940	2	CI	System Flows and Pressure	60	2025Q4
11008	Coastal Operating Area	MIDDLETOWN	Thompson Ave Main Replacement	$ 60,000	Replace	208	8.00	Ductile Iron	1940	2	CI	System Flows and Pressure	30	2025Q4
11009	Coastal Operating Area	MIDDLETOWN	Dalby Pl main replacement	$ 85,000	Replace	340	6.00	Ductile Iron	1990	4	DI	Safety and Reliability/Structural	30	2025Q4
11010	Coastal Operating Area	MIDDLETOWN	Dove Ct main replacement	$ 75,000	Replace	301	6.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
8067	Coastal Operating Area	MIDDLETOWN	Locust Point Rd. 2" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	60	2025Q4
8181	Coastal Operating Area	MIDDLETOWN	Meadowview Ln. 2.25" CI	$ 64,000	Replace	320	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
7931	Coastal Operating Area	MIDDLETOWN	Park Place 2" CI	$ 1,200	Replace	600	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	60	2025Q4
8031	Coastal Operating Area	MIDDLETOWN	Park Ave. 2" CI BTWN Main St. & Terminus	$ 80,000	Replace	400	8.00	Ductile Iron	2000	2	CI	Safety and Reliability/Structural	30	2025Q4
11052	Coastal Operating Area	MIDDLETOWN	Rutledge to Iler Water Main Rehabilitation	$ 12,000	Rehab	547	8.00	Other	1950	8	AC	Safety and Reliability/Structural	60	2025Q4
11054	Coastal Operating Area	MIDDLETOWN	Daniel Drive to Rosewood Terrace Water Main Rehabilitation	$ 100,000	Rehab	195	8.00	Other	1950	8	AC	Safety and Reliability/Structural	30	2025Q4
8153	Coastal Operating Area	MONMOUTH BEACH	West St. 2" CI & 6" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2025Q4
8150	Coastal Operating Area	MONMOUTH BEACH	River Ave. 4" CI	$ 160,000	Replace	1987	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2025Q4
8155	Coastal Operating Area	MONMOUTH BEACH	Circle Dr. 4" DI	$ 26,000	Replace	130	8.00	Ductile Iron	1950	4	DI	Safety and Reliability/Structural	10	2025Q4
8148	Coastal Operating Area	MONMOUTH BEACH	Riverview Rd. 4" DI & 6" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
11051	Coastal Operating Area	MONMOUTH BEACH	River Ave to Channel Drive Water Main Rehabilitation	$ 230,000	Rehab	760	6.00	Other	1940	6	CI	Safety and Reliability/Structural	60	2025Q4
7744	Coastal Operating Area	NEPTUNE	Embury Ave. 4" CI	$ 140,000	Replace	1400	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	30	2025Q4
6041	Coastal Operating Area	NEPTUNE	Couse Rd.	$ 236,000	Replace	1476	8.00	Ductile Iron	1940	2	CI	Safety and Reliability	60	2025Q4
8565	Coastal Operating Area	NEPTUNE	Mayfair Ln. 6" CI	$ 480,000	Replace	2400	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2025Q4
8211	Coastal Operating Area	NEPTUNE	Richardson Ave. 2" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
8654	Coastal Operating Area	NEPTUNE	Edgeware Pl. 6" AC	$ 140,000	Replace	700	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2025Q4
8195	Coastal Operating Area	NEPTUNE	Highland Ave. 2" GALV	$ 100,000	Replace	500	8.00	Ductile Iron	1920	2	GALV	Safety and Reliability/Structural	60	2025Q4
8246	Coastal Operating Area	NEPTUNE	Clinton Pl. 4" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	30	2025Q4
8701	Coastal Operating Area	NEPTUNE	Arnold Ave. 2" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
8561	Coastal Operating Area	NEPTUNE	Blackwell Way 6" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8247	Coastal Operating Area	NEPTUNE	Arnold Pl. 4" CI	$ 104,000	Replace	520	8.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	60	2025Q4
8188	Coastal Operating Area	NEPTUNE	Locust St .2" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	90	2025Q4
8239	Coastal Operating Area	NEPTUNE	Cedar Pl. 2" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	30	2025Q4
8566	Coastal Operating Area	NEPTUNE	Wakefield Rd. 6" CI	$ 1,012,000	Replace	5060	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8568	Coastal Operating Area	NEPTUNE	Marlow Pl. 6" CI	$ 228,000	Replace	1140	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8564	Coastal Operating Area	NEPTUNE	Stockwell Ln. 6" CI	$ 104,000	Replace	520	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8197	Coastal Operating Area	NEPTUNE	Remsen Mill Rd 2" PE	$ 140,000	Replace	700	8.00	Ductile Iron	1970	2	PE	Safety and Reliability/Structural	60	2025Q4
8244	Coastal Operating Area	NEPTUNE	Milford Rd. 2" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	30	2025Q4
7751	Coastal Operating Area	NEPTUNE	Delaware Ave. 4" CI	$ 70,000	Replace	700	8.00	Ductile Iron	1920	12	AC	Safety and Reliability/Structural	60	2025Q4
8232	Coastal Operating Area	NEPTUNE	Newgate Ln. 2" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	60	2025Q4
8511	Coastal Operating Area	NEPTUNE	Bradford Ave. 6" CI & 6" AC	$ 224,000	Replace	1120	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2025Q4
8562	Coastal Operating Area	NEPTUNE	Chelsea Ct. 6" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8597	Coastal Operating Area	NEPTUNE	E. Lawn Drive 6" CI	$ 144,000	Replace	720	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8655	Coastal Operating Area	NEPTUNE	Corlies Ave (33) & Memorial Dr. (40A) Intersection. 6" CI & 6" AC	$ 420,000	Replace	1100	8.00	Ductile Iron	1940	6	AC	Safety and Reliability/Structural	60	2025Q4
8202	Coastal Operating Area	NEPTUNE	Cedar Terrace 2" CI & 6"AC	$ 120,000	Replace	600	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8604	Coastal Operating Area	NEPTUNE	Wayside Rd. 6" CI	$ 448,000	Replace	2240	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2025Q4
8200	Coastal Operating Area	NEPTUNE	Poppy Ave. 4" CI	$ 20,000	Replace	100	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	90	2025Q4
8234	Coastal Operating Area	NEPTUNE	Oakdale Dr. 4" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	45	2025Q4
8205	Coastal Operating Area	NEPTUNE	Sayre St. 2" CI & 6" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2025Q4
8238	Coastal Operating Area	NEPTUNE	Woodmere Dr. 4" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	60	2025Q4
8700	Coastal Operating Area	NEPTUNE	S. Riverside Dr. 6" AC	$ 140,000	Replace	700	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2025Q4

2022 Foundational Filing
Table 6.5 - Coastal Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
8456	Coastal Operating Area	NEPTUNE	Heck Ave. 6" CI & 6" AC BTWN RT-35 & Neptune Blvd.	$ 360,000	Replace	1800	8.00	Ductile Iron	1900	6	AC	Safety and Reliability/Structural	60	2025Q4
8587	Coastal Operating Area	NEPTUNE	Eton Way 6" CI	$ 308,000	Replace	1540	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	120	2025Q4
8558	Coastal Operating Area	NEPTUNE	Alberta Ave. 6" CI, 6" AC & 8" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
8673	Coastal Operating Area	NEPTUNE	Riley Rd. 6" CI	$ 84,000	Replace	420	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	50	2025Q4
9568	Coastal Operating Area	NEPTUNE	Tremont Dr Main Replacement	$ 133,920	Replace	744	6.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	60	2025Q4
8207	Coastal Operating Area	NEPTUNE	Brockton Ave. 6" CI & 6" AC	$ 280,000	Replace	1400	8.00	Ductile Iron	1900	6	AC	Safety and Reliability/Structural	30	2025Q4
8241	Coastal Operating Area	NEPTUNE	Fairview Pl. 4" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	30	2025Q4
8689	Coastal Operating Area	NEPTUNE	Glenmere Ave. 6" CI	$ 68,000	Replace	340	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2025Q4
8203	Coastal Operating Area	NEPTUNE	Cortland St. 2" GALV & 6" DI	$ 64,000	Replace	320	8.00	Ductile Iron	1950	2	GALV	Safety and Reliability/Structural	20	2025Q4
8552	Coastal Operating Area	NEPTUNE	Huntington Ave. 6" CI & 6" AC	$ 152,000	Replace	760	8.00	Ductile Iron	1900	6	AC	Safety and Reliability/Structural	60	2025Q4
8199	Coastal Operating Area	NEPTUNE	Center St. 2" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8557	Coastal Operating Area	NEPTUNE	Hawthorne Ave. 6" CI	$ 208,000	Replace	1040	8.00	Ductile Iron	1900	6	CI	Safety and Reliability/Structural	120	2025Q4
8591	Coastal Operating Area	NEPTUNE	Oxford Way 6" CI & 6" AC	$ 468,000	Replace	2340	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8699	Coastal Operating Area	NEPTUNE	Highland Ave. 6" CI	$ 700,000	Replace	3500	8.00	Ductile Iron	1930	6	AC	Safety and Reliability/Structural	60	2025Q4
8237	Coastal Operating Area	NEPTUNE	Fairfield Way 4" CI	$ 240,000	Replace	1200	8.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	60	2025Q4
8235	Coastal Operating Area	NEPTUNE	Oakdale Dr. 4" CI BTWN Glenmere Ave & S Riverside Dr.	$ 60,000	Replace	300	8.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	30	2025Q4
8201	Coastal Operating Area	NEPTUNE	Hemlock Dr. 2" CI	$ 20,000	Replace	100	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	20	2025Q4
8520	Coastal Operating Area	NEPTUNE	Cordtland St. 2" GALV	$ 40,000	Replace	200	8.00	Ductile Iron	1950	2	GALV	Safety and Reliability/Structural	60	2025Q4
8242	Coastal Operating Area	NEPTUNE	Valley Rd. 4" CI & 2" CI	$ 300,000	Replace	1500	8.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	60	2025Q4
8508	Coastal Operating Area	NEPTUNE	Asbury Ave./ Rt-35 6" CI	$ 700,000	Replace	3000	12.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2025Q4
8585	Coastal Operating Area	NEPTUNE	Halton Ct. 6" CI	$ 164,000	Replace	820	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8236	Coastal Operating Area	NEPTUNE	Cottage Pl. 2" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	60	2025Q4
8555	Coastal Operating Area	NEPTUNE	7th Ave. 6" CI & 10" CI	$ 700,000	Replace	3500	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	90	2025Q4
8570	Coastal Operating Area	NEPTUNE	Harrow Ct. 6" AC	$ 160,000	Replace	800	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2025Q4
8672	Coastal Operating Area	NEPTUNE	Rt-35/ River rd. - Shark River 6" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	45	2025Q4
8196	Coastal Operating Area	NEPTUNE	Marion St. 2" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8208	Coastal Operating Area	NEPTUNE	Millbrook Ave. 6" CI & 6" AC	$ 304,000	Replace	1520	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	90	2025Q4
8551	Coastal Operating Area	NEPTUNE	Bradfiske Ave. 6" AC	$ 148,000	Replace	740	8.00	Ductile Iron	1900	6	AC	Safety and Reliability/Structural	30	2025Q4
8569	Coastal Operating Area	NEPTUNE	Fenchurch Way 6" AC	$ 160,000	Replace	800	8.00	Ductile Iron	1940	6	AC	Safety and Reliability/Structural	60	2025Q4
8608	Coastal Operating Area	NEPTUNE	Laurel Pl. 6" AC	$ 184,000	Replace	920	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	10	2025Q4
8563	Coastal Operating Area	NEPTUNE	Brixton Pl. 8" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	2025Q4
8650	Coastal Operating Area	NEPTUNE	Berkeley Ln. 2" CI & 6" AC & 6" CI	$ 284,000	Replace	1420	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	45	2025Q4
8245	Coastal Operating Area	NEPTUNE	N Benton Pl. 2" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	30	2025Q4
8445	Coastal Operating Area	NEPTUNE	Neptune Blvd. 6" AC & 6"CI	$ 600,000	Replace	3000	8.00	Ductile Iron	1900	6	AC	Safety and Reliability/Structural	90	2025Q4
8496	Coastal Operating Area	NEPTUNE	Hoover Rd. 6" CI	$ 104,000	Replace	520	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2025Q4
8248	Coastal Operating Area	NEPTUNE	The Plaza 2" GALV , 4" CI, 6" CI & 2.25" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1960	2	GALV	Safety and Reliability/Structural	15	2025Q4
8609	Coastal Operating Area	NEPTUNE	Fortunato Pl. 6" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
10983	Coastal Operating Area	NEPTUNE	Pinewood Drive Main Replacement	$ 210,000	Replace	663	8.00	Ductile Iron	1960	2	CI	System Flows and Pressure	60	2025Q4
10984	Coastal Operating Area	NEPTUNE	Pittenger Main Replacement	$ 540,000	Replace	1713	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	60	2025Q4
8560	Coastal Operating Area	NEPTUNE	Stamford Dr.& Surrey Ln. 6" CI & 8" CI	$ 640,000	Replace	3200	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2025Q4
8567	Coastal Operating Area	NEPTUNE	Chadwell Ct. 6" CI	$ 208,000	Replace	1040	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8660	Coastal Operating Area	NEPTUNE	6th Ave. 6" CI & 12" CI BTWN Ridge Ave. & Atkins Ave.	$ 460,000	Replace	1800	8.00	Ductile Iron	1920	12	CI	Safety and Reliability/Structural	60	2025Q4
8667	Coastal Operating Area	NEPTUNE	Seaview Circle N. 6" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8610	Coastal Operating Area	NEPTUNE	Fletcher Dr. 2" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
5628	Coastal Operating Area	NEPTUNE CITY	County Rt40A (memorial Dr) and Evergreen ave	$ 30,000	Replace	454	8.00	Ductile Iron	1890	4	AC	Safety and Reliability/Structural	30	2025Q4
8612	Coastal Operating Area	NEPTUNE CITY	5th Ave.6" CI, 6" AC & 8" CI	$ 640,000	Replace	3200	8.00	Ductile Iron	1920	8	CI	Safety and Reliability/Structural	90	2025Q4
8266	Coastal Operating Area	NEPTUNE CITY	Midwood St. 2" CI & 6" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8722	Coastal Operating Area	NEPTUNE CITY	RT-35 6" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8261	Coastal Operating Area	NEPTUNE CITY	RT-35 S/ Morris Ave. 2" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
8629	Coastal Operating Area	NEPTUNE CITY	W. Wall St. 6" CI	$ 104,000	Replace	520	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8697	Coastal Operating Area	NEPTUNE CITY	Over Brook Pl. 6" CI	$ 160,000	Replace	800	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8613	Coastal Operating Area	NEPTUNE CITY	Morris Ave. 6" AC	$ 132,000	Replace	660	8.00	Ductile Iron	1900	6	AC	Safety and Reliability/Structural	10	2025Q4
8614	Coastal Operating Area	NEPTUNE CITY	3rd Ave. 6" CI BTWN RT-35 & Memorial Dr.	$ 340,000	Replace	1700	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8698	Coastal Operating Area	NEPTUNE CITY	Oliver Dr. 8" CI	$ 204,000	Replace	1020	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	120	2025Q4
8729	Coastal Operating Area	NEPTUNE CITY	Riverview Ave. 6" AC, 2" GALV, 1.25" CI, 6" CI, 12" CI & 12" DI	$ 600,000	Replace	3000	12.00	PVC	1900	6	AC	Safety and Reliability/Structural	15	2025Q4
8721	Coastal Operating Area	NEPTUNE CITY	Oak Terrace 6" CI	$ 140,000	Replace	651	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8704	Coastal Operating Area	NEPTUNE CITY	Tucker Dr. 6" CI & 6" AC	$ 260,000	Replace	1300	8.00	Ductile Iron	1900	6	AC	Safety and Reliability/Structural	60	2025Q4
8723	Coastal Operating Area	NEPTUNE CITY	Rt-35 / W. Sylvania Ave. 6" CI & 2" CI	$ 500,000	Replace	2500	8.00	Ductile Iron	1900	6	CI	Safety and Reliability/Structural	90	2025Q4
8251	Coastal Operating Area	NEPTUNE CITY	Summerlan Pl. 2" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	30	2025Q4
8249	Coastal Operating Area	NEPTUNE CITY	Riverdale Ave. 2" CI & 6" CI	$ 260,000	Replace	1300	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8705	Coastal Operating Area	NEPTUNE CITY	E End Ave. (17) 6" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8690	Coastal Operating Area	NEPTUNE CITY	Rowland Pl. 6" CI	$ 1,400,000	Replace	700	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8720	Coastal Operating Area	NEPTUNE CITY	Lincoln Ave. 6" AC	$ 120,000	Replace	600	8.00	Ductile Iron	1900	6	AC	Safety and Reliability/Structural	60	2025Q4
8692	Coastal Operating Area	NEPTUNE CITY	Lawrence Dr. 6" CI	$ 220,000	Replace	1100	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8719	Coastal Operating Area	NEPTUNE CITY	Windsor Ct. 6" AC	$ 220,000	Replace	1100	8.00	Ductile Iron	1990	6	DI	Safety and Reliability/Structural	30	2025Q4
8258	Coastal Operating Area	NEPTUNE CITY	Hawthorne Ave. 2" GALV, 2" CI, 6" AC & 6" CI	$ 460,000	Replace	2300	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2025Q4
8264	Coastal Operating Area	NEPTUNE CITY	Laird Ave. 2" CI & 6" CI	$ 160,000	Replace	800	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8628	Coastal Operating Area	NEPTUNE CITY	Ridge Terrace 6" AC	$ 240,000	Replace	1200	8.00	FRP	1900	6	AC	Safety and Reliability/Structural	60	2025Q4
8611	Coastal Operating Area	NEPTUNE CITY	5th Ave. " CI & 6" ST	$ 388,000	Replace	1940	8.00	Ductile Iron	1900	6	AC	Safety and Reliability/Structural	60	2025Q4
8718	Coastal Operating Area	NEPTUNE CITY	Lipman Pl. 6" AC	$ 124,000	Replace	620	8.00	Ductile Iron	1900	6	AC	Safety and Reliability/Structural	60	2025Q4
10982	Coastal Operating Area	NEPTUNE CITY	Evergreen Ave 2" Galv	$ 50,000	Replace	194	6.00	Ductile Iron	1920	2	GALV	System Flows and Pressure	30	2025Q4
8724	Coastal Operating Area	NEPTUNE CITY	RT-17/ W. Sylvania Ave. 6" CI	$ 1,500,000	Replace	7000	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	120	2025Q4
5254	Coastal Operating Area	OCEAN	Ocean - Grant Ave	$ 70,000	Replace	1664	6.00	Ductile Iron	1960	6	CI	Water Quality	30	2025Q4

2022 Foundational Filing
Table 6.5 - Coastal Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
563	Coastal Operating Area	OCEAN	Ocean - Highwood from Woodcrest to Hyf 56 (Brookside)	$ 375,000	Replace	1704	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
7760	Coastal Operating Area	OCEAN	Myrtle Ave. 2" CI	$ 110,000	Replace	1100	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
8748	Coastal Operating Area	OCEAN	Maple St. 6" CI	$ 40,000	Replace	200	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2025Q4
7762	Coastal Operating Area	OCEAN	Palmer Ave. 2" CI	$ 50,000	Replace	500	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2025Q4
8747	Coastal Operating Area	OCEAN	Weston Ave. 6" CI	$ 40,000	Replace	200	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2025Q4
8746	Coastal Operating Area	OCEAN	Avon St. 6" CI	$ 40,000	Replace	200	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2025Q4
7773	Coastal Operating Area	OCEAN	Laurel Ave. 2" CI , DI, & GALV	$ 40,000	Replace	400	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	30	2025Q4
8300	Coastal Operating Area	OCEAN	Shieridan Ave. 4" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1990	4	CI	Safety and Reliability/Structural	45	2025Q4
8750	Coastal Operating Area	OCEAN	Roseld Ave. 6" CI	$ 1,000,000	Replace	5000	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2025Q4
8893	Coastal Operating Area	OCEAN	Grassmere Ave. 6" AC & 6" CI	$ 500,000	Replace	2500	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	30	2025Q4
8754	Coastal Operating Area	OCEAN	Fairway Ln. & Brook Dr. 6" CI & 8" CI	$ 600,000	Replace	3000	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	90	2025Q4
7899	Coastal Operating Area	OCEAN	Ridgewood Ave. 2" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8743	Coastal Operating Area	OCEAN	Franklin Ave. 6" CI	$ 500,000	Replace	2500	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2025Q4
8890	Coastal Operating Area	OCEAN	Lake Dr. 6" CI & 2" CI	$ 160,000	Replace	800	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2025Q4
8749	Coastal Operating Area	OCEAN	Beverly Ave. 6" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2025Q4
7759	Coastal Operating Area	OCEAN	Corlies Ave. 2.25" CI	$ 70,000	Replace	700	8.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	60	2025Q4
8744	Coastal Operating Area	OCEAN	Allenhurst Ave. 6" CI	$ 260,000	Replace	1300	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2025Q4
8396	Coastal Operating Area	OCEAN	Vina Ave. 6"CI	$ 80,000	Replace	400	6.00	Ductile Iron	1990	6	DI	Safety and Reliability/Structural	30	2025Q4
8745	Coastal Operating Area	OCEAN	Brookside Ave. 6" CI & 2" GALV	$ 300,000	Replace	1500	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
8896	Coastal Operating Area	OCEAN	Maple Ave. 2" CI, 6" CI & 6" AC	$ 444,000	Replace	2220	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2025Q4
8752	Coastal Operating Area	OCEAN	Grove Ave. 6" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
10985	Coastal Operating Area	OCEAN	Laird Street Main Replacement	$ 90,000	Replace	339	6.00	Ductile Iron	1940	2	CI	System Flows and Pressure	30	2025Q4
10987	Coastal Operating Area	OCEAN	Ferris Court Main Replacement	$ 60,000	Replace	237	4.00	Ductile Iron	1960	2	CI	System Flows and Pressure	90	2025Q4
10990	Coastal Operating Area	OCEAN	Wilson Drive Main Replacement	$ 362,250	Replace	680	6.00	Ductile Iron	1920	2	CI	System Flows and Pressure	60	2025Q4
8374	Coastal Operating Area	OCEAN	Lincoln Dr. 6" AC & 2" GALV	$ 300,000	Replace	1500	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2025Q4
8753	Coastal Operating Area	OCEAN	Surey Ln. 6" CI	$ 404,000	Replace	2020	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2025Q4
7919	Coastal Operating Area	OCEANPORT	Werah Pl 2" GALV	$ 2,400	Replace	1200	8.00	Ductile Iron	1960	2	GALV	Safety and Reliability/Structural	60	2025Q4
10998	Coastal Operating Area	OCEANPORT	Springfield Ave/Fairfield Ave Main Replacement	$ 165,000	Replace	712	6.00	Ductile Iron	1920	2	GALV	System Flows and Pressure	60	2025Q4
11000	Coastal Operating Area	OCEANPORT	Dwayne Street Main Replacement	$ 165,000	Replace	639	6.00	Ductile Iron	1920	2	CI	System Flows and Pressure	60	2025Q4
11001	Coastal Operating Area	OCEANPORT	Pleasant Place Main Replacement	$ 50,000	Replace	168	4.00	Ductile Iron	1920	2	CU	System Flows and Pressure	60	2025Q4
11002	Coastal Operating Area	OCEANPORT	Pemberton Ave Main Replacement	$ 250,000	Replace	827	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	2025Q4
11004	Coastal Operating Area	OCEANPORT	Spring Lake Ave Main Replacement	$ 90,000	Replace	343	6.00	Ductile Iron	1970	2	CI	System Flows and Pressure	120	2025Q4
11012	Coastal Operating Area	OCEANPORT	Drive Way Main Replacement Project	$ 270,000	Replace	1070	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2025Q4
11013	Coastal Operating Area	OCEANPORT	Monmouth Blvd and Arnold St main replacement	$ 230,000	Replace	908	8.00	Ductile Iron	1970	4	CI	Safety and Reliability/Structural	60	2025Q4
11014	Coastal Operating Area	OCEANPORT	LongBranch Ave Main Replacement	$ 120,000	Replace	474	8.00	Ductile Iron	1970	4	CI	Safety and Reliability/Structural	30	2025Q4
11015	Coastal Operating Area	OCEANPORT	Oneida Ave Main Replacement	$ 145,000	Replace	562	6.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	60	2025Q4
11016	Coastal Operating Area	OCEANPORT	Cayuga Ave Main Replacement	$ 250,000	Replace	933	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
11017	Coastal Operating Area	OCEANPORT	Ticonderoga Ave Main Replacement	$ 160,000	Replace	371	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	30	2025Q4
11018	Coastal Operating Area	OCEANPORT	Herbert Place Main Replacement	$ 125,000	Replace	490	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	30	2025Q4
11019	Coastal Operating Area	OCEANPORT	Sagamore Ave Main Replacement	$ 121,000	Replace	483	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	30	2025Q4
11020	Coastal Operating Area	OCEANPORT	Itaska Pl main replacement	$ 355,000	Replace	1415	8.00	Ductile Iron	1960	6	DI	Safety and Reliability/Structural	60	2025Q4
11057	Coastal Operating Area	OCEANPORT	Maple Avenue to Turf Drive Water Main Rehabilitation	$ 120,000	Rehab	301	8.00	Other	1960	8	CI	Safety and Reliability/Structural	30	2025Q4
7862	Coastal Operating Area	PLUMSTED TWP	4" Main between Summit and Longview Trail	$ 70,000	Replace	967	8.00	Ductile Iron	1970	4	PE	Safety and Reliability/Structural	60	2024Q4
7869	Coastal Operating Area	PLUMSTED TWP	Greenway Trail, 4", 2"	$ 115,000	Replace	1151	8.00	Ductile Iron	1980	4	PVC	Safety and Reliability/Structural	60	2024Q4
7868	Coastal Operating Area	PLUMSTED TWP	Butternut Dr, 4"	$ 130,000	Replace	1253	8.00	Ductile Iron	1970	4	PVC	Safety and Reliability/Structural	60	2024Q4
7865	Coastal Operating Area	PLUMSTED TWP	Surrey Dr, 4"	$ 83,000	Replace	1000	8.00	Ductile Iron	1970	4	PVC	Safety and Reliability/Structural	60	2024Q4
7909	Coastal Operating Area	PLUMSTED TWP	Copperfield Dr, 4" PVC	$ 23,000	Replace	227	8.00	Ductile Iron	1980	4	PVC	Safety and Reliability/Structural	30	2024Q4
7870	Coastal Operating Area	PLUMSTED TWP	Longview Dr, 4"	$ 72,000	Replace	714	8.00	Ductile Iron	1970	4	PVC	Safety and Reliability/Structural	60	2024Q4
7867	Coastal Operating Area	PLUMSTED TWP	Victoria Dr, 2"	$ 65,000	Replace	644	8.00	Ductile Iron	1970	2	PVC	Safety and Reliability/Structural	60	2024Q4
8037	Coastal Operating Area	RUMSON	Bingham Ave. 6" CI BTWN N. Cherry Ln & Ridge Rd.	$ 244,000	Replace	1220	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
8047	Coastal Operating Area	RUMSON	Blossom Rd. 2" CI	$ 240,000	Replace	1200	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8036	Coastal Operating Area	RUMSON	Cherry Ln. 2" CI	$ 164,000	Replace	820	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8038	Coastal Operating Area	RUMSON	Black Point Rd. 6" CI BTWN Bingham Ave. & Terminus	$ 60,000	Replace	300	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
8051	Coastal Operating Area	RUMSON	Pond Rd. 2" CI	$ 180,000	Replace	900	8.00	Ductile Iron	1990	2	CI	Safety and Reliability/Structural	60	2025Q4
8053	Coastal Operating Area	RUMSON	Horatius Way 2" CI	$ 64,000	Replace	320	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	30	2025Q4
8057	Coastal Operating Area	RUMSON	Linden Ln. 2" CI	$ 420,000	Replace	2100	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	90	2025Q4
8184	Coastal Operating Area	RUMSON	Wardell Ave. 6" CI	$ 600,000	Replace	3000	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2025Q4
8052	Coastal Operating Area	RUMSON	Oyster Bay Dr. 2" CI	$ 500,000	Replace	2500	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	90	2025Q4
8183	Coastal Operating Area	RUMSON	Buttonwood Ln. 4" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	30	2025Q4
8050	Coastal Operating Area	RUMSON	Tulip Tree Ln. 2" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8054	Coastal Operating Area	RUMSON	Bellevue Ave. 4" CI	$ 600,000	Replace	3000	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	120	2025Q4
8034	Coastal Operating Area	RUMSON	1st Street 1" CU	$ 1,600	Replace	800	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
8049	Coastal Operating Area	RUMSON	Robin Rd. 2" CI & 6" CI	$ 260,000	Replace	1300	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
8056	Coastal Operating Area	RUMSON	Elm Ln. 2" CI	$ 148,000	Replace	740	8.00	Ductile Iron	1970	2	CI	Safety and Reliability/Structural	60	2025Q4
8040	Coastal Operating Area	RUMSON	Hunt St. 2" CI	$ 40,000	Replace	200	8.00	Ductile Iron	1920	2	CI	Sustained Economic Growth	30	2025Q4
8041	Coastal Operating Area	RUMSON	Bingham Ave. 2" CI BTWN Hunt ST. & Oak Tree Lane	$ 60,000	Replace	300	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
8055	Coastal Operating Area	RUMSON	Laurel Ln. 2" CI & 6" AC	$ 140,000	Replace	700	8.00	Ductile Iron	1970	2	CI	Safety and Reliability/Structural	14	2025Q4
8039	Coastal Operating Area	RUMSON	Washington St. 4" CI	$ 240,000	Replace	1200	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
8048	Coastal Operating Area	RUMSON	Robin Rd. 2" CI	$ 260,000	Replace	1300	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9246	Coastal Operating Area	RUMSON	Rumson Cleaning and Lining - 2018	$ 2,200,000	Rehab	213125	8.00	Other	1920	4	CI	Safety and Reliability/Structural	120	2025Q4

2022 Foundational Filing
Table 6.5 - Coastal Operating Area
2022 - 2025 DSIC Priority Projects

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration	Estimated In-Service Quarter
8159	Coastal Operating Area	SEA BRIGHT	Marius Ln. 2" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	30	2025Q4
8162	Coastal Operating Area	SEA BRIGHT	E. Church St.	$ 60,000	Replace	300	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	30	2025Q4
8144	Coastal Operating Area	SHREWSBURY	Buttonwood Dr. 2" CI & 6" CI	$ 380,000	Replace	1900	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	45	2025Q4
8146	Coastal Operating Area	SHREWSBURY	Corn Ln. 2" GALV , 6" AC & 6" DI	$ 140,000	Replace	700	8.00	Ductile Iron	1950	2	GALV	Safety and Reliability/Structural	60	2025Q4
8137	Coastal Operating Area	SHREWSBURY	Patterson Ct. 2" CI	$ 164,000	Replace	820	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	45	2025Q4
8138	Coastal Operating Area	SHREWSBURY	Alameda Ct. 2" CI & 6" AC	$ 300,000	Replace	1500	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	15	2025Q4
8139	Coastal Operating Area	SHREWSBURY	Allen St. 6" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
8142	Coastal Operating Area	SHREWSBURY	Borden St. 2" CI	$ 360,000	Replace	1800	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8934	Coastal Operating Area	SHREWSBURY	Laurel Ct. 2" CI	$ 80,000	Replace	400	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
8145	Coastal Operating Area	SHREWSBURY	Elm Ln. 2.25" CI & 6" CI	$ 184,000	Replace	920	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8140	Coastal Operating Area	SHREWSBURY	Glorney St. 2" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8143	Coastal Operating Area	SHREWSBURY	Sickles Pl. 2" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8141	Coastal Operating Area	SHREWSBURY	Monroe Ave. 4" CI, 6" DI & 6" CI	$ 280,000	Replace	1400	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2025Q4
8180	Coastal Operating Area	TINTON FALLS	Holly Dr. 2" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8179	Coastal Operating Area	TINTON FALLS	Braeburn Dr. 2.25" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
8932	Coastal Operating Area	TINTON FALLS	Riveredge Rd. 6" AC	$ 1,168,000	Replace	7300	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	120	2025Q4
8176	Coastal Operating Area	TINTON FALLS	Clover St. 2" CI	$ 60,000	Replace	300	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
8178	Coastal Operating Area	TINTON FALLS	Pear St. 2" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
717	Coastal Operating Area	TOMS RIVER	Toms River Twp - Monterey - Cove Way from Rt 35 S to 6"-2" reducer in Harbor Dr/Keith Ln intersection.	$ 76,800	Replace	554	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2023Q4
125	Coastal Operating Area	TOMS RIVER	Toms River Twp - Monterey - Bryn Mawr Ave from Rt 35 S to terminus (boardwalk).	$ 196,500	Replace	1112	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	60	2023Q4
124	Coastal Operating Area	TOMS RIVER	Toms River Twp - Monterey - Haddonfield Ave from Rt 35 N to terminus (boardwalk).	$ 108,000	Replace	683	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	30	2024Q4
689	Coastal Operating Area	TOMS RIVER	Toms River Twp - Monterey - Westmont Ave from Rt 35 N to terminus (boardwalk).	$ 109,500	Replace	695	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	30	2024Q4
694	Coastal Operating Area	TOMS RIVER	Toms River Twp - Monterey - Rutherford Ln from Rt 35 S to Rt 35 N.	$ 74,400	Replace	518	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2023Q2
8322	Coastal Operating Area	TOMS RIVER	Ortley Beach - Shuster Ave, 6" CI, 4" CI	$ 176,000	Replace	1103	6.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2024Q4
8269	Coastal Operating Area	TOMS RIVER	Ortley Beach - Fort Ave, 6" CI, 4" CI	$ 188,000	Replace	1141	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	20	2024Q4
8498	Coastal Operating Area	TOMS RIVER	Abbey Ln, 6" AC	$ 68,000	Replace	434	6.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	30	2024Q4
8255	Coastal Operating Area	TOMS RIVER	Ortley Beach - 8th Ave, 6" CI	$ 196,000	Replace	1224	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q4
8321	Coastal Operating Area	TOMS RIVER	Ortley Beach - 2nd Ave, 6" CI	$ 60,000	Replace	361	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	30	2024Q4
8506	Coastal Operating Area	TOMS RIVER	5th Ave, 6" CI	$ 56,000	Replace	301	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2024Q4
8444	Coastal Operating Area	TOMS RIVER	Carmel Dr/Ventura Dr, 8" AC	$ 72,000	Replace	479	8.00	Ductile Iron	1950	8	AC	Safety and Reliability/Structural	30	2024Q4
8323	Coastal Operating Area	TOMS RIVER	Ortley Beach - 5th Ave, 4" CI, 6" CI	$ 208,000	Replace	1272	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q4
8325	Coastal Operating Area	TOMS RIVER	Ortley Beach - Railway Ave W, 4" CI	$ 112,000	Replace	685	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2024Q4
8443	Coastal Operating Area	TOMS RIVER	San Fernando Dr, 8" CI	$ 106,400	Replace	665	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	2024Q4
8452	Coastal Operating Area	TOMS RIVER	Haddonfield Ave, 6" AC	$ 125,600	Replace	728	6.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
8500	Coastal Operating Area	TOMS RIVER	Ivy Ln, 6" CI	$ 40,000	Replace	498	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2024Q4
8454	Coastal Operating Area	TOMS RIVER	Bryn Mawr Ave, 6" AC	$ 212,000	Replace	1339	6.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
8320	Coastal Operating Area	TOMS RIVER	Ortley Beach - Anna Ohankins Blvd, 10" CI	$ 16,000	Replace	103	12.00	Ductile Iron	1930	10	CI	Safety and Reliability/Structural	30	2024Q4
8499	Coastal Operating Area	TOMS RIVER	Basra Ln, 6" AC	$ 80,000	Replace	500	6.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	90	2024Q4
8315	Coastal Operating Area	TOMS RIVER	Eisenhower Ave, 6" CI	$ 240,000	Replace	1487	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q4
8270	Coastal Operating Area	TOMS RIVER	Ortley Beach - Coolidge Ave, 6" CI	$ 248,000	Replace	1520	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q4
7479	Coastal Operating Area	TOMS RIVER	8th ave between from East to West	$ 60,000	Replace	2199	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	45	2024Q4
8326	Coastal Operating Area	TOMS RIVER	Ortley Beach - Railway Ave E, 6" CI	$ 60,000	Replace	375	6.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2024Q4
8513	Coastal Operating Area	TOMS RIVER	Ocean Terrace, 6" CI	$ 160,000	Replace	934	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
8250	Coastal Operating Area	TOMS RIVER	Ortley Beach - 7th Ave, 6" CI	$ 216,000	Replace	1310	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q4
8441	Coastal Operating Area	TOMS RIVER	W Cove Way, 2" CI	$ 88,000	Replace	534	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2023Q2
8509	Coastal Operating Area	TOMS RIVER	2nd Ave, 6" CI	$ 72,000	Replace	446	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
8507	Coastal Operating Area	TOMS RIVER	4th Ave, 6" CI	$ 72,800	Replace	466	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	14	2024Q4
8267	Coastal Operating Area	TOMS RIVER	Ortley Beach - Fielder Ave	$ 188,000	Replace	1163	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q4
8076	Coastal Operating Area	UNION BEACH	Patterson Ave. 4" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	30	2025Q4
8075	Coastal Operating Area	UNION BEACH	Willow St. 4" CI	$ 100,000	Replace	500	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	120	2025Q4
10308	Coastal Operating Area	UNION BEACH	Anderson St 6" AC	$ 140,000	Replace	702	8.00	PVC	1930	6	AC	Safety and Reliability	15	2025Q4
10996	Coastal Operating Area	WALL	Marion Place Main Replacement	$ 48,000	Replace	183	4.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2025Q4
6146	Coastal Operating Area	WEST LONG BRANCH	West Long Branch - Woodland Drive	$ 118,500	Replace	753	8.00	Ductile Iron	1950	6	AC	System Flows and Pressure	60	2025Q4
10992	Coastal Operating Area	WEST LONG BRANCH	Larchwood Ave Main Replacement/Tie-Ins	$ 115,000	Replace	540	6.00	Ductile Iron	1950	2	CI	System Flows and Pressure	60	2025Q4
10993	Coastal Operating Area	WEST LONG BRANCH	Throckmorton Ave Main Replacement	$ 70,000	Replace	275	6.00	Ductile Iron	1920	2	CI	System Flows and Pressure	30	2025Q4
10994	Coastal Operating Area	WEST LONG BRANCH	Locust Ave Main Replacement	$ 987,500	Replace	2723	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2025Q4
10995	Coastal Operating Area	WEST LONG BRANCH	Dennis Place/Hasley Street/Lakeview Ave Main Repl	$ 456,000	Replace	1065	6.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
10997	Coastal Operating Area	WEST LONG BRANCH	Martin Street Main Replacement	$ 145,000	Replace	558	6.00	Ductile Iron	1920	2	CI	System Flows and Pressure	60	2025Q4
11056	Coastal Operating Area	WEST LONG BRANCH	Norwood Ave to Mitchell Terrace Water Main Rehabilitation	$ 200,000	Rehab	489	18.00	Other	1920	18	CI	Safety and Reliability/Structural	30	2025Q4
			Total	**$ 142,354,760**										

Appendix A
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APPENDIX A. WATER MAIN CONDITION ASSESSMENT

1.1 SYSTEM EVALUATIONS

NJAWC's water systems are routinely evaluated based on a number of factors to determine the level of renewal needed. These include issues around safety, reliability, water quality, service quality including system flow and pressure, and conservation. The analyses are based on the historic rate of deterioration of mains including their structural integrity, hydraulic condition, extent of tuberculation and leakage rates. Computer modeling is used to assess hydraulic capacity, operations data on leakage and break rates are used to identify areas of concern based on structural integrity, and water quality data is tracked and reviewed to identify areas eligible for cleaning and lining. The structural integrity of a main depends on its inherent strength of the material of construction, its dimensions and its effective wall thickness. Generally, main breaks occur when a main's structural integrity is no longer sufficient to withstand the internal and external forces imposed upon it.

Since water systems evolve as communities evolve, the existing pipe materials are not uniform across a system. Materials and construction standards changed over the decades, leading to a variety of service issues experienced today. The following section discusses the types of materials used in constructing water systems since the late 1800s.

1.2 MATERIAL OF CONSTRUCTION[1]

The majority of distribution piping installed in the United States, beginning in the late 1800's up until the 1960's, was manufactured from cast iron. The first cast iron pipe manufacturing process consisted of pouring molten iron into a sand mold, which stood on end in a pit in the ground, similar to how concrete is poured into a form. Pipe which was manufactured by this method is referred to today as "pit" cast iron pipe. Due to the potential inconsistencies that could occur in the pipe wall thickness, the pipe was designed with a wall thickness that was greater than that required for the internal working pressure or external loading to which the pipe would be subjected. When installing the pipe in the field, the joints were sealed with rope and lead which was heated, poured in a molten state, and allowed to cool. Although pit cast iron pipe has no interior or exterior corrosion protection, it has performed well within the industry largely as a result of the added wall thickness.

In 1920, the process of centrifugally casting pipe in a sand mold was developed. Pipe which was manufactured by this process is referred to today as "spun" cast iron pipe or "centrifugally" cast iron pipe. The centrifugal forces which are applied to the molten iron alter the molecular composition of the

[1] See attached excerpt from "*AWWA - Rehabilitation of Water Mains - Manual of Water Supply Practices*" (pgs. 4-7).

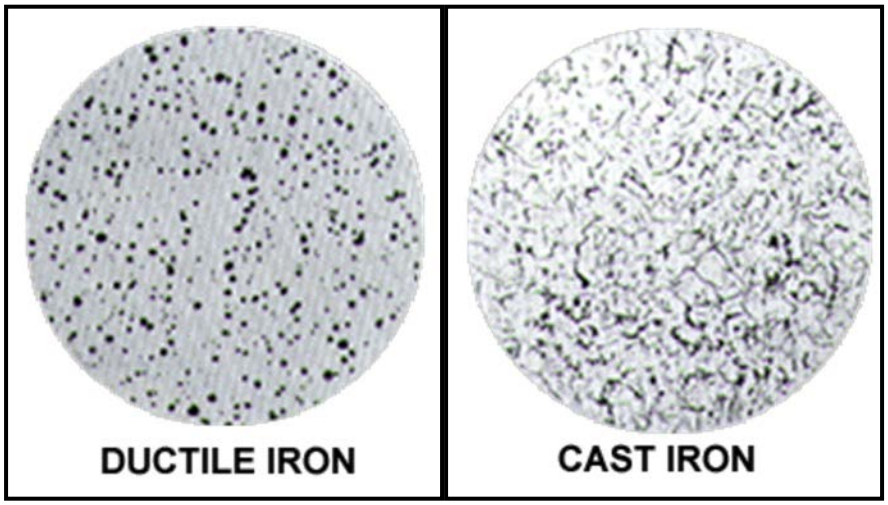
metal and increase its tensile strength. The higher strength coupled with the lack of inconsistencies in the wall thickness resulting from the centrifugal action allowed the pipe to have an approximately 25% thinner wall than pit cast iron pipe. Interior lining of the pipe with cement to prevent corrosion was also introduced in the early 1920's; however, it did not gain wide acceptance until after the late 1930's. The process of centrifugally casting pipe was improved in the early 1930's with the use of a water cooled metal mold which allowed the pipe to be immediately withdrawn from the centrifuge. This process, which is known as the "deLavaud" process, is still in use today for the manufacturing of ductile iron pipe. Although the centrifugal casting process improved pipe strength and minimized casting imperfections, the reduction in wall thickness coupled with the lack of exterior and interior corrosion protection has resulted in a failure rate in the industry that is higher than the older pit cast iron pipe.

Pipe joint technology also changed. In the late 1920's, a plasticized sulfur cement compound was developed as an alternative to lead for sealing the pipe joints in the field. This compound is referred to as "leadite". Leadite was commercially produced up until the early 1970's, and was used extensively from 1941 to 1945 when lead was scarce as a result of raw material needs associated with World War II. Ultimately, leadite was found to be an inferior product to lead for two reasons. First, leadite is rigid but non-metallic and has a different coefficient of thermal expansion than cast iron resulting in stress on the pipe which can result in longitudinal splits in the pipe bell. Second, the sulfur in the leadite allows for localized pitting corrosion which ultimately results in circumferential breaks on the spigot end of the pipe near the leadite joint. The failure rate in the industry for leadite joint pipe is significantly higher than for lead joint pipe even though the pipe may not be as old.

Beginning in the mid-1950's, improvements in iron pipe manufacturing and technology emerged. The first improvement was the advent of the rubber gasketed joint which alleviated the shortcomings associated with rigid and leadite joints. The next major improvement was the introduction of ductile iron pipe in the late 1960's. Ductile iron differs from cast iron in that its graphite form is spheroidal, or nodular, instead of the flake form found in cast iron. This change in graphite form is accomplished by adding an inoculant, usually magnesium, to molten iron of appropriate composition during manufacture. Not only is ductile iron pipe stronger than cast iron pipe, but it is also more resistant to corrosion. Cast iron pipes, whether pit cast or spun cast, are susceptible to graphitic corrosion where an electrochemical reaction occurs between the cathodic graphite component and the anodic iron matrix which does not occur in ductile iron pipe. Due to its spheroidal graphite form, ductile iron has approximately twice the strength of cast iron as determined by tensile, beam, ring bending, and bursting tests. Its impact strength and elongation are many times greater than cast iron's. Exhibit 1.2.a below shows the molecular differences in ductile iron and cast iron.

Exhibit 1.2.a

Differences in Graphite Form Between Ductile and Cast Iron



Polyethylene wrap was also introduced into the market about the same time as ductile iron pipe. This product, when properly installed, provides a barrier to prevent the occurrence of external corrosion from soil. This polyethylene sleeve (polywrap) is placed over ductile iron pipe in areas with aggressive soil conditions; it does not have to be sealed watertight, but it should be installed so that no dirt or bedding material comes in contact with the pipe. All lumps of clay, mud, cinders, etc., on the pipe surface should be removed before the pipe is covered with polyethylene. If the polyethylene is damaged, it must be repaired before the trench is backfilled. Small holes or tears can be repaired with a piece of tape placed over the hole. Large holes or tears should be repaired by taping another piece of polyethylene over the hole. Overlaps, ends, and repairs can be held in place with tape or plastic tie straps until the trench is backfilled.

The use of asbestos cement and concrete pipe began in the 1940's as an alternative to iron pipe. These pipe materials do not have the strength of ductile iron and are not expected to maintain as long a service life as ductile iron mains. While their resistance to metallic corrosion is improved over cast iron, repairs on these mains are more difficult and costly. The deterioration process for these mains results from a combination of water quality, soil conditions, pipe diameter, and pipe age. Internal degradation can occur if the conveyed water has a low aggressiveness index, is considered a soft water, or has low alkalinity. Experience has shown that failures on asbestos cement or transite pipe are more difficult and time consuming to repair since the pipe is generally not sound enough for repair clamps and as a result the entire pipe segment needs to be replaced. Operational experience has also shown that the disturbance of these mains in one area may transfer stresses to adjoining main segments leading to a pattern of repeat failures in the vicinity of the first main break.

A form of cement pipe installed prior to 1925 is commonly referred to as stovepipe and can still be found in service today. Stovepipe is a combination of cement lining wrapped in thin-walled tin or galvanized steel in two layers. Because these mains were placed in service many decades ago when records may not have indicated material, the inventory of this material may be understated. When this pipe is found to still be in use, it likely has exceeded 85 years of service, is leaking, and has reached the end of its useful life. These mains are scheduled for replacement when identified. Lining of these mains is not an appropriate renewal method.

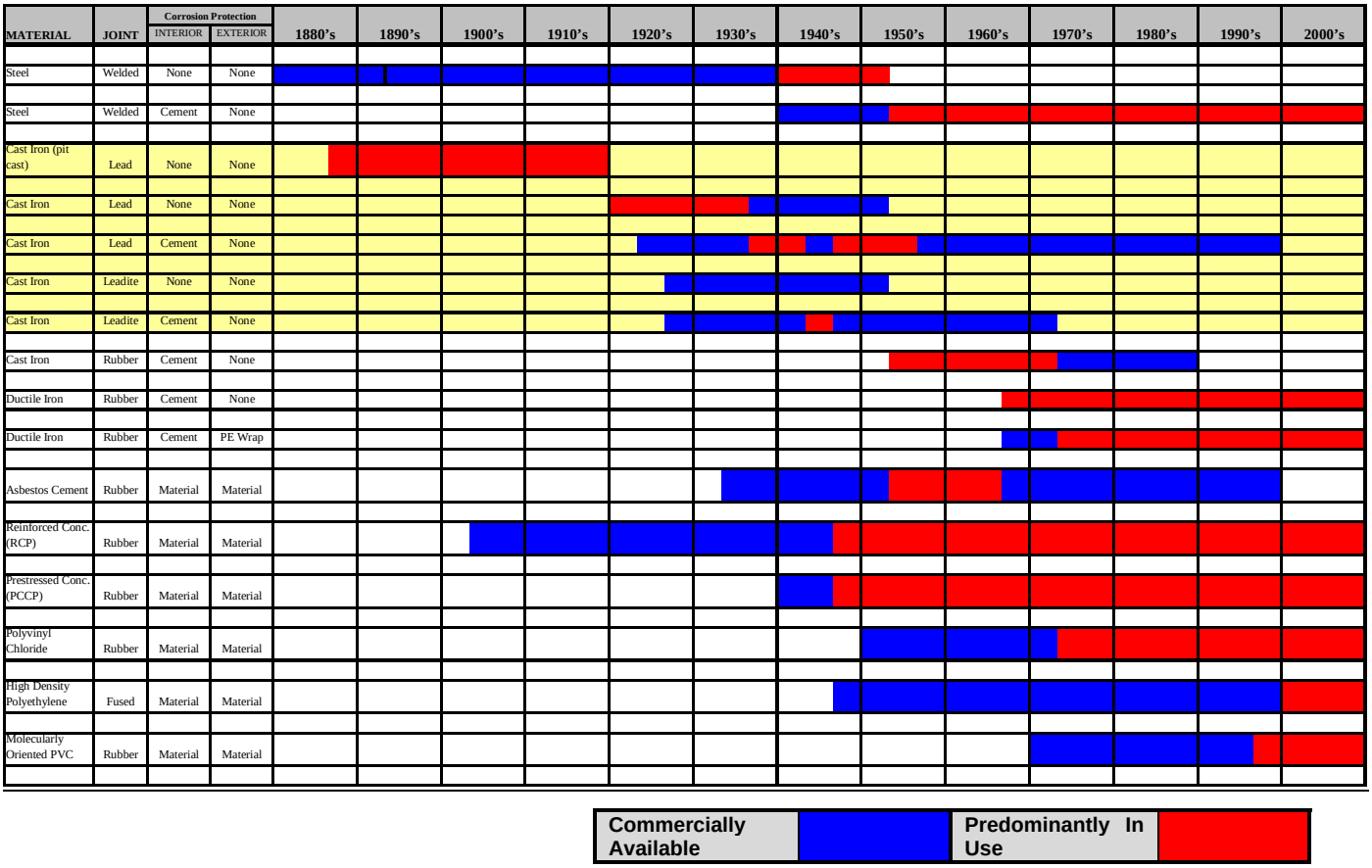
The use of both polyvinyl chloride (PVC) and high density polyethylene (HDPE) began to emerge in this country in the 1970's and 1990's respectively. These mains have the advantage of resistance to corrosion; however, the service life is not expected to be as long in areas with recurring pressure fluctuations, especially for PVC pipe. However, with recent developments of HDPE pipes including the heat butt-fusion of every joint, these have a significant advantage over PVC and other metallic pipes in sustaining pressure fluctuations and ground movement including earthquakes.

Exhibit 1.2.b below shows the progression of pipe technology in this country during the 20th century. The first four columns represent the 1) material from which the pipe is manufactured, 2) type of joint, 3) interior corrosion protection, and 4) exterior corrosion protection.

Another important issue for water systems in developing an asset renewal plan is the difference in expected service life of the various materials still in use today. The three older vintages of cast iron pipe (pit cast, spun cast, and spun cast with leadite joints) that were primarily installed prior to the 1960's are highlighted in yellow in Exhibit 1.2.b. As technology was thought to be improving during this period, it would ultimately be found that the failure rate of the pipe would increase. The result is that even though the three vintages of pipe were installed in different time periods, they all may be reaching an unacceptable rate of failure at the same time. Additionally, there have been an increasing number of significant failures with asbestos cement pipe and larger steel pipe and prestressed concrete cylinder pipe (PCCP). Having pipes installed over multiple decades reach the end of their useful lives around the same time puts a heavy financial strain on water utilities as the cost of replacement cannot be spread out over the same period of time as when the pipes were originally installed.

Exhibit 1.2.b

Timeline of Pipe Technology in the U.S.



1.3 . NJAWC PIPE STANDARD

NJAWC's current pipeline standard includes the installation of water mains in compliance with the appropriate AWWA standard for the proposed material type. Ductile Iron (AWWA C-150), and small diameter PVC (AWWA C-900) water mains are predominantly used in new installations. The use of Steel (AWWA C-200) and HDPE (AWWA C-906) are used when construction using standard materials is not the best option. The selection of pipe material is based on site conditions and method of construction to insure the best material is selected for the intended use. The construction of larger diameter transmission mains requires a more detailed design and alternative analysis when selecting the piping material.

Exhibit 1.3.a

Comparison of Distribution Size Pipe Materials - Material Properties

Material Property	DI	PVC	HDPE
Tensile strength	60,000 psi	7,000 psi	3,200 psi
Compressive strength	48,000 psi	9,000 psi	1,600 psi
Yield strength	42,000 psi	14,500 psi	5,000 psi
Ring bending stress	48,000 psi	none specified	none specified
Impact strength	17.5 ft-lbs/in	0.75 ft-lbs/in	3.5 ft-lbs/in
Density	441 lbs/ft^3	88.6 lbs/ft^3	59.6 lbs/ft^3
Modulus of elasticity	24,000,000 psi	400,000 psi	110,000 psi
Temperature range	< 150° F	< 140° F	-50 to 140° F under press.
Thermal expansion	0.07” per 10° F per 100’	0.33” per 10° F per 100’	1” per 10° F per 100’
Corrosion resistance (internal)	Good - w/cement lining	Excellent	Excellent
Corrosion resistance (external)	Good - w/PE encasement	Excellent	Excellent
UV resistance	Excellent	Gradual strength decline	Yes - w/carbon black
Abrasion resistance	Excellent	Good	Good
Cyclic/creep resistance	Excellent	Poor	Poor
Permeation resistance	Yes	No - solvents & petroleum	No - solvents & petroleum
Scale & growth resistance	Good	Excellent	Excellent

1.4 SYSTEM PERFORMANCE

In recent years, New Jersey American Water has implemented a statewide computerized maintenance program where records of water main repairs and replacements are kept in a uniform dataset statewide. Tables 1.4.1 and 1.4.2, below, provide a summary of the main break repairs and replacements performed throughout NJAWC by lengths of material and material type for the year 2021. Aggregate main break data for 2004-2021 is provided in Section 1 of this report; the 2021 data is consistent with the Company's historic data.

Table 1.4.1

Summary of Main Lengths by Material (2021)

2021 Miles of Main					
	Central	**Coastal**	**North**	**South**	**Total**
Asbestos Cement	54	345	61	154	614
Cast Iron Lined	472	387	371	494	1,724
Cast Iron Unlined	838	252	408	280	1,778
Ductile Iron	1,712	967	570	1,582	4,831
Other Metallic	9	9	3	5	26
Plastic	6	66	8	43	124
PCCP	141	29	14	26	210
Total	**3,233**	**2,055**	**1,435**	**2,585**	**9,307**

Table 1.4.2

Summary of Main Repairs by Material (2021)

2021 Breaks by Material Type					
	Central	**Coastal**	**North**	**South**	**Total**
Asbestos Cement	7	33	9	11	60
Cast Iron	328	129	258	202	917
Ductile Iron	101	19	33	21	174
Other Metallic	7	34	6	4	51
PCCP	1			1	2
Plastic	1	2		4	7
Total	**445**	**217**	**306**	**243**	**1,211**

Combining the main break data from NJAWC's Computerized Maintenance Management System (via MapCall) and the GIS water main lengths by service area, it becomes apparent that failure rates can vary by material. Cast Iron, plastic, and other metallic water mains have considerable higher break rates than the newer materials installed after 1960. A further breakdown by service area shows additional trends in failure rates. For NJAWC, the water main break rates are generally higher in areas receiving treated surface water supplies due in part to the seasonal fluctuation in water temperature.

Table 1.4.3

Summary of Break Rate by Material (2021)

2021 Breaks per Mile by Material Type					
	Central	Coastal	North	South	Total
Asbestos Cement	0.13	0.10	0.15	0.07	0.10
Cast Iron	0.25	0.20	0.33	0.26	0.26
Ductile Iron	0.06	0.02	0.06	0.01	0.04
Other Metallic	0.80	3.83	1.85	0.79	1.97
PCCP	0.15	-	-	0.02	0.02
Plastic	0.01	0.07	-	0.15	0.03
	0.14	0.11	0.21	0.09	0.13

Numbers in red are above the AWWA Partnership goal of 15 breaks per 100 miles of main (0.15)

The highest overall failure rate has been found to be the failure of other metallic pipe in all operating areas and in particular in the Coastal Operating Area caused primarily due to the galvanized steel mains which have surpassed their useful life and are underperforming in both structural and hydraulic capacity. These mains are obsolete and prone to failure.

The greatest number of failures has occurred on cast iron water mains, which are generally among the

oldest and most prevalent assets, and which currently make up a significant portion (40%) of the Company's older distribution system assets. Most cast iron pipes fail because of a combination of factors that include external loading, internal pressure, manufacturing flaws and corrosion damage. These failures usually result in any one of the following standard type of breaks: bell splitting, consisting of a longitudinal break starting at the bell; corrosion pitting (pinholes, deterioration, or blow outs); circumferential cracking, where the pipe splits in a circle across its diameter; longitudinal cracking (stress), where the pipe breaks along its length; or from physical damage caused by outside influences.

NJAWC's current practice is to record the failure type observed when a water main is repaired or replaced. Table 1.4.4 shows the type of main failure, diameter, and material type for the past year.

Table 1.4.4

Type of Main Failure, Diameter, and Material Type (2021)

2021 Main Breaks		Failure Type							
Material	Diameter	Circular	External Corrosion	Joint Leak	Physical Damage	Pinhole	Split	Stress	Total
Asbestos Cement	< 6"	1	1						2
	6"	6	2	6	9	1	6	3	33
	8"	1	3	6	3	1	5	1	20
	10" to 16"			1	4				5
Asbestos Cement Total		**8**	**6**	**13**	**16**	**2**	**11**	**4**	**60**
Cast Iron	< 6"	58	18	4	4	4	23	2	113
	6"	341	39	52	13	12	107	12	576
	8"	111	13	9	2	1	34	1	171
	10" to 16"	13	3	9		4	20	2	51
	> 16"						6		6
Cast Iron Total		**523**	**73**	**74**	**19**	**21**	**190**	**17**	**917**
Ductile Iron	< 6"						3		3
	6"	9	8	2	2	5	57	1	84
	8"	17	17	2	4	8	18	1	67
	10" to 16"		8	2	1	3	3	1	18
	> 16"			1			1		2
Ductile Iron Total		**26**	**33**	**7**	**7**	**16**	**82**	**3**	**174**
Other Metallic	< 6"	6	6	1	6	12	12		43
	6"			2			1		3
	8"				1				1
	10" to 16"				1		2		3
	> 16"				1				1
Other Metallic Total		**6**	**6**	**3**	**9**	**12**	**15**		**51**
PCCP	10" to 16"		1						1
	> 16"		1						1
PCCP Total			**2**						**2**
Plastic	< 6"	1				2	1		4
	6"		1				1		2
	8"			1					1
Plastic Total		**1**	**1**	**1**		**2**	**2**		**7**
Total		**564**	**121**	**98**	**51**	**53**	**300**	**24**	**1211**

Table 1.4.4, above, once again highlights the need to replace the aging cast iron mains. Circular failures are typically a double failure. Initially corrosion causes a small leak, causing the soil bedding surrounding the pipe to become compromised and washed away. Without the support of proper pipe bedding, the water main experiences bending stresses which results in the larger circumferential failure. Split type failures are primarily caused by internal stress on a main with reduced pipe thickness due to internal or external corrosion. As corrosion continues, the main weakens to a point of failure caused by internal stress within a pipe. The data also shows that a majority of breaks occur on cast iron mains less than 12-inch in diameter.

Throughout NJAWC's service territories, the North Operating Region has the highest main break rate in all pipe material categories as well as the highest overall break rate, which is nearly twice that of NJAWC's average. As a result, NJAWC's pipe renewal investment level favors the North Operating Region.

1.5 PROPOSED PROJECTS—2022 FOUNDATIONAL FILING

The Foundational Filing identifies pipe projects across the state. Relocations have been identified where known for 2022 and beyond. Future year relocation projects may be substituted as needed depending on external stakeholder schedules. The projects have been prioritized based on a ranking described in Appendix B of this report. Approximately 72% of the mains are cast iron; 2% are galvanized steel or other metallic piping; and 17% are asbestos cement pipe. The remaining 9% are a combination of different pipe materials that have either hydraulic or structural deficiencies which need to be addressed.

2.1. REHABILITATION AND REPLACEMENT OPTIONS

2.1.1 PIPE

NJAWC follows the AWWA Manual M28 for the Rehabilitation of Water Mains. This Manual provides a strategy to make appropriate, cost effective decisions regarding distribution system infrastructure life extension or renewal. This section will further elaborate on the failure mechanisms of pipe, potential rehabilitative and preventative technologies, and recommendations for pipe materials for future use. Decision matrices from M28 are included at the end of this Appendix.

2.1.2 RECOMMENDATIONS FOR EXTENDING PIPE LIFE

In order to minimize main failures and maximize the life of the assets, it is necessary to understand the failure mechanisms of pipe. These failure mechanisms, which are a result of either Operational/Physical or Chemical means, are identified in Exhibit 2.1.2.a.

Exhibit 2.1.2.a

Operational/Physical	Applies to	Chemical	Applies to
Manufacturing defects	M,P,C	Internal corrosion	Unlined M,C
Improper design	M,P,C	External corrosion - soil	M,C
Geologic instability	M.P.C	External corrosion - other	M,C
Higher operating pressures	M,P,C	Leadite corrosion	M
Hydraulic transients	M,P,C	Leadite expansion	M
Change in water temperature	M	Material incompatibilities	M
Excessive external loads	M,P,C	Gasket deterioration	M, Jointed P,C
Damage from digging	M.P.C	Material fatigue	P
Improper bedding/backfill	M,P,C	Hydrocarbon Permeation	P

Pipe Code for Failure Mechanisms
M = Metallic (ductile iron and/or cast iron)
P = Plastic (PVC or HDPE), C = Concrete (RCP or PCCP)

This exhibit indicates the type of pipe (metallic, plastic, or concrete) and the resulting failure mechanism. Nearly all of these failure mechanisms can be addressed or controlled for new installations as a result of newer pipe materials, current manufacturing technology, and improved utility operational practices.

A few of these failure mechanisms warrant additional discussion as follows:

A. *Hydraulic Transients:* Hydraulic transients (or water hammers) occur as a result of a sudden change in flow velocity. Some ways that this can occur are due to a sudden starting or stopping of a pump, closing or opening a hydrant or valve too quickly, or sudden starting and stopping of water usage by large customers. As a rule of thumb, for every 1 ft/sec instantaneous change in flow velocity, the pressure head can change by 100 ft (or 43.3. psi). Pressure variations and other challenges associated with system pressures affecting NJAWC are discussed in the Operating Area sections in this report.

B. *Change in Temperature*: Cast iron pipes typically experience an increase in main failures when subjected to freezing temperatures. Although plastic pipes also are affected by a change in temperature due to their high coefficient of thermal expansion, it is less of an issue due to the flexibility of the pipe, and the phenomena of concern discussed here applies only to ferrous pipes. One theory of why iron pipes fail in freezing temperatures is that the ground movement imposes a stress on the pipe. Although this may be true, the primary reason for the failures relates to the differences in thermal expansion between water and iron. As water and the pipe cool, they are both contracting until the temperature reaches 39^{o}F. At this point, the pipe continues to contract, but the water begins to expand. This can result in a stress equivalent to that of increasing the hydrostatic pressure in the pipe by approximately 200 psi. NJAWC has significant surface water supplies, which are more sensitive to cold ambient temperatures than groundwater. The Operating Area sections of this report discuss specific thermal challenges where they exist.

C. *Corrosion (internal or external)*: Corrosion can occur in any metallic pipe. The potential for corrosion is higher in cast iron pipes than in ductile iron pipes but because cast iron is thicker, ductile iron may be more vulnerable with time. The corrosion phenomenon that occurs in cast iron (pit cast or spun cast) is called graphitic corrosion. Graphitic corrosion generally is a slow process. It can create significant problems since no dimensional or physical changes occur which are visible, yet the cast iron loses its strength and becomes brittle. NJAWC has implemented robust corrosion control practices for its finished water supply, as discussed in the Operating Area sections of this report, to address internal corrosion. Soil conditions vary among NJAWC Operating Areas, and specific challenges posed by external corrosion are discussed in those sections.

D. *Leadite Joint Corrosion and Expansion*: Leadite joint material has a different coefficient of thermal expansion than cast iron, resulting in stress on the pipe. This stress ultimately

results in longitudinal splits in the pipe bell. Secondly, the sulfur in the leadite serves as an energy source for sulfur reducing bacteria resulting in localized pitting corrosion which ultimately results in circumferential breaks on the spigot end of the pipe near the leadite joint.

E. *Material Fatigue*: There is no measurable relationship between ductile iron's applied tensile strength and time to failure. However, both PVC and HDPE pipe experience a reduction in strength over time. When a load is applied to a plastic pipe, it has an initial deformation, and then it continues to deform over time until failure. This is known as "tensile creep". The modulus of elasticity used in the design of HDPE pipe corresponds to a 50-year life. This does not necessarily mean that the pipe will fail in 50 years since it can recover from creep depending on the load duration and magnitude. However, tensile creep in plastic pipes is still a variable of which we need to be cognizant. There is also some evidence that chlorination affects plastic pipe integrity over time. Further study of these issues with plastics is on-going.

F. *Changes in Soil Moisture Content:* Tensile stresses similar to those mentioned in dropping water temperature in the pipe can be induced when pipes attempt to resist deformation imposed by soil shrinking as moisture content drops. Frictional resistance can also increase if either the frictional angle or the vertical load increases. This phenomenon has been reported in Texas during extreme drought and modeled by Thames Water and the National Research Council of Canada.

Exhibit 2.1.2.b identifies the strategies NJAWC has used to reduce pipe failures for installed pipes and continues to evaluate as part of its planning process. Additional information regarding some of the potential rehabilitation strategies (e.g. cleaning and lining protection) are discussed subsequently in this section

Exhibit 2.1.2.b

Operational Strategies for Reducing Pipe Failures

Failure Mechanism	**Strategy**
Higher operating pressures	Redistribution of pressure zones where feasible, install district metering and pressure reducing valves
Hydraulic transients	Provide surge control and operator training
Change in water temperature	Blend with ground water sources, where possible
Internal corrosion	Cleaning and lining, orthophosphate, pH buffering
Leadite corrosion	Replace, repair joint only
Leadite expansion	Replace, repair joint only
Material transitions	Install dielectrics at corporation stops, curb stops
Gasket deterioration	Replace the joint only

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2.2 REHABILITATION TECHNOLOGIES

Once a water main has been identified as failing to meet its service requirements, the method of replacement or renewal is considered. Currently, the majority of water main replacement at NJAWC is performed using an open-cut method as this is generally the least cost option. In specific cases, directional drilling or other structural rehab methods are used. Conventional open-cut construction is still the most frequently and cost-effective method of water main replacement in the United States, and therefore, contractors are usually well versed in the construction techniques and available locally at competitive costs. Once the new main has been installed, pressure tested and passes bacteriological testing, services are transferred from the old pipe to the new. Concern over potential hazards associated with asbestos cement pipe has created challenges around selecting the appropriate method for taking such pipes out of service (e.g. abandon in place or remove and risk airborne issues). Because the old main is kept in service until the new main is in place and ready for connection to the customers' service lines, service interruptions are minimized. In those unusual cases where the old main has to be shut down before the new main is in place, bypass pipes can be laid to avoid interruping service to customers.

Trenchless technologies have attracted the attention of the water industry in recent years as an alternative to open-trench methods. Based on the site-specific main replacement, trenchless technologies can potentially reduce both direct rehabilitation costs and the additional financial and commercial costs associated with excavation in the road.

For over 30 years, trenchless renovation technologies have been steadily increasing and playing an increasingly important role in the wastewater and gas industries, and for many of those utilities, it is now their method of choice.

Both the AWWA Research Foundation (AWWARF) and a number of AWWA technical committees have evaluated alternative rehabilitation technologies for application in the water utility industry. The AWWA Water Mains Rehabilitation Committee has developed guidelines for those technologies that have a proven track record within the industry while the Water Main Rehabilitation Standards Committee is developing AWWA standards for various techniques. Standards now exist for cement lining and epoxy lining with other standards in development.

Alternative rehabilitation techniques can be classified into three categories according to their effect on the performance of the existing pipe. The three categories include: non-structural systems; semi-structural systems; and structural systems.

2.2.1 NONSTRUCTURAL LINING TECHNIQUES

One of the most common and effective renewal methods used in the piping industry is the application of a non-structural protective lining on the interior of the water main. Nonstructural lining systems are used primarily to protect the inner surface of the host pipe from corrosion and tuberculation. They have no appreciable effect on the structural performance of the host pipe and have a minimal ability to bridge any existing discontinuities, such as corrosion holes or joint gaps. Since non-structural lining systems have minimal effect on leakage, the pipe to be lined must be structurally sound and leak tight at the time of lining and expected to remain so for the foreseeable future. Examples of nonstructural techniques include cement-mortar lining and polymer (epoxy resin and urethane) lining. Statements regarding the effect of service connections, valves, bends, and appurtenances on efficiency and the expected service life extension from non-structural pipe lining apply to both lining methods are discussed.

The advantages of non-structural pipe lining are that a smooth protective non-structural coating is applied to the interior surface of the pipe that restores hydraulic capacity to the water main. Valves and appurtenances are generally replaced as the life of these assets is less than the main. Care must be taken to prevent cement mortar lining from blocking service connections. The expected service life of the pipe with reasonably good structural condition can be extended approximately by 50 years with cement mortar lining or epoxy lining procedures.

Prior to the application of any lining system, the host pipe must be evaluated for structural integrity. Once determined to be structurally sound, it must be adequately cleaned to remove tuberculation and produce a clean surface to which the lining will adhere. For effective lining results, a thorough cleaning of the water main is essential. Successful cleaning may be performed by various techniques such as, flushing, cable attached devices (drag cleaning, hydraulic-jet cleaning), fluid propelled cleaning devices (foam pig, metal scrapers) or power boring.

A. Cement-Mortar Lining: Cement mortar lining is the most common rehabilitation technique in the US today and is effective and reliable. This technique is used frequently and successfully by NJAWC. Cement mortar is applied to new ductile iron pipes and most new steel pipes before installation, making this method a standard in the water industry. The water quality parameters for the area are reviewed prior to selection of this process.

   After the host pipe is cleaned, and free of water, a 1/8 inch (+/-) layer of cement mortar is applied to the pipe wall by the rotating head of an electric or air-powered machine. It should be noted, NJAWC uses a minimum specification of 3/16 inch. During the lining process, mortar, sand, and water are mixed in a hopper near the access hole and pumped to the lining machine through high pressure hoses. The lining machine is equipped with rotating

trowels or a conical drag trowel positioned just behind the dispensing head. As the machine moves through the pipe, it leaves a smooth, troweled finish that enhances the carrying capacity and flow characteristics of the pipe. Service lines and laterals less than 2-inch in diameter must be cleared after the lining application. Laterals over 2-inches are not plugged by centrifugal lining and do not require excavation or blow back

B. Polymer Spray Lining: The process for in-situ epoxy resin lining of iron and steel pipelines has been performed in North America since the early 1990's. The process has been used effectively to rehabilitate old, unlined water mains and is also classified as a nonstructural renewal method. As with other lining techniques, pipelines must be thoroughly cleaned before application of the lining. Different products vary in the acceptability of moisture in the pipe but at a minimum the pipe must be puddle free. The polymer is applied to the interior of the pipeline using a centrifugal method. Several epoxy lining and polyurea materials are currently approved for use in the potable water systems under ANSI/NSF In the past several years, NJAWC's experience with the polyurea method as provided by 3M™Scotchkote™ has been positive and is being expanded in areas of low alkalinity source water. More recently, NJAWC has been using Warren Epoxy-301-01. As new products become available, the expanded use of this technique may be possible.

2.2.2 SEMI-STRUCTURAL LINING TECHNIQUES

Semi-Structural renovation systems generally involve the installation of a thin plastics-based lining tube which achieves a "tight fit" to the pipe wall. Since the stiffness of the liner is less than that of the host pipe, some internal pressure loads are transferred to the original pipe. Such a lining is required only to independently sustain internal pressure loads at discontinuities, in the host pipe, such as corrosion holes or joint gaps. NJAWC has used this type of rehabilitation method in specific applications depending on the adequacy of the final internal diameter after lining is complete.

A liner is usually considered a semi-structural liner if its long term (50 year) internal burst strength, when tested independently from the host pipe, is less than the maximum allowable operating pressure of the pipeline to be rehabilitated. Such a liner would not be expected to survive a burst failure of the host pipe, so it cannot be considered as a replacement pipe. Semi-structural lining techniques are best suited for long transmission mains with few service connections and for situations in which obstacles such as buildings, underground utilities, and railroads do not permit the excavation of the old pipes. Examples of semi-structural lining techniques include: close-fit slip-lining and cured in place pipe lining.

A. Modified Slip-Lining Techniques: Modified or close-fit slip-lining techniques involve inserting a polyethylene pipe into the host pipe, which has been temporarily deformed to allow sufficient clearance for insertion. After installation into the host pipe the replacement

pipe is reverted back to its original size (by using heat, pressure and/or reducing tension on the pipe) resulting in a tight fit between the host pipe and replacement pipe thus maximizing the available diameter of the new pipe.

Modified slip-lining techniques differ from conventional slip-lining such that greater retention of hydraulic cross section area may be attained and the flexibility of liner thickness. Liner thickness can be selected to provide either a fully structural or semi-structural internal pressure capability. Existing services are usually handled by cutting out a window in the host pipe prior to slip lining. Service connections, valves bends and appurtenances can then be heat fused or mechanically connected to the thermoplastic pipe.

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B. Cured-In-Place Pipe: Cured-in-place pipe (CIPP) lining techniques involve inserting a polymer fiber tube or hose impregnated or coated with a thermoset resin system into the host pipe. The resin is then cured by the application of heat using steam or water to produce a rigid or semi-rigid liner which depends on adherence to the pipe wall for support. The hose is constructed to meet internal pressure requirements, and the cured resin layer serves merely as an adhesive to the host pipe. This technique has become more attractive as a robotic method to restore water connections from inside the pipe is becoming increasingly reliable.

C. Hi Build Polymer Spray Lining: Just on the horizon is the development of thicker polymer spray linings that will offer some structural support and bridge joints. NJAWC has gained some experience with 3M Scothkote™ and Warren Epoxy-301-01 in semi-structural lining rehabilitation. Due to its considerable increase in cost, it is only used where the host pipe still has 50% or more remaining wall thickness.

2.2.3 STRUCTURAL LINING TECHNIQUES

Structural lining techniques are capable of sustaining long term (50-year) internal burst strength, when tested independently from the host pipe, equal or greater than the Maximum Allowable Operating Pressure (MAOP) of the pipe to be rehabilitated. Additionally, structural linings have the ability to survive any dynamic loading or other short-term effects associated with sudden failure of the host pipe due to internal pressure loads. Structural lining techniques are sometimes considered to be equivalent to the replacement pipe, although they may not be designed to meet the same requirements for external buckling or longitudinal/bending strength as the original pipe. NJAWC has used these techniques for specific projects where feasible and cost effective.

Structural linings can be used in circumstances similar to those for semi-structural lining, but their use is essential for host pipes suffering from generalized external corrosion where the mode of failure has been, or is likely to be, catastrophic longitudinal cracking. Examples of structural lining techniques include structural slip lining and pipe bursting. Structural slip-lining techniques are similar to the semi-structural slip lining methods, but with varying design parameters for the new pipe regarding wall thickness, pressure rating, and operating requirements.

A. Slip-Lining: Conventional slip-lining is the insertion of a loose, undersized, flexible thermoplastic liner directly into the water main. The most common type of material used for slip-lining is HDPE pipe of standard sizes. The ends of several consecutive 40-foot lengths of HDPE pipe are joined (using a process known as thermal butt fusion) to form a single length of pipe. One end of this pipe is then pulled by a cable into the entry pit and through the section of the old pipe. The new pipe is then reconnected to the existing pipe. The benefit of slip-lining is that it creates a new, integral pressure pipe inside the old deficient pipeline without a complete excavation.

   Potential applications for conventional slip-lining are numerous. Slip-lining is well suited for renewal of sections of main with few service connections or sharp bends. Most existing pipelines can be slip-lined, but certain applications are ideally suited to this method:

   - Where poor structural integrity of the existing pipes make other lining methods such as cement mortar lining or epoxy lining, inadvisable.
   - Where service connections and branches are limited.
   - Where a structure has been built over the exiting main, making replacement economically impractical.
   - Where a main crosses over or under railroads, bridges, rivers or other obstacles, making alternative linings impractical or not economically feasible.
   - Where other unique circumstances make alternative lining methods impractical.

   In general, except for HDPE swaging, the insertion pipe is sized so that its outside diameter is at least 10% smaller than the inside diameter of the pipe being lined to allow for smooth insertion. The insertion liner does substantially reduce the effective cross-sectional area of the pipe. Therefore, post lining flow requirements must be considered when deciding to slip-line. However, the reduction in the friction factor of the liner pipe as compared to the old, unlined pipe should significantly compensate for the reduced cross sectional area. In addition, the flow rate will not be reduced by corrosion over time. The geometry of the

unlined pipe must also be considered, as liners generally do not turn well through elbows. HDPE lining by the swaging method is gaining useage and acceptance in pipe rehabilitation method within the water industry. However, the major drawback in any slip-lining is its cost and significant reduction in the original pipe inside diameter which may render slip-lining not feasible in some applications.

B. Pipe Bursting: Pipe bursting is a patented process of replacing existing water mains by breaking and displacing them and installing a replacement pipe along the same route and in the void created. The pipe bursting technology is a total pipe replacement method. The pipe bursting process replaces the original pipe with a new pipe of the same diameter or larger. The ability to upsize, replace an existing pipe with a larger pipe makes this an attractive option in many situations.

The system consists of a pneumatic, hydraulic or static bursting unit that splits the existing pipe while simultaneously installing a replacement pipe of the same or larger diameter and pressure rating. The pipe-bursting tool is designed to force its way through the existing pipe by fragmenting or splitting the pipe and compressing the materials into the surrounding soil as it progresses.

The use of high density polyethylene pipes as the replacement pipe is desirable due to their flexibility, especially when the pipes to be replaced are not straight. All service connections should be completely disconnected and isolated from the existing pipe before pipe-bursting operations begin. All service connections, valves, bends and appurtenances must be individually excavated and connected to the new main. A temporary bypass system is usually provided to maintain service to consumers.

3.1 COST CONSIDERATIONS

The construction technique and material used for pipeline renewal projects are based on feasibility, cost, availability and customer impact parameters. Scheduling constraints also consider such factors as the impact of detours on significant traffic flow in coastal areas during summer months. Likewise, the availability of paving material and the approval of road opening permits can impact schedules and construction techniques.

The potential cost savings for alternative rehabilitation methods remains promising as new materials are made available. The costs of these types of projects are dependent on the minimization of site restoration activities and the number of service connections on the existing main. There is usually less excavation for alternative technologies than compared with traditional open cut replacement methods. In order to avoid disruption of water supply to customers, temporary service connections may be

required to serve customers during the construction period. Equipment and crew mobilization costs, length of mains being replaced and the "learning curve" all affect the unit cost of the alternative methods.

Key elements in the selection of a renewal method (replace, re-line, structurally line) are:

- The exact nature of the problem(s) to be solved.
- The hydraulic and operating pressure requirements for the renewed main.
- The material, dimensions, and geometry of the water main.
- The quantity, types and locations of valves, fittings and service connections.
- The length of time in which the main can be taken out of service.
- Site-specific factors such as traffic conditions, paving requirements or customer special needs for fire protection.

The aim of the selection process is to consider all these factors to arrive at the most cost-effective, technically viable solution. Ideally, the cost estimate should include not only direct contracting and related costs, but also indirect costs associated with public disruption and longer term maintenance. Exhibit 3.1.a highlights the considerations used by NJAWC in project selection process.

Exhibit 3.1.a

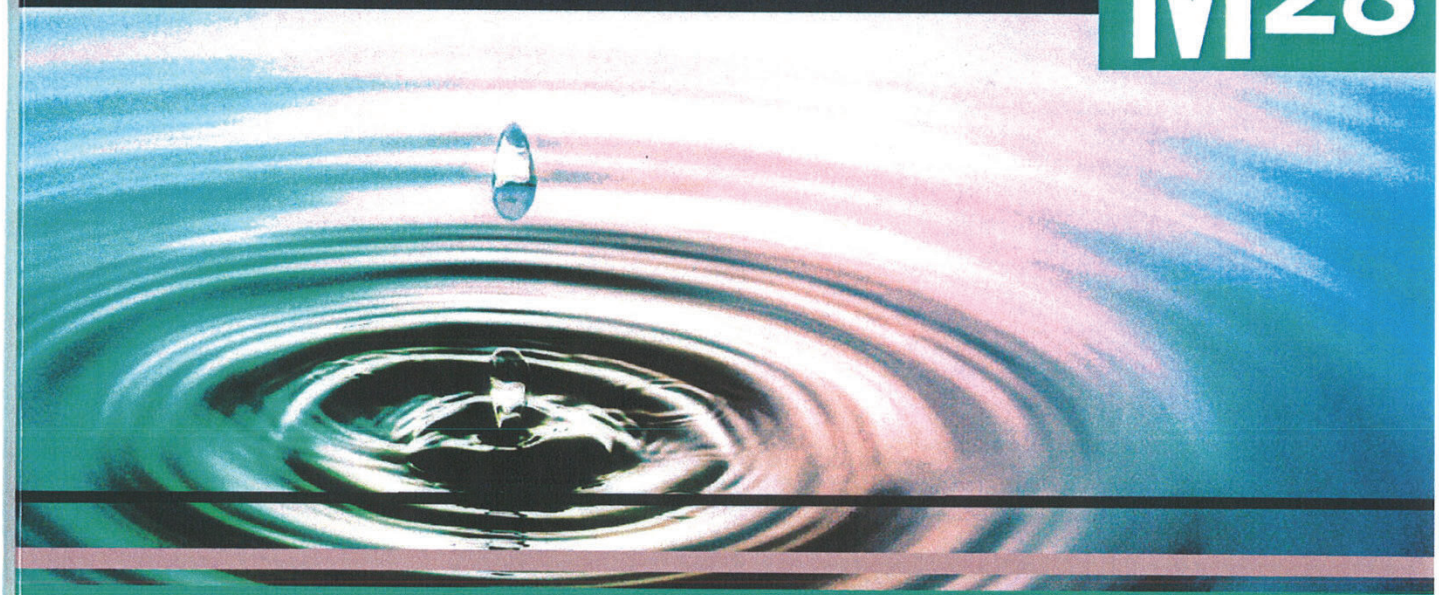
Summary of Applicable Technology and Recommended Use

Technology	Recommended Application
Cement Mortar Lining	• Prevent scale formation, internal corrosion and reduce pipe roughness (improve Hazen Williams C-value). • Considered with hydraulic and water quality (WQ) problems when there are no structural and joint leaks and original pipe material is iron or steel. • Should not be considered when soft or acidic water is conveyed due to possible deterioration of CML. • Consider the thickness of the cement mortar as it diminishes the effective diameter of the pipe, Not applicable for small undersized mains.
Polymer Spray Lining	• Protects original pipe against corrosion and provides an increased Hazen-Williams C-value. • Considered with hydraulic and WQ problems when there are no structural and joint leak problems. • Dead end lines do require some continuous low level flushing following the curing process • Not applicable for undersized mains
Close-Fit Slip-lining	• Classified as structural or semi-structural lining depending on the thickness of the liner. The inserted pipe adds strength, prevents further internal corrosion and improves Hazen-Williams C-value. • Considered for hydraulic, joint leak and water quality problems with no structural problems are involved.

Technology	Recommended Application
Cured in Place Pipe	• Compared to close-fit lining, the thickness of CIPP liner is typically less than a close-fit liner. • As with the close-fit liner, the loss of diameter is compensated for by an improved Hazen-William C-value. • As opposed to epoxy lining, CIPP also provides a certain measure of leakage protection. • Considered a semi-structural liner and is applicable for hydraulic, joint leak and water quality problems when no structural problems are involved.
Conventional Slip Lining	• Effective diameter of pipe is reduced; new pipe has a smooth interior surface. • Excavations are required for service connections, entrance and exit pits. • Various pipe materials (DI, PVC, HDPE and steel) may be used as new pipe. No strength is added to the host pipe in conventional slip lining.
Pipe Bursting	• Pipe bursting is a structural lining technique and is considered suitable for CI, PVC and thin wall steel pipes. Pipe bursting is not recommended for AC pipe if airborne asbestos results. • Pipe Bursting recommended for deep mains with sufficient cover and compressible soils to avoid heaving. • Pipe Bursting not recommended if adjacent utilities are extremely close to pipe being burst • Host pipe should not have offset pipe joints or clamps with bolts. • Applicable for replacing pipes of the same diameter or larger. • Excavations are required for service connections, entrance and exit pits.

Rehabilitation of Water Mains

MANUAL OF WATER SUPPLY PRACTICES **M28**



Second Edition

American Water Works Association

The Authoritative Resource on Safe Water℠

Advocacy
Communications
Conferences
Education and Training
▸**Science and Technology**
Sections

REHABILITATION SOLUTIONS

This manual describes a number of possible solutions to problems arising from corrosion and deposition. These range from simple periodic cleaning to replacement of the pipe using "trenchless" techniques. All of the solutions discussed in the manual make some use of the existing pipe, either as part of the rehabilitated system (renovation solutions) or as a convenient route for installation of new piping (replacement solutions). Solutions involving installation of a replacement pipe along a new route, such as open trench laying, directional drilling, and microtunneling, are outside the scope of this manual.

Selecting the optimal solution to a specific pipeline problem is a complex process involving both technical and economic considerations. Both the American Water Works Association Reseach Foundation and a number of AWWA technical committees are developing computer-based decision tools to assist utility engineers in this process. This work is expected to come to fruition while this edition of the manual remains in effect. In the meantime, the following guidelines may prove useful.

SELECTION OF REHABILITATION SOLUTIONS

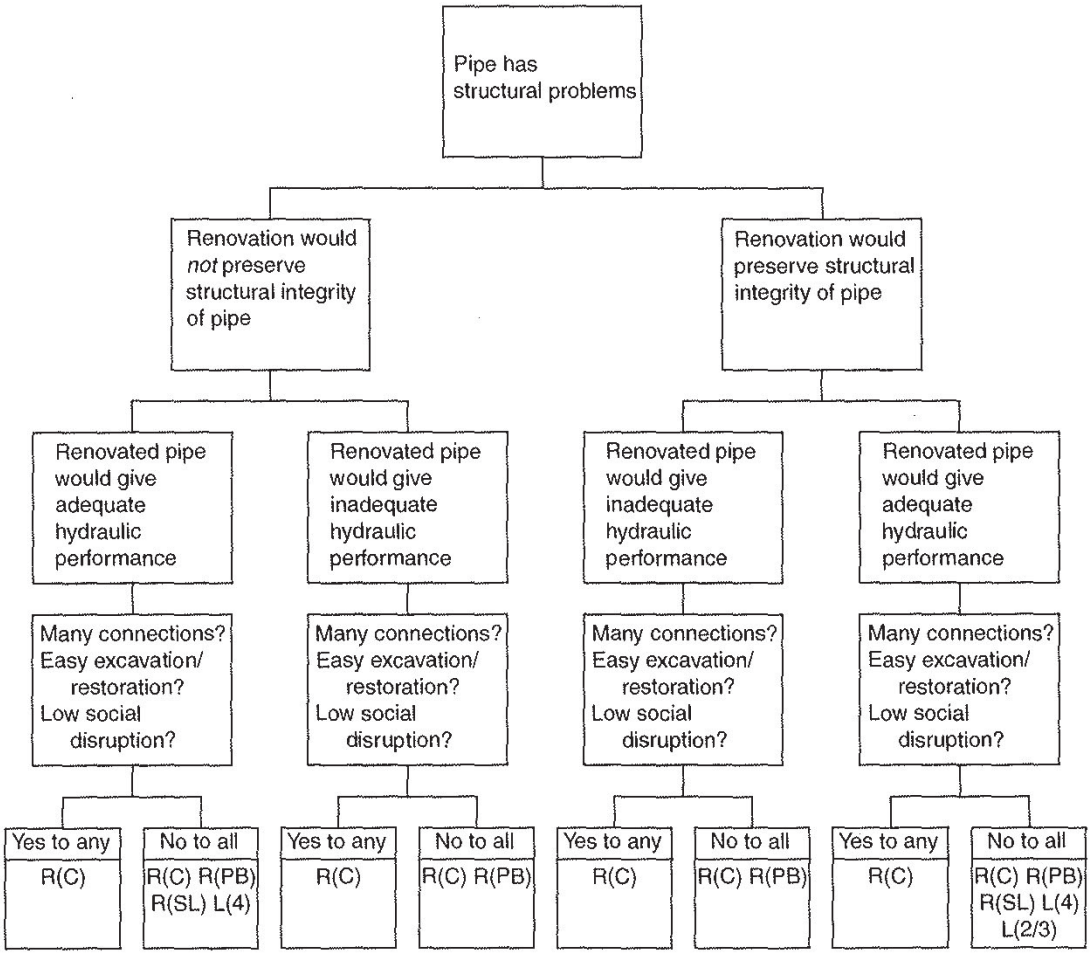
Key elements in the selection of a rehabilitation solution are

1. The exact nature of the problem(s) to be solved
2. The hydraulic and operating pressure requirements for the rehabilitated main
3. The materials, dimensions, and geometry of the water main
4. The types and locations of valves, fittings, and service connections
5. The length of time in which the main can be taken out of service
6. Site-specific factors

The aim of the selection process is to consider all these factors to arrive at the most cost-effective, technically viable solution. Ideally, the cost estimate should include not only direct contracting and related costs but also indirect costs associated with public disruption and longer-term maintenance and other "life cycle" costs.

One approach to technique selection is summarized in Figures 1-2, 1-3, and 1-4. Together, these charts provide a framework for selecting or rejecting groups of techniques, depending on the nature of the performance problems, hydraulic requirements, and some site-specific factors. In some cases, the charts indicate use of lining techniques classified as either Class I (nonstructural), Class II/III (semistructural), or Class IV (structural). A more detailed discussion of this classification system and of other key design issues associated with such lining techniques is presented in appendix A.

The figures do not list cleaning as a solution for water quality or flow and pressure problems. Cleaning with one of the various techniques discussed in the manual may well offer the lowest-cost immediate solution to many of these problems. It may offer a long-term solution if repeated as required or combined with chemical treatment of water to prevent or delay recurrence of the original problem. However, cleaning is more frequently used as a necessary preliminary step before carrying out one of the lining processes described in the manual.



R(C)–Replacement (conventional or boring/directional drilling)
R(PB)–Replacement (pipe bursting)
R(SL)–Replacement (slip-lining)
L(2/3)–Lining (semistructural—Class II/III)
L(4)–Lining (structural–Class IV)

Figure 1-2 Selection of rehabilitation techniques to resolve structural problems

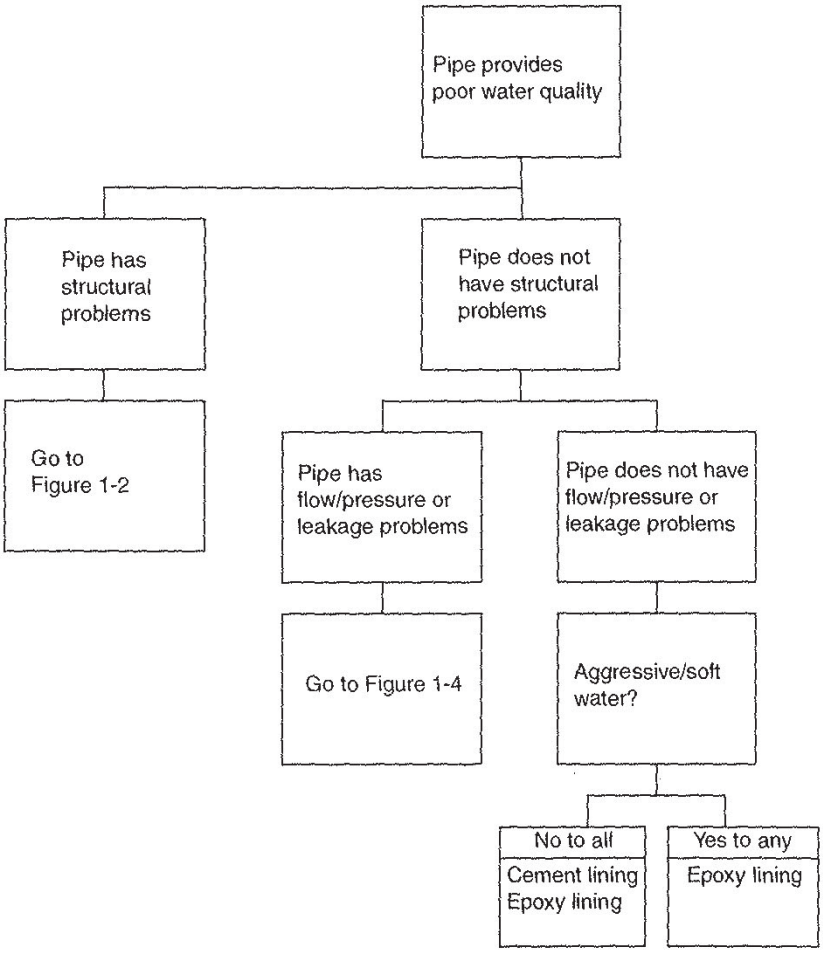
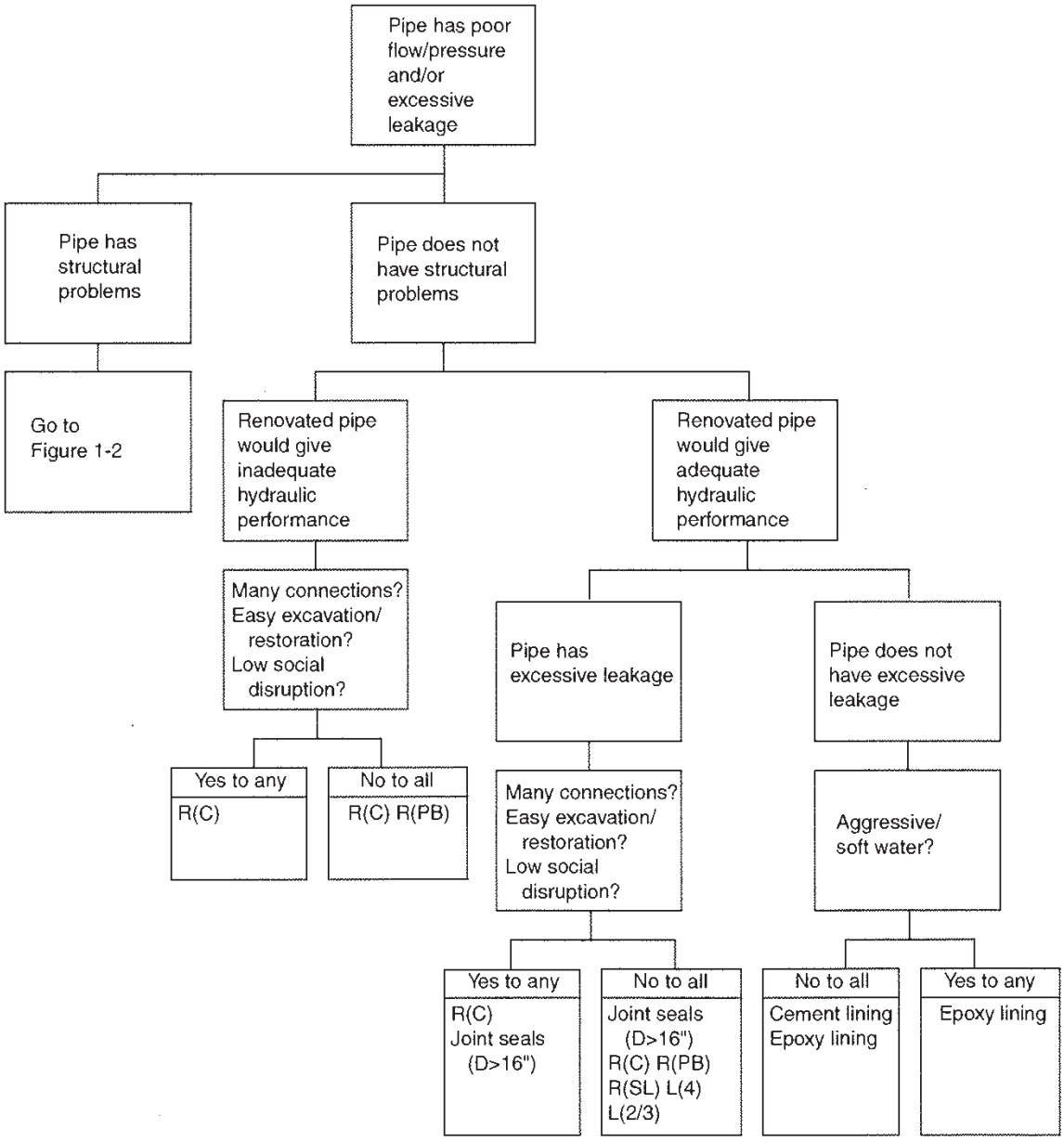


Figure 1-3 Selection of rehabilitation techniques to resolve water quality problems



R(C)–Replacement (conventional or boring/directional drilling)
R(PB)–Replacement (pipe bursting)
R(SL)–Replacement (slip-lining)
L(2/3)–Lining (semistructural—Class II/III)
L(4)–Lining (structural—Class IV)

Figure 1-4 Selection of rehabilitation techniques to resolve flow, pressure, and leakage problems

Appendix B

Prioritization Model Description

Summary

This appendix has been updated in March 2022 with a brief "Year 3 / Year 4" section, which discusses the predictive ability of the New Jersey American Water pipeline prioritization model during the two years trailing the official case study described below.

Recent studies have shown that the water mains are failing at an accelerating rate. In the meantime, water utilities are challenged with limited funding. It is important that water mains with much higher likelihood of failure are replaced before they fail, to avoid possible high consequences such as public safety threats, high financial losses, and environmental damages.

This appendix describes the model New Jersey American Water utilizes to evaluate the likelihood of water main failure (LOF) using data available in Geographic Information Systems (GIS). A case study is presented comparing two-years of actual water main break data with the results of the model. The comparison shows a strong correlation between the model prediction and the actual main break rates of pipes; thus, it validates the robustness of the model and shows that funding can be used more efficiently by focusing on the water mains with a high likelihood of failure as predicted by the GIS model.

Introduction

In the face of the high demand in pipe replacement, water utilities struggle with limited funding and the high pressure of raising water rates for their customers. Since not all pipes fail at the same time, it makes more sense to spend the funding on pipes that are more likely to fail, to improve capital efficiency while maintaining or increasing the level of service to the customers.

Significant efforts have been made to predict and prioritize water main replacements which includes top-down approaches and bottom-up approaches. For top-down approaches, Nessie Curve tools such as the Buried No Longer tool released by AWWA provides a forecast of long-term pipe replacement needs using some basic factors such as pipe age, pipe size, and pipe material. While it has a value in providing an overall view of the pipe replacement, it is not designed for granular project level determinations such as where specifically to replace the pipe.

New Jersey-American Water Company, Inc. (the "Company") owns and operates roughly 9,000 miles of water main and maintains copious amounts of condition data. The company operates a $350 million annual Capital Investment Program, which in 2021 included over $160 million toward investments in distribution system improvements. The program replaces between 75 – 100 miles of water main annually (~1% of the state-wide system). Informed decision making is central to ensuring investments have the greatest positive impact, while limiting removal of infrastructure that may have many years of useful life remaining. It is imperative that Company asset managers make consistent, measurable, and comparable investment decisions across multiple construction offices. It is important for managers to be able to measure the results of investment decisions to determine which are having the greatest impact on reducing operating and maintenance ("O&M") cost and disruption to customers associated with main breaks, and ultimately extending the useful life of existing infrastructure. A Water Research Foundation study showed that 75% of water utilities used pipe breaks as the key factor in prioritizing pipe replacements. Replacement of only pipes that break is a reactionary posture that, while necessary, can be improved. From a high level planning perspective, it is generally acceptable to use pipe-age based pipeline replacement. However, since pipes fail due to many factors, many pipes are still in good condition even though they may be defined as "beyond useful life" based on age alone. The Company felt

developing a reliable and ***granular*** failure prediction model for its distribution main asset replacement program would facilitate the Company's ability to quantify and reduce resources spent "reacting" to breaks, and to increase resources in strategic capital investment.

Efficient replacement planning is a complex process that involves many variables. These variables include considerations such as paving schedules, customer impact, water quality, hydraulic requirements, safety, and more. The goal of the model development was to analyze nearly 9,000 miles of small diameter water main (< 16" diameter) and produce granular, reliable, and measurable predictive results that could quantify the relationship between prioritization decisions and a reduction in emergency O&M work, in order to improve capital renewal efficiency.

New Jersey American Water has successfully validated the GIS-based model across all districts and all material types of pipeline. To make it simple, this appendix only focuses on likelihood of failure (LOF) of small-diameter (< 16" diameter) cast iron pipes. In practice, all small diameter material types participate in the model, and are ranked into cohorts. The Company has found that all material types show similar correlations to break rates as described for cast-iron. The appendix demonstrates that, by utilizing a specific GIS-based modeling, with well-cleaned GIS data, water utilities can quite effectively determine which small groups of water mains have a much higher likelihood to fail earlier than peers. Further, the appendix demonstrates that replacing the highest LOF cohort of main first, can reduce annual O&M expenses directly related to main breaks by over 13% annually, leading to more investment capital available for proactive main replacements, and fewer disruptions to customers.

Methodology

Hypothesis:

1) GIS-based modeling can classify water mains into cohorts according to LOF
    a. Higher LOF cohorts will experience significantly higher break rates over time.
    b. Lower LOF cohorts contain a larger percentage of main, while Higher LOF cohorts contain a much smaller percentage of main.

2) By aligning more water main replacement opportunities with higher LOF cohorts, water utilities can reduce O&M costs and service disruptions related to emergency main break repair.

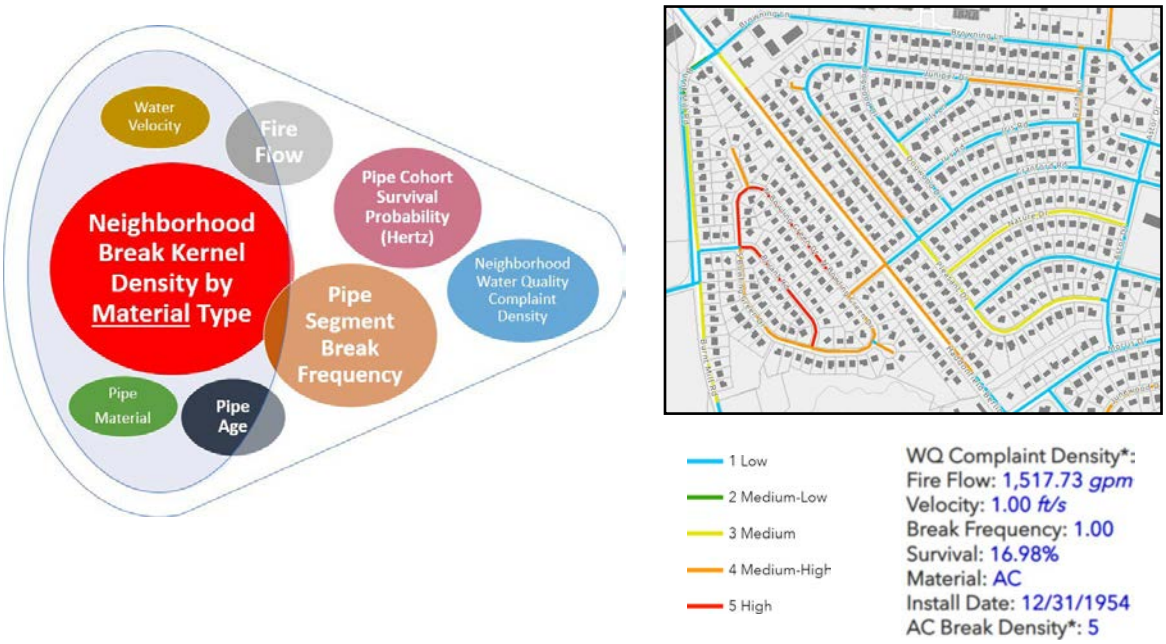


Figure 1 (not to scale) - Schematic of GIS-based LOF model. Variables are weighted, scored, and create five LOF cohorts. Water mains are assigned with LOF. End-users have the ability to select main from the map, and receive the raw variable values that contributed to the assignment of LOF (example attribute values of a main are displayed bottom-right).

The study tracked pipeline performance following a GIS-based model run in September 2017. This paper presents the results of the predictive model run, and the ***actual*** failure rates of water mains within each of five likelihood of failure (LOF) cohorts generated by the model. Specifically, the study tracked failures on each water main for two full calendar years trailing the GIS-based model run. Mains that were replaced during the interim years were excluded from annual failure rates.

Creating an "All Pipe" GIS Variable Analysis

Reliance on model guidance requires a high confidence in the validity of the data entered. Most utilities use GIS to track some portion of their asset inventory (EPA, 2013). The amount of time necessary to bring GIS & Field Transactional Data (i.e. break locations) to an acceptable level of accuracy for prediction will vary by utility. The prerequisite data cleansing is an exercise that is necessary for accurate predictive results, however, The Company has found that the labor cost is small compared to value delivered.

Case Study Areas & Data Quality Description - New Jersey

The Company has 3,779 miles of Cast-Iron main in New Jersey, spanning five geographic districts. Cast-Iron is a prevalent material in most of the 9,000+ mile study area and experiences the most breaks (% of main breaks for CI pipes), which makes it the largest sample available.

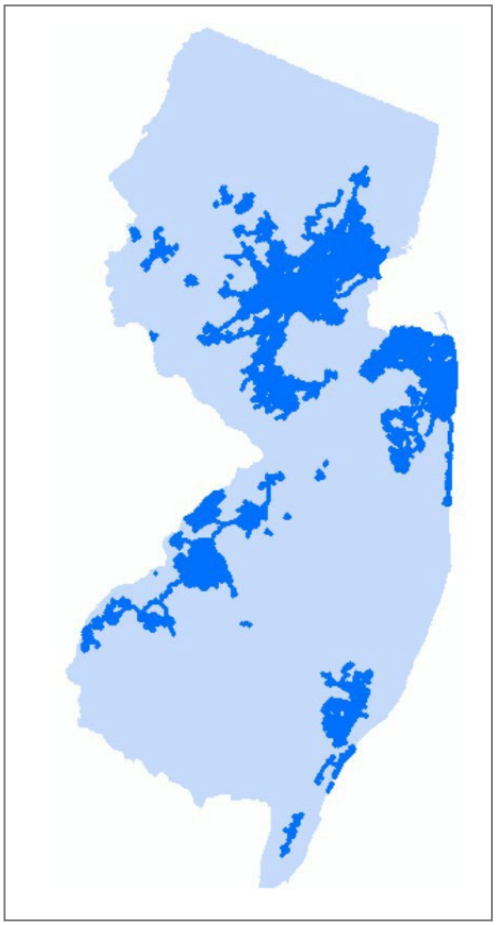


***Figure 2** - New Jersey American Water Distribution Network*

GIS data within the study area is considered excellent. Greater than **97%** of assets have assigned dates of install with reasonable expectations of accuracy, greater than **99%** have populated diameter with reasonable expectations of accuracy, and greater than **99%** have populated material type with reasonable expectation of accuracy. Greater than **99%** of the GIS assets have sub-foot GPS coordinates associated with the location. Every main break in the system, dating back five years prior to model run, has been manually snapped to the exact failure main segment within GIS. This effort was undertaken to eliminate the assignment of failure data to "good" mains by commonly used automated methods such as "Geocoding". Water quality complaints were similarly reviewed to ensure complaints were related to water quality, rather than temporary maintenance activity, such as hydrant flushing. Fire flow data and velocity data were appended to the GIS-based model from the company's hydraulic model.

Variable Weighting

In the model, each variable has a corresponding GIS layer. Every main segment in the model is assigned a value for each variable associated with it (if applicable). Table 1 displays variables and corresponding weights within the GIS-based model. Weights are applied to variable scores on a segment by segment basis within the model. Note that Consequence of Failure (COF) variables are available if desired. The authors considered most COF variables, apart from Water Quality Complaints, not to have any influence on water main failure predictions (LOF). As such, COF has been mostly excluded from this case study. The COF values, and other considerations, are certainly considered in later portions of the capital investment planning process, which are outside the scope of this appendix.

Table 1 Variables employed by the GIS model

Prioritization Criteria Variables & Weights			
Likelihood of Failure (LOF)	**Weight**	**Consequence of Failure (COF)**	**Weight**
Segment Break Frequency	20	Stream Crossing*	-
Break Density (Material 1 - Cast Iron)	20	Large Water Body Crossing*	-
Break Density (Material 2 - Ductile Iron)	20	Commercial Customer Density*	-
Break Density (Material 3 - Asbestos)	20	Water Quality Complaint Density	2
Break Density (Material 4 - Cement)	20	Railroad Crossing*	-
Break Density (continue as required)	20	Major Road Easement or Crossing*	-
Water Velocity	8	Connection Count*	-
Cohort Survival Probability	15	Medical Facilities*	-
Material	10	Company Critical Customers*	-
Age	10	School Facilities*	-
Available Fire Flow	8	Main Diameter*	-

** Most COF values are considered individually by project managers after LOF values are calculated*

Variable Scoring

Main Breaks (and leaks)

The GIS staff at New Jersey American Water developed two mechanisms for including failure data (main breaks or leaks) within the LOF prediction model. **"Frequency"** takes into account prior failure of a specific main, while **"Kernel Density Analysis" (ESRI, 2019a)** takes into account micro-geographies (neighborhoods) that may be adversely affecting certain material types of main within a very specific location, causing main of a certain material type to be particularly vulnerable to near-term failure.

a) Break *Frequency* per Segment (count of breaks and/or leaks by segment)

Break Frequency identifies individual segment failure counts. It is not a perfect measure, due to the arbitrary nature of pipe segmentation within a given GIS, however, it is a far more appropriate measure for segments analysis than using a break rate per segment. The American Water GIS (and most utility GIS) contain segment lengths that are often very small as well as *arbitrary in length*. Individual segment break rates, therefore, are not a useful variable for this study. The scores assigned to the pipe based on break frequency is shown in Table 2.

Table 2. Break Frequency Score Table

Break Frequency (count of breaks)	
Range	Score
0	0
1	8
>= 2	10

b) Break Kernel Density (rate of main breaks by neighborhood & material type)

Kernel Densities are the **most important** part of the GIS methodology, because they rank the anticipated performance of water main within a neighborhood whose boundaries are *governed by a phenomenon*, rather than by an imposed "zone". This variable calculates from the data that ***something*** - the authors are not concerned 'what' - is negatively affecting a material in a small neighborhood, which places the remaining *matching* material within that neighborhood at a significantly elevated risk of failure. Break Kernel Densities are mathematical curves of spatial densities of main break activity. The GIS Kernel Densities can add nuance ranking that a human being could not easily perform, because it is able to add contributing factors that humans cannot easily observe or infer from the data.

In effect, Kernel Densities isolate supercharged break rates. Rather than measure on a system, town, or district meter zone level, Kernel Densities measure the intensity of the problem where it has been occurring. The extremely high break rates within these very small "hot spot" zones are the most influential factor on break rates within any size system. If a matching material main is within a hot spot, the GIS-based model does not automatically rank it as "High LOF", but the main is scored quite high. If the main also has other negative variable scores, it will almost certainly fall within the High LOF cohort.

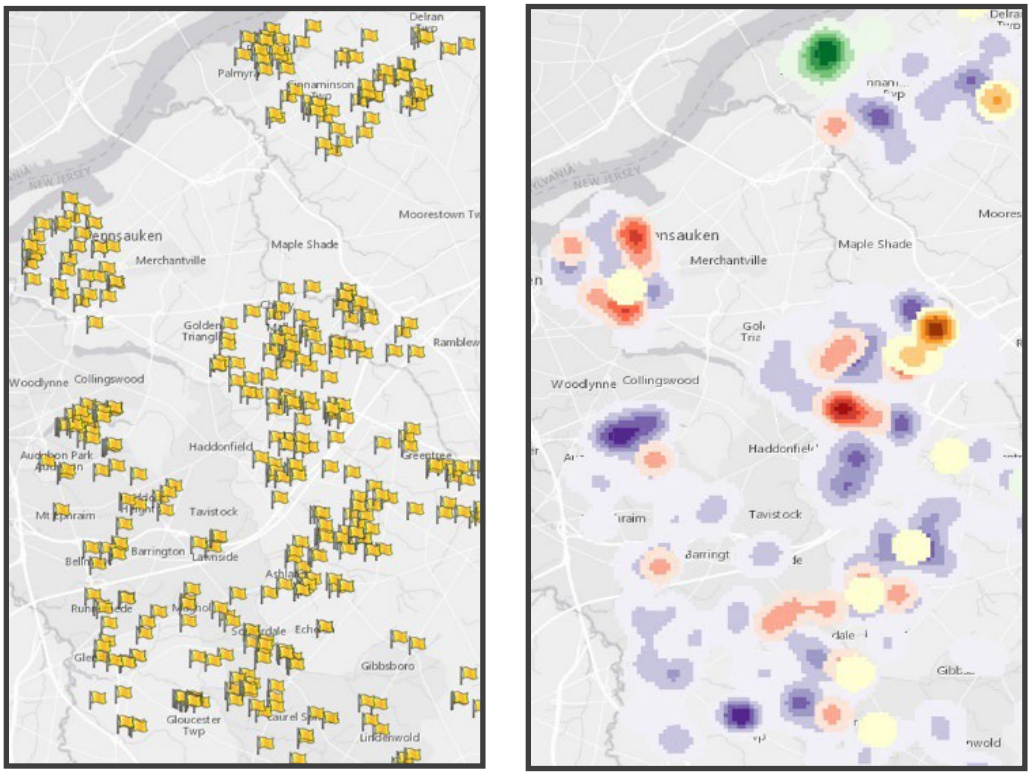


Figure 3. Break point locations and the corresponding Kernel Density "hot spots" of each material type. The case study in this paper focuses on cast iron, however, the full model ranks all material types.

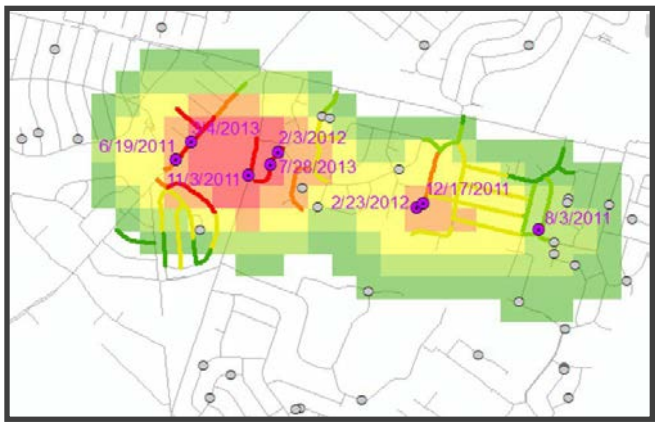


Figure 4. Break Kernel Density results revealing a localized Asbestos Cement material break "hot spot". Only water mains that are of this material type will receive a score from the hot spot by the GIS model. The matching main receives the "hottest" score that it "touches". Light gray mains in Figure 4 are of different material types, so they do not receive a negative score from this hot spot.

Break Kernel Density (rate) – Break Kernel Densities are calculated for material types that make up more than 5% of total breaks within a district. Density ranges are relative to the break population within each material and are classified by GIS with the Jenk's Natural Breaks (ESRI, 2019b) formula. The density scoring charts below are examples. Relative scores are determined by a density formula driven by location and frequency of breaks.

Note: Score classes for materials other than Cast Iron are displayed but not part of this case study.

Table 3 Break Kernel Density score chart examples.

Break Density Cast Iron (relative rate)	
Range	Score
<= 4	1
4 - 9	2
9 - 15	6
15 - 22	8
> 22	10
UNK	0

Break Density Ductile (relative rate)	
Range	Score
<= 2	1
2 - 4	2
4 - 7	6
7 - 11	8
> 11	10
UNK	0

Break Density Cement (relative rate)	
Range	Score
<= 4	1
4 - 8	2
8 - 12	6
12 - 16	8
> 16	10
UNK	0

Break Density Asbestos (relative rate)	
Range	Score
<= 2	1
2 - 4	2
4 - 6	6
6 - 8	8
> 8	10
UNK	0

Pipe Age

Several variable weights were attempted in early model testing, and the results were viewed side by side in test neighborhoods. The best and most granular results came from including Age & Material as individual variables in the model. Below is the Age variable scoring chart.

Table 4. Age score chart.

Age (install date)	
Range	Score
< 1910	10
1910 - 1930	9
1930 - 1950	7
1950 - 1970	6
1970 - 1990	4
1990 - 2010	2
> 2010	0

Cohort Survival Probability (Weibul algorithm) - These curves are applied within the GIS model and scored and weighted to appropriately reflect their *generalized* impact to predictive value. These curves represent water main material populations' life expectancies over time. Short, medium, and long-life expectancies for each material type are entered in a table that creates the curves by applying the algorithm. The formula creates a survival probability curve based on the material and age of the study area. For this analysis, the percent chance of survival at 5-years out from model runtime (2023) was chosen. The chart below (Figure 5) is an example with all material types and is not the actual data from the study.

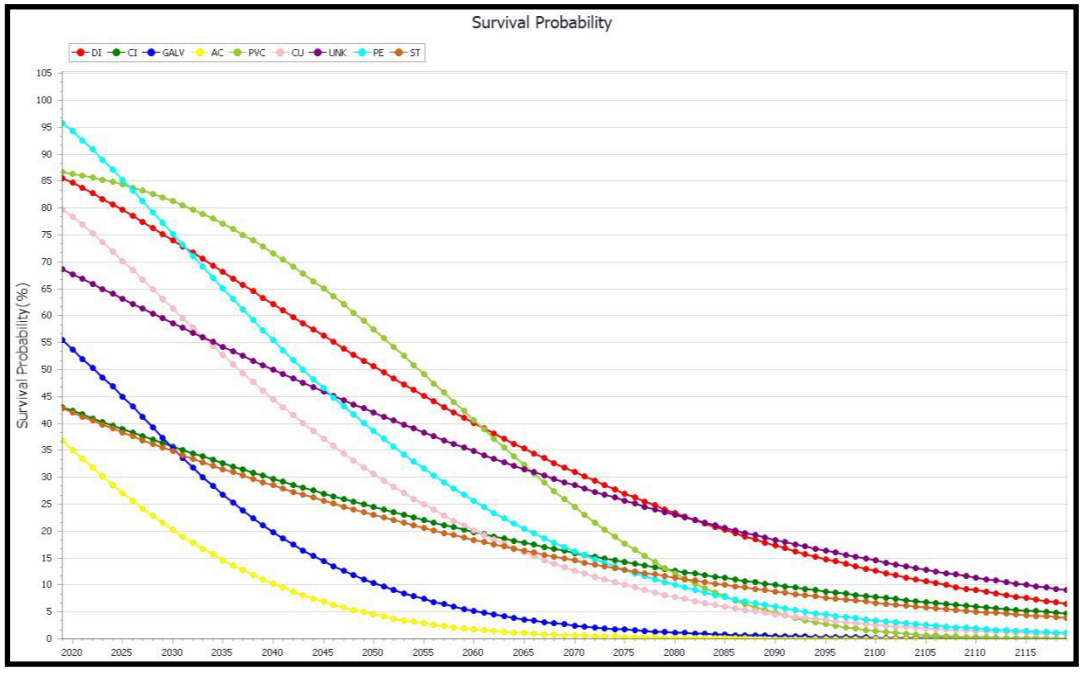


Figure 5. Weibul survival probability curves. This variable is produced by an industry standard algorithm that evaluates survival probability based on material type and age. This variable is very similar to "Nessie" curve guidance on pipe age replacement rates. As a variable within the GIS model, a point in time five years out (in this case 2023) is chosen to score the general survival probability of the pipe segment as part of its class.

Pipe Material

Below is the Material scoring chart for an all material type model run. This study only includes Cast Iron.

Table 5. Material score chart.

Material (type)	
Range	Score
Cast Iron	3
Ductile Iron	1
Asbestos	6
Cement	6
Galvanized	8
Unknown	3
Copper	5
PE	1
Steel	2
HDPE	1
Lead	7

Velocity

High flow velocity in distribution main can be an indicator of potential risk. Below is the Velocity scoring chart.

Table 6. Velocity score chart.

Velocity (feet/second)	
Range	Score
< 4	0
4 - 7	5
> 7	10

Water Quality Complaints

This variable is scored by Kernel Density, using a similar workflow as the other variables that use relative rates. Water quality complaint points are turned into hot spots. The classification of the scores is performed by the Jenks Natural Breaks method. Ranges are driven by location and frequency of complaints.

Table 7. Water quality complaint score chart. Classification performed by Jenks Natural Breaks.

Quality Complaint Density (relative rate)	
Range	Score
<= 4	0
4 - 9	2
9 - 16	5
16 - 27	8
> 27	10

Available Fire Protection

The Fire Flow (FF) scoring chart scores severity of low flows below the general desired 3500 gpm. Future plans include a more granular FF score based on local zoning layers, but this is not possible with current data availability.

Table 8. Fire Protection score chart.

Available Fire Flow (gpm)	
Range	Score
< 250	10
250 - 500	9
500 - 750	8
750 - 1000	7
1000 - 1500	4
1500 - 2500	3
2500 - 3500	2
> 3500	0

Case Study – Statewide Validation Results

Break rates are reported using the industry standard: Breaks / 100 Miles / Year. Colors within the table and the graph represent five LOF cohorts created by the GIS model (Low – High Risk of Failure). As discussed earlier, there are many valid reasons to replace water main besides the likelihood of failure. A Low LOF GIS cohort does not necessarily indicate a 'healthy' pipe or a pipe that is properly sized for the system. It simply indicates the pipe is not considered by the GIS LOF model to be of **imminent** risk for a near-term failure.

Figure 14 – Statewide GIS model cohort prediction performance of case cast iron main. The chart indicates a strong correlation between GIS model higher LOF cohorts and elevated near-term higher break rates. The data also indicates that the age variable alone is not a reliable differentiator between large deltas in break rates.

Cast Iron - Statewide				**Year 1**		**Year 2**	
Risk Cohort	Avg. Age (years)	Miles	% of Total	Breaks	Breaks / 100 miles / Year	Breaks	Breaks / 100 miles / Year
Low	57	1799	47.6%	329	18	200	11
Medium-Low	72	1142	30.2%	306	27	181	16
Medium	75	509	13.5%	209	41	139	27
Medium-High	89	248	6.6%	149	60	107	43
High	92	81	2.1%	87	107	114	141

Figure 14 illustrates that, over the two-year study period, greater than 77% of The Company's cast iron pipes experienced a significantly lower break rate than the 2018 national average of 34.8 breaks / 100 miles / Year for cast iron pipe (Folkman, 2018). Further, the table indicates that age alone is not a reliable indicator of large increases in break rates. The average age difference between Medium-Low and Medium GIS LOF cohorts is only three years; however, the break rate increases an average of 138%. Similarly, the

Medium-High and High-LOF cohorts have only a three-year delta of average age, however, the break rate of the High-LOF cohort is 240% greater than the Medium-High LOF cohort over the study period. Indeed, a mere 2.14% of Cast Iron pipe experienced break rates more than 3x the national average. This is not to say that age does not matter. Age is included as a variable within the GIS LOF model, both directly, and indirectly as part of the Weibul survival variable. The overall validation results chart indicates, however, that age as an individual factor is more pronounced at roughly the 60-year-old and 80-year-old thresholds.

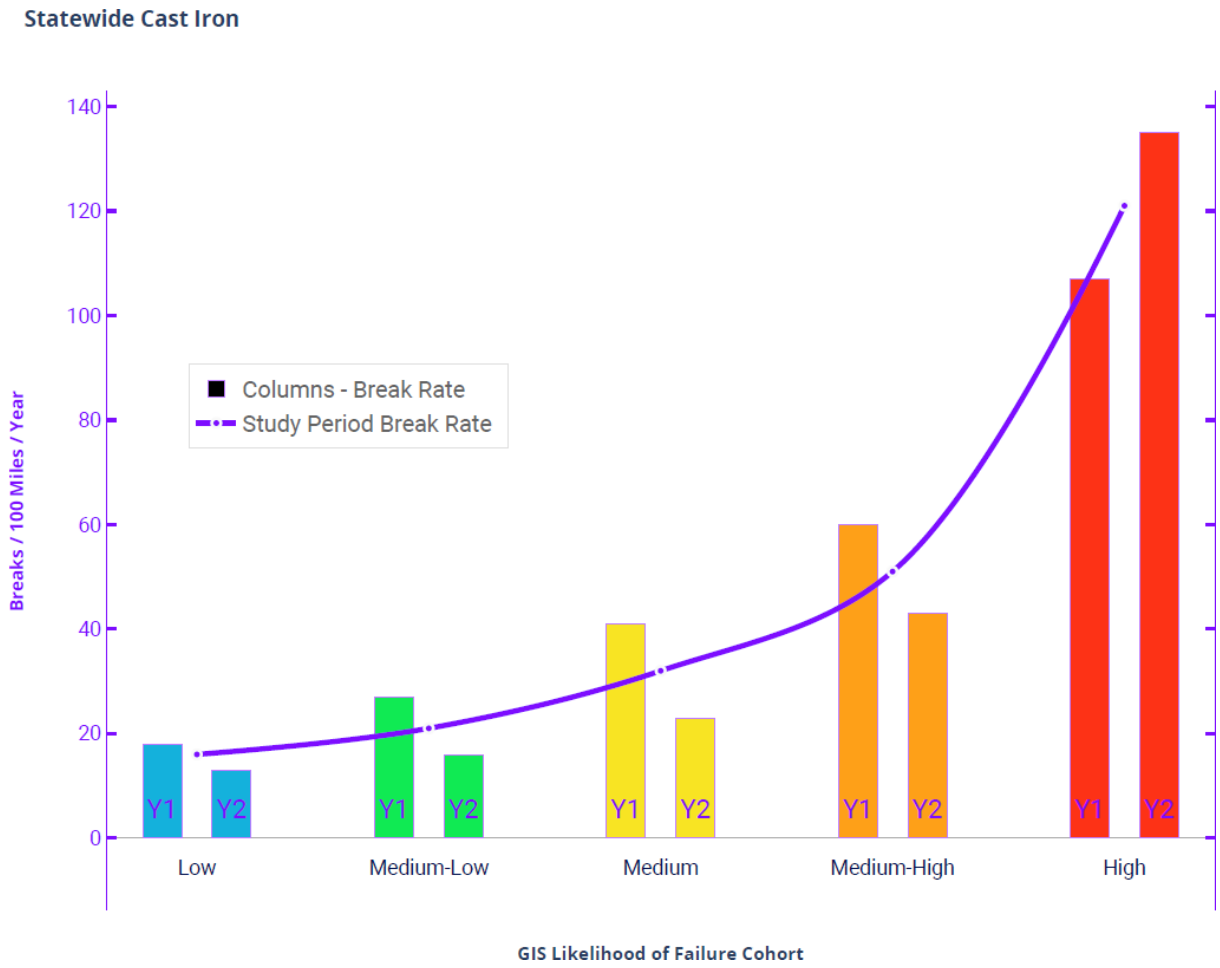


Figure 15 – Statewide GIS model cohort prediction performance of case cast iron main. The graph and purple trend line indicate a strong correlation between the GIS model LOF cohorts and elevated near-term break rates.

Each LOF cohort in **Figure 15** has two bars representing the Year 1 & Year 2 actual failure rates. The purple right-axis measures the actual failure rate. The purple trend line displays the Years 1 & 2 actual break rate average within each GIS prediction cohort. The trend line illustrates the potential of the GIS model to refine asset replacement strategies. The AWWA "Buried No Longer" and other similar high-level age-based guidance are not granular enough to inform individual replacement decisions, leaving professionals to call on institutional knowledge, system records, and human processes to guide prioritization with limited funds available.

The GIS model developed by New Jersey American Water, however, has performed a completely different type of assessment of pipes than age-based guidance methods are designed to identify. The GIS model applies simple mathematics, using a limited number of important variables, to each pipe segment in a "bottom-up" manner. As a result of careful attendance to GIS data quality, the model can identify trends within small groups of pipes which will experience failure first. Note, there is a higher raw number of breaks in lower LOF cohorts. This is expected random failure behavior, given the far larger population within these cohorts. While there is variation year-to-year in the total number of breaks, as well as in the magnitude of break rate within cohorts, the validation study indicates there is a high degree of correlation between actual failure rates and GIS model LOF prediction cohorts.

Validation Conclusions

The GIS-based model and validation study confirmed the two hypotheses:

1) GIS-based modeling can identify small cohorts of water main at high LOF for near-term failure.
    a. Higher LOF cohorts will experience higher break rates over time.
2) By aligning more main replacement opportunities with higher LOF cohorts, water utilities can reduce O&M costs and service disruptions related to emergency main break repair.

The GIS-based model has performed a far more granular, as well as comprehensive, assessment of all pipes than traditional industry age-based guidance and assessment methods are designed to identify. While there is variation year-to-year in the total number of breaks, as well as in the magnitude of break rate within cohorts, the case study suggests a high degree of correlation between actual failure rates and GIS LOF prediction cohorts. It is imperative, however, that the GIS data be properly maintained and curated. GIS data is central to utilities' ability to predict LOF reliably. While largely a manual effort, labor costs associated with GIS data cleansing are low compared to the value delivered.

New Jersey American Water's GIS-based computer LOF model removes a significant amount of subjectivity from baseline prioritization, by providing a "bottom up" comprehensive score of each main. No artificial intelligence is required. The variables considered are not novel, however, the attention to precision & accuracy within the GIS system is. The validation results show that, when variables that effect the condition of a main are assigned as attribution to the *correct* mains within a GIS system, the system can then produce a remarkably accurate, reproducible, and granular failure prediction model.

March 2022 Update – Year 3 and Year 4 Prediction Performance

New Jersey American Water continues to track the predictive performance of its pipeline prioritization model on the original cohorts of LOF risk year over year. The predictive ability of the model has remained remarkably stable within the Low to Medium-High cohorts in Year Two through Year Four. Figure 16 displays a chart of main failure statistics (breaks) upon the original Low, Medium-Low, Medium, Medium-High, and High Risk Cohorts. As a reminder, this chart tracks the *original* cohorts of main failure statistics. As the years progress, the length of miles of water main within each cohort decreases, particularly rapidly within the "High" Risk Cohort, as the company replaces infrastructure.

Cast Iron - Statewide				Year 1		Year 2		Year 3		Year 4	
Risk Cohort	Miles (circa 2017)	Avg Age (Years)	% of Total	Breaks	Breaks/100 Mile/Year	Breaks	Breaks/100 Mile/Year	Breaks	Breaks/100 Mile/Year	Breaks	Breaks/100 Mile/Year
Low	1,799	57	47.6%	329	18	200	11	211	12	262	15
Medium-Low	1,142	72	30.2%	306	27	181	16	174	15	237	21
Medium	509	75	13.5%	209	41	139	27	114	22	134	26
Medium-High	248	89	6.6%	149	60	107	43	98	40	99	40
High	81	92	2.1%	87	107	114	141	43	53	58	72

Figure 16 – Statewide GIS model cohort prediction performance of case cast iron main. The chart indicates a strong correlation between GIS model higher LOF cohorts and elevated near-term higher break rates. The data also indicates that the age variable alone is not a reliable differentiator between large deltas in break rates.

Figure 17 displays the same information as Figure 16, for Year 3 and Year 4, in graph form. The graph has two bars representing the Year 3 & Year 4 actual failure rates of Cast-Iron main (statewide). The purple right-axis measures the actual failure rate. The purple trend line displays the Years 3 & 4 actual break rate average within each GIS prediction cohort. Both the chart and the graph show that a strong correlation between the prioritization model LOF Risk Cohorts and observed water main failures has continued throughout the four-year period. The authors attribute the variability within the highest risk cohort to small (and shrinking) length of main within the "High" risk cohort. The other four risk cohorts show remarkable "Breaks/100 Mile/Year" stability throughout the four-year observation.

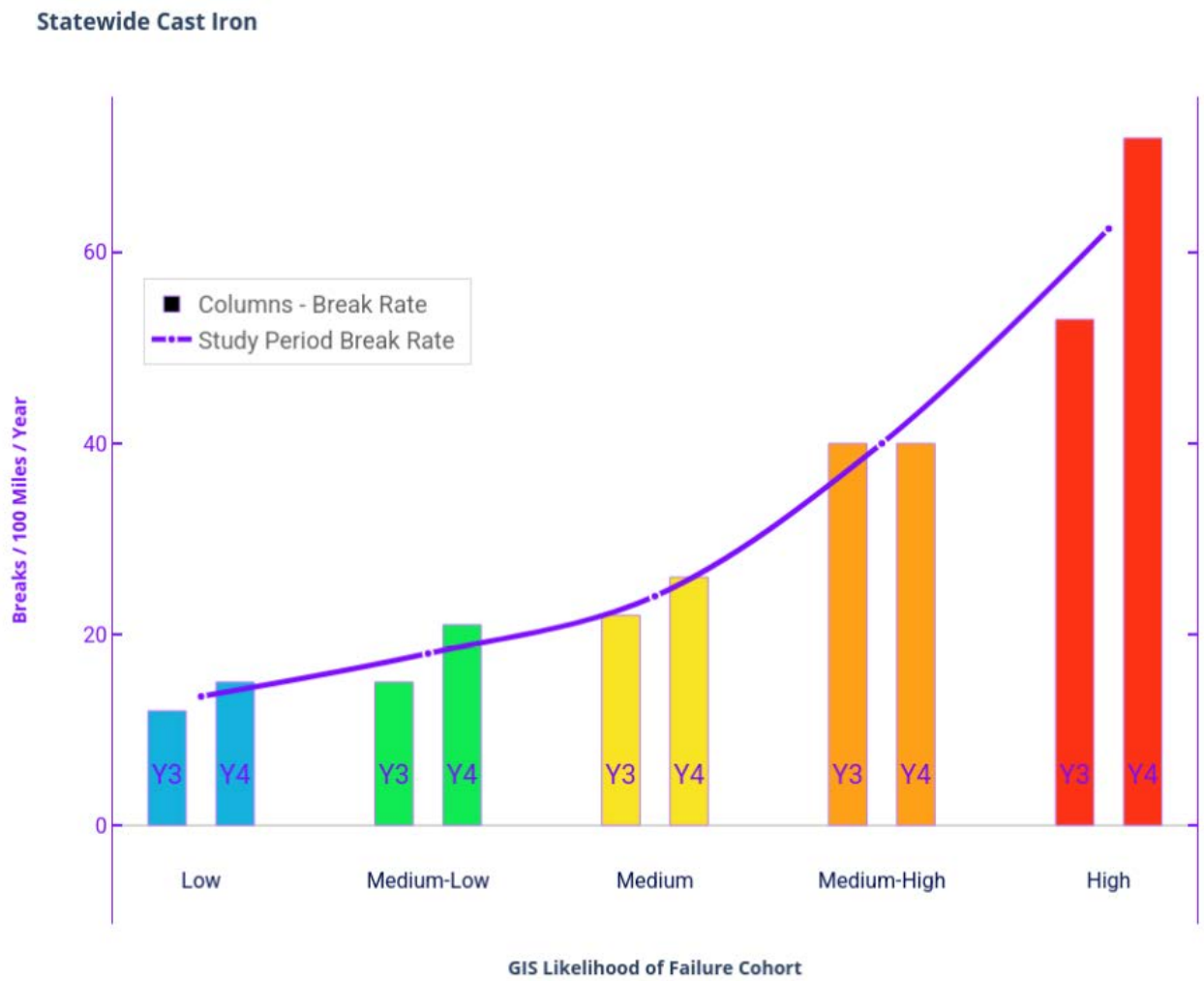


Figure 17 – Statewide GIS model cohort prediction performance of case cast iron main Year 3 and Year 4. The graph and purple trend line indicate a continued strong correlation between the GIS model LOF cohorts and elevated near-term break rates.

Reference

ESRI. (2019a). *Kernel Density*. Retrieved from http://resources.arcgis.com/en/help/main/10.2/index.html#//009z0000000s0

ESRI. (2019b). *Jenk's Natural Breaks*. Retrieved from http://support.esri.com/en/knowledgebase/GISDictionary/term/Jenks'%20optimization http://resources.arcgis.com/en/help/main/10.1/index.html#//00s50000001r000000

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
244	Coastal Operating Area	ABERDEEN	Aberdeen - Idlebrook, from InnerHill to "I" tank 10"	$ 120,000	Replace	725	8.00	PVC	1950	10	CI	Safety and Reliability/Structural	20	2025Q4
5293	Coastal Operating Area	ABERDEEN	Idaho Lane, Main Replacement	$ 195,000	Replace	1327	8.00	PVC	1960	6	AC	Safety and Reliability	5	2025Q4
11024	Coastal Operating Area	ABERDEEN	Overlea Lane Eastment Rehab	$ 250,000	Rehab	964	8.00	Other	1960	8	AC	Safety and Reliability/Structural	60	2025Q4
11050	Coastal Operating Area	ABERDEEN	Idlewild Lane to Ivy Hill Main Rehab	$ 120,000	Rehab	424	12.00	Other	1950	12	AC	Safety and Reliability/Structural	30	2025Q4
216	Southern Operating Area	ABSECON	Shore Road - Between Station Avenue & Faunce Landing Road (Shore Rd Mort ends 2014)	$ 609,000	Replace	1740	16.00	Ductile Iron	1940	6	CI	System Flows and Pressure	30	2025Q4
217	Southern Operating Area	ABSECON	Shore Road - Between Faunce Landing Road & Shady Lane (Shore Rd Mort ends 2014)	$ 255,000	Replace	989	16.00	Ductile Iron	1910	4	CI	System Flows and Pressure	60	2025Q4
235	Southern Operating Area	ABSECON	Shore Road - Between Shady Lane & Bayview Drive (ASMRP 1.10)	$ 845,900	Replace	2417	16.00	Ductile Iron	1910	4	CI	System Flows and Pressure	90	2025Q4
236	Southern Operating Area	ABSECON	Shore Road - Between Bayview Drive & Wyoming Avenue	$ 453,000	Replace	1294	16.00	Ductile Iron	1910	4	CI	System Flows and Pressure	30	2025Q4
237	Southern Operating Area	ABSECON	Shore Road - Between Kessler Avenue & 200 Feet North of Kessler Avenue	$ 72,000	Replace	206	16.00	Ductile Iron	1980	6	CI	System Flows and Pressure	10	2025Q4
5500	Southern Operating Area	ABSECON	West Absecon Boulevard from Shore Road west 331 feet	$ 41,375	Replace	285	8.00	Ductile Iron	1930	6	CI	Water Quality	30	> 2025
5509	Southern Operating Area	ABSECON	Richmond Circle from Shady Lane to the end	$ 93,250	Replace	373	6.00	Ductile Iron	1910	2	CI	Water Quality	12	2024Q4
6056	Southern Operating Area	ABSECON	Berkley Avenue between Shore Road and Euclid Drive	$ 112,500	Replace	611	8.00	Ductile Iron	1940	2	CI	System Flows and Pressure	60	2024Q4
6057	Southern Operating Area	ABSECON	Cordova Drive between Shore Road and Lisbon Ave	$ 50,000	Replace	255	6.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	25	2024Q4
6060	Southern Operating Area	ABSECON	Wyoming Avenue between Shore Road and Pitney Road	$ 650,000	Replace	2777	12.00	Ductile Iron	1910	6	CI	System Flows and Pressure	90	2023Q4
6066	Southern Operating Area	ABSECON	Seminole Avenue between Alemeda Avenue and Mill Road	$ 178,400	Replace	1126	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	30	> 2025
6083	Southern Operating Area	ABSECON	Cedar Hill Drive between Reed Road and Burning Tree Blvd	$ 58,000	Replace	389	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	> 2025
6085	Southern Operating Area	ABSECON	Cynwyd Drive between Cedar Hill Drive and Park Avenue	$ 268,000	Replace	1937	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	60	> 2025
6581	Southern Operating Area	ABSECON	Burning Tree Blvd between Forest Hill Dr and Cedar Hill Dr	$ 195,000	Replace	1304	8.00	PVC	1940	6	CI	Safety and Reliability/Structural	60	> 2025
6583	Southern Operating Area	ABSECON	Wynnewood Dr between Forest Hill Dr and 350' N. of US Rt 30	$ 129,000	Replace	1125	8.00	PVC	1940	6	CI	Safety and Reliability/Structural	60	> 2025
6585	Southern Operating Area	ABSECON	Briarcliff Place between Reed Rd and Park Ave	$ 42,000	Replace	266	8.00	PVC	1940	6	CI	Safety and Reliability/Structural	30	> 2025
6587	Southern Operating Area	ABSECON	Woods Road between Reed Rd and Hillside Circle	$ 85,500	Replace	541	8.00	PVC	1970	6	CI	Safety and Reliability/Structural	10	> 2025
10686	Coastal Operating Area	ALLENHURST	Ocean Place Main Replacement	$ 240,000	Replace	992	8.00	PVC	1960	4	CI	Safety and Reliability	60	> 2025
7775	Coastal Operating Area	ASBURY PARK	Atkins Ave 4" CI	$ 60,000	Replace	600	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	> 2025
107	Southern Operating Area	AUDUBON	Audubon - Carlisle Road - Amhurst Road to Hopkins Road	$ 285,000	Replace	1396	8.00	Ductile Iron	2010	8	DI	System Flows and Pressure	3	> 2025
108	Southern Operating Area	AUDUBON	Audubon - South Barrett Avenue - East Pine Street to Blow Off	$ 266,000	Replace	1266	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	12	> 2025
5929	Southern Operating Area	AUDUBON	Audubon - Bringhurst Avenue / Park Place - Paris Avenue to Hopkins Avenue	$ 418,000	Replace	2130	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	30	> 2025
5954	Southern Operating Area	BARRINGTON	Barrington - Kingston Avenue - 3rd Avenue to 5th Avenue	$ 266,000	Replace	1347	8.00	Ductile Iron	1950	4	CI	System Flows and Pressure	120	> 2025
798	Coastal Operating Area	BAY HEAD	Bay Head - Between Lake Ave and Rt 35 from Karge St south to terminus.	$ 27,600	Replace	173	6.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2024Q4
802	Coastal Operating Area	BAY HEAD	Bay Head - Warren Pl from Osborne Ave to terminus.	$ 15,600	Replace	126	2.00	Other Plastic	1930	2	CI	Safety and Reliability/Structural	30	2024Q4
6764	Northern Operating Area	BEDMINSTER	BEDMINSTER - Old Stonehouse Rd between Old Dutch Rd & Ski Hill Dr	$ 440,000	Replace	2263	8.00	Ductile Iron	1970	6	CI	Safety and Reliability	90	2023Q4
6766	Northern Operating Area	BEDMINSTER	BEDMINSTER - Ski Hill Dr off Route 206	$ 800,000	Replace	5055	8.00	Ductile Iron	1980	6	CI	Safety and Reliability	30	2022Q3
6767	Northern Operating Area	BEDMINSTER	BEDMINSTER - White Oak Lane in easement between #21 & #45	$ 35,000	Replace	210	6.00	Ductile Iron	1790	2	CI	Safety and Reliability	35	> 2025
10800	Northern Operating Area	BEDMINSTER	Easement from river off Black River Rd to feed Long Lane houses	$ 625,000	Rehab	2466	8.00	Other	1910	8	CI	Safety and Reliability/Structural	90	2022Q4
10843	Northern Operating Area	BEDMINSTER	Route 202 bridge over the Raritan River North Branch	$ 100,000	Replace	146	16.00	Steel	1970	8	DI	Relocation/Opportunity	30	2024Q3
10844	Northern Operating Area	BEDMINSTER	Route 202 (Main St) from Rt 206 to bridge approach over the Raritan River North Branch	$ 1,100,000	Replace	3409	16.00	Ductile Iron	2000	8	DI	System Flows and Pressure	90	> 2025
5667	Southern Operating Area	BELLMAWR	Bellmawr - 1st Ave and N. Bellmawr Avenue - E. Browning Road to Existing 6"	$ 114,000	Replace	863	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	30	2025Q4
5899	Southern Operating Area	BELLMAWR	Bellmawr - Campanell Avenue - East Browning Road to Lake Drive	$ 106,400	Replace	557	8.00	Ductile Iron	1940	2	CI	System Flows and Pressure	30	> 2025
24	Northern Operating Area	BELVIDERE	Belvidere - Water St (Wall St to Hardwick)	$ 337,500	Replace	1971	12.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	> 2025
64	Northern Operating Area	BELVIDERE	Belvidere - Oxford Street from Franklin to 5th St	$ 800,000	Replace	3215	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	30	> 2025
5471	Northern Operating Area	BELVIDERE	4th Street from Franklin to 5th	$ 250,000	Replace	1034	6.00	Ductile Iron	1930	4	CI	Safety and Reliability	30	2022Q4
5472	Northern Operating Area	BELVIDERE	5th Street from 4th to Greenwich	$ 300,000	Replace	2424	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	30	> 2025
5473	Northern Operating Area	BELVIDERE	3rd ST from Oxford to Mansfield	$ 297,750	Replace	1403	8.00	Ductile Iron	1930	4	CI	Safety and Reliability	45	> 2025
5474	Northern Operating Area	BELVIDERE	2nd St from Oxford to Depue St.	$ 562,000	Replace	3044	8.00	Ductile Iron	1930	4	CI	Safety and Reliability	30	> 2025
5475	Northern Operating Area	BELVIDERE	Greenwich St. from 3rd to Water	$ 400,000	Replace	2687	8.00	Ductile Iron	1930	6	CI	Safety and Reliability	90	> 2025
5476	Northern Operating Area	BELVIDERE	In Market from Water St. to Manunkachunk Rd.	$ 256,375	Replace	1532	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	30	> 2025
5477	Northern Operating Area	BELVIDERE	Paul St. from Wall St. to Market St.	$ 550,000	Replace	3086	8.00	Ductile Iron	1930	4	CI	Safety and Reliability	90	> 2025
5479	Northern Operating Area	BELVIDERE	Fisk St- Wall Street to end	$ 62,500	Replace	322	6.00	Ductile Iron	1990	1	CU	Safety and Reliability	30	> 2025

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
559	Northern Operating Area	BERKELEY HEIGHTS	Plainfield Ave. from Valley to Horseshoe - Phase 2	$ 810,000	Replace	6438	12.00	Ductile Iron	1940	20	DI	Safety and Reliability	30	> 2025
560	Northern Operating Area	BERKELEY HEIGHTS	Plainfield Ave. from 400' north of Springfiled to Mountain Ave	$ 630,000	Replace	5460	12.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	20	> 2025
561	Northern Operating Area	BERKELEY HEIGHTS	Plainfield Ave from Valley to Horseshoe Phase 1	$ 900,000	Replace	2382	12.00	Ductile Iron	1940	20	DI	Safety and Reliability/Structural	90	> 2025
6169	Northern Operating Area	BERKELEY HEIGHTS	Rehab - Existing CI unlined mains in Berkley Heights and New Providence	$ 1,275,000	Rehab	51068	6.00	Cast Iron	2010	8	DI	Safety and Reliability/Structural	120	> 2025
6689	Northern Operating Area	BERKELEY HEIGHTS	Pine Grove Road from Synder Ave to the end	$ 281,000	Replace	1366	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	120	> 2025
6690	Northern Operating Area	BERKELEY HEIGHTS	Berkshire Dr From Mountain Ave to end cap	$ 465,000	Replace	1793	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	45	2025Q3
6691	Northern Operating Area	BERKELEY HEIGHTS	Roosevelt Ave from Plainfield Ave to existing end	$ 275,000	Replace	1171	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	> 2025
6692	Northern Operating Area	BERKELEY HEIGHTS	Woglum Place from Plainfield to End Cap	$ 49,875	Replace	325	6.00	Ductile Iron	1950	6	DI	Safety and Reliability/Structural	65	> 2025
6693	Northern Operating Area	BERKELEY HEIGHTS	Hamilton Ave from Park Ave to Princeton Ave	$ 171,500	Replace	968	6.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	35	> 2025
6694	Northern Operating Area	BERKELEY HEIGHTS	Dogwood Lane from Mountain Ave to Lenape Lane	$ 558,000	Replace	2519	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	15	> 2025
6695	Northern Operating Area	BERKELEY HEIGHTS	Lenape Lane from Dogwood Lan to Lorraine Dr	$ 400,000	Replace	1683	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
6696	Northern Operating Area	BERKELEY HEIGHTS	Kline Place from Rickler Place to Maple Ave	$ 132,000	Replace	740	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2024Q4
6697	Northern Operating Area	BERKELEY HEIGHTS	Baker Ave from Kline Place to Valve VBH-615 northwest of hydrant HBH-87	$ 83,000	Replace	431	8.00	Ductile Iron	1970	6	CI	System Flows and Pressure	30	> 2025
6698	Northern Operating Area	BERKELEY HEIGHTS	Hillside Ave from Timber Dr to Fern Pl	$ 449,000	Replace	2268	8.00	Ductile Iron	1960	6	CI	Water Quality	90	2023Q4
6699	Northern Operating Area	BERKELEY HEIGHTS	Holly Glen Lane N from Mountain Ave to Holly Glen Lane	$ 174,000	Replace	887	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	> 2025
6701	Northern Operating Area	BERKELEY HEIGHTS	Holly Glen Lane S from Holly Glen Lane to Pinnel Ct.	$ 282,000	Replace	1578	8.00	Ductile Iron	1950	6	CI	Water Quality	15	2024Q4
6702	Northern Operating Area	BERKELEY HEIGHTS	Cambridge Dr from Mountain Ave to Holly Glen Lane	$ 156,000	Replace	725	8.00	Ductile Iron	1950	8	CI	Water Quality	90	2025Q4
6703	Northern Operating Area	BERKELEY HEIGHTS	Deep Dale Dr from Mountain Ave to end cap	$ 198,625	Replace	1132	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	120	> 2025
6704	Northern Operating Area	BERKELEY HEIGHTS	Tanglewood Lane from Deep Dale Dr to end cap	$ 126,875	Replace	723	6.00	Ductile Iron	1950	6	CI	Water Quality	60	> 2025
6705	Northern Operating Area	BERKELEY HEIGHTS	Orchard Lane from Old Farm Rd to Emerson Lane	$ 351,000	Replace	1764	8.00	Ductile Iron	1950	6	CI	Water Quality	60	2024Q4
6708	Northern Operating Area	BERKELEY HEIGHTS	Forest Ave from Park Ave to Columbus Ave	$ 373,000	Replace	1879	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q2
6710	Northern Operating Area	BERKELEY HEIGHTS	Cornell Ave frpm Mountain Ave to Hillcrest Ave	$ 215,000	Replace	1010	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
6769	Northern Operating Area	BERKELEY HEIGHTS	BERKELEY HEIGHTS - Berkeley Av between Park and Columbia	$ 160,000	Replace	619	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	60	> 2025
6770	Northern Operating Area	BERKELEY HEIGHTS	BERKELEY HEIGHTS - Berkshire Drive from Mountain Ave to easement	$ 360,000	Replace	1793	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	> 2025
6771	Northern Operating Area	BERKELEY HEIGHTS	BERKELEY HEIGHTS - Mountain Ave from Diamond Hill Rd to Park Ave	$ 3,150,000	Replace	27251	12.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	7	2024Q4
6772	Northern Operating Area	BERKELEY HEIGHTS	BERKELEY HEIGHTS - Park Ave from Euclid to Mountain	$ 840,000	Replace	3970	8.00	Ductile Iron	1960	8	CI	Safety and Reliability	90	2025Q4
6773	Northern Operating Area	BERKELEY HEIGHTS	BERKELEY HEIGHTS - Park Av between Euclid and Plainfield	$ 560,000	Replace	3215	8.00	Ductile Iron	1920	6	CI	Safety and Reliability	90	2025Q4
10698	Northern Operating Area	BERKELEY HEIGHTS	Hamilton Ave from Franklin to Snyder	$ 125,000	Replace	403	8.00	Ductile Iron	1990	8	CI	Safety and Reliability	60	2022Q4
93	Northern Operating Area	BERNARDS TWP	Bernards - Martinsville Road from Alan to Valley	$ 300,000	Replace	1387	8.00	Ductile Iron	2000	8	CI	Safety and Reliability/Structural	60	2025Q3
555	Northern Operating Area	BERNARDS TWP	Bernards Twp - Haas Rd (between Stonehouse and Pond Hill)	$ 840,000	Replace	4171	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	120	> 2025
6182	Northern Operating Area	BERNARDS TWP	CREST DRIVE	$ 380,000	Replace	1139	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	30	2025Q4
6281	Northern Operating Area	BERNARDS TWP	Fieldstone Dr from Morristown Rd to Morristown Road	$ 673,000	Replace	3356	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
6282	Northern Operating Area	BERNARDS TWP	Addison Dr from Archgate Rd to Warrick Lane	$ 219,000	Replace	2032	8.00	Ductile Iron	1970	8	CI	Water Quality	30	2024Q4
6283	Northern Operating Area	BERNARDS TWP	Franklin Dr. from Parkview to end cap	$ 111,125	Replace	1003	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2025Q4
6284	Northern Operating Area	BERNARDS TWP	Thackeray Dr from Pond Hill Rd to Keats Rd	$ 253,000	Replace	1251	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	> 2025
6285	Northern Operating Area	BERNARDS TWP	Tuxford Terrace from Old Coach Rd to Victoria Drive	$ 577,000	Replace	2868	8.00	Ductile Iron	1960	8	CI	Water Quality	5	2024Q4
6286	Northern Operating Area	BERNARDS TWP	Canter Dr from Mt. Airy Road to Galloping Hill Road	$ 342,000	Replace	1676	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	30	> 2025
6287	Northern Operating Area	BERNARDS TWP	Battle Hill Rd from Queen Anne Dr to Fairview Dr	$ 170,000	Replace	841	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	> 2025
6288	Northern Operating Area	BERNARDS TWP	Gerald Ave from Woods End Dr to Sturo Place	$ 429,000	Replace	2075	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	90	> 2025
6289	Northern Operating Area	BERNARDS TWP	Woodstone Dr from Peachtree Rd to Cross Rd	$ 428,000	Replace	2140	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2025Q4
6290	Northern Operating Area	BERNARDS TWP	Rankin Ave from W. Henry Street to Cedar Street	$ 300,000	Replace	1467	8.00	Ductile Iron	1960	4	CI	Water Quality	15	2023Q4
6291	Northern Operating Area	BERNARDS TWP	Cedar Street from Rankin Ave to S. Finley Ave	$ 112,000	Replace	535	8.00	Ductile Iron	1960	4	CI	Water Quality	60	2025Q3
6293	Northern Operating Area	BERNARDS TWP	Allen St from Lee Place to N. Finley Ave	$ 186,000	Replace	1487	8.00	Ductile Iron	1990	4	CI	Water Quality	30	> 2025
6294	Northern Operating Area	BERNARDS TWP	W. Oak Street from N. Alward Ave to S. Finley Ave	$ 522,000	Replace	2442	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	30	2023Q4
6295	Northern Operating Area	BERNARDS TWP	Manchester Ave from Prospect Ave to S. Maple Ave	$ 420,000	Replace	2097	12.00	Ductile Iron	1970	8	CI	Safety and Reliability/Structural	90	> 2025
6649	Northern Operating Area	BERNARDS TWP	Lyons Place from Lyons Rd to Valve VBER-213B West of Hydrant HBER-730	$ 315,000	Replace	1290	8.00	Ductile Iron	1930	6	CI	Water Quality	25	> 2025
6651	Northern Operating Area	BERNARDS TWP	Victoria Dr from Kensington Rd to Palmerston Dr	$ 274,000	Replace	1372	8.00	Ductile Iron	1960	6	CI	Water Quality	60	> 2025
6652	Northern Operating Area	BERNARDS TWP	Granville Way from Kensington Rd to Palmerston Place	$ 227,000	Replace	1118	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	> 2025
6654	Northern Operating Area	BERNARDS TWP	Riverside Drive from Hilltop Rd to Lord Sterling Rd	$ 774,000	Replace	4815	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	30	2025Q4
6655	Northern Operating Area	BERNARDS TWP	Sherwood Dr from Lord Stirling Rd to end cal	$ 162,000	Replace	769	8.00	Ductile Iron	2000	8	CI	Safety and Reliability/Structural	60	2025Q4
6656	Northern Operating Area	BERNARDS TWP	Dury Lane from Sherwood Dr to Riverside Dr	$ 100,000	Replace	473	8.00	Ductile Iron	2000	8	CI	Safety and Reliability/Structural	60	> 2025

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6658	Northern Operating Area	BERNARDS TWP	Culberson Rd from Spencer Rd to the end cap west of S. Alward Ave	$ 295,000	Replace	1438	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2022Q4
6716	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Keats Rd between Pond Hill Rd and Haas Rd	$ 520,000	Replace	2443	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	90	> 2025
6774	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Dawn Dr between Lake & Autumn	$ 240,000	Replace	1235	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	120	> 2025
6776	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Allen Rd from Somerville Rd to north of the stream	$ 125,000	Rehab	613	12.00	Other	1980	12	DI	Safety and Reliability	90	> 2025
6777	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Fairview Drive South from Lexington to Trinity	$ 260,000	Replace	1282	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	30	> 2025
6778	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Fairview Drive South from Trinity to Wayne	$ 180,000	Replace	696	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	> 2025
6779	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Gerard Ave from Lyons Pl to Woods End Dr	$ 440,000	Replace	2075	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	25	> 2025
6780	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Glen Av and Stonybrook - Glen Av from Madisonville to Stonybrook and Stonybrook and Stonybrook from Glen to dead end	$ 200,000	Replace	995	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	30	> 2025
6781	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Juniper Way from South Maple to Manchester	$ 200,000	Replace	1056	8.00	Ductile Iron	1970	8	CI	Safety and Reliability	45	> 2025
6783	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Old Madisonville Rd from Madisonville to dead end	$ 122,500	Replace	716	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
6784	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Queen Anne Dr from Battle Hill to west of Fairview Dr South	$ 500,000	Replace	2426	8.00	Ductile Iron	1950	8	CI	Safety and Reliability	60	> 2025
6785	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Quincy Rd from Atlas Rd to Lyons Rd	$ 300,000	Replace	1388	8.00	Ductile Iron	1970	8	CI	Safety and Reliability/Structural	60	> 2025
6786	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - South Alward Ave from West Oak to Beech	$ 400,000	Replace	2007	8.00	Ductile Iron	1980	6	CI	Safety and Reliability	90	> 2025
6820	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Valley Rd from Martinsville Rd to Lyons / Church	$ 460,000	Replace	1989	8.00	Ductile Iron	2000	8	CI	Safety and Reliability/Structural	60	> 2025
6840	Northern Operating Area	BERNARDS TWP	BERNARDS TWP - Old Army Rd between Oak Ridge Rd and HBER-68 past Van Courtland Rd	$ 600,000	Replace	2945	8.00	Ductile Iron	1930	6	CI	Water Quality	90	2024Q4
10873	Northern Operating Area	BERNARDS TWP	Liberty Corner Rd between VBER-681 & 682	$ 200,000	Replace	200	12.00	Ductile Iron	1980	12	DI	Relocation/Opportunity	90	> 2025
6299	Northern Operating Area	BERNARDSVILLE	Old Fort Rd from Old Fort Rd to completing the loop	$ 384,125	Replace	2440	6.00	Ductile Iron	1940	6	AC	Safety and Reliability/Structural	45	> 2025
6300	Northern Operating Area	BERNARDSVILLE	Ambar Place from Mt. Airy Rd to Washington Ave	$ 613,000	Replace	2990	8.00	Ductile Iron	1950	8	CI	Water Quality	10	2025Q4
6301	Northern Operating Area	BERNARDSVILLE	Ann St from Pill Hill Rd to Dayton Crescent	$ 216,000	Replace	1050	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	> 2025
6302	Northern Operating Area	BERNARDSVILLE	Dayton Crescent from intersection with Ann Street to South Street	$ 142,000	Replace	893	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	60	> 2025
6303	Northern Operating Area	BERNARDSVILLE	South Street from Dayton Crecent to Mt. Airy Rd	$ 92,000	Replace	430	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	40	2025Q3
6306	Northern Operating Area	BERNARDSVILLE	Anderson Hill Rd from Olcott Ave to Mill Street	$ 145,000	Replace	787	12.00	Ductile Iron	1960	6	CI	System Flows and Pressure	20	> 2025
6839	Northern Operating Area	BERNARDSVILLE	BERNARDSVILLE - Old Army Rd from Anderson Rd to Mullens	$ 280,000	Replace	1279	8.00	Ductile Iron	1950	6	AC	Safety and Reliability	180	> 2025
6853	Northern Operating Area	BERNARDSVILLE	BERNARDSVILLE - Old Fort Rd from Seney Dr around the whole circle and out Olcott to Old Army Rd	$ 600,000	Replace	2917	8.00	Ductile Iron	1950	6	AC	Conservation	30	2024Q4
10847	Northern Operating Area	BERNARDSVILLE	Route 202 between Mt Airy Rd and Woodland and between fire house and boro hall	$ 540,000	Replace	1772	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	> 2025
69	Central Operating Area	BOUND BROOK BOROUGH	Bound Brook - Vosseller AveFrom Talmadge to Main st.small section of 4" pipe chokes flow to area.	$ 225,000	Replace	259	12.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	30	2025Q4
5791	Central Operating Area	BOUND BROOK BOROUGH	Vossseller Ave Main replacement	$ 200,000	Replace	1976	8.00	Ductile Iron	1950	6	CI	Water Quality	25	2025Q4
7298	Central Operating Area	BOUND BROOK BOROUGH	Daley Pl Main replacement	$ 75,000	Replace	412	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	2024Q4
10676	Central Operating Area	BOUND BROOK BOROUGH	Washington St Main replacment	$ 225,000	Replace	701	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	60	2022Q2
10682	Central Operating Area	BOUND BROOK BOROUGH	Crusader Way Main Replacement	$ 3,000,000	Replace	1649	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2022Q2
10683	Central Operating Area	BOUND BROOK BOROUGH	Carleton St. Main Replacement	$ 350,000	Replace	754	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2022Q4
10835	Central Operating Area	BOUND BROOK BOROUGH	Ross Lane Main replacement	$ 225,000	Replace	717	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2022Q4
10836	Central Operating Area	BOUND BROOK BOROUGH	Farm La Main replacement phase -2	$ 150,000	Replace	843	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2022Q4
10933	Central Operating Area	BOUND BROOK BOROUGH	Mountain Avenue Main Replacement	$ 1,500,000	Replace	9065	8.00	Ductile Iron	1970	16	DI	Safety and Reliability/Structural	120	2023Q2
469	Coastal Operating Area	BRICK TWP	Brick - Ocean Terr	$ 30,000	Replace	2063	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	90	> 2025
784	Coastal Operating Area	BRICK TWP	Brick Twp - Bowline Ave from Rt 35 N to Sunset Ln.	$ 21,600	Replace	131	6.00	Ductile Iron	1950	2	DI	Safety and Reliability/Structural	30	2023Q4
5792	Central Operating Area	BRIDGEWATER TWP	Vosseller Ave Main Replacement	$ 400,000	Replace	2112	8.00	Ductile Iron	1950	6	CI	Water Quality	18	> 2025
10616	Central Operating Area	BRIDGEWATER TWP	Croyden Rd. main replacement	$ 200,000	Replace	654	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2022Q2
10617	Central Operating Area	BRIDGEWATER TWP	North Bridge St Main Replacement	$ 1,200,000	Replace	3400	12.00	Ductile Iron	1960	8	DI	Safety and Reliability/Structural	90	2024Q4
10675	Central Operating Area	BRIDGEWATER TWP	Buxton Road Main Replacement	$ 800,000	Replace	2720	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2022Q4
10856	Central Operating Area	BRIDGEWATER TWP	Chimney Rock Rd Main Relocation/ Replacement	$ 600,000	Replace	1669	8.00	Ductile Iron	1960	10	CI	Crossing Risk Reduction	60	2022Q2
10889	Central Operating Area	BRIDGEWATER TWP	Cheshire Road Main Replacement	$ 250,000	Replace	717	8.00	Ductile Iron	1960	8	CI	Safety and Reliability	60	2023Q4
10895	Central Operating Area	BRIDGEWATER TWP	Thomas Street Main Replacement	$ 150,000	Replace	415	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	90	2024Q4
10898	Central Operating Area	BRIDGEWATER TWP	Riha Street Main Replacement	$ 300,000	Replace	1304	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	60	2024Q4
10899	Central Operating Area	BRIDGEWATER TWP	Field Street Main Replacement	$ 300,000	Replace	1154	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	60	2024Q4
10905	Central Operating Area	BRIDGEWATER TWP	Manville Boulevard Main Replacement	$ 250,000	Replace	997	8.00	Ductile Iron	1970	6	CI	Looping	120	2025Q4
10906	Central Operating Area	BRIDGEWATER TWP	Newberry Street Main Replacement	$ 300,000	Replace	932	8.00	Ductile Iron	1950	6	CI	Looping	60	2025Q4

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5318	Southern Operating Area	CAMDEN	Camden - North 37th Street - Westfield Avenue to Jersey Avenue	$ 228,000	Replace	1151	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	2	> 2025
5319	Southern Operating Area	CAMDEN	Camden - North 38th Street - Westfield Avenue to Jersey Avenue	$ 228,000	Replace	1048	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	30	> 2025
5320	Southern Operating Area	CAMDEN	Camden - Jersey Avenue - North 36th Street to North 38th Street	$ 90,000	Replace	477	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	30	> 2025
5480	Southern Operating Area	CAMDEN	Camden - North 20th Street - River Road to Harrison Avenue	$ 256,500	Replace	1309	8.00	Ductile Iron	1920	6	CI	Relocation/Opportunity	60	> 2025
5481	Southern Operating Area	CAMDEN	Camden - North 31st Street - Hayes Avenue to Harrison Avenue	$ 342,000	Replace	1908	8.00	Ductile Iron	1900	4	CI	Relocation/Opportunity	30	> 2025
5825	Southern Operating Area	CAMDEN	Camden - Harrison Avenue - North 28th Street to VCA-665	$ 138,700	Replace	816	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	60	2024Q4
5826	Southern Operating Area	CAMDEN	Camden - Wayne Avenue - North 27th Street to North 29th Street	$ 209,000	Replace	1056	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	5	> 2025
5827	Southern Operating Area	CAMDEN	Camden - Lincoln Avenue - North 27th Street to North 29th Street	$ 209,000	Replace	1000	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	20	> 2025
5829	Southern Operating Area	CAMDEN	Camden - Hayes Avenue - North 27th Street to North 29th Street	$ 209,000	Replace	1061	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2025Q4
5830	Southern Operating Area	CAMDEN	Camden - Garfield Avenue - North 27th Street to North 29th Street	$ 209,000	Replace	1051	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	60	2025Q4
5832	Southern Operating Area	CAMDEN	Camden - Sherman Avenue - North 27th Street to North 29th Street	$ 304,000	Replace	1033	8.00	Ductile Iron	2000	4	CI	Safety and Reliability/Structural	90	> 2025
5833	Southern Operating Area	CAMDEN	Camden - North 30th Street - River Avenue to Cleveland Avenue	$ 266,000	Replace	1375	8.00	Ductile Iron	1900	6	CI	System Flows and Pressure	30	> 2025
5838	Southern Operating Area	CAMDEN	Camden - Thompson Street - North 28th Street to North 30th Street	$ 172,900	Replace	885	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	60	> 2025
5839	Southern Operating Area	CAMDEN	Camden - North 29th Street - Pleasant Street to Mitchell Street	$ 128,250	Replace	631	8.00	Ductile Iron	1900	4	CI	Safety and Reliability/Structural	30	> 2025
5845	Southern Operating Area	CAMDEN	Camden - North 28th Street - Thompson Street to Cramer Street	$ 228,000	Replace	1069	8.00	Ductile Iron	1900	4	CI	Safety and Reliability/Structural	30	2024Q4
5847	Southern Operating Area	CAMDEN	Camden - Church Street - Westfield Avenue to Federal Street	$ 123,500	Replace	636	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2024Q4
5848	Southern Operating Area	CAMDEN	Camden - North 35th Street - Lemuel Avenue to Fairfax Drive	$ 247,000	Replace	1265	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	30	> 2025
5849	Southern Operating Area	CAMDEN	Camden - Pelham Place - North 32nd Street to North 34th Street	$ 114,000	Replace	596	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	30	> 2025
5850	Southern Operating Area	CAMDEN	Camden - South 35th Street - Federal Street to Highland Avenue	$ 190,000	Replace	1142	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	10	> 2025
5851	Southern Operating Area	CAMDEN	Camden - South 33rd Street - Federal Street to Highland Avenue	$ 307,800	Replace	1562	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	> 2025
5857	Southern Operating Area	CAMDEN	Camden - North 18th Street - Harrison Avenue to River Avenue	$ 251,750	Replace	974	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	> 2025
5858	Southern Operating Area	CAMDEN	Camden - Stewart Street - Howell Street to East State Street	$ 123,500	Replace	620	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	2024Q4
5860	Southern Operating Area	CAMDEN	Camden - River Avenue - North 27th Street to North 36th Street	$ 800,000	Replace	3457	12.00	Ductile Iron	1930	6	CI	System Flows and Pressure	10	> 2025
5861	Southern Operating Area	CAMDEN	Camden - North 29th Street - River Avenue to HCA-43	$ 484,500	Replace	2655	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	30	> 2025
5869	Southern Operating Area	CAMDEN	Camden - Wayne Avenue - East State Street to 18th Street	$ 152,000	Replace	742	8.00	Ductile Iron	1920	6	CI	Relocation/Opportunity	4	> 2025
5870	Southern Operating Area	CAMDEN	Camden - Buren Avenue -27th Street to dead end east of 29th Street	$ 237,500	Replace	1265	8.00	Ductile Iron	1930	4	CI	Relocation/Opportunity	22	> 2025
5871	Southern Operating Area	CAMDEN	Camden - North 27th Street - River Ave to 10" HDPE inside 12" CI at RR bridge south of Sherman Avenue	$ 340,000	Replace	1367	12.00	Ductile Iron	1900	12	CI	Relocation/Opportunity	60	> 2025
5872	Southern Operating Area	CAMDEN	Camden - North 27th Street - High Street to 10" HDPE inside 12" CI at RR bridge near Pleasant St	$ 240,000	Replace	1103	12.00	Ductile Iron	1900	12	CI	Relocation/Opportunity	30	> 2025
5873	Southern Operating Area	CAMDEN	Camden - N 28th Street - Arthur Avenue to Concord Avenue	$ 142,500	Replace	613	6.00	Ductile Iron	1900	4	CI	System Flows and Pressure	60	> 2025
5874	Southern Operating Area	CAMDEN	Camden - N 35th St - existing 8" DI north of Harrison Ave to dead end south of River Ave	$ 133,000	Replace	488	8.00	Ductile Iron	1900	6	CI	Relocation/Opportunity	30	> 2025
5875	Southern Operating Area	CAMDEN	Camden - Polk Ave - 27th St to 29th St	$ 209,000	Replace	963	8.00	Ductile Iron	1930	4	CI	Relocation/Opportunity	15	> 2025
5876	Southern Operating Area	CAMDEN	Camden - Tyler Ave - 27th St to 29th St	$ 209,000	Replace	934	8.00	Ductile Iron	1930	4	CI	Relocation/Opportunity	60	> 2025
5877	Southern Operating Area	CAMDEN	Camden - Marlton Ave - 12" in Federal St to 12" In Rosemont Ave	$ 720,000	Replace	3966	12.00	Ductile Iron	1920	8	CI	Relocation/Opportunity	90	2024Q4
5882	Southern Operating Area	CAMDEN	Camden - Beideman Ave - River Ave to Cleveland Ave and Cleveland Ave from Beideman Ave to N 32nd St	$ 294,500	Replace	1969	8.00	Ductile Iron	1900	12	CI	System Flows and Pressure	60	> 2025
5884	Southern Operating Area	CAMDEN	Camden - South 32nd Street - Fermont Ave to Highland Ave	$ 150,000	Replace	818	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	2024Q4
5885	Southern Operating Area	CAMDEN	Camden - South Dudley Street - Federal Street to Fremont Avenue	$ 285,000	Replace	1393	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	> 2025
5886	Southern Operating Area	CAMDEN	Camden - Morse Street - Baird Blvd to Rosemont Avenue	$ 323,000	Replace	1648	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	30	> 2025
5891	Southern Operating Area	CAMDEN	Camden - Remington Street - North 32nd Street to North 34th Street	$ 114,000	Replace	600	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	> 2025

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5892	Southern Operating Area	CAMDEN	Camden - Rowe Street - North 32nd Street to North 35th Street	$ 171,000	Replace	859	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	> 2025
5893	Southern Operating Area	CAMDEN	Camden - Mitchell Street - North 32nd Street to Norht 34th Street	$ 114,000	Replace	589	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	30	> 2025
9747	Southern Operating Area	CAMDEN	Fremont Ave, 32nd Street, 33rd Street	$ 640,000	Replace	3208	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	15	2024Q1
9748	Southern Operating Area	CAMDEN	35th Street - Federal Street to Highland Avenue	$ 230,000	Replace	1166	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	> 2025
11063	Southern Operating Area	CAMDEN	S 35th St - Federal St to Highland Ave	$ 240,000	Replace	1142	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	60	2024Q4
456	Southern Operating Area	CARNEYS POINT	Carneys Point- I-295 Jack and Bore at Georgetown Road	$ 800,000	Replace	331	12.00	Ductile Iron	1960	8	ST	Relocation/Opportunity	30	> 2025
5322	Southern Operating Area	CARNEYS POINT	Carneys Point -Johnson Street - North Broadway to Division Street	$ 122,000	Replace	525	8.00	Ductile Iron	1910	4	CI	Sustained Economic Growth	5	> 2025
10981	Southern Operating Area	CARNEYS POINT	Carneys Point- Springfield Avenue and Manor Avenue (hyd 273 to Golfwood)	$ 750,000	Replace	3013	8.00	Ductile Iron	1940	6	CI	Safety and Reliability	30	2025Q4
5692	Northern Operating Area	CHATHAM TWP	Maple Street from School Ave to end	$ 128,000	Replace	1541	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2024Q3
5695	Northern Operating Area	CHATHAM TWP	Clean and Line - Chtham Twsp Lafaette Section approx. 29500 Lf of CI mains	$ 4,867,500	Rehab	18141	6.00	Cast Iron	1940	2	CI	Water Quality	30	> 2025
6660	Northern Operating Area	CHATHAM TWP	Green Village Rd from Meyersville Rd to Shunpike Rd.	$ 1,382,000	Replace	7069	8.00	Ductile Iron	1930	8	CI	Water Quality	120	2024Q4
6666	Northern Operating Area	CHATHAM TWP	May Drive from Noe Avenue to Robert Dr	$ 493,000	Replace	2404	8.00	Ductile Iron	1950	8	CI	Water Quality	30	2024Q4
6667	Northern Operating Area	CHATHAM TWP	Huron Dr and Macevoy Ave from end cap to Van Houton Ave.	$ 765,000	Replace	3771	8.00	Ductile Iron	1960	8	CI	Water Quality	90	2024Q4
6669	Northern Operating Area	CHATHAM TWP	Van Houton Ave from end cap West of HCT- 216 to Macevoy Ave	$ 785,000	Replace	2895	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	90	> 2025
6670	Northern Operating Area	CHATHAM TWP	Woodlawn Dr from Cypress Rd to Long Hill Lane	$ 76,125	Replace	432	6.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2022Q4
6675	Northern Operating Area	CHATHAM TWP	Chestnut Rd from the end cap to Fairmount Avenue	$ 121,500	Replace	689	4.00	Ductile Iron	1940	2	CI	System Flows and Pressure	30	> 2025
6677	Northern Operating Area	CHATHAM TWP	Edgewood Rd from Shunpike Rd to end cap east of hydrant HCT-104	$ 220,000	Replace	1145	8.00	Ductile Iron	1930	8	CI	Safety and Reliability	30	> 2025
6678	Northern Operating Area	CHATHAM TWP	Fairfax Terrace from Edgewood Rd to Chatham Boro Fairfax Ter Interconnect #2	$ 172,000	Replace	776	8.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	60	2024Q4
6679	Northern Operating Area	CHATHAM TWP	Maple Ave from School Ave to Lafayette Ave	$ 375,000	Replace	1541	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q3
6680	Northern Operating Area	CHATHAM TWP	School Ave from Floral Street to Maple Street	$ 450,000	Replace	1802	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	> 2025
6681	Northern Operating Area	CHATHAM TWP	Noe Avenue from Southern Blvd to Watchung Ave	$ 736,875	Replace	3166	12.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	90	2023Q4
6682	Northern Operating Area	CHATHAM TWP	Overlook Rd from Fernadale Rd to Sandy Hill Rd	$ 199,000	Replace	1711	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	15	2024Q4
6683	Northern Operating Area	CHATHAM TWP	Warwick Rd from Ferndale Rd to Oak Hill Rd	$ 300,000	Replace	1237	8.00	Ductile Iron	1950	6	CI	Water Quality	60	2024Q4
6684	Northern Operating Area	CHATHAM TWP	Thornley Dr from Beech Ct to Glenmere Dr	$ 305,000	Replace	1543	8.00	Ductile Iron	1960	8	CI	Water Quality	60	> 2025
6715	Northern Operating Area	CHATHAM TWP	CHATHAM - Rolling Hill Rd between Southern and Dale	$ 760,000	Replace	2863	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	30	2025Q3
6721	Northern Operating Area	CHATHAM TWP	CHATHAM TWP - Jay Rd from Southern Blvd to the cul-de-sac	$ 297,500	Replace	1521	6.00	Ductile Iron	1940	6	CI	Safety and Reliability	60	2024Q4
6854	Northern Operating Area	CHATHAM TWP	CHATHAM - Ormont Rd from cul-de-sac east of Henry to dead end west of Mountainside	$ 600,000	Replace	2260	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	90	2025Q4
6857	Northern Operating Area	CHATHAM TWP	CHATHAM - River Rd from Southern to Passaic	$ 540,000	Replace	2566	8.00	Ductile Iron	2000	8	CI	Safety and Reliability	90	2023Q4
6861	Northern Operating Area	CHATHAM TWP	CHATHAM - River Rd from Passaic to 60' west of HCT-160 (2000' east of Fairmont)	$ 960,000	Replace	3805	8.00	Ductile Iron	1930	6	CI	Safety and Reliability	90	2023Q2
6885	Northern Operating Area	CHATHAM TWP	CHATHAM - Spring St from Lafayette to Dale	$ 280,000	Replace	1088	8.00	Ductile Iron	1930	6	CI	Safety and Reliability	60	2024Q4
327	Southern Operating Area	CHERRY HILL	Cherry Hill - West / East Miami Avenue - Berkshire Avenue to Edgemoor Road	$ 722,000	Replace	3483	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	5	> 2025
481	Southern Operating Area	CHERRY HILL	Cherry Hill - Guilford Road - Croyden Drive to South Cropwell Road	$ 475,000	Replace	2550	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	90	> 2025
484	Southern Operating Area	CHERRY HILL	Cherry Hill - Lisa Lane - Huntington Drive to Kings Point Road	$ 142,500	Replace	764	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2024Q4
5328	Southern Operating Area	CHERRY HILL	Cherry Hill - Mona Court - Off Charlann Circle	$ 57,000	Replace	320	4.00	Ductile Iron	1960	6	CI	System Flows and Pressure	2	> 2025
5859	Southern Operating Area	CHERRY HILL	Cherry Hill - Bedford Avenue; Martin Avenue; Hollis Avenue; Graham Avenue; Sherwood Avenue - Mercer Street to Haddonfield Road	$ 259,350	Replace	1678	4.00	Ductile Iron	1960	2	CI	System Flows and Pressure	30	2024Q4
6617	Southern Operating Area	CHERRY HILL	Cherry Hill - Junewood Drive - Country Club to Lavender Hill	$ 150,000	Replace	768	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	45	> 2025
6618	Southern Operating Area	CHERRY HILL	Cherry Hill - Queen Ann Road, Fireside Lane to Country Club Drive	$ 320,000	Replace	2161	8.00	Ductile Iron	1960	8	DI	Safety and Reliability	20	> 2025
9696	Southern Operating Area	CHERRY HILL	State Highway 70 - Brookmead Road to Ranaldo Terrace	$ 750,000	Replace	3124	12.00	Ductile Iron	1950	12	AC	Safety and Reliability/Structural	90	> 2025
9697	Southern Operating Area	CHERRY HILL	State Highway 70 - Grove Street to Maine Avenue	$ 1,950,000	Replace	7973	12.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	> 2025
9698	Southern Operating Area	CHERRY HILL	State Highway 70 - Wiedo Lane to Springdale Road	$ 165,000	Replace	930	8.00	Ductile Iron	1970	8	CI	Safety and Reliability/Structural	15	> 2025
10936	Southern Operating Area	CHERRY HILL	Cherry Hill- Russet Drive , Dewberry Lane, Viking Lane , Gatewood Rd and Queen Anne Road	$ 1,150,000	Replace	4603	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	120	2023Q4
10937	Southern Operating Area	CHERRY HILL	Cherry Hill- Barby Lane	$ 370,000	Replace	1453	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	60	2024Q4
10938	Southern Operating Area	CHERRY HILL	Wagon Lane - Knollwood Dr to Tarry Ln	$ 290,000	Replace	1403	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2024Q4
6280	Northern Operating Area	CHESTER BOROUGH	Route 206 well line replacement	$ 270,000	Replace	2039	8.00	Ductile Iron	1990	3	CI	Safety and Reliability	15	2024Q3
6337	Northern Operating Area	CHESTER BOROUGH	Clean & line CI mains in Chester Borough	$ 3,250,000	Rehab	5064	8.00	Ductile Iron	1990	6	CI	Water Quality	120	> 2025
496	Southern Operating Area	CINNAMINSON	Cinnaminson - Riverton Road and Chatham Court - Wayne Drive to Branch Pike	$ 465,000	Replace	2711	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	90	> 2025

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
10846	Southern Operating Area	CINNAMINSON	Pompeston Creek Bridge	$ 100,000	Replace	619	12.00	Ductile Iron	1960	12	CI	Relocation/Opportunity	60	2023Q4
11049	Southern Operating Area	CINNAMINSON	Broadwood Avenue - Purnell Ave to Villanger Ave	$ 200,000	Replace	983	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2024Q1
11061	Southern Operating Area	CINNAMINSON	Kathleen Ave - Columbia Ave to Highland Ave	$ 180,000	Replace	883	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	40	2024Q4
10691	Central Operating Area	CLARK TWP	Madison Hill Rd (Winthrop Rd to Doris Way)	$ 300,000	Replace	949	12.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	2024Q4
284	Central Operating Area	CRANFORD TWP	Cranford - Chestnut Street4" main - 300 ft	$ 54,000	Replace	311	6.00	Ductile Iron	1990	4	DI	System Flows and Pressure	30	> 2025
6686	Central Operating Area	CRANFORD TWP	Brookdale Pl. (Brookdale Rd. to Dead End)	$ 56,000	Replace	302	6.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2024Q4
6845	Central Operating Area	CRANFORD TWP	North Ave. (Gallows Hill Rd. to Carpenter Pl.)	$ 1,903,050	Rehab	8458	12.00	Cast Iron	1920	12	CI	System Flows and Pressure	120	> 2025
6955	Central Operating Area	CRANFORD TWP	Retford Ave. (Lexington to W. Lincoln)	$ 621,600	Replace	3123	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	30	> 2025
10669	Central Operating Area	CRANFORD TWP	Woodlawn Ave(S Union Ave to Dead End)	$ 145,000	Replace	540	8.00	Ductile Iron	1930	6	CI	Water Quality	60	2025Q4
10678	Central Operating Area	CRANFORD TWP	Hawthorne St(Mansion Ter to Dead End)	$ 310,000	Replace	1155	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
10679	Central Operating Area	CRANFORD TWP	Pine St (Mansion Ter to Dead End)	$ 300,000	Replace	973	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
582	Coastal Operating Area	DEAL	Deal- Phillips Ave, From Norwood to HOT-306	$ 250,000	Replace	730	12.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	> 2025
583	Coastal Operating Area	DEAL	Deal- Railrood Ave, from Phillips to Brighton	$ 140,000	Replace	304	12.00	Ductile Iron	1930	8	CI	Safety and Reliability/Structural	30	> 2025
5493	Coastal Operating Area	DEAL	Deal - Main Replacement Runyan ave Deal. From Norwood to end of street	$ 120,000	Replace	739	8.00	Ductile Iron	1940	6	CI	Water Quality	30	> 2025
11053	Coastal Operating Area	DEAL	Atlantic Ave to Lady Bess Drive Water Main Rehabilitation	$ 120,000	Rehab	344	6.00	Other	1950	6	AC	Safety and Reliability/Structural	30	2025Q4
6995	Central Operating Area	DUNELLEN BOROUGH	Fairview Ave. (Walnut to Center)	$ 322,200	Replace	1643	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	> 2025
6997	Central Operating Area	DUNELLEN BOROUGH	Madison Ave. (North to 1st)	$ 222,800	Replace	1070	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	> 2025
7000	Central Operating Area	DUNELLEN BOROUGH	N. Washington Ave. (North to 1st)	$ 219,000	Replace	1184	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	> 2025
5995	Southern Operating Area	EASTAMPTON TWP	Eastampton - Bedford Court - Nottingham Way to Dead End	$ 95,000	Replace	432	4.00	Ductile Iron	1970	2	PVC	System Flows and Pressure	60	> 2025
6001	Southern Operating Area	EASTAMPTON TWP	Eastampton - Suffolk Court - Nottingham Way to Dead End	$ 190,000	Replace	935	4.00	Ductile Iron	1970	3	PVC	System Flows and Pressure	5	> 2025
6003	Southern Operating Area	EASTAMPTON TWP	Eastampton - Stafford Court - Nottingham Way to Dead End	$ 66,500	Replace	359	4.00	Ductile Iron	1970	2	PVC	System Flows and Pressure	30	> 2025
6005	Southern Operating Area	EASTAMPTON TWP	Eastampton - Kinsley Court - Kingsely Road to Kinsley Road	$ 66,500	Replace	1296	4.00	Ductile Iron	1970	6	DI	System Flows and Pressure	30	> 2025
6006	Southern Operating Area	EASTAMPTON TWP	Eastampton - Berwick Court - Nottingham Way to Dead End	$ 95,000	Replace	460	4.00	Ductile Iron	1970	2	PVC	System Flows and Pressure	30	> 2025
5557	Coastal Operating Area	EATONTOWN	Eatontown - Locust Ave main replacement	$ 102,000	Replace	613	6.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
10999	Coastal Operating Area	EATONTOWN	Villa Place/Watson Place Main Replacement	$ 115,000	Replace	451	6.00	Ductile Iron	1920	2	CI	System Flows and Pressure	30	2025Q4
6619	Southern Operating Area	EDGEWATER PARK	Edgewater Park - Cherix Ave - Franklin Ave to Washington Ave	$ 190,000	Replace	990	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	60	> 2025
6941	Southern Operating Area	EGG HARBOR TWP	Longport-Somers Point Rd between Launch Ave and 800' east of Anchorage Dr	$ 800,000	Replace	3123	12.00	PVC	1970	10	DI	Safety and Reliability/Structural	90	> 2025
10928	Southern Operating Area	EGG HARBOR TWP	Black Horse Pike (W Plaza Place to Granada Ave)	$ 700,000	Replace	1881	8.00	Ductile Iron	1950	6	CI	Relocation/Opportunity	60	2023Q4
8097	Coastal Operating Area	FAIR HAVEN	Sycamore Ln. 6" CI	$ 80,000	Replace	400	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
5488	Central Operating Area	FANWOOD	Paterson Rd.(Terrill Rd to Martine Ave)	$ 840,000	Replace	3146	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2024Q4
7001	Central Operating Area	FANWOOD	Beech Ave. (LaGrande to South)	$ 399,200	Replace	703	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2024Q4
7003	Central Operating Area	FANWOOD	Burns Way (Helen to S. Martine)	$ 312,200	Replace	1425	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2024Q4
7004	Central Operating Area	FANWOOD	Forest Rd. (Midway to North)	$ 267,000	Replace	1253	8.00	Ductile Iron	1970	6	CI	System Flows and Pressure	60	2024Q4
7005	Central Operating Area	FANWOOD	Russell Rd. (Midway to North)	$ 400,400	Replace	1911	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2024Q4
7006	Central Operating Area	FANWOOD	Woodland Ave. (N. Martine to Dead end)	$ 422,400	Replace	1978	8.00	Ductile Iron	1970	6	CI	System Flows and Pressure	60	2024Q4
6214	Northern Operating Area	FAR HILLS	DOUGLAS RD	$ 900,000	Replace	4511	8.00	Ductile Iron	1970	4	CI	System Flows and Pressure	30	2024Q2
10845	Northern Operating Area	FAR HILLS	Route 202 from Raritan River North Branch to Sunny Branch Rd	$ 700,000	Replace	1449	16.00	Ductile Iron	1980	6	DI	System Flows and Pressure	60	> 2025
11	Central Operating Area	FRANKLIN TWP	Franklin - Nassau Streetfrom Griggs to Fort	$ 42,000	Replace	226	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	30	> 2025
12	Central Operating Area	FRANKLIN TWP	Franklin - Fort Streetfrom Cedar to Nassau	$ 112,500	Replace	746	8.00	Ductile Iron	1990	8	CI	Safety and Reliability/Structural	2	> 2025
307	Central Operating Area	GARWOOD BOROUGH	Garwood/Cranford Rehab - Ph3 25000 Lf of Distribution mains S of Unami Park	$ 1,875,000	Rehab	25000	6.00	Other				System Flows and Pressure	30	2024Q4
630	Central Operating Area	GARWOOD BOROUGH	Garwood/Cranford Rehab - Ph1a 6,330 LF of 16" main along Clifton & Sycamore Ave	$ 1,481,000	Rehab	6330	16.00	Other				System Flows and Pressure	30	2025Q4
6844	Central Operating Area	GARWOOD BOROUGH	North Ave. (4th Ave. to Gallows Hill Rd.)	$ 1,164,375	Rehab	5175	12.00	Cast Iron	1920	12	CI	System Flows and Pressure	14	> 2025
424	Southern Operating Area	HADDON HEIGHTS	Haddon Heights - East High Street, East Atlantic Avenue to White Horse Pike	$ 95,000	Replace	407	12.00	Ductile Iron	2010	8	DI	System Flows and Pressure	60	> 2025
5961	Southern Operating Area	HADDON HEIGHTS	Haddon Heights - East High Street - White Horse Pike to 4th Avenue	$ 163,400	Replace	430	8.00	Ductile Iron	1950	4	CI	System Flows and Pressure	30	> 2025
7217	Southern Operating Area	HADDON HEIGHTS	Haddon Heights - Green Street @ Atlantic Avenue (CR-729) - Railroad Crossing	$ 200,000	Replace	119	12.00	Ductile Iron	1900	6	CI	Safety and Reliability/Structural	30	> 2025
5930	Southern Operating Area	HADDON TWP	Haddon Township - Berwick AVenue - Black Horse Pike to Cold Spring	$ 266,000	Replace	1030	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	180	> 2025
5931	Southern Operating Area	HADDON TWP	Haddon Township - Lincoln Avenue - Black Horse Pike to Dead End	$ 336,300	Replace	1726	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	30	> 2025
5932	Southern Operating Area	HADDON TWP	Haddon Township - Delaware Avenue - Pershing Avenue to Marlborough Avenue	$ 285,000	Replace	1501	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	90	> 2025
5933	Southern Operating Area	HADDON TWP	Haddon Township - Marlborough Avenue - Black Horse Pike to Nicholson Road	$ 541,500	Replace	2883	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	30	2024Q4
5934	Southern Operating Area	HADDON TWP	Haddon Township - New York Avenue - Nicholson Road to VHT-13983	$ 79,800	Replace	383	8.00	Ductile Iron	1930	4	CI	System Flows and Pressure	3	> 2025
5935	Southern Operating Area	HADDON TWP	Haddon Township - Shelburne Avenue - Crescent Blvd to Dead End	$ 81,700	Replace	788	8.00	Ductile Iron	1990	2	PE	System Flows and Pressure	60	> 2025
9249	Southern Operating Area	HADDONFIELD	Haddonfield Cleaning and Lining - 2018	$ 2,200,000	Rehab	8500	8.00	Other	1900	10	CI	Safety and Reliability/Structural	90	> 2025
9699	Southern Operating Area	HADDONFIELD	Kings Highway - Park Drive (Cherry Hill) to Birchall Dr	$ 2,500,000	Replace	19003	16.00	Ductile Iron	1900	10	CI	System Flows and Pressure	120	> 2025

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
10840	Southern Operating Area	HADDONFIELD	Haddonfield- Homestead Avenue (Hinchmen to Barberry)	$ 500,000	Replace	634	8.00	Ductile Iron	1790	6	CI	Relocation/Opportunity	30	2022Q4
5519	Southern Operating Area	HAINESPORT TWP	Hainesport - Marne Highway - Washington Street to Broad Street and Broad St, Marne Hwy to Edwin St	$ 500,000	Replace	1003	12.00	Ductile Iron	1970	8	CI	System Flows and Pressure	60	> 2025
6981	Southern Operating Area	HAINESPORT TWP	Hainesport - North Cumberland Avenue - Marne Highway (CR-573) to Dead End	$ 247,000	Replace	1292	8.00	Ductile Iron	1950	6	AC	Water Quality	60	> 2025
6984	Southern Operating Area	HAINESPORT TWP	Hainesport - 2nd Street - North Hunterdon Avenue to Dead End	$ 171,000	Replace	882	8.00	Ductile Iron	1950	4	CI	Water Quality	60	> 2025
6985	Southern Operating Area	HAINESPORT TWP	Hainesport - 1st Street - North Hunterdon Ave to North Cumberland Ave	$ 95,000	Replace	501	8.00	Ductile Iron	1940	4	CI	Water Quality	60	> 2025
7011	Southern Operating Area	HAINESPORT TWP	Hainesport - Maple Avenue (CR-682) - Marne Highway to Hydrant HHAS-7	$ 81,320	Replace	1246	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	> 2025
10949	Southern Operating Area	HAINESPORT TWP	Albert St - Washington St to Broad St	$ 170,000	Replace	795	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2024Q4
6884	Northern Operating Area	HARDING TWP	HARDING - Spring Valley Rd from Douglas to Meyersville	$ 400,000	Replace	2104	8.00	Ductile Iron	1940	8	CI	Safety and Reliability	30	2025Q4
11055	Coastal Operating Area	HAZLET	Moak Drive to Webster Drive Water Main Rehabilitation	$ 100,000	Rehab	139	6.00	Other	1960	6	AC	Safety and Reliability/Structural	60	2025Q4
11060	Coastal Operating Area	HAZLET	13th Street to Munroe Avenue Main Rehabilitation	$ 100,000	Rehab	223	6.00	Other Plastic	1950	6	CI	Safety and Reliability/Structural	30	2025Q4
10957	Coastal Operating Area	HIGHLANDS	Shrewsbury Ave Main Replacement	$ 127,500	Replace	425	6.00	Ductile Iron	2000	4	CI	System Flows and Pressure	30	2025Q4
10958	Coastal Operating Area	HIGHLANDS	South Bay Ave Main Replacement	$ 160,000	Replace	527	6.00	Ductile Iron	2000	4	CI	System Flows and Pressure	60	2025Q4
10960	Coastal Operating Area	HIGHLANDS	Portland Road Main Replacement	$ 120,000	Replace	369	6.00	Ductile Iron	2000	4	CI	System Flows and Pressure	30	2025Q4
10962	Coastal Operating Area	HIGHLANDS	South Peak Street Main Replacement	$ 230,000	Replace	898	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	60	2025Q4
10964	Coastal Operating Area	HIGHLANDS	Highlands Ave Main Replacement	$ 107,500	Replace	516	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	60	2025Q4
10965	Coastal Operating Area	HIGHLANDS	Bay Street Main Replacement	$ 102,000	Replace	275	6.00	Ductile Iron	1940	4	CI	System Flows and Pressure	30	2025Q4
5623	Central Operating Area	HILLSBOROUGH TWP	Taylor Ave from Duke Pkwy to Johanson Ave	$ 515,000	Replace	3280	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	10	2025Q4
5624	Central Operating Area	HILLSBOROUGH TWP	Johanson Ave from Dukes Pkwy to Taylor Road	$ 715,000	Replace	3875	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	90	2025Q4
5672	Central Operating Area	HILLSBOROUGH TWP	Kimblerly Road from Dukes Pkway to Johanson Ave	$ 200,000	Replace	935	8.00	Ductile Iron	1960	4	AC	Safety and Reliability/Structural	30	2025Q4
5673	Central Operating Area	HILLSBOROUGH TWP	Hammler Road from Taylor Ave to Claudia Road	$ 320,000	Replace	764	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2025Q4
5678	Central Operating Area	HILLSBOROUGH TWP	Gail Road between Hammler Road and Johanson Ave	$ 120,000	Replace	594	8.00	Ductile Iron	1960	4	AC	Safety and Reliability/Structural	30	2025Q4
5679	Central Operating Area	HILLSBOROUGH TWP	Claudia Road between Taylor Ave and Johanson Ave	$ 160,000	Replace	444	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2025Q4
5680	Central Operating Area	HILLSBOROUGH TWP	Hawly Road between Taylor Ave and Johanson Ave	$ 140,000	Replace	682	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	45	2025Q4
5683	Central Operating Area	HILLSBOROUGH TWP	Cul-de-Sac near inter section of Taylor Ave and Johanson Ave	$ 50,000	Replace	226	8.00	Ductile Iron	1960	4	AC	Safety and Reliability/Structural	5	2025Q4
5686	Central Operating Area	HILLSBOROUGH TWP	Dukes Pkwy between Taylor Ave and Johanson Ave	$ 303,750	Replace	1350	12.00	Ductile Iron				Safety and Reliability	30	2025Q4
5687	Central Operating Area	HILLSBOROUGH TWP	Dukes Pkwy from Johanson Ave to Dead End	$ 155,000	Replace	771	8.00	Ductile Iron	1960	10	CI	Safety and Reliability	21	2025Q4
6505	Central Operating Area	HILLSIDE	Glenwood Ave from Eastern Pkwy to near hydrant HHSD-247	$ 122,000	Replace	600	16.00	Ductile Iron	1930	6	CI	Water Quality	30	> 2025
6510	Central Operating Area	HILLSIDE	Easement between Bunett St and Glenwood Ave	$ 40,000	Replace	107	12.00	Ductile Iron	1930	6	CI	Water Quality	30	2024Q4
6551	Central Operating Area	HILLSIDE	Bloy St from Rt 22 East to Liberty Avenue	$ 570,000	Replace	1946	12.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	> 2025
6552	Central Operating Area	HILLSIDE	Long Ave from Bloy St to Liberty Ave	$ 366,000	Replace	1776	12.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	> 2025
352	Southern Operating Area	HI-NELLA	HiNella - Pawnee Road - Minnetonka Road to Wykagyl Road	$ 95,000	Replace	488	8.00	Ductile Iron	1960	2	GALV	Safety and Reliability/Structural	35	> 2025
11025	Coastal Operating Area	HOLMDEL	Beers Street Rehabilitation	$ 225,000	Rehab	1160	12.00	Other Plastic	1960	12	AC	Safety and Reliability/Structural	60	2025Q4
11026	Coastal Operating Area	HOLMDEL	Route 34 Easement Rehab	$ 200,000	Rehab	667	8.00	Other	1960	8	CI	Safety and Reliability/Structural	60	2025Q4
11058	Coastal Operating Area	HOLMDEL	Takolusa Drive to Morse Way South Water Main Rehabilitation	$ 100,000	Rehab	265	8.00	Other	1980	8	AC	Safety and Reliability/Structural	30	2025Q4
11059	Coastal Operating Area	HOLMDEL	East Brook Drive to Overlook Drive Water Main Rehabilitation	$ 250,000	Rehab	770	12.00	Other	1970	12	AC	Safety and Reliability/Structural	25	2025Q4
11022	Coastal Operating Area	HOWELL TWP	Livingston Dr from VLV-2638 to Putnam Rd	$ 136,600	Replace	542	8.00	Ductile Iron	1970	6	AC	System Flows and Pressure	60	2023Q4
11046	Coastal Operating Area	HOWELL TWP	Oakwood Dr from Westwood Dr to Brookside Dr	$ 349,500	Replace	1387	8.00	Ductile Iron	1970	6	AC	Safety and Reliability	60	> 2025
11047	Coastal Operating Area	HOWELL TWP	Carol Ln from Redwood Rd to Woodside Dr	$ 601,500	Replace	2387	8.00	Ductile Iron	1970	6	CI	Safety and Reliability	90	> 2025
11048	Coastal Operating Area	HOWELL TWP	Howell Plaza Center (4074 US HWY 9) from Aldrich Rd to Hilltop Rd	$ 355,725	Replace	1581	8.00	Ductile Iron	1970	8	AC	Safety and Reliability	60	> 2025
6722	Northern Operating Area	IRVINGTON	IRVINGTON - Essex St between Maple & Chancellor	$ 150,000	Replace	743	8.00	Ductile Iron	1900	6	CI	Safety and Reliability	60	2022Q4
6724	Northern Operating Area	IRVINGTON	IRVINGTON - Clinton Ave between Union & Ball	$ 125,000	Replace	563	6.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q3
6880	Northern Operating Area	IRVINGTON	IRVINGTON - Howard St between May & Nye	$ 180,000	Replace	891	8.00	Ductile Iron	1960	6	CI	Safety and Reliability	60	2023Q4
6881	Northern Operating Area	IRVINGTON	IRVINGTON - Western Parkway from Woodlawn to Grove	$ 585,000	Replace	2497	12.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2023Q4
10697	Northern Operating Area	IRVINGTON	Hoffman Place	$ 300,000	Replace	596	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	> 2025
5724	Central Operating Area	JAMESBURG	Rhode Hill Rd. main replacement	$ 250,000	Replace	936	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2023Q4
6424	Central Operating Area	JAMESBURG	Forsgate Dr from Maple Dr to East Rail Road Ave	$ 630,000	Replace	2698	12.00	Ductile Iron	1960	8	AC	Safety and Reliability/Structural	15	2024Q4
6426	Central Operating Area	JAMESBURG	Half Acre Rd from Forsgate Dr to Fernwood Lane	$ 483,750	Replace	3009	12.00	Ductile Iron	1960	8	AC	Safety and Reliability/Structural	30	2024Q4
6427	Central Operating Area	JAMESBURG	Maple Dr from Half Acre Rd to Forsgate Dr	$ 235,000	Replace	1175	8.00	Ductile Iron				Safety and Reliability/Structural	30	2025Q1
6428	Central Operating Area	JAMESBURG	Birchwood Road from Maple Dr to dead end	$ 175,000	Replace	1037	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2023Q4
6429	Central Operating Area	JAMESBURG	Cedar Lane from Maple Dr to Birchwood Road	$ 80,000	Replace	373	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2025Q3
6430	Central Operating Area	JAMESBURG	Fernwood Lane from Half Acre Rd to Maple Drive	$ 160,000	Replace	800	8.00	Ductile Iron				Safety and Reliability/Structural	60	2025Q4

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
6432	Central Operating Area	JAMESBURG	Oakland Road from Half Acre Rd to Forsgate Drive	$ 300,000	Replace	1787	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2025Q4
6445	Central Operating Area	JAMESBURG	Woodland Road from Half Acre Road to Forsgate Drive	$ 335,000	Replace	544	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2024Q4
6468	Central Operating Area	JAMESBURG	Front Street in between Oakland Road and Gatzmer Ave	$ 190,000	Replace	950	8.00	Ductile Iron				Safety and Reliability/Structural	8	2024Q4
6469	Central Operating Area	JAMESBURG	Davison Ave from Hillside Ave to West Church Street	$ 310,000	Replace	381	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2024Q4
6470	Central Operating Area	JAMESBURG	West Church Street from Davison Ave to Gatzmer Ave	$ 65,000	Replace	277	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2022Q2
6471	Central Operating Area	JAMESBURG	Hillside Ave from Front Street to Divison Ave	$ 163,000	Replace	232	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	10	2023Q4
6472	Central Operating Area	JAMESBURG	Hillside Ave from Davison Ave to Gatzmer Ave	$ 150,000	Replace	790	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2022Q2
6474	Central Operating Area	JAMESBURG	Pergola Ave from Forge Street to dead end	$ 580,000	Replace	3211	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	90	> 2025
6475	Central Operating Area	JAMESBURG	Forge Street from Pergola Ave to dead end	$ 38,000	Replace	164	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2024Q4
6476	Central Operating Area	JAMESBURG	Walnut Street from Pergola Ave to dead end	$ 105,000	Replace	486	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	2024Q4
6477	Central Operating Area	JAMESBURG	Buckelew Ave from Valve # VJB-346 to dead end	$ 580,000	Replace	3452	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	45	2023Q4
6483	Central Operating Area	JAMESBURG	Little Brook Lane from Buckelew Ave to Grace Hill Road	$ 320,000	Replace	1631	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	12	2023Q4
6484	Central Operating Area	JAMESBURG	Grace Hill Road from Buckelew Ave to dead end	$ 175,000	Replace	823	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2023Q4
6485	Central Operating Area	JAMESBURG	Travis Ct from Little Brook Lane to dead end	$ 75,000	Replace	252	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	100	2023Q4
10896	Central Operating Area	JAMESBURG	Forsgate Drive Main Replacement Phase 1	$ 500,000	Replace	2313	8.00	Ductile Iron	1960	8	AC	Safety and Reliability	90	2023Q4
10897	Central Operating Area	JAMESBURG	Hillside Avenue Main Replacement PART 2	$ 300,000	Replace	790	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	60	2023Q4
10907	Central Operating Area	JAMESBURG	Mill Road Main Replacement	$ 250,000	Replace	860	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	60	2022Q2
5578	Central Operating Area	KENILWORTH	14th St. (Lafayette to Boulevard)	$ 545,000	Replace	3022	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	30	> 2025
6178	Coastal Operating Area	LAKEWOOD	12th Street from Monmouth Ave to Squankum Rd	$ 316,000	Replace	1594	8.00	Ductile Iron	1930	6	AC	Safety and Reliability/Structural	15	2024Q4
6179	Coastal Operating Area	LAKEWOOD	Cedar Bridge from Rt 88 to Dr. MLK Drive	$ 516,600	Replace	2583	12.00	Ductile Iron	1960	8	CI	Safety and Reliability	30	2025Q4
6297	Coastal Operating Area	LAKEWOOD	W County Line Rd from Clifton Ave to Laurelwood Ave	$ 1,067,150	Replace	3049	16.00	Ductile Iron	1930	8	CI	Sustained Economic Growth	90	2025Q4
6643	Coastal Operating Area	LAKEWOOD	Sunset Road - From Central to Plant	$ 620,000	Replace	3877	12.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	120	> 2025
6924	Coastal Operating Area	LAKEWOOD	Hope Chapel Road from W. County Line Road to 14th Street	$ 285,000	Replace	1913	12.00	Ductile Iron	1980	6	AC	System Flows and Pressure	60	2024Q4
7994	Coastal Operating Area	LAKEWOOD	Park Pl, 2"	$ 80,000	Replace	760	8.00	Ductile Iron	1980	2	CI	Safety and Reliability/Structural	60	2023Q2
8739	Coastal Operating Area	LAKEWOOD	Robin Dr, 6" AC	$ 283,500	Replace	1348	8.00	Ductile Iron	1980	8	AC	Safety and Reliability/Structural	60	2023Q4
10929	Coastal Operating Area	LAKEWOOD	E 4th St from Ridge 4th St to Manetta Ave	$ 507,375	Replace	1862	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2023Q2
10940	Coastal Operating Area	LAKEWOOD	Cottage Pl from Woehr St to E 4th St	$ 177,408	Replace	704	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	> 2025
10941	Coastal Operating Area	LAKEWOOD	Sampson Ave from Bergan Ave to E 4th St	$ 175,395	Replace	696	8.00	Ductile Iron	1980	6	CI	System Flows and Pressure	60	2023Q2
10942	Coastal Operating Area	LAKEWOOD	Negba St from E 4th St to Ridge Ave	$ 105,340	Replace	418	8.00	Ductile Iron	1950	6	DI	System Flows and Pressure	30	2023Q2
10943	Coastal Operating Area	LAKEWOOD	Stirling Ave from Linden Ave to Terminus	$ 96,265	Replace	382	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q2
10944	Coastal Operating Area	LAKEWOOD	Stirling Ave from Somerset Ave to N Oakland St	$ 93,745	Replace	372	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	30	2023Q2
10945	Coastal Operating Area	LAKEWOOD	Linden Ave from Ocean Ave to Somerset Ave	$ 338,690	Replace	1344	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	2023Q2
11027	Coastal Operating Area	LAKEWOOD	Glen Ave from Central Ave to Carlton Ave	$ 323,300	Replace	1283	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2022Q4
11028	Coastal Operating Area	LAKEWOOD	Glen Ave from Central Ave to Carlton Ave_AC Pipe	$ 298,600	Replace	1185	8.00	Ductile Iron	1970	6	AC	System Flows and Pressure	60	2022Q4
11029	Coastal Operating Area	LAKEWOOD	Lois Ln from Arlington Ave to MLK Dr	$ 151,650	Replace	674	8.00	Ductile Iron	1960	8	CI	System Flows and Pressure	60	2022Q4
11030	Coastal Operating Area	LAKEWOOD	Clover St from VLV-3266 to Laurel Ave	$ 71,820	Replace	285	8.00	Ductile Iron	1950	8	CI	Safety and Reliability	30	> 2025
11031	Coastal Operating Area	LAKEWOOD	East and West Caranetta Dr to Rudwin St	$ 210,170	Replace	834	8.00	Ductile Iron	1930	2	AC	System Flows and Pressure	60	> 2025
11032	Coastal Operating Area	LAKEWOOD	Rudwin St from Caranetta Dr to W Caranetta Dr	$ 106,600	Replace	423	8.00	Ductile Iron	1930	6	AC	System Flows and Pressure	30	> 2025
11033	Coastal Operating Area	LAKEWOOD	Gudz Rd from VLV-2392 to Miller Rd	$ 129,500	Replace	514	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	> 2025
11034	Coastal Operating Area	LAKEWOOD	Miller Rd from Gudz Rd to New Central Ave	$ 357,100	Replace	1417	8.00	Ductile Iron	1950	8	CI	Safety and Reliability	60	> 2025
11035	Coastal Operating Area	LAKEWOOD	Carasaljo Dr from Miller Dr to S Lake Dr	$ 593,200	Replace	2354	8.00	Ductile Iron	1950	8	CI	Safety and Reliability	90	> 2025
11036	Coastal Operating Area	LAKEWOOD	John ST from RT9 to MLK Dr	$ 335,700	Replace	1332	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2023Q2
11037	Coastal Operating Area	LAKEWOOD	Finchley Blvd from RT9 to Hearthstone Dr	$ 564,300	Replace	1881	12.00	Ductile Iron	1950	12	AC	Safety and Reliability	30	> 2025
11038	Coastal Operating Area	LAKEWOOD	Manor Dr from Chestnut St to Chestnut St	$ 592,700	Replace	2352	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	120	> 2025
11039	Coastal Operating Area	LAKEWOOD	Claire Dr from Hearthstone Dr to Terminus	$ 352,000	Replace	1397	8.00	Ductile Iron	1950	8	AC	Safety and Reliability	60	> 2025
11040	Coastal Operating Area	LAKEWOOD	Princewood Ave from cul-de-sacs	$ 438,700	Replace	1741	8.00	Ductile Iron	1950	6	AC	Safety and Reliability	90	> 2025
11041	Coastal Operating Area	LAKEWOOD	Clairmont Ct from Hearthstone Dr to Princewood Ave	$ 159,300	Replace	632	8.00	Ductile Iron	1950	8	AC	Safety and Reliability	60	> 2025
11042	Coastal Operating Area	LAKEWOOD	Jenna Ct from Hearthstone Dr to Princewood Ave	$ 170,600	Replace	677	8.00	Ductile Iron	1950	8	AC	System Flows and Pressure	60	> 2025
11043	Coastal Operating Area	LAKEWOOD	Lancewood Ct from Hearthstone Dr to Princewood Ave	$ 156,200	Replace	620	8.00	Ductile Iron	1950	8	AC	Safety and Reliability	60	> 2025
11044	Coastal Operating Area	LAKEWOOD	Evergreen Ave from Chestnut St to VLV-3112	$ 370,900	Replace	1472	8.00	Ductile Iron	1960	8	AC	Safety and Reliability	60	> 2025
11045	Coastal Operating Area	LAKEWOOD	Courtier St from RT9 to Terminus	$ 212,700	Replace	844	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	60	> 2025
5335	Southern Operating Area	LAUREL SPRINGS	Laurel Springs - Fairmount Avenue - Stone Road to North White Horse Pike (Existing 6" Ductile Iron Main)	$ 304,000	Replace	2173	8.00	Ductile Iron	1950	12	CI	Water Quality	90	> 2025
5946	Southern Operating Area	LAWNSIDE	Lawnside - Mott Street - North Warwick Road to Dead End	$ 161,500	Replace	799	8.00	Ductile Iron	1980	6	DI	System Flows and Pressure	10	> 2025
6645	Central Operating Area	LINDEN CITY	S. Wood Ave. (W. Stimpson to Cedar)	$ 90,000	Replace	435	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	30	> 2025
9158	Central Operating Area	LINDEN CITY	W. Henry St (between N Stiles St and N Wood Ave)	$ 696,600	Replace	3240	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	2025Q4
10689	Central Operating Area	LINDEN CITY	Hussa St(E Baltimore Ave to Sherman St)	$ 455,000	Replace	1505	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	> 2025
10690	Central Operating Area	LINDEN CITY	E Blancke St (E Baltimore Ave to Cranford Ave)	$ 330,000	Replace	1100	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	> 2025
10692	Central Operating Area	LINDEN CITY	Chandler Ave(St Georges Ave to E Elizabeth Ave)	$ 925,000	Replace	2648	12.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	> 2025

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10693	Central Operating Area	LINDEN CITY	Elmwood Ter (Wood Ave to N Stiles)	$ 1,050,000	Replace	4666	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	120	> 2025
10694	Central Operating Area	LINDEN CITY	Orchard Ter(Raritan Rd to St George Ave)	$ 130,000	Replace	5336	8.00	Ductile Iron	1990	12	CI	System Flows and Pressure	120	> 2025
10866	Central Operating Area	LINDEN CITY	W Price St	$ 665,000	Replace	1400	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	120	2022Q4
212	Southern Operating Area	LINWOOD	Shore Road Ph 9 - Between Ocean Heights Avenue & Garfield Avenue	$ 740,000	Replace	1961	16.00	Ductile Iron	1960	6	CI	System Flows and Pressure	30	2024Q4
213	Southern Operating Area	LINWOOD	Shore Road (LW PH 6) - Between Garfield Avenue & Iona Avenue	$ 243,450	Replace	499	16.00	Ductile Iron	1960	6	AC	System Flows and Pressure	30	2023Q4
214	Southern Operating Area	LINWOOD	Shore Road Ph VIII- Between Iona Avenue & E Patcong Avenue	$ 258,000	Replace	683	16.00	Ductile Iron	1960	6	AC	System Flows and Pressure	10	2023Q4
215	Southern Operating Area	LINWOOD	Shore Road between Patcong Ave and Greenwich Avenue	$ 892,500	Replace	2381	16.00	Ductile Iron	1960	6	CI	System Flows and Pressure	90	2023Q4
5600	Southern Operating Area	LINWOOD	Iona Avenue from Shore Road to VLW-530, Myrtle Ave from Shore Rd to Arbor Dr and Woode-lynne Blvd	$ 480,000	Replace	1920	8.00	Ductile Iron	1950	6	AC	Relocation/Opportunity	60	2025Q4
5607	Southern Operating Area	LINWOOD	Dawn Drive between Franklin and End of Road and Woode-lynne Blvd between Dawn Dr and Iona Avenue	$ 300,000	Replace	1195	8.00	Ductile Iron	1960	6	CI	Relocation/Opportunity	30	> 2025
6099	Southern Operating Area	LINWOOD	Haines Avenue between New Road and Shore Road	$ 586,750	Replace	2347	8.00	Ductile Iron	1910	6	AC	Safety and Reliability/Structural	90	> 2025
6460	Southern Operating Area	LINWOOD	Shore Road between Seaview Ave and Patcong Ave - Shore Rd Phase 7	$ 950,000	Replace	2973	16.00	Ductile Iron	1910	6	CI	Safety and Reliability/Structural	90	> 2025
6461	Southern Operating Area	LINWOOD	Patcong Avenue between Wabash Avenue and Shore Road	$ 220,000	Replace	898	16.00	Ductile Iron	1910	6	CI	Safety and Reliability/Structural	60	> 2025
6462	Southern Operating Area	LINWOOD	Hamilton Avenue (between New Rd and West Ave) West Avenue (between Joseph Ave and Patcong Ave)	$ 630,900	Replace	2103	16.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	30	> 2025
6538	Southern Operating Area	LINWOOD	Garfield Ave between Shore Road and Wabash Avenue	$ 175,000	Replace	903	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	60	2024Q4
6539	Southern Operating Area	LINWOOD	Greenwich Avenue between Shore Road and Wabash Avenue	$ 118,800	Replace	622	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	> 2025
6541	Southern Operating Area	LINWOOD	W. Seaview Avenue between Shore Road and Wabash Avenue	$ 108,750	Replace	435	8.00	Ductile Iron	1910	2	CI	Safety and Reliability/Structural	30	2023Q4
6543	Southern Operating Area	LINWOOD	E. Seaview Avenue between Shore Rd and Franklin Blvd	$ 122,500	Replace	716	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	120	> 2025
6544	Southern Operating Area	LINWOOD	Belhaven Ave between Shore Rd and Oak Ave	$ 125,000	Replace	578	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	30	> 2025
6545	Southern Operating Area	LINWOOD	W. Devonshire Ave between Shore Rd and Oak Avenue	$ 243,000	Replace	1235	12.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	> 2025
6546	Southern Operating Area	LINWOOD	US Route 9 from Central Ave to Monroe Ave, Cleaning & Lining	$ 800,000	Rehab	4672	12.00	Cast Iron	1960	12	CI	Water Quality	120	> 2025
6548	Southern Operating Area	LINWOOD	Barr Avenue between Maple Ave and Wabash Avenue & branch N. on Walbash	$ 410,500	Replace	1642	8.00	Ductile Iron	1910	6	AC	Safety and Reliability/Structural	60	> 2025
6549	Southern Operating Area	LINWOOD	Maple Avenue between US Rt 9 and Wilson Avenue	$ 152,000	Replace	790	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	120	2025Q4
6550	Southern Operating Area	LINWOOD	Davis Avenue between Maple Avenue and Shore Road	$ 412,000	Replace	2056	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	20	2025Q4
6561	Southern Operating Area	LINWOOD	W. Vernon Avenue between Leeds Ave and Warren Ave	$ 223,000	Replace	1110	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	> 2025
5548	Northern Operating Area	LITTLE FALLS	Main St replacement (west end)	$ 472,500	Replace	802	12.00	Ductile Iron	1940	6	CI	Safety and Reliability	5	2023Q4
5549	Northern Operating Area	LITTLE FALLS	Long Hill Rd	$ 1,417,500	Replace	1676	12.00	Ductile Iron	1960	8	AC	Safety and Reliability	60	> 2025
5552	Northern Operating Area	LITTLE FALLS	Main St center portion	$ 832,500	Replace	4365	12.00	Ductile Iron	1960	8	CI	Safety and Reliability	30	> 2025
6735	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Montclair Ave from RR crossing to Oak Dr Cedar Grove	$ 180,000	Replace	1172	8.00	Ductile Iron	1950	8	DI	Safety and Reliability/Structural	30	2023Q4
6739	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Notch Rd from rt 46 to Longhill Rd	$ 380,000	Replace	2167	8.00	Ductile Iron	1980	12	DI	Safety and Reliability/Structural	90	2024Q4
6743	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Notchcroft Rd from Overlook Ave to Long Hill Rd	$ 300,000	Replace	1650	8.00	Ductile Iron	1940	6	AC	Safety and Reliability/Structural	30	> 2025
6744	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Overlook Ave from Lower Notch Rd to Notch Rd	$ 460,000	Replace	2124	8.00	Ductile Iron	1940	6	AC	Safety and Reliability/Structural	90	> 2025
6745	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Villa Rd from Longhill Rd	$ 100,000	Replace	707	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
6746	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Walnut St between Union and Stevens Ave	$ 340,000	Replace	1889	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2024Q4
6747	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Wilmore Rd Between Prospect St and 1st ave	$ 560,000	Replace	2829	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	90	2023Q4
6836	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Woods Rd from Long Hill Rd to ROW	$ 280,000	Replace	1415	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2023Q4
6882	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Donato Drive - entire loop, plus Paul, Pine and Elm	$ 592,000	Replace	2819	8.00	Ductile Iron	1940	8	CI	Safety and Reliability	90	2024Q4
6883	Northern Operating Area	LITTLE FALLS	LITTLE FALLS - Loretta Dr from Bergen to town line	$ 90,000	Replace	431	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	> 2025
10714	Northern Operating Area	LITTLE FALLS	Ridge Ave	$ 600,000	Replace	2598	8.00	Ductile Iron	1920	4	CI	Safety and Reliability/Structural	90	2022Q4
250	Coastal Operating Area	LITTLE SILVER	Little Silver - Seven Bridges Road (from Little Silver Pt Rd to Holly Dr)	$ 180,000	Replace	1049	8.00	Ductile Iron	1920	6	CI	Relocation/Opportunity	60	2025Q4
5814	Coastal Operating Area	LITTLE SILVER	Winfield Dr Main Replacement	$ 154,500	Replace	1030	8.00	Ductile Iron	1920	2	CI	Safety and Reliability	60	> 2025
11011	Coastal Operating Area	LITTLE SILVER	Riverview Ave main replacement	$ 170,000	Replace	676	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
261	Coastal Operating Area	LONG BRANCH	Long Branch - Hoey Ave between Marshall and lennox	$ 22,500	Replace	221	8.00	PVC	1920	6	DI	Safety and Reliability/Structural	30	> 2025

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5722	Coastal Operating Area	LONG BRANCH	Long Branch - John Street from Hendrickson Ave to terminus	$ 145,000	Replace	395	6.00	Ductile Iron	1920	2	GALV	System Flows and Pressure	30	2025Q4
6244	Northern Operating Area	LONG HILL TWP	Hillside Drive from Long Hill Rd to Lacey Ave	$ 156,000	Replace	768	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2024Q4
6500	Northern Operating Area	LONG HILL TWP	Long Hill Rd from Merersvillle Rd to Hydrant HLH-84 east of Gillette Rd.	$ 949,500	Replace	4315	12.00	Ductile Iron	1950	6	CI	System Flows and Pressure	90	2023Q4
6504	Northern Operating Area	LONG HILL TWP	Meyersville Rd from New Vernon Rd / Gillette Ave to Crestwood Rd	$ 662,000	Replace	3333	8.00	Ductile Iron	1950	8	CI	Water Quality	30	2025Q4
6523	Northern Operating Area	LONG HILL TWP	Union Street from dead end to Warren Ave	$ 312,000	Replace	731	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	10	2023Q4
6529	Northern Operating Area	LONG HILL TWP	Mercer Street from Passaic Ave to end	$ 227,000	Replace	934	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
6533	Northern Operating Area	LONG HILL TWP	Railroad Ave from end to end	$ 174,125	Replace	995	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2025Q4
6535	Northern Operating Area	LONG HILL TWP	Chestnut Street from North Ave to Central Ave	$ 183,000	Replace	927	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	160	2024Q4
6536	Northern Operating Area	LONG HILL TWP	Central Ave from Long Hill Rd to Railroad Ave	$ 650,000	Replace	2616	8.00	Ductile Iron	1980	6	CI	System Flows and Pressure	30	> 2025
6723	Northern Operating Area	LONG HILL TWP	Maple Av from St Joseph to Delaware	$ 400,000	Replace	1769	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q4
6749	Northern Operating Area	LONG HILL TWP	LONG HILL - Elm St from Central Ave	$ 300,000	Replace	1484	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2023Q4
6750	Northern Operating Area	LONG HILL TWP	LONG HILL - Forest Dr from Lupine	$ 400,000	Replace	2043	8.00	Ductile Iron	1970	6	DI	Safety and Reliability/Structural	30	2025Q2
6751	Northern Operating Area	LONG HILL TWP	LONG HILL - King Drive from Norwood Drive	$ 190,000	Replace	903	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	> 2025
6752	Northern Operating Area	LONG HILL TWP	LONG HILL - Madison St Morristown Rd	$ 230,000	Replace	1121	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2024Q4
6754	Northern Operating Area	LONG HILL TWP	LONG HILL - Western Blvd from Valley to end	$ 300,000	Replace	1445	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	> 2025
6755	Northern Operating Area	LONG HILL TWP	LONG HILL - Winding Way from Chestnut St to High Street	$ 500,000	Replace	2447	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	90	> 2025
6878	Northern Operating Area	LONG HILL TWP	LONG HILL - Oaks Rd from Basking Ridge Rd to Cross Hill Rd	$ 210,000	Replace	1014	8.00	Ductile Iron	1940	6	CI	Safety and Reliability	60	> 2025
5510	Southern Operating Area	LUMBERTON TWP	Lumberton - Creek Road - Main Street to HULM-65	$ 20,000	Replace	545	6.00	Ductile Iron	1970	4	CI	System Flows and Pressure	30	> 2025
6013	Southern Operating Area	LUMBERTON TWP	Lumberton - Spout Spring Avenue - West South Avenue to Dead End	$ 190,000	Replace	968	8.00	Ductile Iron	1950	4	CI	System Flows and Pressure	30	> 2025
786	Coastal Operating Area	MANTOLOKING	Mantoloking - Old Bridge St from Bay Ave to terminus (bay).	$ 25,200	Replace	222	4.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2024Q4
6577	Central Operating Area	MANVILLE BOROUGH	Huff Ave @ Bridge St	$ 50,000	Replace	300	8.00	Ductile Iron				Safety and Reliability	30	2024Q4
10648	Central Operating Area	MANVILLE BOROUGH	South Main St 10" Replacement Phase -2	$ 350,000	Replace	525	12.00	Ductile Iron	1960	10	CI	Safety and Reliability/Structural	30	> 2025
10875	Central Operating Area	MANVILLE BOROUGH	North 15th Ave Main replacement	$ 250,000	Replace	743	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	60	2022Q2
10880	Central Operating Area	MANVILLE BOROUGH	North 16th Avenue Main Replacement	$ 300,000	Replace	1100	8.00	Ductile Iron	1960	6	AC	Water Quality	60	2023Q4
10881	Central Operating Area	MANVILLE BOROUGH	North 17th Avenue Main Replacement	$ 300,000	Replace	1100	8.00	Ductile Iron	1960	6	AC	Looping	60	2023Q4
10886	Central Operating Area	MANVILLE BOROUGH	North 18th Avenue Main Replacement	$ 300,000	Replace	1320	8.00	Ductile Iron	1960	6	AC	Looping	60	2023Q4
10888	Central Operating Area	MANVILLE BOROUGH	North 20th Avenue Main Replacement	$ 300,000	Replace	1363	8.00	Ductile Iron	1960	6	AC	Looping	60	2023Q4
10892	Central Operating Area	MANVILLE BOROUGH	North 21st Avenue Main Replacement	$ 100,000	Replace	276	8.00	Ductile Iron	1960	6	AC	Safety and Reliability	30	2024Q4
10904	Central Operating Area	MANVILLE BOROUGH	Kennedy Boulevard Main Replacement	$ 750,000	Replace	5428	12.00	Ductile Iron	1960	6	AC	Safety and Reliability	30	2022Q4
10925	Central Operating Area	MANVILLE BOROUGH	North Main Street Main Replacement - Dukes Pkwy E to Brooks Boulevard	$ 500,000	Replace	1708	12.00	Ductile Iron	2010	8	DI	Safety and Reliability	60	2022Q4
10926	Central Operating Area	MANVILLE BOROUGH	South Main Street Main Replacement - South Street to Camplain Road	$ 500,000	Replace	2579	12.00	Ductile Iron	2020	8	DI	Safety and Reliability/Structural	90	2022Q3
10927	Central Operating Area	MANVILLE BOROUGH	South Main Street Main Replacement - Camplain Road to Roosevelt Avenue	$ 500,000	Replace	2062	12.00	Ductile Iron	2010	8	DI	Safety and Reliability/Structural	90	2022Q3
5706	Northern Operating Area	MAPLEWOOD	Maplewood Ave - Baker St. to Beach Place	$ 500,000	Replace	1922	12.00	Ductile Iron	1960	8	CI	System Flows and Pressure	2	2022Q2
6787	Northern Operating Area	MAPLEWOOD	Wyoming Historic Disctrict rehabilitation of cast iron water mains	$ 4,500,000	Rehab	18718	6.00	Cast Iron	1900	16	CI	Water Quality	30	> 2025
10989	Coastal Operating Area	MATAWAN	Monmouth Ct main replacement	$ 100,000	Replace	393	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
6332	Northern Operating Area	MENDHAM BOROUGH	Bower Dr from Phoenix Dr. to Dean Rd	$ 166,400	Replace	833	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	2022Q4
6333	Northern Operating Area	MENDHAM BOROUGH	Rehab project- Horizon Dr and Glenbrook Rd	$ 990,000	Rehab	6913	8.00	Cast Iron	1980	8	CI	System Flows and Pressure	15	> 2025
6339	Northern Operating Area	MENDHAM BOROUGH	Talmage Rd from Hilltop Road to Corey Lane	$ 1,558,125	Replace	3970	12.00	Ductile Iron	1940	4	CI	System Flows and Pressure	90	> 2025
6341	Northern Operating Area	MENDHAM BOROUGH	Horseshoe Bend Rd from Bernardsville Rd to Corey Lane	$ 1,428,750	Replace	6283	12.00	Ductile Iron	1980	8	AC	System Flows and Pressure	20	2025Q3
6791	Northern Operating Area	MENDHAM BOROUGH	MENDHAM BOROUGH - Country Lane from Main St to Lake Dr	$ 330,000	Replace	1655	8.00	Ductile Iron	1980	8	AC	Safety and Reliability/Structural	30	> 2025
6792	Northern Operating Area	MENDHAM BOROUGH	MENDHAM BOROUGH - Hoffman Rd from Mountain Ave to Bowers	$ 160,000	Replace	766	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	2022Q4
6793	Northern Operating Area	MENDHAM BOROUGH	MENDHAM BOROUGH - Mansfield Rd from Maple Ave	$ 80,000	Replace	405	8.00	Ductile Iron	1990	8	CI	Safety and Reliability/Structural	60	> 2025
6830	Northern Operating Area	MENDHAM BOROUGH	MENDHAM Boro -Florie Farm Rd from Mountain Ave to Knollwood Trail	$ 562,500	Replace	2104	12.00	Ductile Iron	1960	12	DI	Safety and Reliability/Structural	30	2022Q4
10799	Northern Operating Area	MENDHAM BOROUGH	Prentice Lane	$ 375,000	Replace	1347	8.00	Ductile Iron	1980	6	CI	Water Quality	60	> 2025
10920	Northern Operating Area	MENDHAM BOROUGH	Area behind West Morris High School	$ 2,300,000	Rehab	7600	8.00	Other	1960	8	CI	Safety and Reliability	10	2023Q4
6794	Northern Operating Area	MENDHAM TWP	MENDHAM TWP - Hilltop Cir from Deer Run to Cherry Lane	$ 900,000	Replace	3962	8.00	Ductile Iron	2000	6	CI	Safety and Reliability/Structural	90	2025Q4
6795	Northern Operating Area	MENDHAM TWP	MENDHAM TWP - Knollwood Trail from Deer Run to Farm Rd	$ 860,000	Replace	4281	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	120	2025Q3
5257	Southern Operating Area	MIDDLE TWP	Eldredge Road from Steel Road to south end of Eldredge	$ 168,250	Replace	444	8.00	Ductile Iron	1940	6	AC	Safety and Reliability/Structural	14	> 2025
5608	Southern Operating Area	MIDDLE TWP	Mechanic Street from 8-inch DI to Dias Creek Road	$ 140,000	Replace	631	12.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	> 2025
5609	Southern Operating Area	MIDDLE TWP	Mechanic Street from the railroad tracks to North Boyd Street, Including railroad crossing	$ 648,000	Replace	904	12.00	Ductile Iron	1950	12	AC	System Flows and Pressure	90	2024Q4
5614	Southern Operating Area	MIDDLE TWP	Dias Creek Road from Mechanic Street to Hand Avenue	$ 124,000	Replace	592	12.00	Ductile Iron	1950	6	AC	System Flows and Pressure	60	> 2025
6132	Southern Operating Area	MIDDLE TWP	Atlantic Avenue between Boyd St and Route 9	$ 131,250	Replace	722	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2023Q4

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
6134	Southern Operating Area	MIDDLE TWP	Bennett Road between Route 9 and Bayberry Dr, Bore Under Parkway	$ 412,500	Replace	1650	8.00	Ductile Iron	1940	8	CI	System Flows and Pressure	30	> 2025
6135	Southern Operating Area	MIDDLE TWP	Boyd Street between Romney Place and Mechanic St	$ 232,500	Replace	923	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2024Q4
6136	Southern Operating Area	MIDDLE TWP	Boyd Street between Stites Ave and Pacific Ave	$ 688,000	Replace	2285	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	105	2023Q4
6138	Southern Operating Area	MIDDLE TWP	Douglass Rd between Bennett Rd and southern end of Douglass	$ 27,125	Replace	153	6.00	Ductile Iron	1940	6	AC	Safety and Reliability	30	> 2025
6139	Southern Operating Area	MIDDLE TWP	Poplar Street between Mechanic St and Church St	$ 94,500	Replace	538	8.00	Ductile Iron	1970	6	AC	System Flows and Pressure	30	> 2025
6142	Southern Operating Area	MIDDLE TWP	Eldredge Road between Steel Rd and End of Eldredge	$ 105,000	Replace	439	6.00	Ductile Iron	1940	6	AC	Safety and Reliability	30	> 2025
6143	Southern Operating Area	MIDDLE TWP	Fitch Road between Steel Rd and End of Fitch Rd	$ 122,500	Replace	679	8.00	Ductile Iron	1940	8	AC	System Flows and Pressure	60	> 2025
6144	Southern Operating Area	MIDDLE TWP	Steel Road between Hewitt Rd and End of Steel Rd	$ 36,750	Replace	208	8.00	Ductile Iron	2000	8	AC	Safety and Reliability	30	> 2025
6145	Southern Operating Area	MIDDLE TWP	Bennett Road (GSP and Hewitt Rd), Fitch Rd, Penkethman Way, Hewitt Rd, Bayberry Dr (Bennett and Steel)	$ 730,500	Replace	1888	8.00	Ductile Iron	1940	8	AC	Safety and Reliability/Structural	60	2025Q4
6147	Southern Operating Area	MIDDLE TWP	Meridian Ln between Orbit Dr and End of Meridian	$ 63,000	Replace	476	6.00	Ductile Iron	1990	6	AC	Safety and Reliability	30	> 2025
6152	Southern Operating Area	MIDDLE TWP	Orbit Lane between Route 9 and End of Orbit Ln loop	$ 229,250	Replace	2111	8.00	Ductile Iron	1990	6	AC	System Flows and Pressure	20	> 2025
6153	Southern Operating Area	MIDDLE TWP	Colonial Avenue between Route 9 and End of Colonial	$ 196,000	Replace	1062	8.00	Ductile Iron	1950	6	AC	System Flows and Pressure	60	> 2025
6155	Southern Operating Area	MIDDLE TWP	Stites Avenue between Boyd St and Main St	$ 166,250	Replace	665	8.00	Ductile Iron	1950	6	AC	System Flows and Pressure	30	2023Q4
6156	Southern Operating Area	MIDDLE TWP	Easy Street between Route 9 and End of Easy St	$ 120,750	Replace	689	8.00	Ductile Iron	1970	8	AC	Safety and Reliability	60	> 2025
10939	Southern Operating Area	MIDDLE TWP	Route 9 from Crest Haven Road to Easy Street	$ 710,500	Replace	2023	16.00	Ductile Iron	1970	12	AC	Safety and Reliability/Structural	90	> 2025
580	Coastal Operating Area	MIDDLETOWN	Middletown - Campbell Avenue Bridge over Creek	$ 30,000	Replace	759	8.00	HDPE	1960	8	AC	Safety and Reliability/Structural	60	> 2025
5799	Coastal Operating Area	MIDDLETOWN	Viola Ave Main Replacement	$ 60,000	Replace	393	8.00	Ductile Iron	1940	2	CI	Safety and Reliability	20	> 2025
5808	Coastal Operating Area	MIDDLETOWN	Appleton Ave Main Replacement	$ 150,000	Replace	1002	8.00	Ductile Iron	1930	2	CI	Safety and Reliability	60	> 2025
5900	Coastal Operating Area	MIDDLETOWN	Navesink River Road (west) Main Replacement	$ 600,000	Replace	2864	12.00	Ductile Iron	1950	12	CI	Safety and Reliability/Structural	30	> 2025
7040	Coastal Operating Area	MIDDLETOWN	Lexington Ct Main Replacement	$ 150,000	Replace	1031	8.00	PVC	1970	6	AC	Safety and Reliability/Structural	60	> 2025
7978	Coastal Operating Area	MIDDLETOWN	Carter Ave. 6" CI BTWN Thompson Ave. & S. End Ave.	$ 128,000	Replace	640	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	> 2025
7979	Coastal Operating Area	MIDDLETOWN	S End Ave. 6" CI	$ 88,000	Replace	440	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	90	> 2025
10951	Coastal Operating Area	MIDDLETOWN	Bay Ave Main Replacement	$ 121,250	Replace	589	6.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	60	2025Q4
10952	Coastal Operating Area	MIDDLETOWN	Florence Ave 2" Main Replacement	$ 32,500	Replace	130	4.00	Ductile Iron	1930	2	CI	Safety and Reliability/Structural	30	2025Q4
10953	Coastal Operating Area	MIDDLETOWN	Dartmouth Ave Main Replacement	$ 105,000	Replace	420	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
10954	Coastal Operating Area	MIDDLETOWN	East Twin Road Main Replacement	$ 109,000	Replace	437	6.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	30	2025Q4
10955	Coastal Operating Area	MIDDLETOWN	Valley Road Main Replacement	$ 225,000	Replace	670	8.00	Ductile Iron	1960	4	CI	System Flows and Pressure	60	2025Q4
10956	Coastal Operating Area	MIDDLETOWN	Brighton Ave main replacement	$ 275,000	Replace	1003	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	60	2025Q4
10959	Coastal Operating Area	MIDDLETOWN	Andover St Main Replacement	$ 160,000	Replace	632	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
10961	Coastal Operating Area	MIDDLETOWN	Harvard St Main Replacement	$ 417,500	Replace	1642	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	8	2025Q4
10963	Coastal Operating Area	MIDDLETOWN	Jefferson St main replacement	$ 175,000	Replace	693	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
10966	Coastal Operating Area	MIDDLETOWN	Delware Ave Main Replacement	$ 100,000	Replace	397	6.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2025Q4
10967	Coastal Operating Area	MIDDLETOWN	Mohawk Ave Main Replacement	$ 130,000	Replace	510	6.00	Ductile Iron	1930	2	CI	System Flows and Pressure	60	2025Q4
10969	Coastal Operating Area	MIDDLETOWN	1st Ave Main Replacement	$ 75,000	Replace	466	6.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2025Q4
10970	Coastal Operating Area	MIDDLETOWN	Millers Crossing Main Replacement	$ 400,000	Replace	1600	6.00	Ductile Iron	1970	2	CI	System Flows and Pressure	15	2025Q4
10971	Coastal Operating Area	MIDDLETOWN	Brookside Road Main Replacement	$ 175,000	Replace	541	6.00	Ductile Iron	1970	2	CI	System Flows and Pressure	60	2025Q4
10972	Coastal Operating Area	MIDDLETOWN	Braeside Ave Main Replacement	$ 75,000	Replace	213	4.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2025Q4
10973	Coastal Operating Area	MIDDLETOWN	David Court Main Replacement	$ 83,000	Replace	330	4.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2025Q4
10974	Coastal Operating Area	MIDDLETOWN	Canterbury Court Main Replacement	$ 82,500	Replace	328	4.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2025Q4
10975	Coastal Operating Area	MIDDLETOWN	Grove Street Main Replacement	$ 123,000	Replace	485	6.00	Ductile Iron	1960	2	CI	System Flows and Pressure	30	2025Q4
10976	Coastal Operating Area	MIDDLETOWN	Willis Place Main Replacement	$ 60,000	Replace	192	4.00	Ductile Iron	1980	2	CI	System Flows and Pressure	30	2025Q4
10977	Coastal Operating Area	MIDDLETOWN	Patterson Ave Main Replacement	$ 125,000	Replace	411	4.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2025Q4
10978	Coastal Operating Area	MIDDLETOWN	Crescent Parkway/Mohawk Main Replacement	$ 462,500	Replace	1723	8.00	Ductile Iron	1950	4	CI	System Flows and Pressure	60	2025Q4
10979	Coastal Operating Area	MIDDLETOWN	East Roosevelt Circle Main Replacement	$ 37,500	Replace	145	4.00	Ductile Iron	1970	2	CI	System Flows and Pressure	30	2025Q4
10980	Coastal Operating Area	MIDDLETOWN	Walnut Ave/Pine Street Main Replacement	$ 300,000	Replace	1058	8.00	Ductile Iron	1950	2	CI	System Flows and Pressure	60	2025Q4
10986	Coastal Operating Area	MIDDLETOWN	Longwood Ave, Middletown NJ	$ 250,000	Replace	1008	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
10988	Coastal Operating Area	MIDDLETOWN	Minton Court Main Replacement	$ 100,000	Replace	364	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
10991	Coastal Operating Area	MIDDLETOWN	Corn Lane main replacement	$ 130,000	Replace	514	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
11003	Coastal Operating Area	MIDDLETOWN	Gayboy CT main replacement	$ 106,000	Replace	422	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	2025Q4
11005	Coastal Operating Area	MIDDLETOWN	Azilea Ct Main replacement	$ 80,000	Replace	315	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2025Q4
11006	Coastal Operating Area	MIDDLETOWN	Broadway Main Replacement	$ 90,000	Replace	335	6.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2025Q4
11007	Coastal Operating Area	MIDDLETOWN	Ridgewood Ave/Viola Ave Main Replacement	$ 150,000	Replace	592	8.00	Ductile Iron	1940	2	CI	System Flows and Pressure	60	2025Q4
11008	Coastal Operating Area	MIDDLETOWN	Thompson Ave Main Replacement	$ 60,000	Replace	208	8.00	Ductile Iron	1940	2	CI	System Flows and Pressure	30	2025Q4
11009	Coastal Operating Area	MIDDLETOWN	Dalby Pl main replacement	$ 85,000	Replace	340	6.00	Ductile Iron	1990	4	DI	Safety and Reliability/Structural	30	2025Q4
11010	Coastal Operating Area	MIDDLETOWN	Dove Ct main replacement	$ 75,000	Replace	301	6.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
11052	Coastal Operating Area	MIDDLETOWN	Rutledge to Iler Water Main Rehabilitation	$ 12,000	Rehab	547	8.00	Other	1950	8	AC	Safety and Reliability/Structural	60	2025Q4
11054	Coastal Operating Area	MIDDLETOWN	Daniel Drive to Rosewood Terrace Water Main Rehabilitation	$ 100,000	Rehab	195	8.00	Other	1950	8	AC	Safety and Reliability/Structural	30	2025Q4
40	Northern Operating Area	MILLBURN	Millburn - Browning Rd. Tennyson to White Oak	$ 380,000	Replace	2569	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q4
6183	Northern Operating Area	MILLBURN	KNOLLWOOD FROM WELLS TO PARK	$ 100,000	Replace	1284	8.00	Ductile Iron	1990	3	CI	System Flows and Pressure	14	2024Q4
6208	Northern Operating Area	MILLBURN	FIELDING MILLBURN	$ 91,000	Replace	502	6.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	2025Q3
6790	Northern Operating Area	MILLBURN	Wyoming Historic District rehabilitation of unlined cast iron water mains	$ 4,500,000	Rehab	10181	6.00	Cast Iron	1940	6	CI	Water Quality	35	> 2025

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
6796	Northern Operating Area	MILLBURN	MILLBURN - East Pine Terr from Blatusrol Way to Campbell Rd	$ 180,000	Replace	901	8.00	Ductile Iron	1900	6	CI	Safety and Reliability/Structural	60	2023Q4
6797	Northern Operating Area	MILLBURN	MILLBURN - Highview Rd from Hartshorn Dr and Farbrook Dr	$ 220,000	Replace	1111	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	> 2025
6799	Northern Operating Area	MILLBURN	MILLBURN - Kean Rd from Winthrop Rd	$ 460,000	Replace	2281	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	90	2025Q4
6800	Northern Operating Area	MILLBURN	MILLBURN - Silver Spring Rd from South Orange Ave to Old Short Hills Rd	$ 1,200,000	Replace	6134	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2025Q3
6818	Northern Operating Area	MILLBURN	MILLBURN - White Oak Ridge Rd from Hobart Ave to the grade line	$ 460,000	Replace	2282	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	90	2024Q2
6831	Northern Operating Area	MILLBURN	MILLBURN - Hartshorn Dr from Highview Rd to Oakey Rd	$ 380,000	Replace	1902	12.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	60	2025Q4
6875	Northern Operating Area	MILLBURN	MILLBURN - Great Hills Rd from Old Short Hills to Wildwood	$ 280,000	Replace	1242	8.00	Ductile Iron	1930	6	CI	Safety and Reliability	30	2025Q3
6876	Northern Operating Area	MILLBURN	MILLBURN - Main St from Route 78 to Essex St	$ 680,000	Replace	3354	8.00	Ductile Iron	1910	4	CI	Relocation/Opportunity	90	2025Q3
6897	Northern Operating Area	MILLBURN	MILLBURN - Hobart from White Oak Ridge to Brantwood	$ 280,000	Replace	1215	8.00	Ductile Iron	1980	4	CI	Safety and Reliability	60	2025Q3
6898	Northern Operating Area	MILLBURN	MILLBURN - Hobart from South St to White Oak Ridge	$ 480,000	Replace	2287	8.00	Ductile Iron	1980	4	CI	Safety and Reliability/Structural	90	2024Q4
6899	Northern Operating Area	MILLBURN	MILLBURN - Hobart from Highland to Wyndham	$ 170,000	Replace	197	8.00	Ductile Iron	1920	8	CI	Safety and Reliability	30	> 2025
6900	Northern Operating Area	MILLBURN	MILLBURN - Hobart from Old Short Hills Rd to Whitney	$ 220,000	Replace	1027	8.00	Ductile Iron	1910	8	CI	Safety and Reliability	60	> 2025
7111	Northern Operating Area	MILLBURN	Canoe Brook Rd Main Replacement	$ 182,000	Replace	537	8.00	Ductile Iron	1920	2	CI	System Flows and Pressure	60	> 2025
10699	Northern Operating Area	MILLBURN	Wyoming Ave from Millburn Ave to Glen Ave	$ 1,000,000	Replace	735	12.00	HDPE	1890	10	CI	Crossing Risk Reduction	60	2023Q4
10924	Northern Operating Area	MILLBURN	Myrtle Ave	$ 900,000	Replace	2897	8.00	Ductile Iron	1920	6	CI	Relocation/Opportunity	90	2023Q4
5805	Coastal Operating Area	MONMOUTH BEACH	Riverdale Ave Main Replacement	$ 352,000	Replace	2773	12.00	Ductile Iron	1930	6	CI	Safety and Reliability	90	> 2025
11051	Coastal Operating Area	MONMOUTH BEACH	River Ave to Channel Drive Water Main Rehabilitation	$ 230,000	Rehab	760	6.00	Other	1940	6	CI	Safety and Reliability/Structural	60	2025Q4
5514	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly/Lumberton - Madison Avenue/Main Street - Washington Street to VLUM-585 (North of Ellis Avenue)	$ 1,000,000	Replace	753	12.00	Ductile Iron	1920	8	CI	System Flows and Pressure	60	> 2025
5516	Southern Operating Area	MOUNT HOLLY TWP	Mt. Holly - Jacksonville Rd - Stevens Dr to Broad St and Rancocas Valley Reg. H.S. driveway	$ 440,000	Replace	990	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	12	> 2025
5518	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Pine Street - Hearld Avenue to East South Avenue	$ 190,000	Replace	889	12.00	Ductile Iron	1920	8	CI	System Flows and Pressure	7	> 2025
5520	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly/Hainesport - Marne Highway / Washington Street - King Street to Deacon Road	$ 1,200,000	Replace	5436	16.00	Ductile Iron	1950	8	CI	System Flows and Pressure	30	> 2025
5545	Southern Operating Area	MOUNT HOLLY TWP	Mt. Holly / Hainesport - Clean and line (or replace in kind) CI mains on multiple streets	$ 975,000	Rehab	7245	8.00	Ductile Iron	1930	8	CI	Water Quality	2	> 2025
5840	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Green Street - Station to Hillside Rd via Green St, Mill St, and Buttonwood St	$ 860,000	Replace	4221	12.00	Ductile Iron	1840	12	CI	Safety and Reliability	120	2024Q4
5966	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Wesley Court - Hickory Street to Dead End	$ 57,000	Replace	721	4.00	Ductile Iron	1950	6	AC	System Flows and Pressure	60	> 2025
5967	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Windsor Place - Homestead Avenue to Dead End	$ 57,000	Replace	244	4.00	Ductile Iron	1950	4	AC	System Flows and Pressure	15	> 2025
5994	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Clover Street - Union Street to Garden Street	$ 171,000	Replace	819	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	5	2024Q3
6336	Southern Operating Area	MOUNT HOLLY TWP	Mt. Holly - Clean and line neighborhood north of Green St Station	$ 1,575,000	Rehab	10500	8.00	Other				Water Quality	120	> 2025
6989	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Somerset Avenue, Holeman Street, Calrton Avenue - Washington Street to Washington Street	$ 247,000	Rehab	1278	8.00	Ductile Iron	1900	6	CI	Water Quality	60	> 2025
6991	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Lippincott Lane and Eagle Avenue - Washington Street to Dead End	$ 294,500	Rehab	1501	8.00	Ductile Iron	1930	8	CI	Water Quality	60	> 2025
7203	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - North and South Martin Avenue - Levis Drive to Levis Drive	$ 425,600	Replace	2245	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	20	> 2025
7646	Southern Operating Area	MOUNT HOLLY TWP	Mount Holly - Smith Lane & Holly Lane - Burlington-Mt Holly Road to Woodpecker Lane	$ 1,600,000	Replace	8374	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	180	> 2025
8694	Southern Operating Area	MOUNT HOLLY TWP	Spout Spring Avenue, Bank Avenue, Greenwood Avenue, Lois Lane, Jefferson Avenue	$ 760,000	Replace	3687	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	90	> 2025
9677	Southern Operating Area	MOUNT HOLLY TWP	Walton Road	$ 165,000	Replace	725	12.00	Ductile Iron	1950	10	AC	Relocation/Opportunity	90	> 2025
9714	Southern Operating Area	MOUNT HOLLY TWP	Mill Street/Powell Road	$ 1,300,000	Replace	6062	12.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	120	> 2025
9741	Southern Operating Area	MOUNT HOLLY TWP	Garden Street and Branch Street	$ 650,000	Replace	3681	12.00	Ductile Iron	1920	4	AC	System Flows and Pressure	90	> 2025
5939	Southern Operating Area	MT EPHRAIM	Mount Ephraim - Cleveland Avenue - West Kings Highway to Dead End	$ 218,500	Replace	1071	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	60	> 2025
5940	Southern Operating Area	MT EPHRAIM	Mount Ephraim - Jefferson Avenue - West Kings Highway to Dead End	$ 228,000	Replace	1161	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	15	> 2025
5941	Southern Operating Area	MT EPHRAIM	Mount Ephraim - Hill Avenue - East Kings highway to VME-43	$ 121,600	Replace	634	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	60	> 2025
5942	Southern Operating Area	MT EPHRAIM	Mount Ephraim - Lambert Avenue and Park Circle Drive - Station Avenue to VME-378	$ 389,500	Replace	1984	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	7	> 2025
5943	Southern Operating Area	MT EPHRAIM	Mount Ephraim - Rudderow Avenue - Bell Road to Dead End	$ 114,000	Replace	579	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	30	> 2025
6041	Coastal Operating Area	NEPTUNE	Couse Rd.	$ 236,000	Replace	1476	8.00	Ductile Iron	1940	2	CI	Safety and Reliability	60	2025Q4
10983	Coastal Operating Area	NEPTUNE	Pinewood Drive Main Replacement	$ 210,000	Replace	663	8.00	Ductile Iron	1960	2	CI	System Flows and Pressure	60	2025Q4
10984	Coastal Operating Area	NEPTUNE	Pittenger Main Replacement	$ 540,000	Replace	1713	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	60	2025Q4
10982	Coastal Operating Area	NEPTUNE CITY	Evergreen Ave 2" Galv	$ 50,000	Replace	194	6.00	Ductile Iron	1920	2	GALV	System Flows and Pressure	30	2025Q4

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556	Northern Operating Area	NEW PROVIDENCE	New Providence - Livingston Ave. from Central to South of Greenwood Rd	$ 440,000	Replace	1125	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	> 2025
6802	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Acorn Dr from Central Ave and Tall Oaks	$ 230,000	Replace	1156	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	> 2025
6804	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Central Ave from Maple to Brook Hollow	$ 440,000	Replace	1646	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	2025Q4
6805	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Gales Dr from South St to Springfield Ave	$ 400,000	Replace	2020	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2023Q4
6806	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Hawthorne Dr from Central Ave to Pearl St	$ 360,000	Replace	1763	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
6809	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Magnolia Dr from Springfield Ave to Valentine Rd	$ 250,000	Replace	1238	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	25	2023Q4
6813	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Pearl St from Central Ave to Fickler Pl	$ 300,000	Replace	2439	8.00	Ductile Iron	1990	6	CI	Safety and Reliability/Structural	90	2025Q3
6814	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Pine Ct from Pine Way	$ 100,000	Replace	464	8.00	Ductile Iron	1970	2	CI	Safety and Reliability/Structural	30	2025Q4
6815	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Pleasent View Ave from Livingston ave to Springfield Ave	$ 420,000	Replace	2079	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	30	2023Q4
6817	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - South St from Dian Ct to Springfield Ave	$ 740,000	Replace	3713	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2025Q3
6847	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - The Fellsway from Maple St to Forest Rd	$ 900,000	Replace	2947	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2023Q3
6848	Northern Operating Area	NEW PROVIDENCE	NEW PROVIDENCE - Walton Ave from Passaic St to Hedden Pl	$ 440,000	Replace	2188	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	90	2025Q3
10673	Northern Operating Area	NEW PROVIDENCE	Holmes Oval and Ridgeview Ave	$ 900,000	Replace	2378	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2023Q4
10858	Northern Operating Area	NEW PROVIDENCE	New Providence - Mountain Avenue from Division Avenue to Oakwood Drive	$ 909,750	Replace	3639	16.00	Ductile Iron	1990	6	CI	Safety and Reliability	90	2025Q4
10859	Northern Operating Area	NEW PROVIDENCE	New Providence - Oakwood Drive from hydrant HNP-59 to South street and from South Street to the intersection of Mountain Avenue and to hydrant HNP-30 in Mountain Avenue.	$ 938,500	Replace	3754	16.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2025Q4
10860	Northern Operating Area	NEW PROVIDENCE	New Providence - Mountain Avenue from hydrant HNP-30 to just west of Union Ave/Diamond Hill Rd	$ 1,125,000	Replace	4239	16.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2025Q4
10917	Northern Operating Area	NEW PROVIDENCE	Clinton Ave - all	$ 330,000	Replace	1121	8.00	Ductile Iron	1930	6	CI	Safety and Reliability	60	2023Q4
10918	Northern Operating Area	NEW PROVIDENCE	Fairmount Rd	$ 240,000	Replace	820	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q4
9518	Central Operating Area	NORTH PLAINFIELD BOROUGH	Belmont Ave/Leonard Pl	$ 274,125	Replace	1277	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	2025Q4
9519	Central Operating Area	NORTH PLAINFIELD BOROUGH	Willard Pl	$ 277,350	Replace	1154	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	60	> 2025
10666	Central Operating Area	NORTH PLAINFIELD BOROUGH	Replace 6-inch CI main with 12-inch DI main along Grove Street between Linden Ave and West Front and connect to 12-inch main on West Front Street.	$ 745,000	Replace	2129	12.00	Ductile Iron	1910	6	CI	Safety and Reliability	90	> 2025
10668	Central Operating Area	NORTH PLAINFIELD BOROUGH	Replace 6-inch CI main with 8-inch DI main along Craig Place between Grove Street and Somerset Street	$ 273,300	Replace	911	8.00	Ductile Iron	1910	6	CI	Safety and Reliability	60	> 2025
10778	Central Operating Area	NORTH PLAINFIELD BOROUGH	Beech Lane, N.Plainfield	$ 75,000	Replace	250	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	30	> 2025
10779	Central Operating Area	NORTH PLAINFIELD BOROUGH	Hidden Trail, N. Plainfield	$ 165,000	Replace	665	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	60	> 2025
206	Southern Operating Area	NORTHFIELD	Tilton Road - Between Mill Road and Wabash Avenue (Tilton Moratorium ends 2013)	$ 223,250	Replace	853	16.00	Ductile Iron	1960	2	CI	System Flows and Pressure	2	2024Q4
207	Southern Operating Area	NORTHFIELD	Tilton Road - Between Wabash Avenue & Zion Road (Tilton Moratorium ends 2013)	$ 66,000	Replace	180	16.00	Ductile Iron	2000	6	DI	System Flows and Pressure	30	2024Q4
5597	Southern Operating Area	NORTHFIELD	Cove Avenue from Shore Road to end of Cove Avenue	$ 160,000	Replace	635	6.00	Ductile Iron	1930	2	PE	Relocation/Opportunity	45	2023Q4
6101	Southern Operating Area	NORTHFIELD	Zion Road between New Road and Wabash Avenue	$ 810,875	Replace	2495	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2024Q4
6102	Southern Operating Area	NORTHFIELD	Northfield Avenue between Zion Road and Shore Road	$ 162,750	Replace	1051	8.00	Ductile Iron	1910	6	CI	Safety and Reliability/Structural	45	2024Q4
6562	Southern Operating Area	NORTHFIELD	W. Oakcrest Avenue between US Rt 9 and Shore Road	$ 420,000	Replace	2041	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	> 2025
6564	Southern Operating Area	NORTHFIELD	W. Glencove Avenue between US Rt 9 and Wabash Avenue	$ 313,000	Replace	1252	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2024Q4
6565	Southern Operating Area	NORTHFIELD	W. Yorkshire Avenue between Shore Road and Wabash Ave	$ 182,500	Replace	652	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
6566	Southern Operating Area	NORTHFIELD	Roosevelt Avenue between US Rt 9 and Tilton Road	$ 205,000	Replace	895	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	30	> 2025
6568	Southern Operating Area	NORTHFIELD	Lake Ave/Maple Ave between Evergreen Ave and Leo Fraser Dr	$ 240,000	Replace	1193	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	> 2025
6570	Southern Operating Area	NORTHFIELD	Chestnut Avenue between 2nd Ave and Maple Ave	$ 272,500	Replace	1091	8.00	Ductile Iron	1910	8	CI	Safety and Reliability/Structural	60	2024Q4
6571	Southern Operating Area	NORTHFIELD	Spruce Ave between US Rt 9 and Maple Ave	$ 180,000	Replace	599	8.00	Ductile Iron	2000	6	AC	Safety and Reliability/Structural	30	> 2025
6572	Southern Operating Area	NORTHFIELD	Willow Drive between Tilton Road and Zion Road	$ 230,450	Replace	838	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2024Q4
6573	Southern Operating Area	NORTHFIELD	Locust Drive between Tilton Road and Zion Road	$ 265,000	Replace	1060	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2024Q4
6574	Southern Operating Area	NORTHFIELD	Wabash Avenue between Tilton Road and Zion Road	$ 173,250	Replace	630	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2024Q4
6597	Southern Operating Area	NORTHFIELD	Northfield Ave between Zion Road and Tilton Road	$ 170,000	Replace	698	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2024Q4

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6906	Southern Operating Area	NORTHFIELD	US Route 9 between Oakcrest Ave and Cedar Bridge, Clean and Line	$ 650,000	Rehab	2921	12.00	Cast Iron	1960	12	CI	Water Quality	90	> 2025
6916	Southern Operating Area	NORTHFIELD	County Club Drive, Circle Dr & Heather Dr Main Replacements	$ 362,500	Replace	1800	8.00	Ductile Iron	1950	2	CI	System Flows and Pressure	60	2025Q4
6917	Southern Operating Area	NORTHFIELD	Bonnie Lee Dr between County Club Dr and Heather Dr	$ 431,000	Replace	1724	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	2025Q4
5348	Southern Operating Area	OAKLYN	Oaklyn - Manor Avenue - West Clinton Avenue to Dead End and Goff Avenue	$ 399,000	Replace	2200	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	> 2025
5730	Southern Operating Area	OAKLYN	Oaklyn - Oaklawn Avenue - Laurie Lane to East Clinton Avenue	$ 228,000	Replace	752	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	> 2025
5919	Southern Operating Area	OAKLYN	Oaklyn - Capital Avenue - North White Horse Pike to Newton Avenue	$ 95,000	Replace	476	8.00	Ductile Iron	1900	4	CI	Safety and Reliability/Structural	30	> 2025
264	Coastal Operating Area	OCEAN	Ocean - Laurel Avenue (from ___ to ____)	$ 60,000	Replace	419	8.00	Ductile Iron	1920	2	CI	System Flows and Pressure	30	> 2025
564	Coastal Operating Area	OCEAN	Ocean - Kenneth from Poplar to terminus	$ 270,000	Replace	1828	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	30	> 2025
565	Coastal Operating Area	OCEAN	Ocean - Maple Street Parker to Sherman	$ 112,500	Replace	431	8.00	Ductile Iron	1940	2	GALV	Safety and Reliability/Structural	10	> 2025
567	Coastal Operating Area	OCEAN	Ocean - Golf Road from Sherman to Runyon	$ 150,000	Replace	898	8.00	Ductile Iron	1920	4	GALV	Safety and Reliability/Structural	60	> 2025
5254	Coastal Operating Area	OCEAN	Ocean - Grant Ave	$ 70,000	Replace	1664	6.00	Ductile Iron	1960	6	CI	Water Quality	30	2025Q4
6004	Coastal Operating Area	OCEAN	Roosevelt Avenue from Highwood Road to Monmouth Road	$ 360,000	Replace	1759	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	45	> 2025
6014	Coastal Operating Area	OCEAN	Freehold Street from Highwood Road to Whalepond Road	$ 270,000	Replace	2091	8.00	Ductile Iron	1920	6	AC	Safety and Reliability/Structural	30	> 2025
6038	Coastal Operating Area	OCEAN	Delaware Avenue from valve VOT-2402 to valve VOT-1824	$ 362,250	Replace	1945	8.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	> 2025
6048	Coastal Operating Area	OCEAN	Belmar Avenue from W lincoln Avenue to Elizabeth Street	$ 355,250	Replace	1755	6.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	30	> 2025
6068	Coastal Operating Area	OCEAN	Ampere Avenue from W Lincoln Avenue to Freehold Street	$ 253,750	Replace	1164	6.00	Ductile Iron	1940	2	CI	Safety and Reliability	60	> 2025
6074	Coastal Operating Area	OCEAN	Harrison Street from Freehold Street to Elizabeth Street	$ 149,800	Replace	780	6.00	Ductile Iron	1940	2	CI	Safety and Reliability	12	> 2025
6078	Coastal Operating Area	OCEAN	Garwood Avenue from Belmar Avenue to Delaware Avenue	$ 88,375	Replace	253	6.00	Ductile Iron	1920	2	CI	Safety and Reliability	30	> 2025
6092	Coastal Operating Area	OCEAN	Elizabeth Street from Chatham Avenue to Delaware Avenue	$ 41,125	Replace	232	6.00	Ductile Iron	1920	2	CI	Safety and Reliability	30	> 2025
6096	Coastal Operating Area	OCEAN	Orange Street, W Lincoln Avenue & Arlington Street from Orange Avenue to Dover Avenue	$ 183,750	Replace	410	6.00	Ductile Iron	1960	2	CI	Safety and Reliability	60	> 2025
6128	Coastal Operating Area	OCEAN	Berger Avenue from Norwood Road to VOT-1451 & from VOT-1482 to Michael Street	$ 153,125	Replace	1158	6.00	Ductile Iron	1950	2	GALV	Safety and Reliability	25	> 2025
6163	Coastal Operating Area	OCEAN	Maple Avenue from Sherman Avenue to Parker Avenue	$ 112,000	Replace	431	6.00	Ductile Iron	1940	2	GALV	Safety and Reliability	8	> 2025
6172	Coastal Operating Area	OCEAN	Wallace Ave from end of exist 6" to W Park Ave	$ 122,500	Replace	703	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	5	> 2025
6323	Coastal Operating Area	OCEAN	Monmouth Road from Roseld Avenue to Roosevelt Avenue	$ 1,045,000	Replace	5144	16.00	Ductile Iron	1920	12	AC	System Flows and Pressure	21	> 2025
8371	Coastal Operating Area	OCEAN	Griffin Pl. 6" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	> 2025
8386	Coastal Operating Area	OCEAN	Garven Ave. 6" CI	$ 300,000	Replace	1500	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	> 2025
8387	Coastal Operating Area	OCEAN	Unami Ave. 6" CI	$ 280,000	Replace	1400	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	> 2025
8388	Coastal Operating Area	OCEAN	Woodlock Ave. 6" CI	$ 200,000	Replace	1000	8.00	Ductile Iron	1900	6	CI	Safety and Reliability/Structural	60	> 2025
8389	Coastal Operating Area	OCEAN	Camp Ave. 6" CI	$ 120,000	Replace	600	8.00	Ductile Iron	1900	6	CI	Safety and Reliability/Structural	60	> 2025
8392	Coastal Operating Area	OCEAN	Wanamassa Point Rd. 6" CI	$ 140,000	Replace	700	8.00	Ductile Iron	1900	6	CI	Safety and Reliability/Structural	60	> 2025
8399	Coastal Operating Area	OCEAN	Sunset Ave. 6" CI & 8" CI	$ 1,500,000	Replace	6000	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	15	> 2025
10985	Coastal Operating Area	OCEAN	Laird Street Main Replacement	$ 90,000	Replace	339	6.00	Ductile Iron	1940	2	CI	System Flows and Pressure	30	2025Q4
10987	Coastal Operating Area	OCEAN	Ferris Court Main Replacement	$ 60,000	Replace	237	4.00	Ductile Iron	1960	2	CI	System Flows and Pressure	90	2025Q4
10990	Coastal Operating Area	OCEAN	Wilson Drive Main Replacement	$ 362,250	Replace	680	6.00	Ductile Iron	1920	2	CI	System Flows and Pressure	60	2025Q4
203	Southern Operating Area	OCEAN CITY	Simpson Avenue - Between 1st Street & 2nd Street. 1st Street - Between Simpson Ave. - Bay Ave. 2nd Street - Between Simpson Ave. - Bay Ave.	$ 250,000	Replace	1134	8.00	PVC	1910	4	CI	System Flows and Pressure	30	2025Q4
219	Southern Operating Area	OCEAN CITY	Stenton Place - Between Corinthian Avenue & Beach	$ 45,000	Replace	236	8.00	PVC	1910	2	GALV	System Flows and Pressure	30	2024Q4
234	Southern Operating Area	OCEAN CITY	Brighton Place - Between Corinthian Avenue & Boardwalk	$ 92,250	Replace	250	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	15	> 2025
5304	Southern Operating Area	OCEAN CITY	Alley between West Avenue & Asbury Avenue - 59th to 58th	$ 72,000	Replace	719	8.00	PVC	1950	2	GALV	Safety and Reliability/Structural	60	> 2025
5374	Southern Operating Area	OCEAN CITY	17th Street Loop	$ 523,750	Replace	2095	8.00	PVC	1950	6	AC	Relocation/Opportunity	30	> 2025
5378	Southern Operating Area	OCEAN CITY	Cresent Road West Inlet to Gardens Parkway	$ 272,250	Replace	1256	12.00	PVC	1930	12	CI	Relocation/Opportunity	60	> 2025
5379	Southern Operating Area	OCEAN CITY	West Inlet Road Surf Road to Cresent Road	$ 16,425	Replace	92	12.00	PVC	1930	12	CI	Relocation/Opportunity	60	> 2025
5380	Southern Operating Area	OCEAN CITY	Surf Road from Atlantic to Wesley	$ 300,150	Replace	1323	12.00	PVC	1930	6	CI	Relocation/Opportunity	75	2024Q4
5381	Southern Operating Area	OCEAN CITY	Landing Road from Cresent to Atlantic	$ 62,200	Replace	309	8.00	PVC	1930	6	CI	Relocation/Opportunity	30	> 2025
5382	Southern Operating Area	OCEAN CITY	Wesley Street 4th to First Street	$ 451,400	Replace	1640	8.00	PVC	1910	4	CI	Safety and Reliability/Structural	60	> 2025
5387	Southern Operating Area	OCEAN CITY	Central from 14th to 15th	$ 106,600	Replace	560	8.00	PVC	1910	4	CI	System Flows and Pressure	2	> 2025
5388	Southern Operating Area	OCEAN CITY	14th Street Asbury to Ocean	$ 307,200	Replace	1024	8.00	Ductile Iron	1910	4	CI	System Flows and Pressure	30	2023Q4
5389	Southern Operating Area	OCEAN CITY	15th Street (Bay to Pleasure)	$ 178,400	Replace	857	8.00	PVC	1940	6	GALV	Safety and Reliability/Structural	60	> 2025
5395	Southern Operating Area	OCEAN CITY	26th Street between Haven Avenue & West Avenue	$ 67,500	Replace	271	8.00	PVC	1950	8	AC	Relocation/Opportunity	30	> 2025
5398	Southern Operating Area	OCEAN CITY	25th Street from Haven Ave to Asbury Ave	$ 204,600	Replace	618	8.00	Ductile Iron	1910	6	AC	Safety and Reliability/Structural	30	2025Q4
5441	Southern Operating Area	OCEAN CITY	Asbury Avenue from 42nd Street to 39th Street	$ 381,375	Replace	1663	12.00	PVC	1930	12	AC	Relocation/Opportunity	60	> 2025

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5442	Southern Operating Area	OCEAN CITY	42nd Street from West Avenue to Central Avenue	$ 107,400	Replace	573	8.00	PVC	1950	8	AC	Relocation/Opportunity	60	> 2025
5443	Southern Operating Area	OCEAN CITY	41st Street from West Avenue to Asbury Avenue	$ 51,600	Replace	253	8.00	PVC	1950	8	AC	Relocation/Opportunity	15	> 2025
5445	Southern Operating Area	OCEAN CITY	40th Street from West Avenue to Asbury Avenue	$ 52,000	Replace	253	8.00	PVC	1950	6	AC	Relocation/Opportunity	3	> 2025
5447	Southern Operating Area	OCEAN CITY	39th Street from West Avenue to Central Avenue	$ 108,200	Replace	554	8.00	PVC	1950	8	AC	Relocation/Opportunity	30	> 2025
5448	Southern Operating Area	OCEAN CITY	Pelham Place from Atlantic Avenue to Wayne Avenue	$ 178,600	Replace	879	8.00	PVC	1910	4	CI	Relocation/Opportunity	15	> 2025
5451	Southern Operating Area	OCEAN CITY	Haven Avenue from 52nd Street to 48th Street	$ 513,750	Replace	2053	8.00	PVC	1980	8	DI	Relocation/Opportunity	60	> 2025
5546	Southern Operating Area	OCEAN CITY	Stenton Place from Corinthian Avenue to Boardwalk	$ 70,000	Replace	236	6.00	PVC	1910	2	GALV	Relocation/Opportunity	30	2024Q4
5652	Southern Operating Area	OCEAN CITY	51st Street between Central Avenue and Asbury Avenue	$ 72,500	Replace	281	8.00	Ductile Iron	1950	2	GALV	System Flows and Pressure	15	2022Q4
6093	Southern Operating Area	OCEAN CITY	Boardwalk between 9th Street and 10th Street	$ 250,000	Replace	341	8.00	PVC	1910	2	GALV	Safety and Reliability/Structural	30	> 2025
6245	Southern Operating Area	OCEAN CITY	Anchorage Dr replacement from 55th to 52nd	$ 510,000	Replace	1582	8.00	PVC	1970	8	AC	Safety and Reliability	60	2025Q4
6246	Southern Operating Area	OCEAN CITY	Wesley Ave replacement from 10th to 4th	$ 678,400	Replace	3504	8.00	PVC	1910	6	CI	Safety and Reliability	30	> 2025
6248	Southern Operating Area	OCEAN CITY	Central Ave replacement from 20th to 15th	$ 572,000	Replace	2786	8.00	PVC	1910	6	CI	Safety and Reliability	30	2024Q4
6250	Southern Operating Area	OCEAN CITY	Central Ave replacement from 24th to 20th	$ 558,250	Replace	2233	8.00	PVC	1940	6	CI	Safety and Reliability/Structural	15	> 2025
6252	Southern Operating Area	OCEAN CITY	Bay Ave replacement from 31st to 26th	$ 1,002,050	Replace	2863	12.00	Ductile Iron	1940	12	AC	Safety and Reliability/Structural	90	2025Q4
6254	Southern Operating Area	OCEAN CITY	Wesley Ave replacement from 4th to 1st	$ 342,000	Replace	1640	8.00	PVC	1910	4	CI	Safety and Reliability/Structural	5	> 2025
6255	Southern Operating Area	OCEAN CITY	Ocean Ave replacement from 4th to North	$ 455,000	Replace	2223	8.00	PVC	1910	6	CI	Safety and Reliability/Structural	90	> 2025
6256	Southern Operating Area	OCEAN CITY	Asbury Ave replacement from 51st to 48th	$ 870,000	Replace	2904	12.00	Ductile Iron	1950	2	GALV	Safety and Reliability/Structural	30	2025Q1
6257	Southern Operating Area	OCEAN CITY	Anchorage Dr replacement from 52nd to 55	$ 247,400	Replace	1582	8.00	PVC	1970	8	AC	Safety and Reliability/Structural	30	> 2025
6259	Southern Operating Area	OCEAN CITY	Central Ave replacement from 40th to 45th	$ 710,500	Replace	2842	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	> 2025
6260	Southern Operating Area	OCEAN CITY	Central Ave replacement from 45th to 55th	$ 1,133,400	Replace	5633	8.00	PVC	1950	6	CI	Safety and Reliability/Structural	120	> 2025
6261	Southern Operating Area	OCEAN CITY	Dory Dr replacement from 55th to 52nd	$ 325,000	Replace	1391	8.00	PVC	1970	8	AC	Safety and Reliability/Structural	30	2025Q4
6262	Southern Operating Area	OCEAN CITY	Haven Ave replacement from 56th to 52nd	$ 441,200	Replace	2231	8.00	PVC	1970	8	AC	Safety and Reliability/Structural	15	> 2025
6263	Southern Operating Area	OCEAN CITY	Simpson Ave replacement from 56th to 52nd	$ 444,200	Replace	2195	8.00	PVC	1970	8	AC	Safety and Reliability/Structural	90	> 2025
6264	Southern Operating Area	OCEAN CITY	Bay Ave replacement from 56th to 52nd	$ 417,250	Replace	1124	12.00	PVC	1970	12	AC	Safety and Reliability/Structural	30	2022Q4
6266	Southern Operating Area	OCEAN CITY	West Ave replacement from 52nd to 55th	$ 425,000	Replace	1684	8.00	PVC	1970	8	AC	Safety and Reliability/Structural	30	> 2025
6269	Southern Operating Area	OCEAN CITY	Waterway Rd replacement from Bayland to End (Bay)	$ 460,250	Replace	1841	8.00	PVC	1940	8	AC	Safety and Reliability/Structural	30	2022Q4
6278	Southern Operating Area	OCEAN CITY	4th St replacement from West Ave to Atlantic Ave	$ 397,500	Replace	1590	8.00	PVC	1910	4	ST	Safety and Reliability/Structural	5	> 2025
6369	Southern Operating Area	OCEAN CITY	23rd St replacement from Asbury Ave to Wesley Avenue	$ 142,500	Replace	570	8.00	PVC	1930	1	GALV	Safety and Reliability/Structural	30	> 2025
6370	Southern Operating Area	OCEAN CITY	Alley of Asbury and West replacement from 35th to 36th (Kill Main, Tie Customers to St)	$ 133,350	Replace	643	8.00	PVC	1950	1	CI	Safety and Reliability/Structural	10	> 2025
6371	Southern Operating Area	OCEAN CITY	27th St replacement from Central to Alley of Central and Wesley	$ 40,000	Replace	157	8.00	PVC	1930	1	GALV	Safety and Reliability/Structural	90	> 2025
6373	Southern Operating Area	OCEAN CITY	Alley of Asbury and West Replacement from 24th to 23rd (Kill Main, Tie Customers To St)	$ 107,400	Replace	547	8.00	PVC	1910	2	CI	Safety and Reliability/Structural	60	> 2025
6374	Southern Operating Area	OCEAN CITY	Alley of Haven and West replacement from 4th to 3rd	$ 124,950	Replace	452	8.00	PVC	1910	2	CI	Safety and Reliability/Structural	30	> 2025
6375	Southern Operating Area	OCEAN CITY	10th St replacement from end to Palen	$ 20,000	Replace	59	8.00	PVC	1910	2	GALV	Safety and Reliability/Structural	30	2024Q4
6378	Southern Operating Area	OCEAN CITY	Alley of Haven and West replacement from 7th to 8th (Kill Main, Tie Cusomers to St)	$ 112,350	Replace	409	8.00	PVC	1910	2	GALV	Safety and Reliability/Structural	30	> 2025
6381	Southern Operating Area	OCEAN CITY	25th St replacement from Wesley to Haven	$ 317,500	Replace	1263	8.00	PVC	1910	6	AC	Safety and Reliability/Structural	60	2024Q4
6382	Southern Operating Area	OCEAN CITY	44th St replacement from West to Central	$ 148,750	Replace	527	8.00	PVC	1950	8	AC	Safety and Reliability/Structural	30	2023Q1
6383	Southern Operating Area	OCEAN CITY	22nd St replacement from Asbury to Wesley	$ 98,700	Replace	445	8.00	PVC	1940	2	GALV	Safety and Reliability/Structural	30	> 2025
6386	Southern Operating Area	OCEAN CITY	31st St replacement from West to Central	$ 157,500	Replace	582	8.00	PVC	1950	6	AC	Safety and Reliability/Structural	60	> 2025
6387	Southern Operating Area	OCEAN CITY	Alley of Asbury and West replacement from 59th to 58th (Kill Main, Tie Customers to St)	$ 154,350	Replace	719	8.00	PVC	1950	2	GALV	Safety and Reliability/Structural	30	> 2025
6388	Southern Operating Area	OCEAN CITY	Saint Albans Pl replacement from Wesley to Boardwalk	$ 47,500	Replace	257	8.00	PVC	1960	2	CI	Safety and Reliability/Structural	30	> 2025
6389	Southern Operating Area	OCEAN CITY	14th St replacement from Asbury to Boardwalk	$ 245,700	Replace	1136	8.00	PVC	1910	4	CI	Safety and Reliability/Structural	30	> 2025
6392	Southern Operating Area	OCEAN CITY	5th St replacement from West to Ocean	$ 336,000	Replace	1255	8.00	PVC	1910	6	CI	Safety and Reliability/Structural	60	> 2025
6398	Southern Operating Area	OCEAN CITY	West Ave replacement from 7th to 3rd	$ 545,000	Replace	2179	8.00	PVC	1910	6	CI	Safety and Reliability/Structural	15	2024Q4
6399	Southern Operating Area	OCEAN CITY	17th St replacement from beach to West Ave.	$ 311,250	Replace	1245	8.00	PVC	1910	6	CI	Safety and Reliability/Structural	60	2023Q4
6400	Southern Operating Area	OCEAN CITY	15th St replacement from Simpson to Central	$ 248,220	Replace	990	8.00	PVC	1910	6	CI	Safety and Reliability/Structural	30	> 2025
6414	Southern Operating Area	OCEAN CITY	18th St replacement from beach to Wesley	$ 600,000	Replace	1286	12.00	Ductile Iron	1910	12	CI	Safety and Reliability/Structural	30	> 2025
6418	Southern Operating Area	OCEAN CITY	Moorlyn Ter replacement from Ocean to End	$ 240,450	Replace	1141	8.00	PVC	1910	6	CI	Safety and Reliability/Structural	60	> 2025
6419	Southern Operating Area	OCEAN CITY	23rd St replacement from Bay to Haven	$ 122,800	Replace	636	8.00	PVC	1940	6	AC	Safety and Reliability/Structural	5	> 2025
6420	Southern Operating Area	OCEAN CITY	Asbury Ave replacement from 17th to 21st	$ 562,500	Replace	2247	8.00	PVC	1910	6	CI	Safety and Reliability/Structural	60	2024Q4
6431	Southern Operating Area	OCEAN CITY	Sunset & Bayonne Pl replacement from end to Bay	$ 390,180	Replace	1733	8.00	PVC	1940	6	CI	Safety and Reliability/Structural	30	> 2025
6433	Southern Operating Area	OCEAN CITY	19th St replacement from West to Haven	$ 79,800	Replace	269	8.00	PVC	1950	6	AC	Safety and Reliability/Structural	30	> 2025
6434	Southern Operating Area	OCEAN CITY	20th St replacement from West to Haven	$ 54,200	Replace	268	8.00	PVC	1950	6	AC	Safety and Reliability/Structural	30	> 2025
6435	Southern Operating Area	OCEAN CITY	29th St replacement from Wesley to Haven	$ 387,500	Replace	1556	8.00	PVC	1930	6	AC	Safety and Reliability/Structural	60	> 2025
6436	Southern Operating Area	OCEAN CITY	45th St replacement from Asbury to Central	$ 56,200	Replace	287	8.00	PVC	1950	6	AC	Safety and Reliability/Structural	30	> 2025
6439	Southern Operating Area	OCEAN CITY	50th St replacement from West to Central	$ 133,250	Replace	533	8.00	PVC	1950	6	AC	Safety and Reliability/Structural	60	> 2025
6440	Southern Operating Area	OCEAN CITY	20th St replacement from Wesley to Central	$ 61,600	Replace	307	8.00	PVC	1980	6	CI	Safety and Reliability/Structural	60	2023Q4
6442	Southern Operating Area	OCEAN CITY	49th St replacement from Haven to Beach	$ 250,000	Replace	1000	8.00	PVC	1950	6	AC	Safety and Reliability/Structural	30	> 2025
6443	Southern Operating Area	OCEAN CITY	51st St replacement from Asbury to Haven	$ 150,000	Replace	600	8.00	PVC	1950	8	AC	Safety and Reliability/Structural	60	> 2025
6444	Southern Operating Area	OCEAN CITY	57th St replacement from West to Central	$ 106,000	Replace	542	8.00	PVC	1950	8	AC	Safety and Reliability/Structural	60	> 2025

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6447	Southern Operating Area	OCEAN CITY	16th St replacement from Bay to Simpson	$ 131,250	Replace	232	8.00	Ductile Iron	1950	12	AC	Safety and Reliability/Structural	90	2024Q4
6448	Southern Operating Area	OCEAN CITY	18th St replacement from Asbury to Simpson	$ 324,800	Replace	911	12.00	Ductile Iron	1950	12	AC	Safety and Reliability/Structural	90	2024Q4
6449	Southern Operating Area	OCEAN CITY	21st St replacement from Haven to Bay	$ 131,000	Replace	623	12.00	PVC	1950	12	AC	Safety and Reliability/Structural	30	> 2025
10861	Southern Operating Area	OCEAN CITY	Simpson Ave (15th Street to 18th Street) & 18th St (Simpson to West)	$ 700,000	Replace	2573	8.00	Ductile Iron	1950	12	AC	Safety and Reliability/Structural	30	2024Q4
10862	Southern Operating Area	OCEAN CITY	Ocean Road from Battersea Road to E. Seabright Road	$ 593,750	Replace	2373	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	90	2023Q1
10863	Southern Operating Area	OCEAN CITY	Central Avenue from North Street to 5th Street	$ 608,750	Replace	2435	8.00	Ductile Iron	1910	4	CI	Safety and Reliability/Structural	90	2024Q2
10864	Southern Operating Area	OCEAN CITY	Central Avenue from 30th Street to 34th Street	$ 540,000	Replace	2159	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2024Q1
10932	Southern Operating Area	OCEAN CITY	Simpson Ave from 15th Street to 18th Street	$ 545,000	Replace	1673	8.00	Ductile Iron	1950	12	AC	Safety and Reliability/Structural	60	2024Q4
11023	Southern Operating Area	OCEAN CITY	Ocean Avenue between 9th Street & 13th Street	$ 770,000	Replace	2201	12.00	Ductile Iron	1910	12	CI	Safety and Reliability	90	> 2025
11062	Southern Operating Area	OCEAN CITY	3rd Street from Wesley Avenue to Atlantic Avenue	$ 190,000	Replace	679	12.00	Ductile Iron	1910	8	CI	Safety and Reliability/Structural	60	2025Q1
6522	Coastal Operating Area	OCEANPORT	Shore Rd	$ 260,000	Replace	1347	6.00	PVC	1970	6	DI	Safety and Reliability	60	> 2025
10684	Coastal Operating Area	OCEANPORT	Gooseneck Point Main Replacement	$ 708,442	Replace	2436	8.00	PVC	1970	6	AC	Safety and Reliability	45	> 2025
10685	Coastal Operating Area	OCEANPORT	Shore Road Main Replacement	$ 530,000	Replace	1347	6.00	PVC	1970	6	DI	Safety and Reliability	60	> 2025
10998	Coastal Operating Area	OCEANPORT	Springfield Ave/Fairfield Ave Main Replacement	$ 165,000	Replace	712	6.00	Ductile Iron	1920	2	GALV	System Flows and Pressure	60	2025Q4
11000	Coastal Operating Area	OCEANPORT	Dwayne Street Main Replacement	$ 165,000	Replace	639	6.00	Ductile Iron	1920	2	CI	System Flows and Pressure	60	2025Q4
11001	Coastal Operating Area	OCEANPORT	Pleasant Place Main Replacement	$ 50,000	Replace	168	4.00	Ductile Iron	1920	2	CU	System Flows and Pressure	60	2025Q4
11002	Coastal Operating Area	OCEANPORT	Pemberton Ave Main Replacement	$ 250,000	Replace	827	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	2025Q4
11004	Coastal Operating Area	OCEANPORT	Spring Lake Ave Main Replacement	$ 90,000	Replace	343	6.00	Ductile Iron	1970	2	CI	System Flows and Pressure	120	2025Q4
11012	Coastal Operating Area	OCEANPORT	Drive Way Main Replacement Project	$ 270,000	Replace	1070	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	60	2025Q4
11013	Coastal Operating Area	OCEANPORT	Monmouth Blvd and Arnold St main replacement	$ 230,000	Replace	908	8.00	Ductile Iron	1970	4	CI	Safety and Reliability/Structural	60	2025Q4
11014	Coastal Operating Area	OCEANPORT	LongBranch Ave Main Replacement	$ 120,000	Replace	474	8.00	Ductile Iron	1970	4	CI	Safety and Reliability/Structural	30	2025Q4
11015	Coastal Operating Area	OCEANPORT	Oneida Ave Main Replacement	$ 145,000	Replace	562	6.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	60	2025Q4
11016	Coastal Operating Area	OCEANPORT	Cayuga Ave Main Replacement	$ 250,000	Replace	933	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	60	2025Q4
11017	Coastal Operating Area	OCEANPORT	Ticonderoga Ave Main Replacement	$ 160,000	Replace	371	8.00	Ductile Iron	1960	2	CI	Safety and Reliability/Structural	30	2025Q4
11018	Coastal Operating Area	OCEANPORT	Herbert Place Main Replacement	$ 125,000	Replace	490	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	30	2025Q4
11019	Coastal Operating Area	OCEANPORT	Sagamore Ave Main Replacement	$ 121,000	Replace	483	8.00	Ductile Iron	1960	4	CI	Safety and Reliability/Structural	30	2025Q4
11020	Coastal Operating Area	OCEANPORT	Itaska Pl main replacement	$ 355,000	Replace	1415	8.00	Ductile Iron	1960	6	DI	Safety and Reliability/Structural	60	2025Q4
11057	Coastal Operating Area	OCEANPORT	Maple Avenue to Turf Drive Water Main Rehabilitation	$ 120,000	Rehab	301	8.00	Other	1960	8	CI	Safety and Reliability/Structural	30	2025Q4
385	Southern Operating Area	OLDMANS	Oldmans - MillStreet, Creek to Railroad	$ 160,800	Replace	1621	12.00	Ductile Iron	2010	12	DI	System Flows and Pressure	60	> 2025
428	Southern Operating Area	PALMYRA	Palmyra - Horace Avenue & West 2nd Street - West 2nd from Delaware to Horace and Horace from Temple Blvd to West 5th Street	$ 380,000	Replace	2120	8.00	Ductile Iron	2010	8	DI	System Flows and Pressure	60	> 2025
499	Southern Operating Area	PALMYRA	Palmyra - 4th Street - Leconey Avenue to Horace Avenue	$ 120,000	Replace	607	8.00	Ductile Iron	2010	8	DI	Safety and Reliability/Structural	30	> 2025
500	Southern Operating Area	PALMYRA	Palmyra - Berkley Avenue - Temple Blvd to West 4th Street	$ 162,000	Replace	808	8.00	Ductile Iron	2010	8	DI	Safety and Reliability/Structural	2	> 2025
509	Southern Operating Area	PALMYRA	Palmyra - New Jersey Avenue - South Broad Street to West Charles Street	$ 220,000	Replace	1180	8.00	Ductile Iron	2010	8	DI	Safety and Reliability/Structural	60	> 2025
5310	Southern Operating Area	PALMYRA	Palmyra - 6th Street - Arch Street to Delaware Ave	$ 504,000	Replace	1578	8.00	Ductile Iron	2010	8	DI	System Flows and Pressure	2	> 2025
5311	Southern Operating Area	PALMYRA	Palmyra - Parry Ave- Cinnaminson Ave to Charles Street	$ 342,000	Replace	1797	8.00	Ductile Iron	2010	8	DI	System Flows and Pressure	30	> 2025
5823	Southern Operating Area	PALMYRA	Palmyra - Legion Ave - Broad Street to W 3rd Street	$ 190,000	Replace	727	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	> 2025
5824	Southern Operating Area	PALMYRA	Palmyra - Temple Blvd - Jefferson Ave to Berkley Ave	$ 440,000	Replace	1950	12.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	60	> 2025
5921	Southern Operating Area	PALMYRA	Palmyra - Lincoln Avenue - East Broad Street to 7th Street	$ 323,000	Replace	1535	8.00	Ductile Iron	1990	8	DI	System Flows and Pressure	30	> 2025
6726	Southern Operating Area	PALMYRA	Palmyra - Vine Street - West 5th Street to West Broad Street	$ 104,500	Replace	377	8.00	Ductile Iron	1890	4	CEM	Safety and Reliability/Structural	30	> 2025
7104	Southern Operating Area	PALMYRA	Palmyra - Delaware Avenue - West Broad Street to Charles Street (include 2nd Street and 5th Street)	$ 32,300	Replace	1747	8.00	Ductile Iron	1980	12	DI	Safety and Reliability/Structural	60	> 2025
6849	Northern Operating Area	PEAPACK GLADSTONE BOROUGH	PEAPACK GLADSTONE - Brady Dr from Cul De Sac to gradient line	$ 440,000	Replace	2825	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	90	> 2025
6851	Northern Operating Area	PEAPACK GLADSTONE BOROUGH	PEAPACK GLADSTONE - Pottersville Rd from Main St to RT 206	$ 660,000	Replace	3059	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	90	> 2025
6852	Northern Operating Area	PEAPACK GLADSTONE BOROUGH	PEAPACK GLADSTONE - Ridge Rd from Brook Hollow Dr	$ 300,000	Replace	1514	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	> 2025
7191	Northern Operating Area	PEAPACK GLADSTONE BOROUGH	Holland Road private main	$ 1,500,000	Replace	5400	8.00	Ductile Iron				Safety and Reliability/Structural	120	2023Q4
388	Southern Operating Area	PENNS GROVE	Penns Grove - Mary Street and John Street - South Broad Street to Main Street	$ 228,000	Replace	747	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2024Q4
533	Southern Operating Area	PENNS GROVE	Penns Grove - Delaware Drive - Church Street to Cove Road	$ 133,000	Replace	582	8.00	Ductile Iron	1950	4	CI	System Flows and Pressure	60	> 2025
534	Southern Operating Area	PENNS GROVE	Penns Grove - Railroad Avenue and Mill Street - Naylor Avenue to Dead End to HPG-56	$ 492,600	Replace	1189	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2024Q4
535	Southern Operating Area	PENNS GROVE	Penns Grove - Harmony Avenue - Penn St to North Broad Street	$ 599,000	Replace	2116	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	90	> 2025
5353	Southern Operating Area	PENNS GROVE	Penns Grove - West Harmony Avenue - Delaware Avenue to North Broad Street	$ 475,000	Replace	2116	12.00	Ductile Iron	1900	4	CI	System Flows and Pressure	60	2024Q4

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5355	Southern Operating Area	PENNS GROVE	Penns Grove - State Street - West Maple Avenue to West Main Street	$ 836,500	Replace	3242	12.00	Ductile Iron	1910	8	CI	System Flows and Pressure	90	> 2025
5744	Southern Operating Area	PENNS GROVE	Penns Grove - Deming Avenue - Walnut Street to Willis Avenue	$ 95,000	Replace	434	8.00	Ductile Iron	1990	6	DI	Safety and Reliability	30	> 2025
6015	Southern Operating Area	PENNS GROVE	Penns Grove - Simpkins Place - Railroad Avenue to Dead End	$ 36,100	Replace	181	8.00	Ductile Iron	1900	1	PVC	System Flows and Pressure	30	> 2025
6016	Southern Operating Area	PENNS GROVE	Penns Grove - Airy Avenue - Railroad Avenue to Dead End	$ 38,000	Replace	159	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	> 2025
6017	Southern Operating Area	PENNS GROVE	Penns Grove - North Broad Street - East Line Street to East Main Street	$ 368,600	Replace	1800	8.00	Ductile Iron	1900	6	CI	System Flows and Pressure	30	> 2025
6018	Southern Operating Area	PENNS GROVE	Penns Grove - South Broad Street - East Main Street to Dead End	$ 750,500	Replace	4195	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	20	2024Q4
6019	Southern Operating Area	PENNS GROVE	Penns Grove - Summerill Avenue - Garnet Street to Dead End	$ 72,200	Replace	360	8.00	Ductile Iron	1910	6	CI	System Flows and Pressure	30	> 2025
6020	Southern Operating Area	PENNS GROVE	Penns Grove - Church Street - South Broad Street to Delaware Drive	$ 266,000	Replace	1335	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	> 2025
6021	Southern Operating Area	PENNS GROVE	Penns Grove - Cumberland Avenue - Diver Avenue to Walnut Street	$ 163,400	Replace	855	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	60	> 2025
6025	Southern Operating Area	PENNS GROVE	Penns Grove - Wright Street and Poplar Street - Lanning Avenue to Dead End	$ 197,600	Replace	1027	8.00	Ductile Iron	1960	2	CI	System Flows and Pressure	60	2024Q4
6029	Southern Operating Area	PENNS GROVE	Penns Grove - East Main Street - Virginia Avenue to South Broad Street	$ 340,100	Replace	1928	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	21	2024Q4
6030	Southern Operating Area	PENNS GROVE	Penns Grove - West Main Street - North Broad Street to Delaware Avenue	$ 682,000	Replace	2929	12.00	Ductile Iron	2010	8	DI	System Flows and Pressure	60	> 2025
6031	Southern Operating Area	PENNS GROVE	Penns Grove - Howard Street - North Virginia Avenue to Featherer Avenue	$ 76,000	Replace	436	8.00	Ductile Iron	2000	8	DI	Safety and Reliability/Structural	60	> 2025
6033	Southern Operating Area	PENNS GROVE	Penns Grove - Railroad Avenue - Naylor Avenue to Airy Avenue	$ 171,000	Replace	895	8.00	Ductile Iron	1900	4	CI	System Flows and Pressure	30	2024Q4
6036	Southern Operating Area	PENNS GROVE	Penns Grove - Maplewood Avenue - Hollywood Avenue to Oakwood Avenue	$ 171,000	Replace	772	8.00	Ductile Iron	2010	8	DI	System Flows and Pressure	30	> 2025
9571	Southern Operating Area	PENNS GROVE	Hayes Street & Cypress Street	$ 150,000	Replace	949	8.00	Ductile Iron	1910	6	CI	Safety and Reliability/Structural	30	> 2025
364	Southern Operating Area	PENNSAUKEN	Pennsauken - Route 130 - Marlton Pike to Homestead Avenue	$ 494,000	Replace	3218	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	30	> 2025
5904	Southern Operating Area	PENNSAUKEN	Pennsauken - Airport Industrial Park - Kaighns Avenue to North Park Drive	$ 1,292,000	Replace	7313	12.00	Ductile Iron	1940	8	CI	System Flows and Pressure	30	> 2025
5949	Southern Operating Area	PENNSAUKEN	Pennsauken - Clark Avenue - Marlton Pike to Harris Avenue	$ 152,000	Replace	721	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	> 2025
5950	Southern Operating Area	PENNSAUKEN	Pennsauken - Roosevelt Avenue - Drexel Ave to Garfield Avenue	$ 155,000	Replace	1231	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	2	> 2025
5951	Southern Operating Area	PENNSAUKEN	Pennsauken - Garden Avenue - Roosevelt Ave to Henwood Avenue	$ 100,000	Replace	509	8.00	Ductile Iron	1930	6	AC	System Flows and Pressure	21	> 2025
5952	Southern Operating Area	PENNSAUKEN	Pennsauken - Beacon Ave - Highland Ave to Rt 130 and Roosevelt Ave to Henwod Ave	$ 285,000	Replace	1892	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	5	> 2025
5953	Southern Operating Area	PENNSAUKEN	Pennsauken - King Avenue - Roosevelt Ave to Dead End	$ 50,000	Replace	232	8.00	Ductile Iron	1930	6	AC	System Flows and Pressure	30	> 2025
6487	Southern Operating Area	PENNSAUKEN	Pennsauken - Eliminate main under Route 130 jersey barrier	$ 2,750,000	Replace	1996	12.00	Ductile Iron	1930	8	CI	Safety and Reliability	30	> 2025
6616	Southern Operating Area	PENNSAUKEN	Pennsauken - Willgoos Ave - Harris to Earl	$ 165,000	Replace	884	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	90	> 2025
286	Central Operating Area	PISCATAWAY TWP	Piscataway - Carlton Ave	$ 900,000	Replace	2002	8.00	Ductile Iron	1960	8	DI	Safety and Reliability/Structural	30	> 2025
288	Central Operating Area	PISCATAWAY TWP	Piscataway - River Road - 16" main From Haywood to Winwoodand from Maplehurst to Barber	$ 900,000	Replace	1622	16.00	Ductile Iron	2010	16	DI	Relocation/Opportunity	2	> 2025
10618	Central Operating Area	PISCATAWAY TWP	Zirkel Avenue Main Relocation	$ 68,000	Replace	1262	8.00	Ductile Iron	1980	8	DI	Relocation/Opportunity	60	> 2025
10642	Central Operating Area	PISCATAWAY TWP	Lake Way from S Washington Ave to Lakeside Dr N	$ 181,500	Replace	550	12.00	Ductile Iron	1950	8	CI	System Flows and Pressure	60	> 2025
10643	Central Operating Area	PISCATAWAY TWP	Lakeside Dr N from Lake Way to Nelson Avenue N	$ 577,500	Replace	1417	12.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	> 2025
10644	Central Operating Area	PISCATAWAY TWP	Nelson Ave N from Lakeside Dr N to Woodland Rd	$ 95,700	Replace	290	12.00	Ductile Iron	1790	6	CI	System Flows and Pressure	30	> 2025
10645	Central Operating Area	PISCATAWAY TWP	Woodland Rd from Nelson Ave N to Suttie Avenue	$ 95,700	Replace	292	12.00	Ductile Iron	1790	6	CI	System Flows and Pressure	30	> 2025
10658	Central Operating Area	PISCATAWAY TWP	Kroeger Lane Main Replacement	$ 190,000	Replace	670	8.00	Ductile Iron	1790	6	CI	Relocation/Opportunity	60	> 2025
10674	Central Operating Area	PISCATAWAY TWP	Brotherhood Street Main Lowerings	$ 40,000	Replace	2516	8.00	Ductile Iron	1790	6	CI	Relocation/Opportunity	90	> 2025
10909	Central Operating Area	PISCATAWAY TWP	PISCATAWAY TWP - Replace 6" and 12" with 16" on Centennial Ave from Possumtown Rd to near VPIS-2195	$ 85,400	Replace	244	16.00	Ductile Iron	1960	12	CI	System Flows and Pressure	30	> 2025
78	Central Operating Area	PLAINSBORO TWP	Plainsboro - Jeffers/PastureSignal 22/flushing/loss water	$ 185,400	Replace	1213	8.00	Ductile Iron	1970	4	DI	Water Quality	60	> 2025
5648	Southern Operating Area	PLEASANTVILLE	Washington Avenue between New Road and Main Street	$ 572,000	Replace	2082	12.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	45	2024Q4
5649	Southern Operating Area	PLEASANTVILLE	Washinton Avenue between Main Street and Franklin Boulevard	$ 170,000	Replace	831	12.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	30	2025Q4
5986	Southern Operating Area	PLEASANTVILLE	N. 3rd Street between W. Adams Ave and Hendricks St	$ 68,000	Replace	414	8.00	Ductile Iron	1930	2	CI	System Flows and Pressure	30	2025Q4
5987	Southern Operating Area	PLEASANTVILLE	N. 4th Street between W. Adams Ave and Pleasant Ave	$ 121,600	Replace	919	8.00	Ductile Iron	1930	2	GALV	System Flows and Pressure	60	2024Q4

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
5989	Southern Operating Area	PLEASANTVILLE	N. 4th Street between Washington Ave and Martin Luther King Jr Ave	$ 50,000	Replace	1032	8.00	Ductile Iron	1990	4	CI	Safety and Reliability/Structural	20	2025Q4
5990	Southern Operating Area	PLEASANTVILLE	4th Street between Washington Avenue and West Jersey Avenue	$ 165,000	Replace	459	8.00	Ductile Iron	1990	6	CI	System Flows and Pressure	30	2024Q4
5991	Southern Operating Area	PLEASANTVILLE	3rd Street between Martin Luther King Jr Ave and West Jersey Ave	$ 281,500	Replace	1126	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	15	2024Q4
6401	Southern Operating Area	PLEASANTVILLE	E. Princeton Ave & E Lindley Ave between Main St and Iowa Ave	$ 531,250	Replace	2525	8.00	Ductile Iron	1940	2	GALV	Safety and Reliability/Structural	90	2025Q4
6402	Southern Operating Area	PLEASANTVILLE	E. Leeds Avenue between Main Street and Franklin Blvd	$ 285,000	Replace	377	12.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	90	2025Q4
6404	Southern Operating Area	PLEASANTVILLE	McConnell Drive between E. Leeds Ave and Cedarcrest Ave	$ 285,000	Replace	1100	8.00	Ductile Iron	2000	6	AC	Safety and Reliability/Structural	60	2025Q4
6405	Southern Operating Area	PLEASANTVILLE	Magnolia Place between Main Street and McConnell Drive	$ 149,600	Replace	580	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	30	2025Q4
6406	Southern Operating Area	PLEASANTVILLE	Laurel Drive between Magnolia Place and McConnell Drive	$ 117,000	Replace	625	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	45	2025Q4
6407	Southern Operating Area	PLEASANTVILLE	W. Leeds Ave between New Road and Main Street	$ 850,500	Replace	3012	12.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	12	2024Q4
6408	Southern Operating Area	PLEASANTVILLE	Elkton Avenue from W. Leeds Avenue	$ 40,000	Replace	295	4.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	45	> 2025
6409	Southern Operating Area	PLEASANTVILLE	Kline Avenue between W. Leeds Avenue and end of road	$ 162,000	Replace	842	8.00	Ductile Iron	1940	6	AC	Safety and Reliability/Structural	40	> 2025
6410	Southern Operating Area	PLEASANTVILLE	Sunset Court between New Road and Kline Avenue	$ 47,250	Replace	312	8.00	Ductile Iron	1940	6	AC	Safety and Reliability/Structural	30	> 2025
6411	Southern Operating Area	PLEASANTVILLE	Neumark Avenue between W. Leeds Ave and New Road	$ 164,700	Replace	869	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2023Q4
6413	Southern Operating Area	PLEASANTVILLE	Linden Avenue between W. Delilah Road and W. Thompson Avenue	$ 162,800	Replace	630	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	20	2025Q4
6421	Southern Operating Area	PLEASANTVILLE	Loraine Avenue between Main Street to E. end of road, Franklin Blvd from Walnut Ave to Expressway	$ 550,250	Replace	2280	8.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	30	2023Q4
6422	Southern Operating Area	PLEASANTVILLE	Franklin Avenue between Loraine Avenue and Expressway	$ 85,500	Replace	934	8.00	Ductile Iron	1940	8	CI	Safety and Reliability/Structural	60	> 2025
6423	Southern Operating Area	PLEASANTVILLE	Mulberry Ave between Linden Avenue and Franklin Blvd	$ 300,000	Replace	1202	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2023Q4
6450	Southern Operating Area	PLEASANTVILLE	Chatham Avenue between Main Street and Clearview Avenue, Franklin Blvd between Stenton Place to E. Reading Ave	$ 475,000	Replace	1900	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	30	2024Q4
6452	Southern Operating Area	PLEASANTVILLE	Walnut Avenue between Main Street and Franklin Blvd, Walnut Ave from Skyline Condo entrance to Clearview Ave	$ 275,000	Replace	1100	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	60	2024Q4
6455	Southern Operating Area	PLEASANTVILLE	Collins Avenue between Main Street and Franklin Blvd	$ 122,400	Replace	686	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	> 2025
6459	Southern Operating Area	PLEASANTVILLE	Franklin Blvd between Old Turnpike and Washington Ave	$ 111,600	Replace	614	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	60	> 2025
6604	Southern Operating Area	PLEASANTVILLE	E. Delilah Road between Main Street and Franklin Blvd	$ 112,000	Replace	713	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	60	2025Q4
6605	Southern Operating Area	PLEASANTVILLE	Linden Avenue between Delilah Rd and Windsor Ave	$ 63,000	Replace	262	8.00	Ductile Iron	1980	6	CI	Safety and Reliability/Structural	45	> 2025
6606	Southern Operating Area	PLEASANTVILLE	Windsor Avenue between Linden Avenue and Main Street	$ 104,000	Replace	472	8.00	Ductile Iron	1940	4	CI	Safety and Reliability/Structural	30	> 2025
10851	Southern Operating Area	PLEASANTVILLE	Windsor Avenue from Rt 9 to End	$ 150,000	Replace	297	6.00	Ductile Iron	1940	2	CI	System Flows and Pressure	30	2025Q2
79	Central Operating Area	PRINCETON BOROUGH	Princeton Boro - Elm RoadHodge to 206Main Breaks	$ 432,000	Replace	2378	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	90	2025Q4
83	Central Operating Area	PRINCETON TWP	Princeton Township - RidgeView RoadGreat Road to Cherry Hill Road	$ 1,026,000	Replace	3923	12.00	Ductile Iron	1980	12	DI	Safety and Reliability/Structural	90	2025Q4
84	Central Operating Area	PRINCETON TWP	Princeton Township - Stuart Road Great Road to Cherry Hill Road	$ 2,000,000	Replace	6812	12.00	Ductile Iron	1960	8	DI	System Flows and Pressure	120	> 2025
9359	Central Operating Area	PRINCETON TWP	Loomis Ct. Main Replacement	$ 104,000	Replace	520	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2024Q4
9360	Central Operating Area	PRINCETON TWP	Oakland St. & Hickory Ct. Main Replacement	$ 268,000	Replace	1340	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
9361	Central Operating Area	PRINCETON TWP	Walnut Ln. Main Replacement	$ 148,000	Replace	720	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9363	Central Operating Area	PRINCETON TWP	Harrison St. North Main Replacement	$ 420,000	Replace	2039	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	90	2025Q4
9377	Central Operating Area	PRINCETON TWP	Sycamore Rd. Main Replacement	$ 200,000	Replace	1000	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
9401	Central Operating Area	PRINCETON TWP	Greenhouse Dr. Main Replacement	$ 128,000	Replace	640	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	> 2025
10701	Central Operating Area	PRINCETON TWP	Wheatssheaf Lane Main Replacement	$ 300,000	Replace	946	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2022Q2
10882	Central Operating Area	PRINCETON TWP	Dodds Lane Main Replacement	$ 1,000,000	Replace	5482	8.00	Ductile Iron	1920	8	CI	Safety and Reliability	120	2022Q4
10931	Central Operating Area	PRINCETON TWP	South Harrison Street Main Replacement Nassau St to Hartley Avenue	$ 1,000,000	Replace	6929	12.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2023Q4
5782	Central Operating Area	RARITAN BOROUGH	First Avenue Main Replacement	$ 450,000	Replace	1590	12.00	Ductile Iron	1790	8	CI	Safety and Reliability/Structural	30	2025Q4
6730	Central Operating Area	RARITAN BOROUGH	First Avenue Main Replacement	$ 400,000	Replace	1400	8.00	Ductile Iron				Safety and Reliability/Structural	45	2024Q4
10869	Central Operating Area	RARITAN BOROUGH	Lagrange St Ph II Main Replacement	$ 225,000	Replace	909	8.00	Ductile Iron	1790	6	CI	Safety and Reliability/Structural	60	2024Q4
10870	Central Operating Area	RARITAN BOROUGH	Elmer St. Main Replacement	$ 150,000	Replace	381	8.00	Ductile Iron	1790	6	CI	Safety and Reliability/Structural	30	2025Q4
10871	Central Operating Area	RARITAN BOROUGH	Anderson St Main Replacement	$ 300,000	Replace	2254	8.00	Ductile Iron	1980	8	DI	Safety and Reliability/Structural	90	2025Q4
9364	Central Operating Area	RARITAN TWP	Harrison Street South/ 629 Main Replacement	$ 140,000	Replace	700	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	12	> 2025
9705	Southern Operating Area	RIVERSIDE	New Jersey Avenue, Fairview St, Hancock St, 2nd Street	$ 275,000	Replace	1245	12.00	Ductile Iron	1930	6	CI	Sustained Economic Growth	60	> 2025

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
10891	Central Operating Area	ROSELLE BOROUGH	Replace 300' 2" main with 8"DIP on Wheatsheaf Rd	$ 100,000	Replace	300	8.00	Ductile Iron	1940	2	CI	Safety and Reliability/Structural	30	2022Q4
10677	Central Operating Area	ROSELLE PARK BORO	W Lincoln Ave(Amsterdam Ave to Faitoute Ave)	$ 255,000	Replace	970	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2025Q4
10921	Central Operating Area	ROSELLE PARK BORO	ROSELLE PARK BORO - upgrade of 12" to 16" along Galloping Hill Rd between VRSP-113 to VRSP-1057	$ 469,000	Replace	1181	16.00	Ductile Iron	1960	12	CI	Safety and Reliability	60	> 2025
10649	Northern Operating Area	ROXBURY TOWNSHIP	Kenvil Road	$ 1,000,000	Replace	3747	8.00	Ductile Iron	1950	8	AC	Safety and Reliability	90	2023Q4
10651	Northern Operating Area	ROXBURY TOWNSHIP	Circuit Drive East & West	$ 725,000	Replace	2897	8.00	Ductile Iron	1960	8	AC	Safety and Reliability	90	2025Q4
10652	Northern Operating Area	ROXBURY TOWNSHIP	Kentwood Terr & Ruth Ct	$ 750,000	Replace	2743	8.00	Ductile Iron	1970	8	AC	Safety and Reliability	65	2025Q4
10653	Northern Operating Area	ROXBURY TOWNSHIP	Horizon Drive	$ 600,000	Replace	2240	8.00	Ductile Iron	1970	8	AC	Safety and Reliability	15	2025Q4
10654	Northern Operating Area	ROXBURY TOWNSHIP	Henry St and William St	$ 975,000	Replace	3861	8.00	Ductile Iron	1950	6	AC	Relocation/Opportunity	90	2024Q4
10655	Northern Operating Area	ROXBURY TOWNSHIP	Honeyman Dr and Kadel Dr	$ 900,000	Replace	3416	8.00	Ductile Iron	1950	8	AC	Safety and Reliability	30	2024Q4
10656	Northern Operating Area	ROXBURY TOWNSHIP	Beechwood Dr and Robert Ct	$ 550,000	Replace	2052	8.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	90	2024Q4
5971	Southern Operating Area	RUNNEMEDE	Runnemede - West 1st Avenue - North Black Horse Pike to VRU-13866	$ 70,500	Replace	430	8.00	Ductile Iron	1950	4	CI	System Flows and Pressure	90	> 2025
6613	Central Operating Area	SCOTCH PLAINS TWP	Park Ave. (Route 22 to Portland)	$ 841,275	Replace	3657	12.00	Ductile Iron	1970	6	CI	System Flows and Pressure	15	2024Q4
369	Southern Operating Area	SOMERDALE	Somerdale - Somerdale Road - Under railroad crossing	$ 40,000	Replace	1245	8.00	Ductile Iron	1960	8	CI	Safety and Reliability	120	> 2025
5947	Southern Operating Area	SOMERDALE	Somerdale - Arlmay Avenue - North Warwick Road to Dead End	$ 110,200	Replace	506	8.00	Ductile Iron	1950	6	AC	System Flows and Pressure	15	> 2025
5948	Southern Operating Area	SOMERDALE	Somerdale - Cedar Avenue - North White Horse Pike to Dead End	$ 338,200	Replace	2021	8.00	Ductile Iron	1950	6	AC	System Flows and Pressure	90	> 2025
10950	Southern Operating Area	SOMERDALE	Somerdale- Amhurst Ave and Columbia Ave	$ 500,000	Replace	1907	8.00	Ductile Iron	1950	6	AC	Safety and Reliability	60	2025Q4
181	Southern Operating Area	SOMERS POINT	Shore Road - Between Connecticut Avenue & Bethel Road (AC-B-4D) (Mort ended 2010)	$ 110,000	Replace	639	16.00	Ductile Iron	1940	6	DI	System Flows and Pressure	60	> 2025
182	Southern Operating Area	SOMERS POINT	Shore Road - Between Bethel Road & Maryland Avenue (AC-B-4D)	$ 302,500	Replace	1132	16.00	Ductile Iron	1910	6	AC	System Flows and Pressure	30	> 2025
183	Southern Operating Area	SOMERS POINT	Maryland Avenue - Between Shore Road & Sunset Avenue (AC-B-4D)	$ 72,500	Replace	279	12.00	Ductile Iron	1910	8	CI	System Flows and Pressure	30	> 2025
184	Southern Operating Area	SOMERS POINT	Maryland Avenue - Between Sunset Avenue & Shore Road	$ 207,500	Replace	279	12.00	Ductile Iron	1910	8	CI	System Flows and Pressure	25	> 2025
204	Southern Operating Area	SOMERS POINT	Shore Road - Between Maryland Avenue & Groveland Avenue	$ 82,500	Replace	336	16.00	Ductile Iron	1910	6	AC	System Flows and Pressure	30	> 2025
205	Southern Operating Area	SOMERS POINT	Shore Road Ph 10 - Between Groveland Avenue & Ocean Heights Avenue	$ 1,300,000	Replace	3264	16.00	Ductile Iron	1910	6	CI	System Flows and Pressure	5	2025Q4
5641	Southern Operating Area	SOMERS POINT	Sunny Avenue between Groveland Avenue and Pierson Avenue	$ 145,600	Replace	1121	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	60	> 2025
6231	Southern Operating Area	SOMERS POINT	10th from Laurel to New York and Dobbs Ave from 10th Street to Well.	$ 487,500	Replace	1001	8.00	Ductile Iron	1950	8	AC	Safety and Reliability/Structural	25	2024Q4
6233	Southern Operating Area	SOMERS POINT	1st Street replacement from Johnson to Dawes	$ 169,200	Replace	819	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	> 2025
6237	Southern Operating Area	SOMERS POINT	4th Street replacement from Dobbs to W. New Jersey Avenue	$ 62,600	Replace	321	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	> 2025
6240	Southern Operating Area	SOMERS POINT	5th replacement from New York to Rhode Island	$ 142,000	Replace	938	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	20	> 2025
6316	Southern Operating Area	SOMERS POINT	Ambler Road between W. Laurel Drive and W. Groveland Avenue	$ 775,000	Replace	3488	12.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	> 2025
6317	Southern Operating Area	SOMERS POINT	W. Groveland Avenue between Ambler Road to US Route 9	$ 400,000	Replace	1764	12.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	> 2025
6463	Southern Operating Area	SOMERS POINT	Maryland Ave between Shore Road and Bethel Road	$ 250,000	Replace	967	16.00	Ductile Iron	1910	6	AC	Safety and Reliability/Structural	60	> 2025
6464	Southern Operating Area	SOMERS POINT	Marks Road between Rhode Island Ave (SP Tank) and Maryland Ave	$ 588,350	Replace	1681	16.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	2024Q4
6519	Southern Operating Area	SOMERS POINT	E. Laurel Dr between Braddock Dr to US Route 9	$ 449,900	Replace	1325	12.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2023Q4
6520	Southern Operating Area	SOMERS POINT	US Rt 9 between Village Drive South and MacArthur Blvd	$ 432,000	Replace	1436	12.00	Ductile Iron	1950	6	AC	Safety and Reliability/Structural	30	> 2025
6524	Southern Operating Area	SOMERS POINT	US Rt 9 between Somers Point- Mays Landing Road and S. Village Drive	$ 498,000	Replace	1661	12.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	60	> 2025
6940	Southern Operating Area	SOMERS POINT	Shore Road between New Jersey Ave and Connecticut Ave	$ 680,000	Replace	1924	8.00	Ductile Iron	1940	6	DI	Safety and Reliability/Structural	60	> 2025
10712	Southern Operating Area	SOMERS POINT	Paul Clark Drive	$ 450,000	Replace	945	8.00	PVC	1990	8	DI	Safety and Reliability/Structural	60	2023Q4
6625	Central Operating Area	SOMERVILLE BOROUGH	Veterans Memorial Drive 8" main replacement between New St and S. Doughty Ave.	$ 70,000	Replace	460	12.00	Ductile Iron				Safety and Reliability/Structural	20	> 2025
10663	Central Operating Area	SOMERVILLE BOROUGH	Replace 750 feet of 6-inch main with 12-inch DI main.	$ 255,000	Replace	726	12.00	Ductile Iron	1930	6	CI	Safety and Reliability	60	2025Q4
10874	Central Operating Area	SOMERVILLE BOROUGH	3rd Street Main Replacement	$ 350,000	Replace	1426	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	60	2024Q4
10876	Central Operating Area	SOMERVILLE BOROUGH	Center St Main replacement	$ 250,000	Replace	1103	8.00	Ductile Iron	1930	4	CI	Safety and Reliability/Structural	90	2025Q4
10877	Central Operating Area	SOMERVILLE BOROUGH	Hamilton Street main Replacement	$ 400,000	Replace	1159	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	35	2025Q4
10885	Central Operating Area	SOMERVILLE BOROUGH	East/West Orchard Street Main Replacement	$ 500,000	Replace	2456	8.00	Ductile Iron	1930	6	CI	System Flows and Pressure	90	2022Q3
10887	Central Operating Area	SOMERVILLE BOROUGH	Brookside Avenue Main Replacement	$ 400,000	Replace	1540	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	60	2022Q4
10893	Central Operating Area	SOMERVILLE BOROUGH	Riviera Drive Main Replacement	$ 250,000	Replace	1143	8.00	Ductile Iron	1950	8	CI	Safety and Reliability	60	2022Q4
10894	Central Operating Area	SOMERVILLE BOROUGH	East Cadillac Drive Main Replacement	$ 250,000	Replace	729	8.00	Ductile Iron	1950	6	CI	Safety and Reliability	60	2022Q4
10872	Central Operating Area	SOUTH BOUND BROOK BOROUGH	Canal Rd / Main St replacement	$ 350,000	Replace	700	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2025Q4
5681	Central Operating Area	SOUTH BRUNSWICK TWP	Euclid Ave Main Replacement	$ 200,000	Replace	426	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2023Q4
5682	Central Operating Area	SOUTH BRUNSWICK TWP	Heathcote Brook Rd Main replacement	$ 250,000	Replace	1542	8.00	Ductile Iron	1990	6	DI	Safety and Reliability/Structural	30	2023Q4
5684	Central Operating Area	SOUTH BRUNSWICK TWP	Prospect St main replacement	$ 150,000	Replace	400	8.00	Ductile Iron				Safety and Reliability/Structural	30	2023Q4
294	Central Operating Area	SOUTH PLAINFIELD BORO	South Plainfield - Park Avenue - Bridge Reconstruction	$ 1,100,000	Replace	300	36.00	Ductile Iron				Relocation/Opportunity	30	2025Q4

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
6338	Northern Operating Area	SPRINGFIELD	Walnut St from Morris to Church Mall	$ 116,000	Replace	410	8.00	Ductile Iron	1940	0	GALV	Safety and Reliability	30	2025Q4
6856	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Briar Hills Circle from Wentz Ave to Mountain Ave	$ 600,000	Replace	3368	6.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2025Q3
6858	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Pitt Rd from Shunpike Rd to Mountain Ave	$ 560,000	Replace	2818	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	3	2025Q4
6859	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Riverside Dr from Cain St to Maple Ave	$ 240,000	Replace	1209	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
6860	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Riverside Dr from Cain St to Battlehill Ave	$ 140,000	Replace	679	8.00	Ductile Iron	1890	6	CI	Safety and Reliability/Structural	10	> 2025
6863	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Skylark Rd from Tree Top Dr to Green Hill Rd	$ 1,100,000	Replace	2436	8.00	Ductile Iron	1960	8	CI	Safety and Reliability/Structural	90	2025Q4
6864	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Colonial Rd from Evergreen Rd to West End Ave	$ 280,000	Replace	1032	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2024Q4
6877	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Route 22 east and west	$ 2,000,000	Replace	8623	12.00	Ductile Iron	1940	6	CI	Safety and Reliability	120	2024Q4
6934	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Denham Rd from Donna Rd to Morrison Rd	$ 220,000	Replace	965	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2024Q2
6935	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Golf Oval from Mountain Ave	$ 260,000	Replace	1324	8.00	Ductile Iron	1970	6	CI	Relocation/Opportunity	60	2024Q4
6938	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Sharon Rd from Highland Ave to Summit Rd	$ 140,000	Replace	707	8.00	Ductile Iron	1940	6	AC	Relocation/Opportunity	60	2024Q4
6939	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Elmwood Ave / Cottler Ave from Milltown Rd	$ 300,000	Replace	1310	8.00	Ductile Iron	1950	6	CI	Relocation/Opportunity	60	2024Q2
6944	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Colfax Rd from Denham to Short Hills Ave	$ 270,000	Replace	1339	8.00	Ductile Iron	1920	6	CI	Safety and Reliability	60	2023Q2
6945	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Severna Ave from Denham to Short Hills Ave	$ 270,000	Replace	1366	8.00	Ductile Iron	1920	6	CI	Relocation/Opportunity	60	> 2025
6946	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Molter from Severna to Morris	$ 100,000	Replace	518	8.00	Ductile Iron	1910	6	DI	Relocation/Opportunity	60	2023Q4
6947	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Marcy from Severna to Morris	$ 120,000	Replace	603	8.00	Ductile Iron	1910	6	CI	Relocation/Opportunity	12	2023Q4
6948	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Green Hill Rd from Tree Top to Highland	$ 440,000	Replace	2573	8.00	Ductile Iron	1960	8	CI	Relocation/Opportunity	60	2025Q4
6951	Northern Operating Area	SPRINGFIELD	SPRINGFIELD - Stern from Springfield to Commerce	$ 247,000	Replace	1065	8.00	Ductile Iron	1950	6	CI	Relocation/Opportunity	60	2025Q2
10704	Northern Operating Area	SPRINGFIELD	Vista Way	$ 510,000	Replace	1723	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	15	2022Q4
5944	Southern Operating Area	STRATFORD	Stratford - Cornell Avenue, North Atlatnic Avenue to North White Horse Pike	$ 494,000	Replace	2514	8.00	Ductile Iron	1950	4	GALV	System Flows and Pressure	90	> 2025
42	Northern Operating Area	SUMMIT	Summit - Ashland Rd	$ 380,000	Replace	1749	8.00	Ductile Iron	1990	12	CI	Safety and Reliability/Structural	60	> 2025
45	Northern Operating Area	SUMMIT	Summit - Plymouth, Devon & Mountain (Intersection)	$ 25,000	Replace	1306	6.00	Ductile Iron	1990	4	CI	Safety and Reliability/Structural	30	> 2025
145	Northern Operating Area	SUMMIT	Summit - Cottage (Carriage)	$ 43,750	Replace	250	6.00	Ductile Iron				System Flows and Pressure	30	> 2025
6712	Northern Operating Area	SUMMIT	SUMMIT - Caldwell Ave from Clark St to Springfield Ave	$ 160,000	Replace	447	8.00	Ductile Iron	1960	2	CI	Safety and Reliability	30	> 2025
6867	Northern Operating Area	SUMMIT	SUMMIT - Druid Hill Rd from Silver Lake Dr to Surrey Rd	$ 420,000	Replace	2079	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	> 2025
6868	Northern Operating Area	SUMMIT	SUMMIT - Gates Ave from Morris Ave to Montrose Ave	$ 180,000	Replace	842	8.00	Ductile Iron	1970	4	CI	Safety and Reliability/Structural	60	2024Q4
6869	Northern Operating Area	SUMMIT	SUMMIT - Knob Hill Dr from Division Ave to Portland Rd	$ 340,000	Replace	1714	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	> 2025
6870	Northern Operating Area	SUMMIT	SUMMIT - Rotary Dr from Highland Dr to Ashland Rd (Gradient line)	$ 300,000	Replace	1581	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	> 2025
6871	Northern Operating Area	SUMMIT	SUMMIT - Shunpike Rd from Harvard St to Yale St	$ 550,000	Replace	2757	8.00	Ductile Iron	1890	2	CI	Safety and Reliability/Structural	90	2022Q4
6872	Northern Operating Area	SUMMIT	SUMMIT - Woodland Ave from River Rd to Canoe Brook Pkwy	$ 170,000	Replace	850	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	> 2025
6873	Northern Operating Area	SUMMIT	SUMMIT - Risk Ave/Beech Spring Dr loop from Constantine Pl	$ 340,000	Replace	1716	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	60	> 2025
6890	Northern Operating Area	SUMMIT	SUMMIT - Glenside Ave from Van Dyke to Baltusrol Well	$ 560,000	Replace	3849	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2025Q3
6891	Northern Operating Area	SUMMIT	SUMMIT - Division Ave from Knob Hill to Valley View Ave	$ 320,000	Replace	1331	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	> 2025
9557	Northern Operating Area	SUMMIT	Plymouth Rd	$ 314,000	Replace	1256	8.00	Ductile Iron	1920	6	CI	Relocation/Opportunity	60	2024Q2
10641	Northern Operating Area	SUMMIT	Pine Grove Rd	$ 350,000	Replace	1136	8.00	Ductile Iron	1920	4	CI	Relocation/Opportunity	60	2022Q4
10671	Northern Operating Area	SUMMIT	New Providence Ave	$ 350,000	Replace	160	4.00	Ductile Iron	1950	2	CI	Safety and Reliability	30	2023Q4
10853	Northern Operating Area	SUMMIT	Summit - Ashwood Avenue pipe replacement	$ 347,500	Replace	1361	8.00	Ductile Iron	1890	4	CI	System Flows and Pressure	30	> 2025
10923	Northern Operating Area	SUMMIT	Park Ave	$ 960,000	Replace	3137	8.00	Ductile Iron	1890	4	CI	System Flows and Pressure	90	2022Q4
6892	Northern Operating Area	TEWKSBURY TWP	TEWKSBURY - Hollow Brook Rd from Homestead Rd to dead end of main	$ 1,100,000	Replace	5435	8.00	Ductile Iron	1890	8	CI	Safety and Reliability/Structural	90	2022Q4
589	Coastal Operating Area	TINTON FALLS	Tinton Falls - Sylvan Dr, From Glenwood to Riveredge	$ 67,500	Replace	459	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	30	> 2025
124	Coastal Operating Area	TOMS RIVER	Toms River Twp - Monterey - Haddonfield Ave from Rt 35 N to terminus (boardwalk).	$ 108,000	Replace	683	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	30	2024Q4
125	Coastal Operating Area	TOMS RIVER	Toms River Twp - Monterey - Bryn Mawr Ave from Rt 35 S to terminus (boardwalk).	$ 196,500	Replace	1112	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	60	2023Q4
689	Coastal Operating Area	TOMS RIVER	Toms River Twp - Monterey - Westmont Ave from Rt 35 N to terminus (boardwalk).	$ 109,500	Replace	695	8.00	Ductile Iron	1950	4	CI	Safety and Reliability/Structural	30	2024Q4
717	Coastal Operating Area	TOMS RIVER	Toms River Twp - Monterey - Cove Way from Rt 35 S to 6"-2" reducer in Harbor Dr/Keith Ln intersection.	$ 76,800	Replace	554	8.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2023Q4

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764	Coastal Operating Area	TOMS RIVER	Toms River Twp - Monterey - 2nd Ave from Rt 35 N to 8"-2" reducer.	$ 67,500	Replace	433	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	> 2025
8441	Coastal Operating Area	TOMS RIVER	W Cove Way, 2" CI	$ 88,000	Replace	534	6.00	Ductile Iron	1950	2	CI	Safety and Reliability/Structural	60	2023Q2
6810	Coastal Operating Area	UNION TWP	Springfield Ave. (Valley to Vauxhall Rd.)	$ 443,000	Replace	2307	8.00	Ductile Iron	1920	4	CI	System Flows and Pressure	30	2025Q4
9240	Central Operating Area	UNION TWP	Huguenot Ave. (Colonial Ave. to Colonial Arms Rd.)	$ 440,000	Replace	2200	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	90	> 2025
9241	Central Operating Area	UNION TWP	Beverly Rd. (Lorraine Ave. to Arnet Ave.)	$ 340,000	Replace	1700	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	30	> 2025
9242	Central Operating Area	UNION TWP	Lum Ave. (Colonial Ave. to Terminus)	$ 160,000	Replace	800	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	20	> 2025
9243	Central Operating Area	UNION TWP	Summit Pl. (Colonial Ave. to Lorraine Ave.)	$ 104,000	Replace	520	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	30	> 2025
9251	Central Operating Area	UNION TWP	Lancaster Rd. (Prescot Rd. to Terminus)	$ 80,000	Replace	400	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	30	> 2025
9259	Central Operating Area	UNION TWP	Winchester Ave. (Randolph Pl. to Salem Rd.)	$ 700,000	Replace	3500	8.00	Ductile Iron		6	CI	Safety and Reliability/Structural	90	2023Q4
10619	Central Operating Area	UNION TWP	Tucker Ave (Sinclair Ave to Galloping Hill Rd)	$ 366,000	Replace	1129	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	> 2025
10620	Central Operating Area	UNION TWP	Carolyn Rd (Tucker Ave to Chestnut St)	$ 149,000	Replace	554	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	> 2025
10621	Central Operating Area	UNION TWP	Chestnut St (Rutgers Ln to W Sumner Ave)	$ 92,000	Replace	399	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	30	> 2025
10622	Central Operating Area	UNION TWP	New Jersey Ave(Chestnut St to Livingston Ave)	$ 467,000	Replace	1760	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	> 2025
10623	Central Operating Area	UNION TWP	Newark Ave (Chestnut St to Livingston Ave)	$ 461,100	Replace	1740	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	> 2025
10624	Central Operating Area	UNION TWP	Chestnut St(Galloping Hill Rd to Washington Ave)	$ 318,000	Replace	1035	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	> 2025
10625	Central Operating Area	UNION TWP	Monticello St.(Chestnut St to Spring St)	$ 252,000	Replace	890	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	21	> 2025
10626	Central Operating Area	UNION TWP	Ward St (Washington Ave to Newark Ave)	$ 191,000	Replace	720	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	> 2025
10627	Central Operating Area	UNION TWP	Bergen St (Washington Ave to Terminus)	$ 175,000	Replace	634	8.00	Ductile Iron	1790	6	CI	System Flows and Pressure	14	> 2025
10661	Central Operating Area	UNION TWP	Lorraine Ave (Lum Ave to Morris Ave)	$ 240,000	Replace	920	8.00	Ductile Iron	1790	6	CI	Looping	60	> 2025
10900	Central Operating Area	UNION TWP	Green Ln from Woodland Ave to Floral Ave N	$ 450,000	Replace	1548	12.00	Ductile Iron	1790	6	CI	System Flows and Pressure	30	2022Q4
10901	Central Operating Area	UNION TWP	Utilities Rd/Green Ln from Clermont Ter to Magie Avenue	$ 2,500,000	Replace	800	12.00	Ductile Iron	1790	6	CI	System Flows and Pressure	60	2022Q4
10903	Central Operating Area	UNION TWP	UNION TWP - Gregory Ave, from Bradford Ter to Union Ave. Then Union Ave, from Gregory Ave to VUNI· 3305	$ 980,000	Replace	2782	16.00	Ductile Iron	1920	6	CI	System Flows and Pressure	90	2023Q4
5367	Southern Operating Area	VOORHEES	Voorhees - Peregrive and Evesham - ACross PSE&G R.O.W	$ 157,500	Replace	502	12.00	Ductile Iron	1970	12	DI	System Flows and Pressure	60	> 2025
5955	Southern Operating Area	VOORHEES	Voorhees - Burlington Avenue - Somerdale Road to Dead End	$ 253,000	Replace	1869	8.00	Ductile Iron	1950	6	CI	System Flows and Pressure	60	> 2025
10930	Southern Operating Area	VOORHEES	Voorhees- Lenox Avenue, Warren Avenue and Camden Avenue	$ 693,225	Replace	3081	8.00	Ductile Iron	1950	8	CI	Relocation/Opportunity	90	2023Q2
10946	Southern Operating Area	VOORHEES	Voorhees- Round Hill Road	$ 500,000	Replace	1835	8.00	Ductile Iron	1950	8	CI	Safety and Reliability/Structural	180	2024Q4
10947	Southern Operating Area	VOORHEES	Voorhees- Essex Ave, Hudson Avenue, Ford Ave and Mercer Ave and Middlesex Avenue	$ 1,275,000	Replace	5107	6.00	Ductile Iron	1960	8	CI	Safety and Reliability	10	2025Q4
10948	Southern Operating Area	VOORHEES	Voorhees- Burlington Ave and Camden Avenue	$ 875,000	Replace	3462	8.00	Ductile Iron	1950	6	AC	Safety and Reliability	90	2024Q4
10996	Coastal Operating Area	WALL	Marion Place Main Replacement	$ 48,000	Replace	183	4.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	2025Q4
139	Northern Operating Area	WASHINGTON BOROUGH	Washington Boro - West Warren, from Grand Ave. and Belvidere Ave.	$ 350,000	Replace	1403	8.00	Ductile Iron	1890	4	CI	Relocation/Opportunity	30	> 2025
140	Northern Operating Area	WASHINGTON BOROUGH	Washington Boro - W Johnson, between Lincoln and Grand	$ 200,000	Replace	1000	8.00	Ductile Iron	1890	4	CI	System Flows and Pressure	30	> 2025
141	Northern Operating Area	WASHINGTON BOROUGH	Washington Boro - W Stewart, between Lincoln and Grand	$ 220,000	Replace	971	8.00	Ductile Iron	1890	4	CI	System Flows and Pressure	60	2022Q4
142	Northern Operating Area	WASHINGTON BOROUGH	Washington Boro - State Street between Lincoln and Grand	$ 240,000	Replace	1103	8.00	Ductile Iron	1890	4	CI	System Flows and Pressure	30	> 2025
5738	Northern Operating Area	WASHINGTON BOROUGH	W.Stuart Ave from Grand Ave to Lincoln Ave.	$ 300,000	Replace	1150	8.00	Ductile Iron	1890	4	CI	System Flows and Pressure	60	2024Q2
5747	Northern Operating Area	WASHINGTON BOROUGH	Gibson Place from Jackson Ave to Prosper Way	$ 221,000	Replace	1022	8.00	Ductile Iron	1960	6	CI	System Flows and Pressure	30	2024Q4
5748	Northern Operating Area	WASHINGTON BOROUGH	Prosper Way from Gibson Place to E. Washington Ave	$ 233,000	Replace	1366	8.00	Ductile Iron	1960	6	AC	System Flows and Pressure	20	2025Q3
5753	Northern Operating Area	WASHINGTON BOROUGH	McDonald Street from Warren St to end at 16" main	$ 260,700	Replace	1065	12.00	Ductile Iron	1930	6	CI	System Flows and Pressure	30	2023Q4
5755	Northern Operating Area	WASHINGTON BOROUGH	Van Burern St from Prosper Way until end	$ 149,000	Replace	762	8.00	Ductile Iron	1960	6	AC	System Flows and Pressure	60	2022Q4
5757	Northern Operating Area	WASHINGTON BOROUGH	Birchwood Ave from Washburn Ave to End	$ 80,500	Replace	463	8.00	Ductile Iron	1930	4	AC	System Flows and Pressure	30	2022Q4
6187	Northern Operating Area	WASHINGTON BOROUGH	NORTH WANDLING	$ 80,000	Replace	401	8.00	Ductile Iron	1890	6	CI	System Flows and Pressure	30	> 2025
6215	Northern Operating Area	WASHINGTON BOROUGH	CHRISTINE	$ 90,000	Replace	422	8.00	Ductile Iron	1930	6	AC	Safety and Reliability	30	> 2025
5743	Northern Operating Area	WASHINGTON TWP	Fisher Ave from Railroad Ave to Washburn Ave	$ 275,000	Replace	1349	8.00	Ductile Iron	1930	4	AC	Water Quality	60	2022Q4
5760	Northern Operating Area	WASHINGTON TWP	Washington Ave from Brass Castle Rd to Mill Pond Road	$ 725,000	Replace	2952	16.00	Ductile Iron	1950	8	CI	System Flows and Pressure	30	2022Q4
5761	Northern Operating Area	WASHINGTON TWP	Plane Hill Road from Partridge Run to Kinnaman Ave	$ 250,000	Replace	1187	8.00	Ductile Iron	1960	8	CI	System Flows and Pressure	30	2024Q4
6184	Northern Operating Area	WASHINGTON TWP	OLD SCHOOL HOUSE RD	$ 134,000	Replace	534	8.00	Ductile Iron	1960	2	GALV	System Flows and Pressure	30	2025Q3
6185	Northern Operating Area	WASHINGTON TWP	DOGWOOD LANE	$ 192,000	Replace	815	8.00	Ductile Iron	1870	2	CI	System Flows and Pressure	30	2023Q4
10715	Northern Operating Area	WATCHUNG BOROUGH	Valley Rd	$ 3,000,000	Replace	7591	20.00	Ductile Iron	1940	20	DI	Safety and Reliability/Structural	120	> 2025
10908	Central Operating Area	WATCHUNG BOROUGH	WATCHUNG BORO - Replace 8" with 16" on Route 22, from VWAT-235 to near VWAT-220	$ 64,750	Replace	185	16.00	Ductile Iron	1930	8	CI	System Flows and Pressure	30	> 2025
6069	Coastal Operating Area	WEST LONG BRANCH	West Long Branch - Maple Avenue on either side on Pinewood Avenue	$ 68,250	Replace	467	6.00	Ductile Iron	1950	2	CI	System Flows and Pressure	30	> 2025
6071	Coastal Operating Area	WEST LONG BRANCH	West Long Branch - Elmwood Avenue from Wall Street to north of Hollywood Avenue	$ 78,000	Replace	610	8.00	Ductile Iron	1950	2	GALV	System Flows and Pressure	4	> 2025
6146	Coastal Operating Area	WEST LONG BRANCH	West Long Branch - Woodland Drive	$ 118,500	Replace	753	8.00	Ductile Iron	1950	6	AC	System Flows and Pressure	60	2025Q4
10992	Coastal Operating Area	WEST LONG BRANCH	Larchwood Ave Main Replacement/Tie-Ins	$ 115,000	Replace	540	6.00	Ductile Iron	1950	2	CI	System Flows and Pressure	60	2025Q4
10993	Coastal Operating Area	WEST LONG BRANCH	Throckmorton Ave Main Replacement	$ 70,000	Replace	275	6.00	Ductile Iron	1920	2	CI	System Flows and Pressure	30	2025Q4
10994	Coastal Operating Area	WEST LONG BRANCH	Locust Ave Main Replacement	$ 987,500	Replace	2723	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	30	2025Q4

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10995	Coastal Operating Area	WEST LONG BRANCH	Dennis Place/Hasley Street/Lakeview Ave Main Repl	$ 456,000	Replace	1065	6.00	Ductile Iron	1920	2	CI	Safety and Reliability/Structural	60	2025Q4
10997	Coastal Operating Area	WEST LONG BRANCH	Martin Street Main Replacement	$ 145,000	Replace	558	6.00	Ductile Iron	1920	2	CI	System Flows and Pressure	60	2025Q4
11056	Coastal Operating Area	WEST LONG BRANCH	Norwood Ave to Mitchell Terrace Water Main Rehabilitation	$ 200,000	Rehab	489	18.00	Other	1920	18	CI	Safety and Reliability/Structural	30	2025Q4
49	Northern Operating Area	WEST ORANGE	West Orange - Mitchell St (bet Colony & Rollinson)	$ 330,000	Replace	321	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	30	2023Q2
153	Northern Operating Area	WEST ORANGE	West Orange Rehab - Phase 3 Replace	$ 247,500	Replace	2745	8.00	Ductile Iron	1940	6	CI	System Flows and Pressure	25	2023Q4
154	Northern Operating Area	WEST ORANGE	West Orange Rehab - Phase 4 Replace	$ 67,500	Rehab	4364	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2024Q4
155	Northern Operating Area	WEST ORANGE	West Orange Rehab - Phase 5 Replace	$ 326,250	Rehab	2969	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	30	2025Q4
6203	Northern Operating Area	WEST ORANGE	Fairview Ave from Birchwood Ave to Chestnut Rd	$ 245,000	Replace	1369	6.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	60	2024Q4
6206	Northern Operating Area	WEST ORANGE	St. Cloud Avenue, Chestnut Rd, Rodman Place, Sheridan Ave and Lenox Terrace	$ 1,807,500	Rehab	9102	6.00	Cast Iron	1920	6	CI	Water Quality	25	> 2025
6217	Northern Operating Area	WEST ORANGE	Rock Spring Avenue from Northfield Ave to Chestnut Road	$ 402,000	Replace	1819	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
6220	Northern Operating Area	WEST ORANGE	Devonshire Terrace from Mt. Pleasant Ave to end cap past Nottingham Rd	$ 197,000	Replace	1343	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	100	2025Q4
6225	Northern Operating Area	WEST ORANGE	Ahern Ave. (from Barton Dr. to end cap) and Barton Dr. (from Laurel Dr. to end cap)	$ 227,500	Replace	1170	6.00	Ductile Iron	1950	6	CI	System Flows and Pressure	30	2023Q2
6226	Northern Operating Area	WEST ORANGE	Sunnyside Rd from Pleasant Valley Way to end	$ 311,000	Replace	1854	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	> 2025
6227	Northern Operating Area	WEST ORANGE	Hover Ave from Pleasant Valley Way to end just past Roosevelt Ave	$ 190,000	Replace	838	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	5	2025Q4
6229	Northern Operating Area	WEST ORANGE	C&L Virginia Ave, Grant Terrace, Winfields St, Kirk St., Maple St. and Elm Street	$ 889,400	Rehab	4480	8.00	Other	1950	6	CI	Water Quality	120	> 2025
6905	Northern Operating Area	WEST ORANGE	WEST ORANGE - Belgrade Terr from Bradford Ave to Club Blvd	$ 300,000	Replace	1440	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	> 2025
6907	Northern Operating Area	WEST ORANGE	WEST ORANGE - Belle Terre Rd from Pleasant Valley Way to Coolidge Ave	$ 260,000	Replace	1287	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2024Q4
6908	Northern Operating Area	WEST ORANGE	WEST ORANGE - Brookside Rd from Fairway Dr to Gregory Ave	$ 380,000	Replace	1861	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	30	> 2025
6909	Northern Operating Area	WEST ORANGE	WEST ORANGE - Forest Hill Rd from Gregory Ave to Collamore	$ 500,000	Replace	1213	8.00	Ductile Iron	1920	6	CI	Safety and Reliability/Structural	60	2025Q4
6910	Northern Operating Area	WEST ORANGE	WEST ORANGE - Hunterdon Rd from Warren Rd to Merklin Ave	$ 500,000	Replace	1936	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	> 2025
6911	Northern Operating Area	WEST ORANGE	WEST ORANGE - Korwel Cir + Ct from Northfield Ave	$ 380,000	Replace	2048	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	90	2024Q3
6912	Northern Operating Area	WEST ORANGE	WEST ORANGE - Luddington Rd from Gregory Ave to Lowell Ave	$ 200,000	Replace	931	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	> 2025
6913	Northern Operating Area	WEST ORANGE	WEST ORANGE - Northfield Ave from Walker Rd to Main St	$ 2,000,000	Replace	8083	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2023Q4
6914	Northern Operating Area	WEST ORANGE	WEST ORANGE - Pleasant Valley Way from Eagle Rock Ave to I-280	$ 1,000,000	Replace	5284	8.00	Ductile Iron	1930	6	CI	Safety and Reliability/Structural	120	2023Q2
6920	Northern Operating Area	WEST ORANGE	WEST ORANGE - Randolph Pl from Mt Pleasant Ave to Longview St	$ 300,000	Replace	1436	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2023Q4
6922	Northern Operating Area	WEST ORANGE	WEST ORANGE - Seaman Rd + Deerfield Dr from Woodland Ave	$ 1,000,000	Replace	1710	8.00	Ductile Iron	1960	6	AC	Safety and Reliability/Structural	60	2023Q4
6923	Northern Operating Area	WEST ORANGE	WEST ORANGE - St. Cloud Ave From Old Indian Rd to Arverne Rd	$ 460,000	Replace	2059	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	90	2022Q4
6925	Northern Operating Area	WEST ORANGE	WEST ORANGE - Stone Dr from Blackstock Rd to Weber Rd	$ 460,000	Replace	1337	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	2025Q4
6927	Northern Operating Area	WEST ORANGE	WEST ORANGE - Sunnyside Rd from Pleasant Valley Way	$ 300,000	Replace	1545	8.00	Ductile Iron	1940	6	CI	Safety and Reliability/Structural	60	2023Q4
6928	Northern Operating Area	WEST ORANGE	WEST ORANGE - Undercliff Terr from Forest Hill Rd to Bradford Ave	$ 260,000	Replace	1223	8.00	Ductile Iron	1970	6	CI	Safety and Reliability/Structural	5	> 2025
6931	Northern Operating Area	WEST ORANGE	WEST ORANGE - Wellington Ave from Gregory Ave to Valley Rd	$ 400,000	Replace	2351	8.00	Ductile Iron	1940	8	CI	Safety and Reliability/Structural	90	2023Q4
6942	Northern Operating Area	WEST ORANGE	WEST ORANGE - Eagle Rock Ave from Mississippi to Smith Manor Blvd	$ 680,000	Replace	3511	8.00	Ductile Iron	2000	8	CI	Safety and Reliability	90	2025Q3
6943	Northern Operating Area	WEST ORANGE	WEST ORANGE - Eagle Rock Ave from Pleasant Valley Way to Oval Rd.	$ 935,000	Replace	3025	12.00	Ductile Iron	1930	6	CI	Safety and Reliability	90	2025Q3
10680	Northern Operating Area	WEST ORANGE	Gaston Street	$ 100,000	Replace	300	8.00	Ductile Iron	1940	4	CI	System Flows and Pressure	45	2022Q4
10842	Northern Operating Area	WEST ORANGE	St Cloud from Arvern to Northfield	$ 770,000	Replace	2652	8.00	Ductile Iron	1940	6	CI	Safety and Reliability	90	> 2025
10852	Northern Operating Area	WEST ORANGE	WEST ORANGE - Main Street from Valley Rd to HWO-48	$ 90,000	Replace	363	8.00	Ductile Iron	1890	4	CI	System Flows and Pressure	20	> 2025
10922	Northern Operating Area	WEST ORANGE	Undercliff Terr south	$ 150,000	Replace	513	8.00	Ductile Iron	1960	6	CI	Safety and Reliability/Structural	60	> 2025
10935	Northern Operating Area	WEST ORANGE	Birchwood Ave from Fairview south to dead end	$ 100,000	Replace	383	6.00	Ductile Iron	1930	8	CI	Water Quality	90	2023Q4
6	Central Operating Area	WEST WINDSOR TWP	West Windsor - Fisher Ave.	$ 98,400	Replace	703	8.00	Ductile Iron	1970	8	DI	Safety and Reliability/Structural	10	> 2025
7	Central Operating Area	WEST WINDSOR TWP	West Windsor - Washington RoadRoute 1 to Fairview 12" main	$ 297,000	Replace	2429	12.00	Ductile Iron	1970	8	DI	Safety and Reliability/Structural	1	2024Q4
8	Central Operating Area	WEST WINDSOR TWP	West Windsor - Wheeler Way	$ 238,500	Replace	1081	8.00	Ductile Iron	1950	6	CI	Safety and Reliability/Structural	60	2024Q4
410	Southern Operating Area	WESTAMPTON TWP	Westampton - Irick Road - Woodlane Road to Rancocas Road	$ 494,000	Replace	5602	16.00	Ductile Iron	1970	8	DI	Safety and Reliability/Structural	30	> 2025
411	Southern Operating Area	WESTAMPTON TWP	Westampton - Noryn Lane - Woodlane Road to Burlington-Mount Holly Road	$ 114,000	Replace	349	12.00	Ductile Iron	1950	10	AC	Safety and Reliability/Structural	30	> 2025

Id	District	Municipality	Project Title	NJAW Funded (Dollars)	Project Type	Proposed Length (ft)	Prop. Dia. (inches)	Proposed Pipe Material	Decade Installed	Ex. Dia. (inches)	Existing Pipe Material	Accelerated Asset Investment Category	Est. Project Duration (days)	Estimated In-Service Quarter
5505	Southern Operating Area	WESTAMPTON TWP	Westampton - Rancocas Road from Irick Road to Hydrant HWEA-76	$ 450,000	Replace	1914	16.00	Ductile Iron	1970	8	DI	System Flows and Pressure	60	> 2025
6841	Central Operating Area	WESTFIELD	Easement - Echo Lake CC (Woodland to Springfield)	$ 1,018,500	Replace	4049	16.00	Ductile Iron	1960	16	AC	Water Quality	30	2025Q4
6843	Central Operating Area	WESTFIELD	North Ave. (W. Dudley to 4th Ave.)	$ 2,460,000	Rehab	8208	12.00	Cast Iron	1900	12	CI	System Flows and Pressure	120	> 2025
646	Northern Operating Area	WOODLAND PARK	Clean & Line all unlined CI mains in Woodland Park due to fire flows and DW.	$ 4,012,000	Rehab	16472	6.00	Other	1940	6	CI	System Flows and Pressure	30	> 2025
5660	Northern Operating Area	WOODLAND PARK	McBride Av north end	$ 425,000	Replace	1869	8.00	Ductile Iron	1920	6	CI	System Flows and Pressure	60	2025Q3
			subtotal	**$ 403,877,245**										
			Unscheduled Mains	**$ 30,000,000**										
			Total	**$ 433,877,245**										

New Jersey - American Water Company Inc.
DSIC Foundational Filing
Scenario 1 - Including Post Test Year DSIC Eligible Additions

	DSIC Surcharge Filing #1	DSIC Surcharge Filing #2	DSIC Surcharge Filing #3	DSIC Surcharge Filing #4		
	7/1/2022 to 4/30/23	5/1/2023 to 10/31/2023	11/1/2023 to 4/30/2024	5/1/2024 to 10/31/2024	Total	
Total Proposed DSIC Additions	$ 155,391,673	$ 101,838,795	$ 101,838,795	$ 101,838,795	$ 460,908,058	
Less: Base Expenditures	(21,509,478)	(21,509,478)	(21,509,478)	(21,509,478)	(86,037,913)	
Eligible Investment (Qualified DSIC Additions to UPIS During DSIC Period)	133,882,195	80,329,317	80,329,317	80,329,317	374,870,145	(A)
Less: Accum Depr	(869,875)	(1,357,005)	(1,983,315)	(2,609,626)	(6,819,821)	(B)
Less: Deferred Tax	(285,914)	(446,026)	(651,884)	(857,742)	(2,241,565)	(C)
Eligible Net Investment (net DSIC Additions to UPIS During DSIC Period)	132,726,405	78,526,286	77,694,118	76,861,950	365,808,758	
Times Pre-Tax ROR	X 9.0040%	9.0040%	9.0040%	9.0040%	9.0040%	(D)
Pre-Tax Return on Investment	11,950,677	7,070,502	6,995,573	6,920,645	32,937,398	
Add: Depreciation	2,087,700	1,252,620	1,252,620	1,252,620	5,845,561	
Revenue Recovery	14,038,378	8,323,122	8,248,194	8,173,265	38,782,959	
Revenue Factor	$1.167013	$1.167013	$1.167013	$1.167013	$1.167013	(E)
Total DSIC Revenue Requirement Recovery Amount - Annual	16,382,975	9,713,195	9,625,753	9,538,311	45,260,234	
Undercollection from Prior Filing (Schedule B)					-	
DSIC Revenue Requirement Recovery Amount - Annual	16,382,975	9,713,195	9,625,753	9,538,311	45,260,234	
DSIC Revenue Requirement Recovery Amount - Monthly	**$1,365,248**	**$809,433**	**$802,146**	**$794,859**	**$3,771,686**	

UPIS ADDITIONS SUMMARY

(A) - Includes actual DSIC eligible projects closed to UPIS during DSIC Perioc

Asset Category	7/1/2022 to 4/30/23	5/1/2023 to 10/31/2023	11/1/2023 to 4/30/2024	5/1/2024 to 10/31/2024
Proposed DSIC Eligible Additions	133,882,195	80,329,317	80,329,317	80,329,317
Base Spend	21,509,478	21,509,478	21,509,478	21,509,478
Subtotal	**$155,391,673**	**$101,838,795**	**$101,838,795**	**$101,838,795**

(B) - Accumulated Depreciation:

	7/1/2022 to 4/30/23	5/1/2023 to 10/31/2023	11/1/2023 to 4/30/2024	5/1/2024 to 10/31/2024
DSIC Eligible projects closed to UPIS	$133,882,195	$80,329,317	$80,329,317	$80,329,317
Composite Depreciation rate	1.56%	1.56%	1.56%	1.56%
Annual Depreciation Expense	2,087,700	1,252,620	1,252,620	1,252,620
Cummulative Depreciation Expenses	869,875	1,357,005	1,983,315	2,609,626

(C) - Deferred Taxes:

DSIC Eligible projects closed to UPIS	$133,882,195	$80,329,317	$80,329,317	$80,329,317
MACRS rate	4.00%	4.00%	4.00%	4.00%
Annual Tax Depreciation	5,355,288	3,213,173	3,213,173	3,213,173
Cummulative Tax Depreciation	2,231,370	3,480,937	5,087,523	6,694,110
Less: Book Depreciation	869,875	1,357,005	1,983,315	2,609,626
Tax Depr Greater than Book	1,361,495	2,123,932	3,104,208	4,084,484
Deferred Taxes at 21%	$285,914	$446,026	$651,884	$857,742

(D) - Pre-Tax Rate of Return:

	Ratios	Cost Rate	Weighted Average Cost of Capital	Pre-Tax ROR
Long Term Debt	45.44%	3.86%	1.7523%	1.7523%
Common Equity	54.56%	10.50%	5.7288%	7.2516%
Subtotal Return on Rate Base	100.00%		7.4811%	9.0040%

(E) - Revenue Factor:

Dollar of Revenue	$1.000000	
Less: GRT Tax	(0.136367)	(proposed per WR22010019)
Less: Bad Debts	(0.004060)	(proposed per WR22010019)
Less: BPU Assessment	(0.002154)	(per 2021 recent assessment)
Less: DRC Assessment	(0.000531)	(per 2022 recent assessment)
Revenue remaining after taxes, bad debts, and assessments	0.856888	
Revenue [Gross-up] Factor	$1.167013	

(F)- Revenue Requirement:

Please note that the revenue requirement is limited by the DSIC-cap. For example if the Company's annual revenues established in their last base rate case were $100,000,000, then the DSIC-cap would be calculated as follows:

Total annual revenues from most recent base rate case of $100,000,000 X 5.00% = $5,000,000

The Company's revenue requirement in the above example can not be greater than $5,000,000 per year.

Monthly cost per 5/8th Inch Meter - Typical Residential Customer -	**3.81**
DSIC Revenue as a % of total Water Revenue $905,204,685	**5.00%**

New Jersey - American Water Company Inc.
DSIC Foundational Filing
Scenario 2 - Excluding Post Test Year DSIC Eligible Additions

		DSIC Surcharge Filing #1 1/1/2023 to 4/30/23	DSIC Surcharge Filing #2 5/1/2023 to 10/31/2023	DSIC Surcharge Filing #3 11/1/2023 to 4/30/2024	DSIC Surcharge Filing #4 5/1/2024 to 10/31/2024	Total	
Total Proposed DSIC Additions		$ 74,782,178	$ 128,054,878	$ 128,054,878	$ 128,054,878	$ 458,946,813	
Less: Base Expenditures		(21,509,478)	(21,509,478)	(21,509,478)	(21,509,478)	(86,037,913)	
Eligible Investment (Qualified DSIC Additions to UPIS During DSIC Period)		53,272,700	106,545,400	106,545,400	106,545,400	372,908,900	(A)
Less: Accum Depr		(103,839)	(830,711)	(1,661,422)	(2,492,134)	(5,088,106)	(B)
Less: Deferred Tax		(34,130)	(273,041)	(546,083)	(819,124)	(1,672,378)	(C)
Eligible Net Investment (net DSIC Additions to UPIS During DSIC Period)		53,134,731	105,441,648	104,337,895	103,234,143	366,148,416	
Times Pre-Tax ROR	X	9.0040%	9.0040%	9.0040%	9.0040%	9.0040%	(D)
Pre-Tax Return on Investment		4,784,248	9,493,959	9,394,578	9,295,196	32,967,980	
Add: Depreciation		830,711	1,661,422	1,661,422	1,661,422	5,814,978	
Revenue Recovery		5,614,959	11,155,382	11,056,000	10,956,618	38,782,959	
Revenue Factor		$1.167013	$1.167013	$1.167013	$1.167013	$1.167013	(E)
Total DSIC Revenue Requirement Recovery Amount - Annual		6,552,733	13,018,480	12,902,501	12,786,521	45,260,234	
DSIC Revenue Requirement Recovery Amount - Monthly		**$546,061**	**$1,084,873**	**$1,075,208**	**$1,065,543**	**$3,771,686**	

UPIS ADDITIONS SUMMARY

(A) - Includes actual DSIC eligible projects closed to UPIS during DSIC Period

Asset Category	**1/1/2023 to 4/30/23**	**5/1/2023 to 10/31/2023**	**11/1/2023 to 4/30/2024**	**5/1/2024 to 10/31/2024**
Proposed DSIC Eligible Additions	53,272,700	106,545,400	106,545,400	106,545,400
Base Spend	21,509,478	21,509,478	21,509,478	21,509,478
Subtotal	**$74,782,178**	**$128,054,878**	**$128,054,878**	**$128,054,878**

(B) - Accumulated Depreciation:

	1/1/2023 to 4/30/23	5/1/2023 to 10/31/2023	11/1/2023 to 4/30/2024	5/1/2024 to 10/31/2024
DSIC Eligible projects closed to UPIS	$53,272,700	$106,545,400	$106,545,400	$106,545,400
Composite Depreciation rate	1.56%	1.56%	1.56%	1.56%
Annual Depreciation Expense	830,711	1,661,422	1,661,422	1,661,422
Cummulative Depreciation Expenses	103,839	830,711	1,661,422	2,492,134

(C) - Deferred Taxes:

DSIC Eligible projects closed to UPIS	$53,272,700	$106,545,400	$106,545,400	$106,545,400
MACRS rate	4.00%	4.00%	4.00%	4.00%
Annual Tax Depreciation	2,130,908	4,261,816	4,261,816	4,261,816
Cummulative Tax Depreciation	266,364	2,130,908	4,261,816	6,392,724
Less: Book Depreciation	103,839	830,711	1,661,422	2,492,134
Tax Depr Greater than Book	162,525	1,300,197	2,600,394	3,900,590
Deferred Taxes at 21%	$34,130	$273,041	$546,083	$819,124

(D) - Pre-Tax Rate of Return:

	Ratios	Cost Rate	Weighted Average Cost of Capital	Pre-Tax ROR	
Long Term Debt	45.44%	3.86%	1.7523%	1.7523%	
Common Equity	54.56%	10.50%	5.7288%	7.2516%	
Subtotal Return on Rate Base	100.00%		7.4811%	9.0040%	As filed

(E) - Revenue Factor:

Dollar of Revenue	$1.000000	
Less: GRT Tax	(0.136367)	(proposed per WR22010019)
Less: Bad Debts & Reg Assessments	(0.004060)	(proposed per WR22010019)
Less: BPU Assessment	(0.002154)	(per 2021 recent assessment)
Less: DRC Assessment	(0.000531)	(per 2022 recent assessment)
Revenue remaining after taxes, bad debts, and assessments	0.856888	
Revenue [Gross-up] Factor	$1.167013	

(F)- Revenue Requirement:

Please note that the revenue requirement is limited by the DSIC-cap. For example if the Company's annual revenues established in their last base rate case were $100,000,000, then the DSIC-cap would be calculated as follows:

Total annual revenues from most recent base rate case of $100,000,000 X 5.00% = $5,000,000

The Company's revenue requirement in the above example can not be greater than $5,000,000 per year.

Monthly cost per 5/8th Inch Meter - Typical Residential Customer -	**3.81**
DSIC Revenue as a % of total Water Revenue $905,204,685	**5.00%**

Composite Depreciation Rate for DSIC

Based on 2021 BPU Report

UPIS Account	NARUC Account	Balance	Weight	Depreciation Rate	Weighted Rate
TD Mains Not Classified		$569,759,358	16.38%	0.80%	0.131%
TD Mains 4in & Less		78,770,969	2.27%	2.76%	0.063%
TD Mains 6in to 8in		1,017,581,064	29.26%	1.64%	0.480%
TD Mains 10in to 16in		619,095,637	17.80%	1.11%	0.198%
TD Mains 18in & Greater		305,105,291	8.77%	1.26%	0.111%
Subtotal - T&D Mains	343	2,590,312,319	74.48%		0.982%
Services	345	700,982,021	20.16%	2.09%	0.421%
Hydrants	348	186,361,059	5.36%	2.92%	0.156%
Total		3,477,655,399	100.00%		1.559%

Calculation of Base Spend

Depreciation Group	Depreciation Account	(a) Depreciation 2021 BPU Report	(b) 2021 CIAC Amortization	(c= a+b) Net Depreciation	(d) Percentage* DSIC Eligible Depreciation	(e= c*d) Total Base Spend
TD Mains Not Classified		$4,374,114				
TD Mains 4in & Less		1,608,904				
TD Mains 6in to 8in		15,952,550				
TD Mains 10in to 16in		6,503,157				
TD Mains 18in & Grtr		3,539,537				
Subtotal - T&D Mains	343	$31,978,263	($4,752,425)	$27,225,838	100.00%	$27,225,838
Services	345	13,993,371	(258,405)	13,734,966	78.88%	10,833,637
Hydrants	348	5,267,377	(102,408)	5,164,969	96.02%	4,959,481
Total		$51,239,011	($5,113,238)	$46,125,773		$43,018,956

* - Percentage DSIC Eligible depreciation based on 5 year average of DSIC additions

5 YEAR AVERAGE DSIC PERCENTAGE

SERVICES	**78.88%**	**HYDRANTS**	**96.02%**

2021

SERVICES		HYDRANTS	
DSIC Eligible B Line	12.79%	DSIC Eligible B Line	37.64%
DSIC Eligible C Line	0.14%	DSIC Eligible C Line	0.77%
DSIC Eligible F Line	1.44%	DSIC Eligible F Line	65.85%
DSIC Eligible H Line	45.71%	DSIC Eligible H Line	0.00%
Sub-Total DSIC Eligible	60.08%	**Sub-Total DSIC Eligible**	104.26%
Non-DSIC Eligible	39.92%	Non-DSIC Eligible	-4.26%
	100.00%		100.00%

2020

SERVICES		HYDRANTS	
DSIC Eligible B Line	20.62%	DSIC Eligible B Line	25.84%
DSIC Eligible C Line	-0.04%	DSIC Eligible C Line	0.09%
DSIC Eligible F Line	1.32%	DSIC Eligible F Line	62.25%
DSIC Eligible H Line	63.06%	DSIC Eligible H Line	-0.01%
Sub-Total DSIC Eligible	84.95%	**Sub-Total DSIC Eligible**	88.16%
Non-DSIC Eligible	15.05%	Non-DSIC Eligible	11.84%
	100.00%		100.00%

2019

SERVICES		HYDRANTS	
DSIC Eligible B Line	29.56%	DSIC Eligible B Line	43.15%
DSIC Eligible C Line	0.28%	DSIC Eligible C Line	0.00%
DSIC Eligible F Line	1.19%	DSIC Eligible F Line	55.76%
DSIC Eligible H Line	55.53%	DSIC Eligible H Line	-0.10%
Sub-Total DSIC Eligible	86.55%	**Sub-Total DSIC Eligible**	98.82%
Non-DSIC Eligible	13.45%	Non-DSIC Eligible	1.18%
	100.00%		100.00%

2018

SERVICES		HYDRANTS	
DSIC Eligible B Line	19.63%	DSIC Eligible B Line	24.58%
DSIC Eligible C Line	0.14%	DSIC Eligible C Line	0.07%
DSIC Eligible F Line	0.18%	DSIC Eligible F Line	70.91%
DSIC Eligible H Line	56.43%	DSIC Eligible H Line	0.09%
Sub-Total DSIC Eligible	76.37%	**Sub-Total DSIC Eligible**	95.64%
Non-DSIC Eligible	23.63%	Non-DSIC Eligible	4.36%
	100.00%		100.00%

2017

SERVICES		HYDRANTS	
DSIC Eligible B Line	20.26%	DSIC Eligible B Line	23.04%
DSIC Eligible C Line	0.14%	DSIC Eligible C Line	0.00%
DSIC Eligible F Line	1.05%	DSIC Eligible F Line	70.75%
DSIC Eligible H Line	64.98%	DSIC Eligible H Line	-0.57%
Sub-Total DSIC Eligible	86.43%	**Sub-Total DSIC Eligible**	93.22%
Non-DSIC Eligible	13.57%	Non-DSIC Eligible	6.78%
	100.00%		100.00%

Monthly DSIC Charge Based on Meter Size and % Increase (B)

Meter Size	5/8" Equivalent (A)	0.50%	1.00%	1.50%	2.00%	3.00%	4.00%	5.00%
5/8	**1.0**	$0.38	$0.76	$1.14	$1.52	$2.28	$3.05	$3.81
3/4	**1.5**	$0.57	$1.14	$1.71	$2.28	$3.43	$4.57	$5.71
1	**2.5**	$0.95	$1.90	$2.86	$3.81	$5.71	$7.62	$9.52
1-1/2	**5.0**	$1.90	$3.81	$5.71	$7.62	$11.42	$15.23	$19.04
2	**8.0**	$3.05	$6.09	$9.14	$12.18	$18.28	$24.37	$30.46
3	**15.0**	$5.71	$11.42	$17.13	$22.85	$34.27	$45.69	$57.12
4	**25.0**	$9.52	$19.04	$28.56	$38.08	$57.12	$76.15	$95.19
6	**50.0**	$19.04	$38.08	$57.12	$76.15	$114.23	$152.31	$190.39
8	**80.0**	$30.46	$60.92	$91.39	$121.85	$182.77	$243.69	$304.62
10	**100.0**	$38.08	$76.15	$114.23	$152.31	$228.46	$304.62	$380.77
12	**125.0**	$47.60	$95.19	$142.79	$190.39	$285.58	$380.77	$475.96
16	**200.0**	$76.15	$152.31	$228.46	$304.62	$456.93	$609.23	$761.54

(A) Based on American Water Works Association ("AWWA") flow rates. A 5/8-inch meter is equivalent to one (1)unit, whereas a 1-inch meter is equivalent to 2.5 units based on the amount of water that will flow through the meter size.

(B) Please note that the DSIC surcharge will be implemented on a monthly basis, after the approval of the Foundational Filing; the completion of approved projects that are providing utility service to the customer; and the submission of the semi-annual filing documenting the completion, location, timing, and cost of the individual project. The maximum surcharge is 5.0%; however the surcharge will be implemented in semi-annual increments as the approved projects are placed in service.

New Jersey - American Water Company Inc.
DSIC Foundational Filing

DSIC SURCHARGE BILL IMPACT

NEW JERSEY-AMERICAN WATER COMPANY

BASIS FOR ALLOCATING METER COSTS TO CUSTOMER CLASSIFICATIONS

Meter Size	5/8" Equivalent	GMS Number of Meters*	GMS Weighting	Resale Number of Meters*	Resale Weighting	Exempt Number of Meters*	Exempt Weighting**	Total Number of Meters*	Total Weighting
5/8	1.0	566,382	566,382	2	2	10	9	566,394	566,393
3/4	1.5	17,840	26,760	0	0	2	3	17,842	26,763
1	2.5	4,407	11,018	0	0	4	9	4,411	11,027
1-1/2	5.0	44,850	224,250	0	0	0	0	44,850	224,250
2	8.0	12,429	99,432	1	8	7	48	12,437	99,488
3	15.0	951	14,265	4	60	2	26	957	14,351
4	25.0	920	23,000	16	400	8	173	944	23,573
6	50.0	211	10,550	22	1,100	1	43	234	11,693
8	80.0	88	7,040	12	960	2	138	102	8,138
10	100.0	36	3,600	2	200	4	345	42	4,145
12	125.0	3	375	1	125	2	216	6	716
16	200.0	0	0	0	0	0	0	0	0
Total		648,117	986,672	60	2,855	42	1,010	648,219	990,537
									(c)

*Meter Count as of 2/28/22
**Weighting deducts impact of GRAFT

PROOF OF REVENUE (Monthly Charge)

Annual Revenue @ 5% cap	$45,260,234	*(a)*
Monthly Revenue	$3,771,686	*(b)= (a)/12*
Weighted No of Meters	990,537	*(c)*
5/8"Meter Monthly Charge	$3.81	*(d)=(b)/(c)*

Meter Size	5/8" Equivalent	GMS Charge	GMS Charge x Meters	Resale Charge	Resale Charge x Meters	Exempt Charge	Exempt Charge x Meters	Total Revenue
5/8	1.0	$3.81	$2,156,623.29	$3.81	$7.62	$3.29	$32.90	$2,156,663.81
3/4	1.5	5.71	101,894.55	5.71	0.00	4.93	9.86	101,904.41
1	2.5	9.52	41,951.54	9.52	0.00	8.22	32.88	41,984.42
1-1/2	5.0	19.04	853,880.90	19.04	0.00	16.44	0.00	853,880.90
2	8.0	30.46	378,609.08	30.46	30.46	26.31	184.17	378,823.71
3	15.0	57.12	54,317.11	57.12	228.46	49.33	98.66	54,644.23
4	25.0	95.19	87,577.53	95.19	1,523.09	82.21	657.68	89,758.30
6	50.0	190.39	40,171.43	190.39	4,188.49	164.42	164.42	44,524.34
8	80.0	304.62	26,806.34	304.62	3,655.41	263.08	526.16	30,987.91
10	100.0	380.77	13,707.79	380.77	761.54	328.85	1,315.40	15,784.73
12	125.0	475.96	1,427.89	475.96	475.96	411.06	822.12	2,725.98
16	200.0	761.54	0.00	761.54	0.00	657.69	0.00	0.00
Total			$3,756,967.45		$10,871.04		$3,844.25	$3,771,682.74

Note (a)

Base Water Revenue (proposed per WR22010019)		$867,255,733
Total PWAC Revenue per WR21111220		37,948,952
Subtotal		$905,204,685
	5% Cap	$45,260,234

NOTICE OF PUBLIC HEARING

NEW JERSEY-AMERICAN WATER COMPANY, INC.
NOTICE OF FILING OF A PETITION FOR APPROVAL OF A
DISTRIBUTION SYSTEM IMPROVEMENT CHARGE
BPU Docket No. WR2203XXXX

PLEASE TAKE NOTICE that on March 31, 2022, New Jersey-American Water Company, Inc. (the "Company"), pursuant to N.J.A.C. 14:9-10.1 et seq., filed a petition with the Board of Public Utilities (the "Board" or "BPU") of the State of New Jersey seeking approval of a Foundational Filing to implement a Distribution System Improvement Charge ("DSIC"). A DSIC is a rate recovery mechanism to encourage and support accelerated rehabilitation and replacement of certain non-revenue producing, critical water distribution components. Such projects include main replacement and renewal, structural and non-structural main cleaning and lining projects, and the renewal of valves, hydrants and service connections. Its purpose is to enhance safety, reliability, water quality, systems flows and pressure, and/or conservation. A DSIC rate is interim, subject to refund, until the subsequent base rate case.

The Company's petition consists of a Foundational Filing. The Foundational Filing lists the projects the Company believes are eligible for recovery through the DSIC surcharge for the period of 2022 through 2025. Please note that the Company proposes to collect a maximum DSIC revenue requirement of $45.2M annually, or no more than 5.0% of the utility's total water revenues established in the Company's most recent base rate case. The Company will implement the DSIC surcharge if, and when, it achieves specific levels of infrastructure investment and completes and places the facilities into service as required by N.J.A.C. 14:9-10.1 et seq.

PLEASE TAKE FURTHER NOTICE that virtual public comment hearings on the Company's petition have been scheduled as follows:

Month __, 2022
4:30 PM

- The call in number is as follows: **1-646-828-7666**.
- Upon calling in, participants will be prompted to enter the meeting ID of **[_____]** and press the pound or hashtag button (#).
- Press the pound or hashtag button (#) a second time (in response to the second electronic prompt).
- Participants will then be prompted to enter the password for the public meeting of **[_____]** and press the pound or hashtag button (#)
- Participants will then be entered into the waiting room where the Office of Administrative Law ("OAL") Internet Technology ("IT") staff will admit the caller into the public hearing. Participants should mute their phones to prevent background noise. Failure to mute your own line may cause OAL IT staff to mute the participant and the participant will have to disconnect and call back in to participate in the public discussion portion.

Month __, 2022
5:30 PM

- The call in number is as follows: **1-646-828-7666**.
- Upon calling in, participants will be prompted to enter the meeting ID of **[_____]** and press the pound or hashtag button (#).
- Press the pound or hashtag button (#) a second time (in response to the second electronic prompt).
- Participants will then be prompted to enter the password for the public meeting of **[_____]** and press the pound or hashtag button (#)
- Participants will then be entered into the waiting room where the Office of Administrative Law ("OAL") Internet Technology ("IT") staff will admit the caller into the public hearing. Participants should mute their phones to prevent background noise. Failure to mute your own line may cause OAL IT staff to mute the participant and the participant will have to disconnect and call back in to participate in the public discussion portion.

A Hearing Officer designated by the Board will preside over the virtual public comment hearings. Members of the public are invited to participate and express their views on the proposed DSIC mechanism. Such comments will be made a part of the final record in the proceeding. Whether or not you attend the virtual public hearings, written comments may be submitted to Hon. Carmen Diaz, Acting Secretary, Board of Public Utilities, 44 S. Clinton Avenue, 9th Floor, Trenton, NJ 08625-0350, or emailed to board.secretary@bpu.nj.gov. Please include BPU Docket Number WR22_____ in your comment letter. Written comments will be provided the same weight as statements made at the hearings.

IN ORDER TO ENCOURAGE FULL PARTICIPATION IN THIS OPPORTUNITY FOR VIRTUAL PUBLIC COMMENT, PLEASE SUBMIT ANY REQUESTS FOR NEEDED ACCOMMODATIONS, INCLUDING INTERPRETERS OR VISUAL OR AUDITORY ASSISTANCE, TO THE COMPANY 48 HOURS PRIOR TO THIS HEARING TO DENISE FREE, DIRECTOR OF COMMUNICATIONS AND EXTERNAL AFFAIRS, NJAWC, 856-955-4874, DENISE.FREE@AMWATER.COM.

The Company has proposed that the monthly DSIC surcharge be assessed to the following services and classes of customers based on the customer's meter size: General Metered Service; Optional Industrial Wholesale; and Sales for Resale, as provided throughout the State of New Jersey. The maximum proposed rates shown below are expected to be assessed incrementally over a two-to-three year period, commensurate 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 class or classes, group or groups of customers, may exclude from any increase any of the foregoing, or may vary the amount of percentage increase applicable to any of the foregoing. The maximum proposed monthly DSIC rates are contained in the petition filed with the Board, as set forth below. These proposed rates are estimates and may change, however the maximum annual DSIC revenue requirement, $45.2M, cannot be exceeded.

PROPOSED DSIC SURCHARGE RATES BASED ON
METER SIZE and % INCREASE

General Metered Service
Maximum Monthly DSIC Surcharge:

Size of Meter	5/8" Equivalent*	Proposed Rates
5/8	1.0	$3.81
3/4	1.5	$5.71
1	2.5	$9.52
1-1/2	5.0	$19.04
2	8.0	$30.46
3	15.0	$57.12
4	25.0	$95.19
6	50.0	$190.39
8	80.0	$304.62
10	100.0	$380.77
12	125.0	$475.96
16	200.0	$761.54

*Based on American Water Works Association flow rates. A 5/8" meter is equivalent to one unit, whereas a 1-inch meter is equivalent to 2.5 units based on the amount of water that will flow through the meter size.

Notice of this filing was served upon the clerk, executive or administrator of each municipality and county within the Company's service areas. Such notice has also been served, together with the Verified Petition and all exhibits, upon the Director of the Division of Rate Counsel, who will represent the interests of ratepayers in this proceeding. Any members of the public who wish to inspect the petition at the Board should contact the Board's Division of Case Management at 609-292-0806 or board.secretary@bpu.nj.gov. Copies of the Verified Petition and all exhibits are also available for inspection at the Company's office at 1 Water Street, Camden, NJ, and can also be found on the Company's website at www.newjerseyamwater.com by first selecting Customer Service and Billing and then Your Water and Wastewater Rates.

NEW JERSEY-AMERICAN WATER COMPANY, INC

BY: MARK MCDONOUGH
PRESIDENT

NEW JERSEY AMERICAN WATER COMPANY
1 Water Street
Camden, New Jersey 08102

Pre-stressed Concrete Cylinder Pipe Issue
Update of February 2022

Background

NJAWC has approximately 200 miles of Pre-stressed Concrete Cylindrical Pipe (PCCP) mains representing approximately 2% of the company's total 9,200 miles of mains. About 140 miles or 67% of NJAWC's PCCP mains are in the Raritan System, mostly located within Somerset and Union County as well as portions of Mercer and Middlesex Counties. PCCP has been a standard pipe material used in the water industry since 1942 and offered a cost-effective option for large diameter mains, mostly 16 inch or larger. The pipe is manufactured using a steel cylinder, pre-stressed wires and layers of concrete. The pipe strength comes from the pre-stressed wires. See figure 1.

Issue

The predominant failure mechanism for these mains is via the corrosion of the pre-stressed wires which, when of significant occurrence, results in the bursting of the pipe causing a sudden pressure loss. Leaks are generally not observed on these mains (other than fittings or appurtenances) and thus the failure can occur without visible warning. PCCP pipe installed in the late 60s through the late 70s is now of concern as it is approaching 50 years of service life, particularly those of the Embedded PCCP type. The industry standard for PCCP changed during the 1960-70s. The higher strength pre-stressed wire is subject to embrittlement, more susceptible to premature external corrosion, and less tolerant of internal transient pressure surges. See figure 2.

Approximately one third of NJAWC's 200 miles of PCCP mains were installed during this period (26% in 60s and 6.5% in 70s). In particular, PCCP mains manufactured from 1968 through 1979 with class IV wire have been cited in industry studies to have higher failure rates. See figure 3. NJAWC has identified more than 80,000 lineal feet of these mains. Approximately 80% of the PCCP is 30-inches in diameter or larger, ranging from 30-inch to 72-inch mains and approximately 21% (or 36 miles) of the larger diameter pipes were installed between the 60s and 70s.

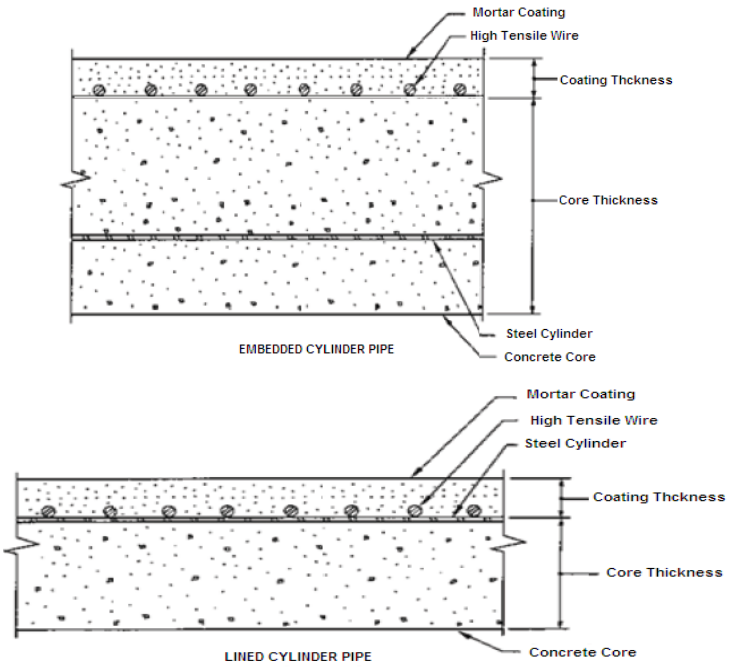


Figure 1. Cross Section of Embedded and Lined PCCP

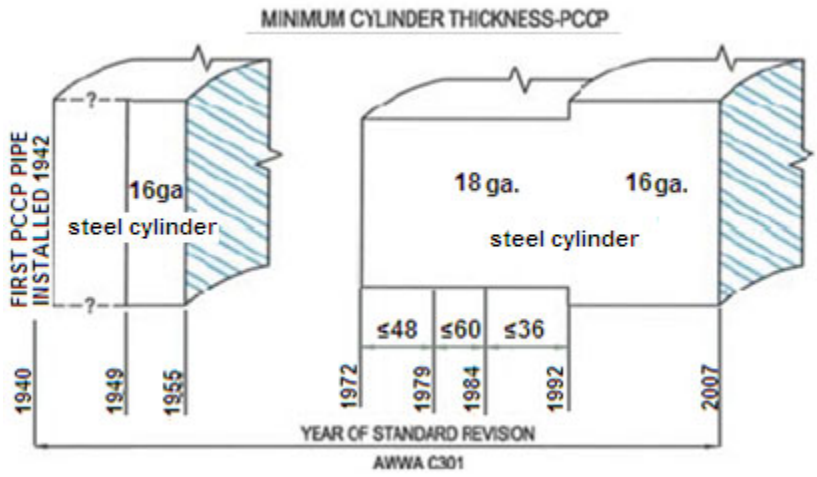


Figure 2. AWWA Standards for Steel Cylinders used in PCCP Manufacturing

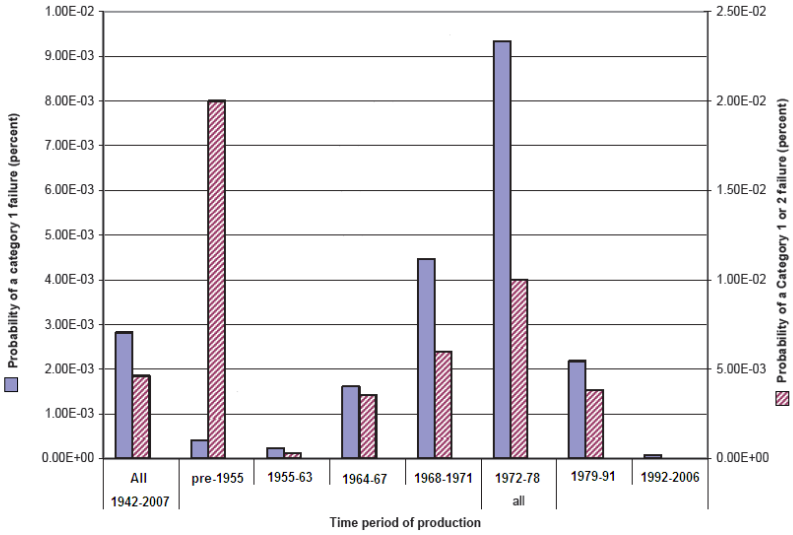
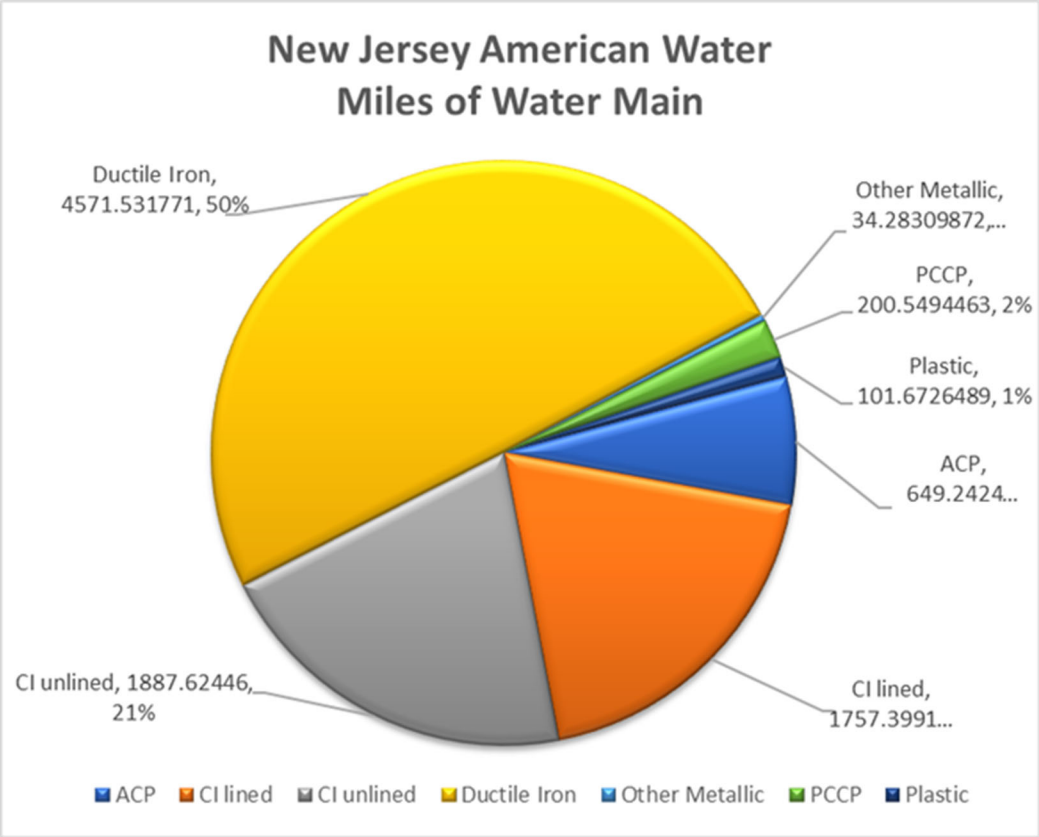


Figure 3. Probability of Failures in Industry for PCCP by Production Decade (AWWA study)

PCCP Distribution by NJAW Operating Area

Operating Area	Length of PCCP (in miles)
North	14
Central	141
Coastal	29
Southwest	26
Total	**210**



Approach

NJAWC's condition assessment (CA) plan for its PCCP mains includes utilizing electromagnetic technology to measure the occurrence of breaks of the pre-stressed wires and a less invasive method measuring the PCCP relative pipe stiffness (RPS) to qualitatively indicate condition of the pipe with certain distance (100 – 300-foot lengths). The electromagnetic technology is more discrete and reveals pipe condition to within a pipe length (15 -20 feet). The electromagnetic technology was successfully deployed on 10,000 lineal feet of 48-inch main in Scotch Plains in early 2013. Four sections of a main were replaced following this inspection. Based on results of this inspection, the same technology was used to cover the remainder portions of this 48-inch main in Scotch Plains.

The electromagnetic technology was once again successfully implemented in 2017 (37,283 lineal feet) and 2019 (16,693 lineal feet) to assess a total length of 53,976 lineal feet (approx. 10.25 miles) of 60" PCCP main from Bridgewater to Edison. Four sections of main were replaced following the 2017 phase of Condition Assessment (CA,) approximately 90 feet. Acoustic leak detection was also used on both projects.

While the marketplace continues to bring new monitoring and inspection technologies to the industry related to the evaluating the remaining useful life of these mains, NJAWC is committed to an ongoing

evaluation of condition assessment of its PCCP assets through the utilization of available and practical inspection technologies that yield meaningful results.

NJAWC has identified a list of candidate PCCP mains to be inspected and has implemented an ongoing inspection program that is based on the year of PCCP main criticality, year of installation, and history of failure and/or leaks. As each main is inspected and its current condition assessed, if any sign of failure is discovered NJAWC will implement an appropriate remedial action, which may include replacement, structural lining, or specific repairs based on the condition assessment of the main. See Table 1 for candidate list. Due to the criticality of most of these mains, NJAW schedules the necessary inspections and repairs or renewals (if necessary) when system demands provide a window of opportunity to remove the asset of interest from service.

NJAWC's philosophy is to take proactive measures in the condition assessment of these valuable critical assets and remedy any discovered deficiencies as to minimize future and potentially catastrophic emergencies. The DSIC program affords this approach, and its continuation is invaluable.

Schedule

NJAWC proposes to conduct prioritized PCCP transmission mains condition assessment on a five year schedule and repeat the evaluation on frequency not to exceed five years for the most critical mains. NJAW considers any main larger than 20 inch critical as critical. Based on the inventory of prioritized PCCP mains (70 miles), NJAWC estimates the need to perform pipe surveys and condition assessments of approximately 14 miles annually.

Cost

The cost for the survey and condition assessment based on a five-year schedule is estimated to be from $1 million to $2 million annually. NJAWC conservatively estimates that approximately 5% of prioritized mains will require replacement or structural lining. It is difficult to estimate the replacement cost of any large diameter pipe with certainty as much is dependent on its size, access, and local constraints of the transmission main. Assuming a uniform replacement of 5% for each prioritized main, the annual replacement or rehabilitation capital requirement is estimated to be approximately $5 million.

NJAWC anticipates a capital requirement of approximately $7 million annually to effectively implement and carry the PCCP and other large diameter Strategy as presented herein.

While the focus of this strategy is to deal with PCCP transmission mains and deservingly as such, there are other large and critical transmission mains that deserve attention. These transmission mains are Cast Iron or Steel pipes constructed several decades ago and deserve some attention in determining their current condition and performance. In Table 1, NJAWC has compiled a list of prioritized PCCP and other critical transmission mains to be surveyed and condition assessed. The list was prepared based on the pipe class (for PCCP) and/or its criticality to the system it serves. In total, the prioritized mains account for approximately 97 miles.

Condition Assessment Results

Recently completed condition assessment results are enumerated and immediately follow:

Project ID 1 – 2021 Condition Assessment of Swimming River Discharge Piping

The 30" PCCP transmission main, installed in 1964, is the Swimming River Water Treatment Plant discharge main into Monmouth Main Pressure Gradient. This transmission main was condition assessed in 2021 for a total distance of 4.6 miles along Swimming River Road in Tinton Falls. The condition assessment (CA) report was received from Pure Technology during the week of March 21, 2022 and is under review by the Company's engineering and operations departments. It is noted that this is the second CA on this transmission main; the first CA was conducted circa 2015.

Project ID 2 - 2019 assessment 60" from RM to Oak Tree

The 60" PCCP Transmission main from RM to Oak Tree was inspected in 2017 and 2019 (project transition was in Piscataway along Stelton Rd). Originally installed in the 1960's, the 60" transmission main stretching from Stelton Rd in Piscataway to NJAWC's Oak Tree Station in Edison (approximately 20,600 LF, 3.91 miles) was inspected in 2019 utilizing both acoustic Smart-Ball and electromagnetic technologies. This was a continuation of the condition assessment project undertaken in 2017. The acoustic smart ball was able to detect two distinct leaks along the main, which were repaired shortly following the inspection. The electromagnetic technology was able to identify several sections of interest along the main showing a small number of broken wires in some sections of the PCCP main. However, no critically compromised sections of pipe were identified along this length of main that required immediate or priority attention. Pure Technologies, the electromagnetic consultant provided some recommendations on specific pieces of pipe to watch for future issues and recommends re-inspection of the main in 3-5 years. Due to an unrelated concern regarding the depth of the PCCP and excessive external loads beyond its original design loads in the vicinity of the railroad easement and municipal landfill (South Plainfield), the Company opted to provide carbon-fiber reinforcement (approximately 3,600') in the vicinity that addressed both the external loads issue as well as the wire breaks discovered in the section of the pipe in the same vicinity. Additional pipeline rehabilitation work is underway in 2022 along the railroad easement in Piscataway Township.

Project ID 6 - 2021 assessment 48" PCCP in Linden

Originally installed in the 1950's, the 48" PCCP transmission main through Linden, Union County, NJ was selected to have leak detection and condition assessment performed. The 48" PCCP main runs along Lower Rd. from just east of Avenue C @ valve VLN 2857 in a westerly direction to Barnet Street, then left on Wall Street to a dead end and then crosses the Rahway River with the inspection terminating in the Rahway DWP yard between Edgewood Street and Hart Street Rahway NJ. The run was +/-7,000 LF, approx. 1.5 miles that was inspected in 2021 utilizing both acoustic technology for leak detection "Smart Ball" and electromagnetic technology for condition assessment "Pipe Diver." The acoustic smart ball technology detected no distinct leaks along the main inspected. The electromagnetic technology identified no broken wires and yielded no critical or compromised sections of pipe along this length of main. No additional replacement or rehab of this main was identified as a result of the 2021 condition

assessment. Pure Technologies provided some recommendations on specific pipe sections to watch in the future and recommends reinspecting the main in 2025-2027.

Table 1 – PCCP and other critical transmission mains candidate list for condition assessment

ID	System	Transmission Name	Diameter inches	Estimated Year Installed	Total Lineal Footage	Municipal (Origin)	Municipal (Terminus)
1	COASTAL NORTH	SRWTP Discharge - South	30	1964	24,200	Tinton Falls	Tinton Falls
2	RARITAN	RM Plant East to Oak Tree Station	60	1965	57,900	Bridgewater	Edison
3	RARITAN	River Road (Frenchies) to Tyler St. Booster	48	1956	25,000	Middlesex	South Plainfield
4	RARITAN	Tyler St. Booster to Wood Ave @ Rt 27	48	1956	30,000	South Plainfield	Edison
5	RARITAN	From Wood Ave following Rt 27 to Randolph Rd IC	48	1956	24,000	Edison	Woodbridge
6	RARITAN	Rahway DPW Yard to Lower Rd near CONOCOPHILLIPS	48	TBD	6,200	Woodbridge	Linden
7	RARITAN	N. Stiles St to Alpha Wire IC (City of Newark)	48	TBD	12,600	Linden	Linden
8	RARITAN	Easement between Lower Road and S. Wood Ave	36	TBD	5,200	Linden	Linden
9	RARITAN	From S. Wood Ave following E 21st ST & Morses Mill Rd to Brunswick Ave	24	TBD	2,200	Linden	Linden
10	RARITAN	Morses Mill Rd @ Brunswick Ave X-ing NJ Turnpike to PSE&G	20	TBD	6,100	Linden	Linden
11	RARITAN	Roselle Booster Suction	36	1955	15,700	Clark	Roselle
12	COASTAL NORTH	Newman Springs Station Discharge	24	1954	16,000	Tinton Falls	Middletown
	PASSAIC	Canoe Brook WTP Discharge					

ID	System	Transmission Name	Diameter inches	Estimated Year Installed	Total Lineal Footage	Municipal (Origin)	Municipal (Terminus)
13		White Oak Ridge Rd	24		2,900	Millburn	Millburn
14		Parsonage Hill Rd	30		7,400	Millburn	Millburn
15		Glen Ave - Millburn	24		6,400	Millburn	Millburn
16	**RARITAN**	Jerusalem Rd Reservoir to Kenilworth Tank	36	1969	30,500	Scotch Plains	Kenilworth
17	**RARITAN**	Cecilia Rd to Route 22	36	1970	3,800	Scotch Plains	Watchung
18		Route 22 to Diamond Hill Booster	30	1965	8,200	Watchung	Berkeley Heights
19	**RARITAN**	Oak Tree Station to Raritan Rd (west main)	36	1978	11,400	Edison	Scotch Plains
20	**RARITAN**	Oak Tree Station to Raritan Rd (east main)	36	1965	15,700	Edison	Scotch Plains
21	**PASSAIC**	From Glen Ave along Lackawanna Ave, Milburn Ave to Whittingham Tr	20	TBD	1,000	Millburn	Millburn
22	**PASSAIC**	Parsonage Hill Road along White Oak Ridge Rd to Athens & Sparta	27	TBD	7,000	Millburn	Millburn
23	**PASSAIC**	From Sparta along Athens, Lawrence, So Orange Ave, Old Short Hills Rd, & Northfield Ave to Pleasant Valley Way	24	TBD	13,000	Millburn	West Orange
24	**PASSAIC**	Northfield along Pleasant Valley Way to Second Mountain Tank	16 20	TBD	13,000	West Orange	West Orange
25	**PASSAIC**	From Lorelie along Roosevelt, Elmwood, Pleasant Valley Rd to Eagle Rock	16	TBD	7,400	West Orange	West Orange

ID	System	Transmission Name	Diameter inches	Estimated Year Installed	Total Lineal Footage	Municipal (Origin)	Municipal (Terminus)
26	PASSAIC	South Mountain Tanks along Fairview Rd and Sagamore to Glen	36	TBD	2,100	Millburn	Millburn
27	PASSAIC	From Sagamore along Glenn, Wyoming, Mountain to Sagamore	20	TBD	4,500	Millburn	Millburn
28	PASSAIC	From Mountain along Wyoming, Claremont, Ridgewood Rd to E Cedar	16	TBD	6,900	Millburn	Maplewood
29	PASSAIC	Coit St to Banta, Chancellor, Mt Vernon to Mellville	20	TBD	1,700	Irvington	Irvington
30	PASSAIC	CBWTP to Canoe Brook Rd, Wallace, Canoe Brook Pkwy, Beverly, Morris, Gates, Evergreen, Colonial, West End to Passaic Ave	24 20	TBD	14,900	Millburn	Summit
31	PASSAIC	From Service Rd along River Rd, Passaic Ave, Kent Pl, New Providence Ave to Passaic Ave	20	TBD	16,300	Summit	Summit
32	PASSAIC	From New Providence along West End, Passaic Ave, Old Springfield Ave, Division, to Mountain	20	TBD	8,400	Summit	Summit
33	PASSAIC	From Elkwood along Passaic, Springfield, Central, Fairview,	16	TBD	14,200	Summit	New Providence

ID	System	Transmission Name	Diameter inches	Estimated Year Installed	Total Lineal Footage	Municipal (Origin)	Municipal (Terminus)
		Union, to Mountain					
34	**PASSAIC**	From Diamond Hill Rd along Mountain Ave, Grassman, Valley Rd to Diamond Hill Booster	24	TBD	6,700	New Providence	Berkeley Heights
35	**PASSAIC**	From Wyoming along Elm, Bailey to Ridgewood @ Glen in Millburn	16	TBD	1,900	Maplewood	Maplewood
36	**RARITAN**	Talmage Rd Booster Suction Main	30	1973	5,200	So. Plainfield	Edison
37	**RARITAN**	Finderne Ave to Route 206	36	1978	14,800	Bridgewater	Raritan Boro
	DELAWARE	Delaware River Regional WTP Discharge Mains		1994-95			
38		54” PCCP	54	1994	23,300	Mount Laurel	Mount Laurel
39		48” PCCP	48	1994	14,000	Cherry Hill	Cherry Hill
40		42” PCCP	42	1994	8,500	Cherry Hill	Cherry Hill
41	**RARITAN**	Truman IC to Metlars Lane	20	1969	6,900	Edison	Piscataway
42	**RARITAN**	Haines, Drakes, & Metlars Lane	20	1970	9,300	Piscataway	Piscataway
43	**RARITAN**	CRWTP Twin PCCP Intake Pipes	60	1997	1,400	Franklin	Franklin
44	**RARITAN**	Hummocks Well Facility, PCCP and Cast Iron Site Piping	30,24, 20	1951	2,600	Union	Union
45	**RARITAN**	From Galloping Hill Road to Morris Avenue	30	1963	7,920	Union	Union
46	**COASTAL NORTH**	JBWTP Raw Water Main	36	1961	5,537	Wall	Neptune

ID	System	Transmission Name	Diameter inches	Estimated Year Installed	Total Lineal Footage	Municipal (Origin)	Municipal (Terminus)
47	**COASTAL NORTH**	JBWTP Raw Water Main	36	1993	2,577	Wall	Neptune