



Agenda Date: 2/27/19
Agenda Item: 5D

STATE OF NEW JERSEY
Board of Public Utilities
44 South Clinton Avenue, 3rd Floor, Suite 314
Post Office Box 350
Trenton, New Jersey 08625-0350
www.nj.gov/bpu/

WATER

IN THE MATTER OF SUEZ WATER NEW JERSEY, INC. and SUEZ WATER TOMS RIVER, INC.)	DECISION AND ORDER
DISTRIBUTION SYSTEM IMPROVEMENT CHARGE)	APPROVING
FOUNDATIONAL FILING PURSUANT TO N.J.A.C. 14:9-10.4)	STIPULATION OF SETTLEMENT
)	
)	DOCKET NO. WR18101158

Parties of Record:

Bryant Gonzalez, Esq., Suez Water New Jersey, Inc. & Suez Water Toms River, Inc.,
Petitioner
Stefanie A. Brand, Esq., Director, New Jersey Division of Rate Counsel

BY THE BOARD:

On October 22, 2018, Suez Water New Jersey, Inc. and Suez Water Toms River, Inc. ("Company" or "Petitioner"), a public utility corporation of the State of New Jersey, filed a petition pursuant to N.J.A.C. 14:9-10.1 et seq. for approval to file and implement an automatic adjustment clause that would establish a Distribution System Improvement Charge ("DSIC") for the renewal of water distribution system assets for the period of 2018 through 2022 ("DSIC Foundational Filing").

BACKGROUND/PROCEDURAL HISTORY

The Company's initial DSIC Foundational Filing was approved by the New Jersey Board of Public Utilities ("Board") on October 23, 2012 in BPU Docket No. WR12080724. The Company filed its base rate filing on March 11, 2013, which requested a base rate increase that incorporated the entirety of the Company's first DSIC recovery period (November 1, 2012 through April 30, 2013) and second DSIC recovery period (May 1, 2013 through October 31, 2013). The base rate case was approved on November 22, 2013, and also incorporated the entirety of the DSIC-eligible projects in a test-year ending May 31, 2013 in BPU Docket No. WR13030210.

The Petitioner filed its second DSIC Foundational Filing, which was approved by the Board on November 22, 2013 in BPU Docket No. WR13030210. In the same petition, the Company filed its base rate filing on March 11, 2013, which requested a base rate increase that incorporated the entirety of the Company's first DSIC recovery period (December 1, 2013 through May 31, 2014), second DSIC recovery period (June 1, 2014 through November 30, 2014), third DSIC recovery period (December 1, 2014 through May 31, 2014) and fourth DSIC recovery period (June 1, 2015 through November 30, 2015). This base rate case was approved on November 22, 2013, and included the entirety of the DSIC-eligible projects in a test-year ending May 31, 2013.

The Petitioner filed its third DSIC Foundational Filing, which was approved by the Board on July 29, 2016, in BPU Docket No. WR16040303. The Company filed its most recent base rate filing, BPU Docket No. WR18050593, on May 31, 2018, which base rate increase requested the incorporation of the Company's first DSIC recovery period (August 1, 2016 through January 31, 2017), second DSIC recovery period (February 1, 2017 through July 31, 2017), third DSIC recovery period (August 1, 2017 through January 31, 2018) and fourth DSIC recovery period (February 1, 2018 through July 31, 2018). This base rate case was approved on November 19, 2018.

The Petitioner ultimately filed its fourth DSIC Foundational Filing on October 22, 2018 as a separately docketed matter from the base rate case. The Company, the New Jersey Division of Rate Counsel ("Rate Counsel"), and the Staff of the Board ("Staff") (collectively, "Parties") worked to issue and respond to discovery in a timely manner, which would permit this matter to be acted upon by the Board within the 120-day period specified in N.J.A.C. 14:9-10.4(c). However, due to the timing of the January and February Board agenda meetings,¹ the Company filed a letter on January 17, 2019 indicating it consented to extending the 120-day review period to the Board's February 27, 2019 agenda meeting.

A teleconference was held on January 16, 2019, with representatives from all Parties in attendance. On that conference call, representatives of the Company responded to additional questions from Board Staff and Rate Counsel. The Company submitted revised Exhibits P-3 and P-4 for the project schedules on February 11, 2019, as requested by both Staff and Rate Counsel at the teleconference. In addition, a supplemental Exhibit which included all projects previously approved, but not initiated, under the third Foundational Filing, was submitted. Since these projects were approved and eligible for inclusion in a future DSIC recovery period filing, the Company represented that it intends to utilize these projects listed in the supplemental Exhibit in the future, as either substitute projects or as DSIC-eligible projects initiated under any future gap period, as set forth in, inter alia, N.J.A.C. 14:9-10.4.

After proper notice, two public hearings were held in the Petitioners' service territory on February 13, 2019 at 1:00 p.m. in Toms River, New Jersey and at 5:30 p.m. in Hackensack, New Jersey. No members of the public appeared at the hearings and no written comments were received.

¹ The January agenda meeting only afforded 87 days for the Board to review the filing, while the February agenda meeting is eight days past the expiration of the 120-day review period.

DISCUSSION AND FINDINGS

Following further review and discussion, the Parties reached an agreement and executed the Stipulation of Settlement ("Stipulation") on February 19, 2019. Based upon and subject to the terms and conditions set forth in the Stipulation, the Parties stipulate and agree to the following:²

1. The Parties stipulate that the projects contained in Exhibits P-4 and P-5 to the DSIC Foundational Filing, which are attached to the Stipulation in redacted form as Attachment A, have been reviewed. The Parties further stipulate that the projects in Exhibits P-4 and P-5 that begin construction after the test year in the Company's last base rate case (September 30, 2018) are DSIC-eligible projects as defined at N.J.A.C. 14:9-10.2 and are eligible to be included in the Company's DSIC filings pursuant to N.J.A.C. 14:9-10.7. Furthermore, the Parties acknowledge that the replacement project lists and the cleaning and lining project lists in Exhibits P-4 and P-5 contain projects that have not been specifically scheduled but may be undertaken as replacement projects or may be accelerated to address changed conditions. In such instances, the Company will advise Board Staff and Rate Counsel that these projects will be advanced. To the extent that additional projects not on these lists are identified through continuing condition assessments, the Company will advise Board Staff and Rate Counsel that these projects may be added to the list of projects to be undertaken using the procedures defined in N.J.A.C.14:9-10.4(b)5.
2. The Parties agreed that this DSIC Foundational Filing is made pursuant to the Board's DSIC rules generally found at N.J.A.C. 14:9-10.4 et seq., and was filed subsequent to, but in the context of, the Company's previous base rate case to establish a new, updated DSIC Foundational Filing. The Board approved new rates in the Company's prior base rate case effective November 29, 2018, which pursuant to the DSIC regulations, incorporated (by resetting the DSIC surcharges to zero) the Company's previous DSIC surcharges pursuant to the Company's previous DSIC Foundational Filing.
3. The Parties agreed that the Attachment A to this Stipulation accurately reflects the P-3 DSIC Assessment Schedule. Pursuant to that corrected schedule, the maximum amount of Annual DSIC revenues is \$13,797,646 should the Company invest the maximum pursuant to the DSIC regulations and the Parties agree that the Board should so find.
4. The Parties agreed that the Company's base spending requirement is \$9,685,066 as calculated in Exhibit P-2 of the DSIC Foundational Filing.
5. The Parties recommend that the Board authorize the recovery in the DSIC of the revenue requirement, calculated in accordance with N.J.A.C. 14:9-10.9, of the actual costs associated with the projects contained in Exhibits P-4 and P-5. The Parties acknowledge that the Company has commenced construction of some of the projects listed on Exhibits P-4 and P-5 under a prior DSIC Foundational Filing and these projects incurred previously unrecovered restoration costs, the recovery of which will be sought in

² Although summarized in this Order, the detailed terms of the Stipulation are controlling, subject to the findings and conclusions of this Order.

DSIC rate filings under this DSIC Foundational Filing in accordance with N.J.A.C. 14:9-10.3(c).

Based upon the information presented in the DSIC Foundational Filing and agreed to by the Parties in the Stipulation, the Board **HEREBY FINDS** that the Company's 2018 overall revenue for DSIC purposes is \$275,952,916. The Board **FURTHER FINDS** that the Petitioner's maximum amount of annual DSIC revenues that may be collected is \$13,797,646, or no more than five percent of the Company'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. As an example, an average residential customer with a 5/8-inch meter may be subjected to a maximum monthly DSIC surcharge of \$3.36. These proposed rates are estimates and may change, however the maximum annual DSIC revenue requirement, \$13,797,646, cannot be exceeded.

The Board **HEREBY ORDERS** that, in accordance with N.J.A.C. 14:9-10.5(b), the Petitioner shall make DSIC filings on a semi-annual basis, commencing approximately six months after the effective date of the Foundational Filing. Petitioner must submit its semi-annual DSIC filing within 15 days of the end of the DSIC recovery period. DSIC filings shall be reviewed by Board Staff and Rate Counsel. Petitioner may recover the interim surcharge associated with the DSIC-eligible projects closed during the DSIC recovery period not objected to by Board Staff or Rate Counsel beginning 60 days after the end of the DSIC recovery period, subject to refund at the Board's discretion. It is **FURTHER ORDERED** that Petitioner must comply with the base spending requirements set forth in this Order. Failure to comply with the base spending requirements will result in a reduction and refund, where appropriate, of the DSIC surcharge. Thus, Petitioner's DSIC surcharge is interim, subject to refund, and shall not exceed the annual maximum revenue requirement of \$13,797,646, as set forth in this Order.

The Board **FURTHER ORDERS**, that in accordance with N.J.A.C. 14:9-10.4(e), if within three years after the effective date of this Order, Petitioner has not filed a petition in accordance with the Board's rules for the setting of its base rates, all interim charges collected under the DSIC shall be deemed an over-recovery, and shall be credited to customers in accordance with the Board's rules.

The Board **FURTHER ORDERS**, that as of the effective date of the Order entered in the Company's base rate filing on May 31, 2018 in Docket Number WR18050593, the third Foundational Filing (effective August 8, 2016, Docket No. WR16040303) was concluded, the DSIC rate was reset to zero and no additional DSIC filings or DSIC rates may be collected, made or implemented pursuant thereto.

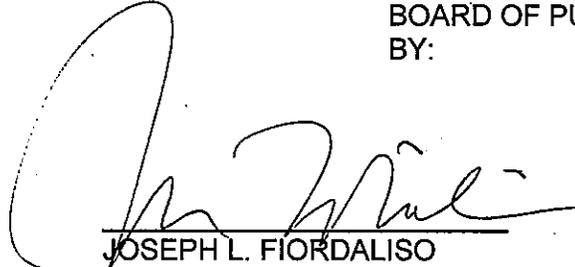
Having reviewed the DSIC Foundational Filing and the Stipulation, the Board **FINDS** that the Parties have voluntarily agreed to the Stipulation, and that the Stipulation fully disposes of all issues in this proceeding. The Board **FURTHER FINDS** the DSIC Foundational Filing and Stipulation to be reasonable, in the public interest, and in accordance with the law. Therefore, the Board **HEREBY ADOPTS** the Stipulation, attached hereto, including all attachments and schedules, as its own, incorporating by reference the terms and conditions of the Stipulation, as if they were fully set forth at length herein, subject to the requirements set forth in N.J.A.C. 14:9-10.1 et seq., and the conditions set forth in this Order.

Based upon the foregoing, the Board **HEREBY APPROVES** the Company's DSIC Foundational Filing and **ORDERS** that the Company may implement a DSIC, subject to this Order and Petitioner's ongoing compliance with the DSIC regulations, as well as conformity of the base spending requirements and semi-annual true-up submissions.

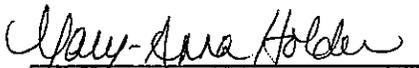
The effective date of this Order is March 9, 2019.

DATED: 2/27/19

BOARD OF PUBLIC UTILITIES
BY:



JOSEPH L. FIORDALISO
PRESIDENT



MARY-ANNA HOLDEN
COMMISSIONER



DIANNE SOLOMON
COMMISSIONER



UPENDRA J. CHIVUKULA
COMMISSIONER



ROBERT M. GORDON
COMMISSIONER

ATTEST: 
AIDA CAMACHO-WELCH
SECRETARY

I HEREBY CERTIFY that the within
document is a true copy of the original
in the files of the Board of Public Utilities.

**IN THE MATTER OF SUEZ WATER NEW JERSEY, INC. and SUEZ WATER TOMS RIVER,
INC. DISTRIBUTION SYSTEM IMPROVEMENT CHARGE FOUNDATIONAL FILING
PURSUANT TO N.J.A.C. 14:9-10.4**

DOCKET NO. WR18101158

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**STATE OF NEW JERSEY
BOARD OF PUBLIC UTILITIES**

IN THE MATTER OF THE PETITION OF
SUEZ WATER NEW JERSEY, INC. AND
SUEZ WATER TOMS RIVER, INC
DISTRIBUTION SYSTEM IMPROVEMENT
CHARGE FOUNDATIONAL FILING
PURSUANT TO N.J.A.C. 14:9-10.4

: **BPU DOCKET NO. WR18101158**
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**STIPULATION
OF SETTLEMENT**

APPEARANCES:

Bryant Gonzalez, Esq., on behalf of SUEZ Water New Jersey Inc. and SUEZ Water Toms River, Petitioner

Renee Greenberg, Deputy Attorney General (Gurbir S. Grewal, Attorney General of New Jersey), on behalf of the Staff of the Board of Public Utilities

Christine M. Juarez, Esq., Assistant Deputy Rate Counsel, on behalf of the Division of Rate Counsel (Stefanie A. Brand, Director)

TO THE HONORABLE BOARD OF PUBLIC UTILITIES:

The Parties in this proceeding are SUEZ Water New Jersey, Inc. and SUEZ Water Toms River, Inc. (the "Company", "SWNJ" or "Petitioner"), the Division of Rate Counsel ("Rate Counsel"), and the Staff of the Board of Public Utilities ("Board Staff" or "Staff"). As a result of an analysis of Petitioner's Distribution System Improvement Charge ("DSIC") Foundational Filing made on October 22, 2018, as well as discovery propounded upon Petitioner, and two (2) public hearings held in the service territory on February 13, 2019, the Company, Board Staff, and Rate Counsel (collectively, the "Parties") have come to an agreement and execute this stipulation of settlement ("Stipulation") in this matter. The Parties hereto agree and stipulate as follows:

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1. Petitioner is a public utility corporation of the State of New Jersey subject to the jurisdiction of the New Jersey Board of Public Utilities ("Board"). Petitioner's principal business office is located at 461 From Road, Paramus, NJ 07652.

2. Petitioner is engaged in the business of collecting, treating and distributing water for retail service to approximately 250,000 customers. The Company's customers are located in Bergen, Hudson, Passaic, Sussex, Morris, Hunterdon, Ocean and Monmouth Counties, New Jersey.

3. The Parties agree that the Company has satisfied the Foundational Filing requirement specified in N.J.A.C. 14:9-10.4(b). The Parties agree that as required at N.J.A.C. 14:9-10.4(c), the Company recently concluded a base rate proceeding and implemented base rates pursuant to an Order of the Board dated November 19, 2018 in BPU Docket No. WR18050593.

4. The Parties agree that this DSIC Foundational Filing is made pursuant to the Board's DSIC rules generally found at N.J.A.C. 14:9-10.4 et. seq., and was filed subsequent to, but in the context of, the Company's previous base rate case to establish a new, updated DSIC Foundational Filing. The Board approved new rates in the Company's prior base rate case effective November 29, 2018, which pursuant to the DSIC regulations, incorporated (by resetting the DSIC surcharges to zero) the Company's previous DSIC surcharges pursuant to the Company's previous DSIC Foundational Filing.

5. The Parties stipulate the projects contained in Exhibits P-4 and P-5 to the DSIC Foundational Filing, which are attached hereto in redacted form as Attachment A, have been reviewed. The Parties further stipulate that the projects in Exhibits P-4 and P-5 that begin construction after the test year in the Company's last base rate case (September 30, 2018) are

DSIC-eligible projects as defined at N.J.A.C. 14:9-10.2 and are eligible to be included in the Company's DSIC filings pursuant to N.J.A.C. 14:9-10.7. Furthermore, the Parties acknowledge that the replacement project lists and the cleaning and lining project lists in Exhibits P-4 and P-5 contain projects that have not been specifically scheduled but may be undertaken as replacement projects or may be accelerated to address changed conditions. In such instances, the Company will advise Board Staff and Rate Counsel that these projects will be advanced. To the extent that additional projects not on these lists are identified through continuing condition assessments, the Company will advise Board Staff and Rate Counsel that these projects may be added to the list of projects to be undertaken using the procedures defined in N.J.A.C.14:9-10.4(b)5.

6. Pursuant to N.J.A.C. 14:9-10.4(b)(1), the Company provided as Exhibits P-4 and P-5 an engineering evaluation report which identifies the rationale for the work to be performed; demonstrates that the proposed plan is cost-effective; identifies elements of the distribution system that require investment including assets which might be susceptible to failure; and identifies efforts to extend the life of the distribution system assets. Pursuant to N.J.A.C. 14:9-10.4(b)(2), also included with Exhibits P-4 and P-5 are DSIC project information which included the following elements:

- a. a list of DSIC-eligible projects by asset class;
- b. project descriptions, including the nature, location, estimated in-service dates, as well as the vintage and condition of the facilities being replaced or rehabilitated, estimated project costs, and descriptions and reasons for the projects; and

- c. aggregate information capturing blanket-type, DSIC-eligible infrastructure projects and the estimated annual cost of such blanket-type replacement programs.

7. The Parties agree that the Attachment B to this Stipulation accurately reflects the P-3 DSIC Assessment Schedule. Pursuant to that corrected schedule, the maximum amount of Annual DSIC revenues is \$13,797,646 should the Company invest the maximum pursuant to the DSIC regulations and the Parties agree that the Board should so FIND.

8. The Parties agree that the Company filed certain portions of this DSIC Foundational Filing as Confidential.

9. Subject to the DSIC rules, the Parties recommend that the Board authorize the recovery in the DSIC of the revenue requirement, calculated in accordance with N.J.A.C. 14:9-10.9, of the actual costs associated with the projects contained in Exhibits P-4 and P-5. The Parties acknowledge that the Company has commenced construction of some of the projects listed on Exhibits P-4 and P-5 under a prior DSIC Foundational Filing and these projects incurred previously unrecovered restoration costs, the recovery of which will be sought in DSIC rate filings under this DSIC Foundational Filing in accordance with N.J.A.C. 14:9-10.3(c).

10. The Parties agree that the Company's base spending requirement is \$9,685,066 as calculated in Exhibit P-2 of the DSIC Foundational Filing.

11. A copy of the public notice is attached as Attachment C to this stipulation.

12. The Parties recognize that the Company is continuing with a cleaning and lining program for larger diameter, unlined cast iron mains that prove to be appropriate candidates for structural or non-structural cleaning and lining. The Company agrees to review the project weighting and selection criteria used in its InfoMaster program, or any successor program, to

ensure that these projects are given adequate priority in funding and further, the Company agrees to report on this in its next DSIC Foundational Filing.

13. The Company's Engineering Analyses provided in Exhibits P-4 and P-5 recognize the unique nature of larger diameter mains with regard to the risk and consequences of failure of these mains. In its next DSIC Foundational Filing, the Company will report on the results of its expanded transmission main assessment program.

14. The Parties recognize that the Company is continuing to perform acoustical surveys of asbestos cement pipe in Toms River to prioritize the replacement of pipe segments that have reduced wall thickness. The Company will continue this program and supplement it by beginning to track and record main breaks on segments that have undergone acoustical surveys. The Parties agree that this effort will allow the Company to refine the main replacement recommendations derived from the acoustical surveys by better correlating reduced pipe wall thickness to the potential for failure.

15. This Stipulation is the product of extensive negotiations by the Parties, and it is an express condition of the settlement embodied by this Stipulation that it be presented to the Board in its entirety without modification or condition. It is also the intent of the Parties to this Stipulation that this settlement, once accepted and approved by the Board, shall govern all issues specified and agreed to herein. The Parties to this Stipulation specifically agree that if adopted in its entirety by the Board, no appeal shall be taken by them from the order adopting same as to those issues upon which the Parties have stipulated herein. The Parties agree that the within Stipulation reflects mutual balancing of various issues and positions and is intended to be accepted and approved in its entirety. Each term is vital to this Stipulation as a whole, since the Parties hereto expressly and jointly state that they would not have signed this Stipulation had any

terms been modified in any way. In the event any particular aspect of this Stipulation is not accepted and approved by the Board, then any Party hereto materially affected thereby shall not be bound to proceed under this Stipulation. The Parties further agree that the purpose of this Stipulation is to reach fair and reasonable rates, with any compromises being made in the spirit of reaching an agreement. None of the Parties shall be prohibited from or prejudiced in arguing a different policy or position before the Board in any other proceeding, as such agreements pertain only to this matter and to no other matter.

16. This Stipulation may be executed in as many counterparts as there are Parties of this Stipulation, each of which counterparts shall be an original, but all of which shall constitute one and the same instrument.

SUEZ WATER NEW JERSEY, INC.
SUEZ WATER TOMS RIVER, INC.

By:  Digitally signed by Bryant Gonzalez
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email=Bryant.Gonzalez@suez.com, c=US
Date: 2019.02.15 10:27:03 -05'00'

Date

Bryant Gonzalez, Esq,
Attorney for Petitioner

GURBIR S. GREWAL
ATTORNEY GENERAL OF NEW JERSEY
Attorney for the Staff of the Board of Public Utilities

Date

By: _____
Renee Greenberg
Deputy Attorney General

STEFANIE A. BRAND, ESQ.
DIRECTOR - RATE COUNSEL

Date

By: _____
Christine M. Juarez, Esq.
Assistant Deputy Rate Counsel

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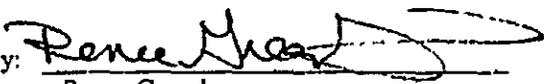
SUEZ WATER NEW JERSEY, INC.
SUEZ WATER TOMS RIVER, INC.

By: 
Bryant Gonzalez, Esq,
Attorney for Petitioner

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email=Bryant.Gonzalez@suez.com, c=US
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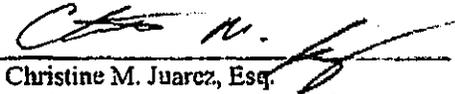
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GURBIR S. GREWAL
ATTORNEY GENERAL OF NEW JERSEY
Attorney for the Staff of the Board of Public Utilities

By: 
Renee Greenberg
Deputy Attorney General

2-19-2019
Date

STEFANIE A. BRAND, ESQ.
DIRECTOR - RATE COUNSEL

By: 
Christine M. Juarez, Esq.
Assistant Deputy Rate Counsel

2-19-19
Date

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SUEZ WATER NEW JERSEY, INC.
SUEZ WATER TOMS RIVER, INC.

By: _____



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Date: 2019.02.15 10:27:03 -05'00'

Bryant Gonzalez, Esq,
Attorney for Petitioner

Date

GURBIR S. GREWAL
ATTORNEY GENERAL OF NEW JERSEY
Attorney for the Staff of the Board of Public Utilities

By: _____



Renee Greenberg
Deputy Attorney General

2-19-2019

Date

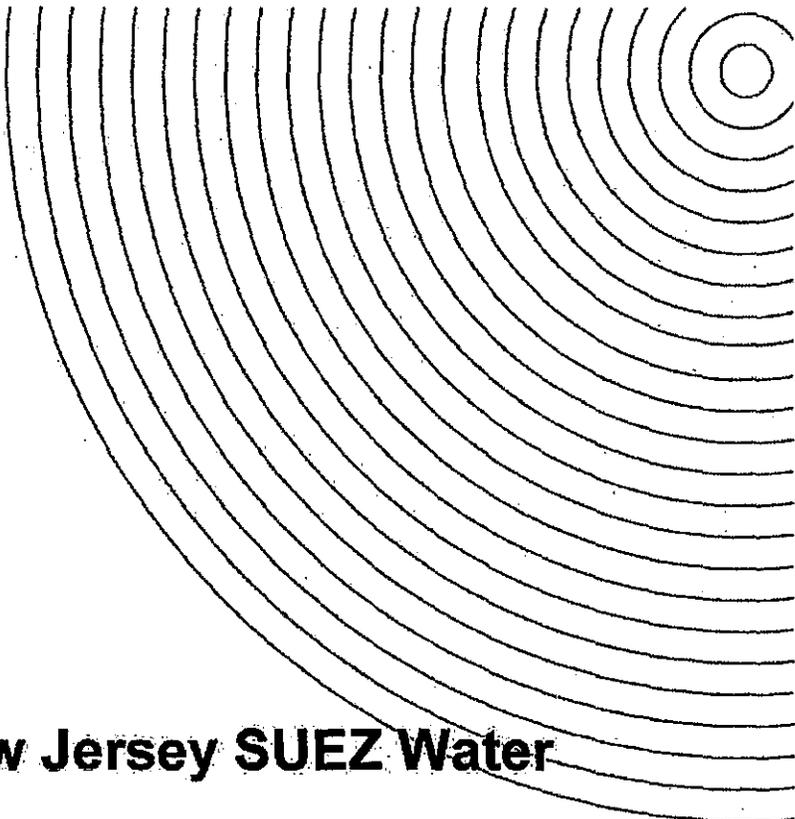
STEFANIE A. BRAND, ESQ.
DIRECTOR - RATE COUNSEL

By: _____

Christine M. Juarez, Esq.
Assistant Deputy Rate Counsel

Date

ATTACHMENT A



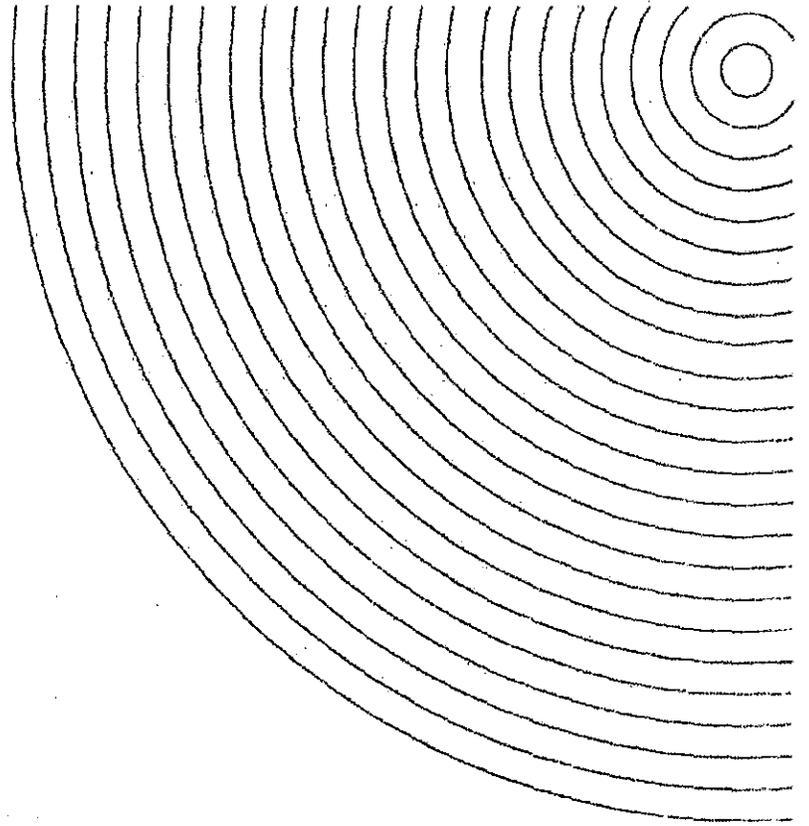
**SUEZ Water New Jersey SUEZ Water
Toms River**

**In the Matter of
Distribution System Improvement
Charge (DSIC) Foundational Filing
Pursuant to N.J.A.C. 14:9-10.4
BPU Docket No. WR18101158**

October 19, 2018

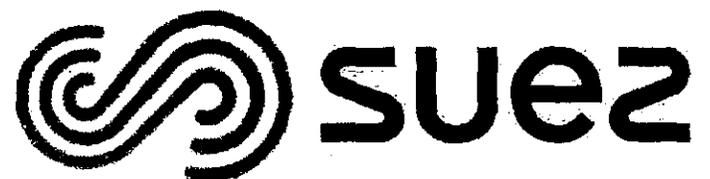
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**Engineering Evaluation Report &
Distribution System Improvement
Charge (DSIC) Project Information for
SUEZ Water New Jersey 2018-2022**

October 2018





SUEZ Water New Jersey's distribution network serves approximately 800,000 people within Bergen, Hudson, Sussex, Morris, Hunterdon and Passaic County in New Jersey across over 60 different municipalities. The distribution network contains mains installed between 1869 to present with the oldest mains focused in the southern portion of the system in Bergen and Hudson County.

The network approximately consists of the following:

- 2,200 miles of pipeline
- 49 pumping and booster stations
- 25 active tanks with a total storage capacity of 57.2 million gallons
- 15,700 hydrant
- 47,400 valves (system and hydrant)
- 206,500 service lines

As part of SUEZ Water New Jersey's 2016 Master Planning process, a detailed analysis was completed on the physical characteristics of the water mains within the Company's system. Approximately 20% of the system has reached its industry accepted useful life of 100 years. By 2025, this percentage will increase to approximately 40%. SUEZ's analysis was not limited to pipe age, but also investigated material and vintage failure patterns along with a criticality/risk model to prioritize the necessary replacement and rehabilitation. SUEZ predominately utilized Cast Iron and Ductile Iron in the construction and maintenance of its system. Prior to 1940, Unlined Cast Iron was typically installed. This Unlined Cast Iron pipe shows evidence of high levels of tuberculation. Mains identified with reduced hydraulic capacity are targeted first for main rehabilitation programs. Figure 1.1 shows the distribution of mains installed in the SUEZ system by material type for both raw and finished water applications. Approximately 75% of SUEZ network consist of Lined and Unlined Cast Iron main. In respect to pipe vintage, it has been determined that certain mains installed between 1962 and 1966 exhibit a high failure rate in comparison to other mains as seen in Figure 1.2. Over the last 10 years the Company has had an average of 409.3 breaks per year, including joint leaks, which translates to about 18.6 breaks per year per 100 miles of pipe. This can be seen in Table 1.1:

Table 1-1: Main Break Analysis

Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Total	Average
Breaks:	460	489	439	321	310	452	450	504	374	294	4093	409.3
Per 100 Mi:	20.9	22.2	19.9	14.6	14.1	20.5	20.4	22.9	17	13.4	-	18.6

In 2017, SUEZ began analyzing its main break and asset management data to perform a risk-based rehabilitation and replacement planning study on its distribution system. SWNJ utilized an ArcGIS-based asset management and capital planning tool called InfoMaster to prioritize projects based on consequence of failure (COF) and likelihood of failure (LOF) with a subsequent plan of action for each segment of main (replacement, rehabilitation, investigation). This analysis is described in further detail in Appendix 1. Projects identified in both the 2016 Master Plan and previous Foundational Filing are scheduled to be completed in 2018 and 2019 are still included in this new Foundational Filing for 2018-2022 while SUEZ transitions to InfoMaster as its primary asset management planning tool. The complete list of pipe segments listed as "High Risk" and "Very High Risk" can be found in Appendix 2.

To date, SUEZ's InfoMaster analysis has been limited to its Hackensack/Franklin Lakes Water Systems and the analysis of the other water systems (Lambertville, Vernon, etc) will be completed in the near future.



Figure 1.1 SUEZ Pipeline Material Distribution

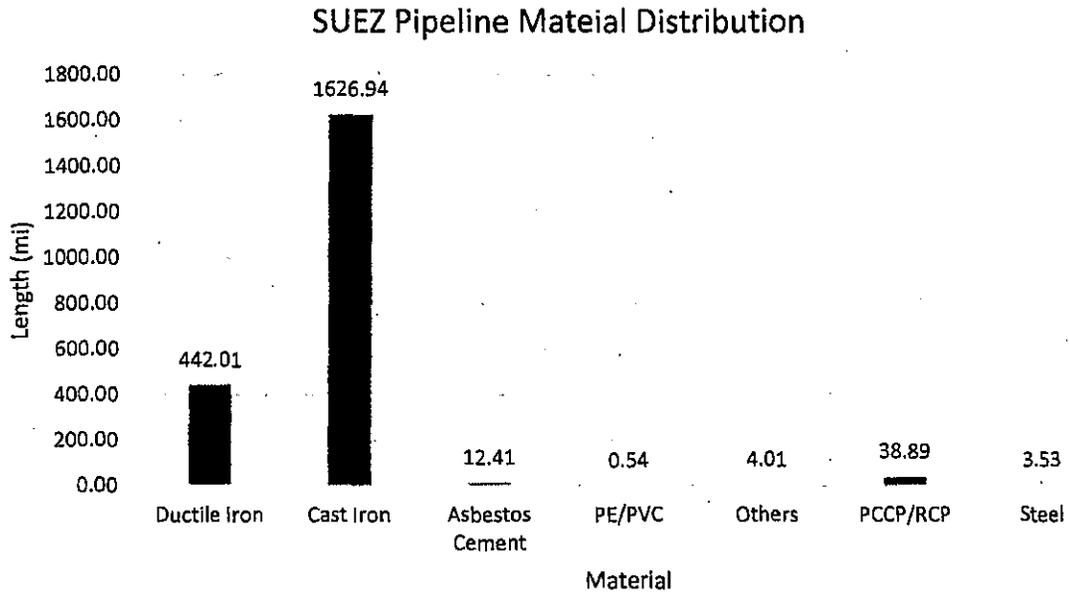
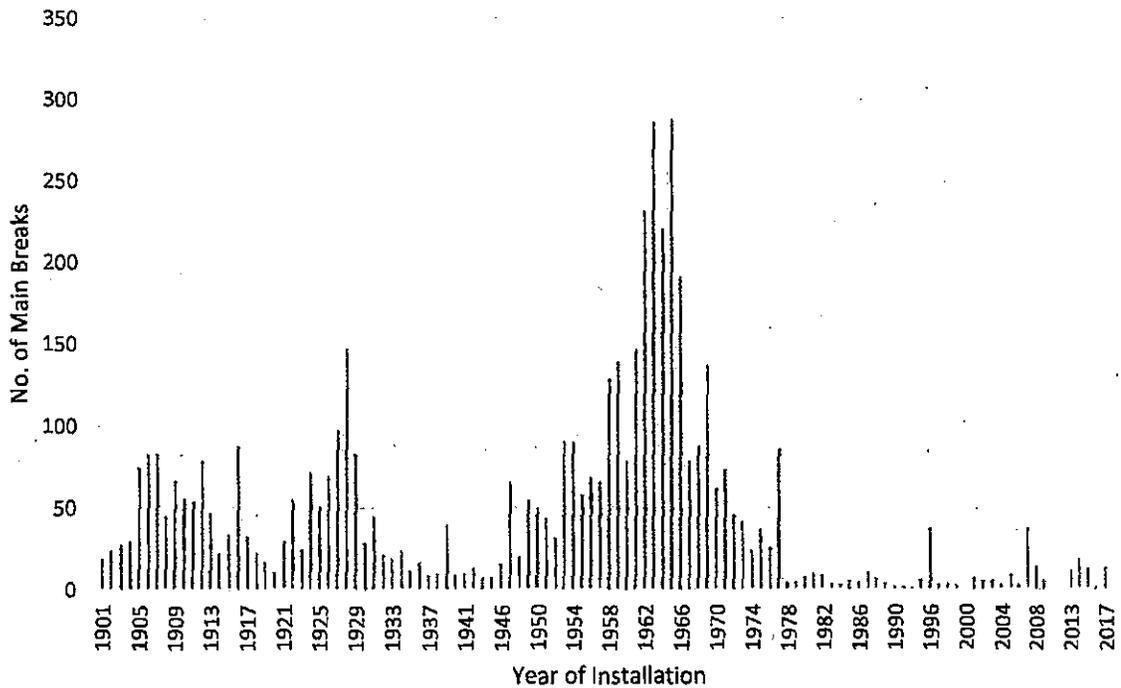


Figure 1.2 Pipe Installation Year vs Total Breaks (2003-2015)

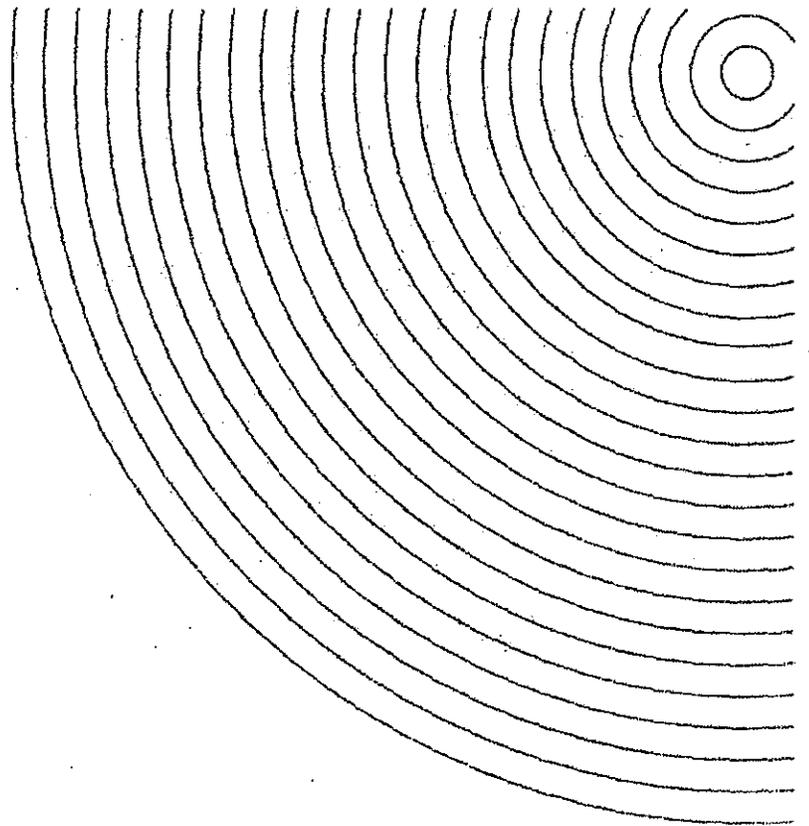




SUEZ maintains a hydrant and valve testing program to identify where regular maintenance work may be required to prevent valve or hydrant failure. SUEZ operates more than 31,000 system valves and approximately 16,400 hydrant valves. On a continuous basis, the Company replaces leaking, damaged, and un-repairable valves to improve customer service and maintain system integrity. SUEZ follows the NJ BPU service standard to exercise all system valves 12" or larger every two years and all other smaller valves every four years. SUEZ works closely with the towns it serves to resolve any concerns that may arise during the use of its hydrants during firefighting efforts and training or during authorized hydrant usage. Additionally, SUEZ has a flow testing program that it conducts on an annual basis. SUEZ personnel conduct flow tests for both internal needs as well as external requests (Developers, ISO, etc.).

SUEZ manages "blanket projects" for hydrant, short main and valve, domestic service, and fire service replacement projects and unreimbursed utility relocation. Over the last 5 years SUEZ has averaged just above 400 main breaks a year. SUEZ maintains this formatting for controlling and tracking capital costs as it is near impossible to pre-determine the quantity of such replacements or where these replacements will be needed.

In addition to main replacement and rehabilitation SUEZ actively conducts leak testing on small and large diameter mains to locate and repair invisible (non-surfacing) leaks before they result in breaks and unplanned service interruptions. This practice helps extend the useful life of the Company's underground assets, as well as help maintain system integrity, allowing the minimization of service interruptions SUEZ customers may experience.



Projected Annual Spending 2018-2022



SUEZ Water New Jersey
Projected Annual Spending

Revised 1/31/19

DSIC Classification	2018	2019	2020	2021	2022
Main Replacement Projects - D600	\$2,229,000	\$18,611,900	\$34,219,200	\$36,972,600	\$39,017,600
Dead End Looping		\$217,300	\$229,900		
Cleaning and Lining	\$134,000	\$1,957,500	\$894,000	\$4,260,186	\$1,733,407
Blanket Structured Projects					
Hydrant Replacement - D501	\$716,000	\$2,765,000	\$2,848,000	\$2,933,000	\$3,021,000
Valve Replacement - D503	\$448,000	\$1,760,000	\$1,813,000	\$1,867,000	\$1,923,000
Domestic & Fire Service Replacement - F501	\$2,624,000	\$9,995,000	\$10,295,000	\$10,603,000	\$10,922,000
Unreimbursed Utility Relocation	\$115,000				
TOTAL	\$6,266,000	\$35,306,700	\$50,299,100	\$56,635,786	\$56,617,007

Note: The list of main replacement projects includes \$114,537,900 of Alternate projects.

Any difference between the planned expenditures and the total projected expenditures reflect additional funds available without specific projects determined at this time.

DSIC Classification	2018	2019	2020	2021	2022
Main Replacement Projects, Dead End Looping and Cleaning and Lining	\$2,363,000	\$25,255,000	\$41,935,000	\$41,935,000	\$41,935,000
Blankets	\$3,903,000	\$14,520,000	\$14,956,000	\$15,403,000	\$15,866,000
Total DSIC Projected Spending	\$6,266,000	\$39,775,000	\$56,891,000	\$57,338,000	\$57,801,000

SUEZ Water New Jersey 2018-2022 DSIC Foundational Filings

Main Production - Community Funded DSIC

Project Number	Asset ID	Project Title	Project Information			Original Main			Length	Proposed Main		Construction Year	Performance Criteria	Replacement Method	Comments
			Town	Size	Material	Year Inst.	Size	Material							
1	42-2778-01	Beacon St	Haworth	6	CI	1964	1,027	6	DI	\$151,150	2007 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
2	47-24165-01	Fairview Ave	Oyster	6	CI	1978	908	8	DI	\$214,500	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
3	47-25779-01	Wellington Ave.	Dexter	8	CI	1908	1,050	11	DI	\$229,000	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
4	39-1887-05	Allen St. (Piermont)	Cresthill	6	CI	1957	777	8	DI	\$202,800	2007 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
5	8-4928-03	Broad St.	Carlekid	6	CI	1900	470	12	DI	\$1,456,000	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
6	2-403-01	75th St/Boothway	North Bergen	6	CI	1933	1,190	8	DI	\$487,500	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
7	10-624-01	Gorge Rd	Cliffside Park	6	CI	1900	870	8	DI	\$312,000	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
8	10-4077-06	West End Ave	Cliffside Park	6	CI	1911	850	8	DI	\$292,500	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
9	3-0816-11	Bergen Ave-17th to 30th	Union City	16	CI	1900	2,348	16	DI	\$1,159,600	2007 (1)	Transmission	Replacement	Phase II & III Construction, police costs, as-built documentation and restoration costs remaining.	
10	56-27311-06	Buddingham Drive (UPPER PHASE)	Alpine	8	CI	1965	1,440	12	DI	\$640,000	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
11	40-26195-03	Edgewood Dr, Andrea Dr and Parkway CT	Washington Township	6	CI	1963	2,774	8	DI	\$1,395,700	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
12	24-21875-01	Union St	Hackensack	6	CI	1907	2,364	8	DI	\$1,165,600	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	
13	11-2409-01	Russell Avenue	Eggewater	6	CI	1909	554	8	DI	\$285,000	2007 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.	

SUEZ Water New Jersey 2018-2022 DSIC Foundational Filing

Project Number	Asset ID	Project Title	Project Information			Original Main		Length	Proposed Main		Est. Cost Represents Total Cost of Project	Construction Year	Performance Criteria	Replacement Method	Comments
			Project Scope	Town	Site	Material	Year Inst.		Size	Material					
14	10-197-20	Edgewater Ln	[REDACTED]	Cliffside Park	8	CI	1890	860	12	DI	\$545,000	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
15	23-2554-03	Edsall Blvd	[REDACTED]	Fort Lee	8	CI	1963	1,375	12	DI	\$787,000	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
16	23-6241-02	E. Central Blvd	[REDACTED]	Fort Lee	12	CI	1922	1,460	8 & 12	DI	\$1,400,000	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
17	59-23200-94	Railroad Ave/Windermack	[REDACTED]	Monrovia	8	CI	1959	1,350	12	DI	\$669,400	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
18	59-25495-01	N. Middletown Rd	[REDACTED]	Monrovia	6	CI	1962	1,650	8	DI	\$921,600	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
19	32-26189-07	Ridgecroft Ave	[REDACTED]	Paramus	12	CI	1964	2,890	8, 12 & 16	DI	\$1,461,400	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
20	2-3997-01	71st St	[REDACTED]	North Bergen	6	CI	1910	200	8	DI	\$142,900	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
21	2-36870-03	Cottage Avenue	[REDACTED]	North Bergen	6	CI	1927	310	8	DI	\$220,500	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
22	59-28332-05	Raven Road, Calindri CT and A/Line CIR	[REDACTED]	Monrovia	6	CI	1964	1,170	8	DI	\$640,600	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
23	59-27130-01	Charlotte CT	[REDACTED]	Monrovia	6	CI	1966	310	6	DI	\$449,800	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
24	N/A	S. Franklin Street from Swan Street to Brunswick Ave	[REDACTED]	Lambertville	8	CI	Unknown	215	8	DI	\$446,000	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
25	56-23311-06/07	Buckingham Drive	[REDACTED]	Alpine	8	CI	1969	1,614	8	DI	\$634,500	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
26	4-4025-01	Grand/Terry/15th/Chesnut	[REDACTED]	Weehawken	6	CI	1912	3,298	8	DI	\$1,346,700	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.

SUEZ WATER New Jersey 2018-2022 DSIC Foundational Filing

Project Number	Asset ID	Project Information				Original Main				Length	Proposed Main			Construction Year	Performance Criteria	Renewal Method	Comment
		Project Title	Project Scope	Town	Site	Material	Year Inc.	Year Inc.	Site		Material	Est. Cost	Estimated Total Cost of Project				
27	388-P1958-124	LV Clinton St Main Replace DSIC	[REDACTED]	Lambertville	4	CI	Unknown	662	8	DI	\$351,200	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
28	388-P1958-061	York from George to N Main	[REDACTED]	Lambertville	4	CI	Unknown	293	8	DI	\$148,300	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
29	25-25601-01	West Main Street	[REDACTED]	Bogota	4	CI	1962	384	6 & 8	DI	\$198,700	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
30	25-25601-02	West Park Place	[REDACTED]	Bogota	4	CI	1962	310	6	DI	\$157,100	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
31	Baldwin Dr.	Baldwin Dr.	[REDACTED]	Vernon Township	2	CI	Unknown	1,908	6	DI	\$450,000	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
32	Sussex	Timberview (Sussex Hills)	[REDACTED]	Vernon Township	2	CI	Unknown	1,959	4	DI	\$461,500	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
33	N/A	Bridge St from Canal to N Franklin	[REDACTED]	Lambertville	4	CI	Unknown	1,395	8	DI	\$937,800	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
34	N/A	S Main from Ferry to Mt Hope	[REDACTED]	Lambertville	4	CI	Unknown	230	8	DI	\$813,900	2017 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
35	43-3376-03	Central Ave	[REDACTED]	Dematist	6	CI	1909/1937	1,550	6' & 8"	DI	\$975,000	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
36	23-4281-01	12th Street	[REDACTED]	Pilates Park	6	CI	1927	250	6	DI	\$175,000	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
37	22-3377-01	E. Homestead Ave	[REDACTED]	Pilates Park	6	CI	1962	600	8	DI	\$352,500	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
38	23-20192-04	Pinecrest Place, Northwood Way	[REDACTED]	Pilates Park	6	CI	1954	1714	8	DI	\$1,018,700	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		
39	2-646-01	72nd St	[REDACTED]	North Bergen	6	CI	1895	780	8	DI	\$497,900	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.		

SUEZ Water New Jersey 2018-2022 DSIC Foundational Filing

Project Number	Asset ID	Project Title	Project Information		Original Main			Length	Proposed Main		Est. Cost Replacement Total Cost of Project	Construction Year	Performance Grade	Renewal Method	Comments
			Town	Project Scope	Size	Material	Year Inst.		Size	Material					
40	2-5199-01	Meadowview Ave	North Bergen	[REDACTED]	6	CI	1916	660	8	DI	\$420,900	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
41	46-27113-03	Parkhill Road	Harrington Park	[REDACTED]	8.8	CI	1966	1460	8	DI	\$710,000	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
42	50-3094-01	Fairway Terr	Horwood	[REDACTED]	6	CI	1953	1650	6.8	DI	\$660,000	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
43	50-2504-09	Knoll Way	Norwood	[REDACTED]	6	CI	1962	1120	8	DI	\$845,000	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
44	40-2706-03	Gabriel Way	Washington Township	[REDACTED]	6	CI	1966	1680	8	DI	\$716,300	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
45	41-2585-01	Altman Ave	Erstetown	[REDACTED]	6	CI	1962	1540	8	DI	\$770,000	2018 (1)	Distribution	Replacement	Police costs, as-built documentation and restoration costs remaining.
46	4-485-17 A 4-485-13	KING AVE & BONN PL WERJAWKEN	Werhawken	[REDACTED]	6	CI	1900	2250	8	DI	\$1,440,800	2018 (1)	Distribution	Replacement	Phase II plus Police costs, as-built documentation and restoration costs remaining.
47	16-7021-01	STUDIO RD, RIDGEFIELD	Ridgefield	[REDACTED]	6	CI	1957	2109	8	DI	\$1,344,500	2019	Distribution	Replacement	
48	16-559-10	EDGEWATER AVE, RIDGEFIELD	Ridgefield	[REDACTED]	6	CI	1908	1222	8	DI	\$775,000	2019	Distribution	Replacement	
49	30-3008-42	Glenwood Avenue	Englewood	[REDACTED]	6"	CI	1977	40	8	DIP	\$160,000	2019	Distribution	Replacement	
50	23-1278-01	Linwood Ave	Fort Lee	[REDACTED]	12	CI	1930	400	12	DIP	\$950,000	2019	Distribution	Replacement	
51	8-221-05	Patterson Ave	East Rutherford	[REDACTED]	8	CI	1900	60	12	DIP	\$250,000	2019	Distribution	Replacement	
52	N/A	Grant George Drive	Vernon Township	[REDACTED]	8	DI	1980's	650	12	DIP	\$315,000	2019	Distribution	Replacement	

SUEZ Water New Jersey 2018-2022 DSIC Foundational Filing

Project Number	Asset ID	Project Title	Project Information		Original Main		Length	Proposed Main		Est. Cost Replacement Cost of Project	Construction Year	Performance Cycle	Renewal Method	Comments
			Town	Project Scope	Site	Material		Year Inst.	Size					
53	22-25540-01	12th St	Palisades Park	[REDACTED]	6	CI	1962	8	DI	\$528,800	2019	Distribution	Replacement	
54	21-201-08	Main St	Ridgefield Park	[REDACTED]	8	CI	1891	12	DI	\$755,200	2019	Distribution	Replacement	
55	2-889-01	69th St	North Bergen	[REDACTED]	6	CI	1974	8	DI	\$835,100	2019	Distribution	Replacement	
56	3-2008-02	39th St	Union City	[REDACTED]	6	CI	1966	8	DI	\$569,800	2019	Distribution	Replacement	
57	3-1849-01	46th St	Union City	[REDACTED]	6	CI	1905	8	DI	\$488,300	2019	Distribution	Replacement	
58	5-4100-01	Broadway	West New York	[REDACTED]	6	CI	1912	8	DI	\$551,000	2019	Distribution	Replacement	
59	54-15088-02	Industrial Pkwy (Union St)	Northvale	[REDACTED]	8	CI	1962	8	DI	\$1,170,300	2019	Distribution	Replacement	
60	40-26160-03	Robbwood Road	Washington Township	[REDACTED]	6	CI	1964	8	DI	\$210,000	2019	Distribution	Replacement	
61	7-26694-04	Minor Rd	East Rutherford	[REDACTED]	8	CI	1965	8	DI	\$655,000	2019	Distribution	Replacement	
62	18-13186-01	Peprat Ave	Harrison Heights	[REDACTED]	6	CI	1934	740	DI	\$397,800	2019	Distribution	Replacement	
63	46-20568-05	MARYANN LN, HARRINGTON PARK	Harrington Park	[REDACTED]	6	CI	1956	8	DI	\$774,000	2019	Distribution	Replacement	
64	46-22741-02	BROOK ST, HARRINGTON PARK	Harrington Park	[REDACTED]	6	CI	1953	8	DI	\$713,200	2019	Distribution	Replacement	
65	46-20224-02	HAZEL ST & PEAT ST, HARRINGTON PARK	Harrington Park	[REDACTED]	6	CI	1954	8	DI	\$684,400	2019	Distribution	Replacement	

SUEZ Water New Jersey 2018-2022 DSIC Foundational Billing

Project Number	Asset ID	Project Title	Project Information			Original Main			Length	Proposed Main		Est. Cost Reported (2019) Cost of Project	Construction Year	Performance Criteria	Renewal Method	Comments
			Project Scope	Town	Size	Material	Year Inst.	Size		Material						
66	44-26215-01	WIERKUS ROAD, HILLSDALE	[REDACTED]	Hillsdale	6	CI	1964	781	8	DI	\$312,400	2019	Distribution	Replacement		
67	44-28232-08	MOUNTAIN VIEW TER, HILLSDALE	[REDACTED]	Hillsdale	6	CI	1969	1,240	8	DI	\$536,000	2019	Distribution	Replacement		
68	44-27172-01	BLUEFIELD COURT, HILLSDALE	[REDACTED]	Hillsdale	6	CI	1966	522	8	DI	\$208,800	2019	Distribution	Replacement		
69	56-25651-01	CAMBRIDGE WAY, ALPINE	[REDACTED]	Alpine	12	CI	1962	773	12	DI	\$511,000	2019	Distribution	Replacement		
70	30-26451-01	ALLISON CT & BRONO AVE, ENGLEWOOD	[REDACTED]	Englewood	6	CI	1964	1,345	8	DI	\$672,500	2019	Distribution	Replacement		
71	23-8649-01	SLOCUM WAY & CENTER AVE, FORT LEE	[REDACTED]	Fort Lee	6	CI	1927	4,169	8	DI	\$3,016,400	2019	Distribution	Replacement		
72	26-7001-01	PAULIN BLVD, LEONIA	[REDACTED]	Leonia	6	CI	1912	1,919	8	DI	\$1,031,500	2019	Distribution	Replacement		
74		Grandview Avenue	[REDACTED]	Vernon	8	CI	Unknown	1,200	12	DI	\$480,000	2019	Distribution	Replacement		
73		N. Main Street	[REDACTED]	Lambertville	6	CI	1967	1,500	12	DI	\$950,000	2020	Distribution	Replacement	Project moved to 2020 from 2019	
75		Andree Drive	[REDACTED]	Vernon	4	CI	Unknown	1,465	8	DI	\$675,000	2020	Distribution	Replacement		
76		Matt Drive	[REDACTED]	Vernon	2	Unknown	Unknown	1,165	8	DI	\$470,000	2020	Distribution	Replacement		
77	24-25181-03	WINCHESTER PL & BUDINGHAM DR, JACKSONVALLE	[REDACTED]	Jackmanack	6	CI	1962	1,562	8	DI	\$976,300	2020	Distribution	Replacement		
78	15-25633-01	BIRCH ST, LITTLE FERRY	[REDACTED]	Little Ferry	6	CI	1963	517	8	DI	\$183,500	2020	Distribution	Replacement		

SUEZ Water New Jersey 2018-2022 DSIC Foundational Filing

Project Number	Asset ID	Project Title	Project Information		Original Main			Length	Proposed Main		EST. Cost Reported Total Cost of Project	Construction Year	Performance Criteria	Renewal Method	Comment
			Town	Site	Material	Year Inv.	Size		Material						
79	34-25754-01	COLUMBIA ST, NEW MILFORD	New Milford	5	CI	1963	1163	8	DI	\$581,500	2020	Distribution	Replacement		
80	34-20311-04	HOFFMAN AVE, NEW MILFORD	New Milford	6	CI	1954	1456	8	DI	\$728,000	2020	Distribution	Replacement		
81	32-26894-03	MCHERRY DR, PARAMUS	Paramus	6	CI	1965	1012	8	DI	\$404,800	2020	Distribution	Replacement		
82	32-22769-01	KOMAN DR, PARAMUS	Paramus	6	CI	1958	748	8	DI	\$299,200	2020	Distribution	Replacement		
83	32-17316-01	ERSTAN WAY, PARAMUS	Paramus	6	CI	1949	2983	8	DI	\$1,185,200	2020	Distribution	Replacement		
84	10-6136-01	WAYNE AVE, CLIFFSIDE PARK	Cliffside Park	6	CI	1921	1187	8	DI	\$755,700	2020	Distribution	Replacement		
85	10-3437-01	MORNINGSIDE AVE, CLIFFSIDE PARK	Cliffside Park	6	CI	1910	911	8	DI	\$580,800	2020	Distribution	Replacement		
86	10-9391-01	HIGHRIDGE RD & LONGVIEW AVE, CLIFFSIDE PARK	Cliffside Park	6	CI	1928	1739	8	DI	\$1,108,600	2020	Distribution	Replacement		
87	9-3410-04	HAMILTON AVE, FAIRVIEW	Fairview	6	CI	1909	797	8	DI	\$508,100	2020	Distribution	Replacement		
88	2-2085-01	50TH ST, NORTH BERGEN	North Bergen	6	CI	1906	1568	8	DI	\$999,600	2020	Distribution	Replacement		
89	2-3531-01	NEWARK AVE & MEADOWVIEW AVE, NORTH BERGEN	North Bergen	6	CI	1910	1384	8	DI	\$882,200	2020	Distribution	Replacement		
90	53-21086-01	CRIPPLEBUSH RD, OLD TAPPAN	Old Tappan	8	CI	1955	1,595	12	DI	\$797,500	2020	Distribution	Replacement		
91	53-26246-01	MUSTEN PLACE, OLD TAPPAN	Old Tappan	6	CI	1954	2,447	8	DI	\$858,800	2020	Distribution	Replacement		

SUEZ Water New Jersey 2019-2022 DSIC Foundational Filings

Project Number	Asset ID	Project Title	Project Information			Original Main			Length	Proposed Main		EST. GUT Repressure, Total Cost of Project	Construction Year	Performance Criteria	Renewal Method	Comments
			Town	Site	Material	Year Inst.	Size	Material								
92	49-2112-08	PROSPECT AVE & SUNNYHILL TER, RIVER VALE	River Vale	6	CI	1955	2,008	8	DI	8	\$975,500	2020	Distribution	Replacement		
93	49-25796-01	BAILEY RD, RIVER VALE	River Vale	6	CI	1970	2,850	8	DI	8	\$1,246,900	2020	Distribution	Replacement		
94	45-25766-02	TILLMAN ST, WESTWOOD	Westwood	6	CI	1965	2,479	8	DI	8	\$1,139,500	2020	Distribution	Replacement		
95	50-3597-01	BROADWAY, NORWOOD	Norwood	6	CI	1910	1,793	8	DI	8	\$717,200	2020	Distribution	Replacement		
96	50-24612-03	RIDGE RD & DWYERS KILL LN, NORWOOD	Norwood	6	CI	1961	2,194	8	DI	8	\$973,600	2020	Distribution	Replacement		
97	36-10972-05	HOWARD PARK DRIVE, TENESY	Tenafly	6	CI	1979	1,176	8	DI	8	\$632,100	2020	Distribution	Replacement		
98	14-15934-01	REDNICK AVE, ROBBY RD & ELIZABETH CT, MOONSHADE & LITTLE PERRY	Moonshade & Little Perry	6	CI	1945	3,926	8	DI	8	\$1,951,000	2020	Distribution	Replacement		
99	33-391-08	PARK AVE, RIVER EDGE	River Edge	6	CI	1893	2,062	8	DI	8	\$1,031,000	2020	Distribution	Replacement		
100	13-8560-07	10TH ST, WOOD RIDGE	Wood Ridge	6	CI	1927	889	8	DI	8	\$444,500	2020	Distribution	Replacement		
101	18-3951-01	HILLSIDE AVE, HASBROUCK HEIGHTS	Hasbrouck Heights	6	CI	1912	2,635	8	DI	8	\$1,416,300	2020	Distribution	Replacement		
102	21-1992-01	OAK ST & ELM ST, RIDGEFIELD PARK	Ridgefield Park	6	CI	1965	1,968	8	DI	8	\$752,400	2020	Distribution	Replacement		
103	5-1978-01	SOUTH ST, WEST NEW YORK	West New York	6	CI	1904	1,551	8	DI	8	\$948,800	2020	Distribution	Replacement		
104	5-186-01	57TH ST, WEST NEW YORK	West New York	6	CI	1904	1,767	8	DI	8	\$1,126,500	2020	Distribution	Replacement		

SUEZ Water New Jersey 2018-2022 DSIC Foundational Filing

Project Number	Project Information				Original Main			Length	Prepared Main		Est. Cost Replacement Total Cost of Project	Construction Year	Performance Criteria	Renewal Method	Comments
	Asset ID	Project Title	Project Scope	Town	Site	Material	Year Inst.		Site	Material					
105	25-25601-S9	Elm Avenue	[REDACTED]	Bogota	4	CI	1962	8	CI	\$850,000	2020	Distribution	Replacement		
106	PM-3-51-01	28th St, Union City	[REDACTED]	Union City	6	CI	1900	1,480	DI	\$945,500	2020	Distribution	Replacement		
107	PM-10-3156-03	Grigg Road & Pillsbury Ave, Cliffside Park	[REDACTED]	Cliffside Park	6	CI	1908	3,175	DI	\$1,024,400	2020	Distribution	Replacement		
108	PM-5-3612-01	50th St, 61st, Harrison Pl, Bergenline & Tyle PA, West New York	[REDACTED]	West New York	6	CI	1911	2,512	DI	\$1,601,600	2020	Distribution	Replacement		
109	PM-3-2338-01	5th St, Union City	[REDACTED]	Union City	6	CI	1908	3,002	DI	\$1,911,500	2020	Distribution	Replacement		
110	PM-16-6754-03	Bergen Blvd & Victory Ave & Victory Ln, Ridgefield	[REDACTED]	Ridgefield	6	CI	1923	3,135	DI	\$1,894,500	2021	Distribution	Replacement	Project moved to 2021 from 2020	
111	PM-3-0816-155	17 Kennedy Blvd West & 32nd St, Union City	[REDACTED]	Union City	6	CI	1900	1,565	DI	\$998,000	2021	Distribution	Replacement		
112	PM-59-25395-01	Montgomerie Ct, Monroeville	[REDACTED]	Monroeville	6	CI	1963	1,817	DI	\$995,100	2021	Distribution	Replacement		
113	PM-35-28256-01	Woodbine St, Bergenfield	[REDACTED]	Bergenfield	8	CI	1944	2,256	DI	\$1,692,300	2021	Distribution	Replacement		
114	PM-10-8641-01	Kennedy Ave & Lincoln Ave & Edgewater Road, Cliffside Park	[REDACTED]	Cliffside Park	6	CI	1927	3,019	DI	\$1,824,300	2021	Distribution	Replacement		
115	PM-10-1863-01	Palladio Ave, Cliffside Park	[REDACTED]	Cliffside Park	6	CI	1905	2,421	DI	\$1,543,200	2021	Distribution	Replacement		
116	PM-5-23-08	Bergess Ave & 64th St, West New York	[REDACTED]	West New York	12	CI	1900	2,306	DI	\$2,205,500	2021	Transmission	Replacement		
117	PM-03-2015-03	Abbott Blvd, Bluff Rd, Edgewood Lane, Fort Lee	[REDACTED]	Fort Lee	6	CI	1906	2,734	DI	\$1,743,200	2021	Distribution	Replacement		
118	PM-10-1174-01	Grant Ave, Cliffside Park	[REDACTED]	Cliffside Park	8	CI	1900	3,053	DI	\$2,432,700	2021	Distribution	Replacement		
119	PM-42-2205-41	Park St & Haworth Ave, Haworth	[REDACTED]	Haworth	6	CI	1906	3,359	DI	\$1,763,300	2021	Distribution	Replacement		

SUEZ Water New Jersey 2018-2022 DSIC Foundational Filing

Project Number	Asset ID	Project Title	Project Information		Original Mesh		Length	Proposed Main		Est. Cost Represents Total Cost of Project	Construction Year	Performance Criteria	Renewal Method	Comments
			Project Scope	Town	Size	Material		Year Inst.	Size					
120	PM-2-7262-01	4th Ave & 80th St, North Bergen	[REDACTED]	North Bergen	6	C	1974	2,630	8	DI	2021	Distribution	Replacement	
121	PM-3-DRUG-222	Bergenline Ave West New York	[REDACTED]	West New York	12	C	1900	2,829	16	DI	2021	Transmission	Replacement	
122	PM-3-ORIG-09	2nd St & 3rd St, Union City	[REDACTED]	Union City	6	C	1990	3,797	8	DI	2021	Distribution	Replacement	
123	PM-3-670-01	Summit Ave & 23rd St & 27th St, Union City	[REDACTED]	Union City	8	C	1900	4,361	11	DI	2021	Distribution	Replacement	
124	PM-16-1110-04	Boat Ave, Ridgefield	[REDACTED]	Ridgefield	6	C	1900	2,337	6	DI	2021	Transmission	Replacement	
125	PM-3-581-03	76th St, North Bergen	[REDACTED]	North Bergen	6	C	1900	1,343	8	DI	2021	Distribution	Replacement	
126	PM-5-7628-01	54th St & Broadway, West New York	[REDACTED]	West New York	6	C	1915	1,336	8	DI	2021	Distribution	Replacement	
127	PM-5-23-24	Bergenline, West New York	[REDACTED]	West New York	12	C	1900	2,731	16	DI	2021	Transmission	Replacement	
128	PM-5-4735-01	JF Kennedy Blvd East, West New York	[REDACTED]	West New York	6	C	1914	1,453	8	DI	2021	Distribution	Replacement	
129	PM-24-4107-50	Janus St & Berry St, Hackensack	[REDACTED]	Hackensack	6	C	1912	2,582	8	DI	2021	Distribution	Replacement	
130	PM-24-300-15	Essex St & Polity Rd, Hackensack	[REDACTED]	Hackensack	12	C	1900	3,564	16	DI		Transmission	Replacement	Project moved to 2022 from 2021
131	PM-24-2469-01	Summit Ave and W. Pleasant View Ave, Hackensack	[REDACTED]	Hackensack	12	C	1951	2,670	16	DI		Transmission	Replacement	Project moved to 2022 from 2021
132	PM-24-1633-01	Rt.4, Paramus	[REDACTED]	Paramus	12	C	1964	3,159	16	DI		Transmission	Replacement	
133	PM-2-2012-01	32nd St & 37th St & Lincoln Terrace, North Bergen	[REDACTED]	North Bergen	6	C	1906	1,932	8	DI		Distribution	Replacement	

SUEZ Water New Jersey 2018-2022 DSC Foundational Filings

Project Number	Asset ID	Project Title	Project Information			Original Main			Length	Proposed Main		Est. Cost Replacement Cost of Project	Construction Year	Performance Criteria	Removal Method	Comments
			Town	Site	Material	Year Inst.	Site	Material								
134	PM-34-9627-01	Moonachie Rd & E. Park St, Moonachie	Moonachie	6	CI	1978	8	DI	1,673		\$835,400		Distribution	Replacement		
135	PM-26-3001-01	Broad Ave & Fort Lee Rd, Leonia	Leonia	6	CI	1911	8	CI	2,928		\$1,573,700		Distribution	Replacement		
136	PM-40-7473-01	Cleveland Ave, Cross St & Valley Ct, Washington Township	Washington Township	6	CI	1964	8	CI	2,078		\$987,200		Distribution	Replacement		
137	PM-5-111-01	6th St & Phinson Plank Rd, Union City	Union City	6	CI	1960	8	DI	1,738		\$1,107,500		Distribution	Replacement		
138	PM-12-1546-01	69th St, Guttenberg	Guttenberg	6	CI	1953	8	CI	1,862		\$1,199,500		Distribution	Replacement		
139	PM-12-9229-01	Hudson Ave & 69th St, Guttenberg	Guttenberg	6	CI	1918	8	DI	2,039		\$1,300,000		Distribution	Replacement		
140	PM-23-8893-01	Cumberside Rd, Fort Lee	Fort Lee	6	CI	1915	8	DI	2,516		\$1,600,900		Distribution	Replacement		
141	PM-10-1473-03	Krus Ave & Anderson Ave, Cliffside Park	Cliffside Park	6	CI	1903	8	DI	5,353		\$3,412,700		Distribution	Replacement		
142	PM-10-5483-02	Anderson Ave, Follon Ter, Connecticut Ave, Wilfred Ter, Cliffside Park	Cliffside Park	6	CI	1917	8	DI	1,172		\$1,129,600		Distribution	Replacement		
143	PM-27-1189-03	Berdan St, W Passaic St, Cedar Dr, Rochelle Park	Rochelle Park	6	CI	1931	8	DI	2,318		\$1,158,900		Distribution	Replacement		
144	PM-2-8272-01	Broadway, North Bergen	North Bergen	6	CI	1922	8	CI	1,377		\$877,500		Distribution	Replacement		
145	PM-43-8995-01	Route 46, Central Ave, Teeterboro	Teeterboro	8	CI	1953	12	DI	3,889		\$2,490,600		Distribution	Replacement		
146	PM-5-5512-01	Murphy Place, 51st St, Kennedy Blvd W, 49th St, West New York	West New York	6	CI	1917	8	DI	1,948		\$1,241,900		Distribution	Replacement		
147	PM-12-64-06	70th St, 72nd St & Madison St, Guttenberg	Guttenberg	6	CI	1900	8	CI	1,893		\$1,206,800		Distribution	Replacement		
148	PM-42-2819-01	Mascardottis Ave/New St, Pine St, Newark	Newark	6	CI	1964	8	CI	3,130		\$1,291,000		Distribution	Replacement		

SUEZ Water New Jersey 2018-2022 DSIC Foundational Filing

Project Number	Asset ID	Project Title	Project Information				Original Main		Length	Proposed Main		Est. Cost Approximate Total Cost of Project	Construction Year	Performance Criteria	Renewal Method	Comments
			Town	Site	Material	Year Inst.	Site	Material								
149	PM-41-23984-01	Broad St. & Glenwood Ave, Emerson	Emerson	6	CI	1960	2,364	DI	DI	\$1,181,900		Distribution	Replacement			
150	PM-8-235-02	Hoboken Rd & Erach St, Caltraek & East Rutherford	Carlebach	6	CI	1900	2,595	DI	DI	\$1,395,000		Distribution	Replacement			
151	PM-56-2313-01	Cloner Dock Rd, Irving Lane & Church St Alpine	Alpine	6	CI	1966	2,632	DI	DI	\$1,184,200		Distribution	Replacement			
152	PM-27-272-03	JF Kennedy Blvd & 85th St, North Bergen	North Bergen	6	CI	1926	2,335	DI	DI	\$1,488,500		Distribution	Replacement			
153	PM-45-2329-02	Charles St & Old Hook Rd, Westwood	Westwood	8	CI	1964	2,436	DI	DI	\$1,522,600	Alternate	Distribution	Replacement	Project moved to Alternate from 2022		
154	PM-23-3998-01	Estabeh St, Fort Lee	Fort Lee	6	CI	1905	2,562	DI	DI	\$1,633,400	Alternate	Distribution	Replacement	Project moved to Alternate from 2022		
155	PM-30-25806-02	S Dean St & E Sheffield Ave, Englewood	Englewood	12	CI	1963	3,468	DI	DI	\$1,100,700	Alternate	Transmission	Replacement	Project moved to Alternate from 2022		
156	PM-10-1314-03	Pallade Ave & Lincoln Ave & Daidene Ave, Cliffside Park	Cliffside Park	6	CI	1901	4,087	DI	DI	\$2,605,200	Alternate	Transmission	Replacement	Project moved to Alternate from 2022		
157	PM-55-24634-01	Vono Driv, Rockleigh	Rockleigh	12	CI	1961	2,536	DI	DI	\$1,663,200	Alternate	Transmission	Replacement	Project moved to Alternate from 2022		
158	PM-28-25515-03	W. Central Ave, Hitzgall Ave & Bannock Ave, Maywood	Maywood	8	CI	1982	4,107	DI	DI	\$9,080,500	Alternate	Distribution	Replacement			
159	PM-28-ORIG-01	Bridge Plaza S & Spence St, Fort Lee	Fort Lee	6	CI	1900	2,276	DI	DI	\$1,451,200	Alternate	Distribution	Replacement			
160	PM-21-3346-01	Main St & Park St, Ridgefield Park	Ridgefield Park	6	CI	1910	2,055	DI	DI	\$1,130,800	Alternate	Distribution	Replacement			
161	PM-50-26142-01	Valley Place & Bunch Ave & Broad St & Golden Pl, Norwood	Norwood	6	CI	1984	2,389	DI	DI	\$1,144,100	Alternate	Distribution	Replacement			

SUEZ Water New Jersey 2018-2022 DSIC Foundational Filing

Project Number	Project Information				Original Main			Length	Proposed Main		Est. Cost Represents Total Cost of Project	Construction Year	Performance Criteria	Revised Method	Comments
	Asset ID	Project Title	Project Scope	Town	Size	Material	Year Inst.		Size	Material					
162	PM-18-9148-01	Boulterel & Cozzoli Ave & Madison Ave, Hoboken Heights	[REDACTED]	Hoboken Heights	6	CI	1928	8	DI	\$1,285,500	Alternate	Distribution	Replacement		
163	PM-24-4107-59	Passaic St & Chispean Pl, Hackensack	[REDACTED]	Hackensack	8	CI	1912	12	DI	\$1,391,300	Alternate	Distribution	Replacement		
164	PM-33-2846-01	Dogwood Ln, Crosskill	[REDACTED]	Crosskill	6	CI	1965	2,575	8	DI	\$1,351,800	Alternate	Distribution	Replacement	
165	PM-33-3933-01	Ackerson St & Grand Ave, River Edge	[REDACTED]	River Edge	6	CI	1911	3,627	8	DI	\$2,269,900	Alternate	Distribution	Replacement	
166	PM-45-10719-01	Tilman St, Westwood	[REDACTED]	Westwood	6	CI	1923	2,277	8	DI	\$1,139,400	Alternate	Distribution	Replacement	
167	PM-37-1609-04	Kinderhook Rd, Oradell	[REDACTED]	Oradell	12	CI	1994	2,177	16	DI	\$1,306,500	Alternate	Transmission	Replacement	
168	PM-41-29250-01	Kinderhook Rd & Demarest Ave, Emerson	[REDACTED]	Emerson	6	DI	1974	1,281	8	DI	\$850,700	Alternate	Distribution	Replacement	
169	PM-3-15085-06	38th St, Union City	[REDACTED]	Union City	6	CI	1940	2,477	8	DI	\$1,578,800	Alternate	Distribution	Replacement	
170	PM-3-86344-01	350 St & 36th St, Union City	[REDACTED]	Union City	6	DI	1900	3,978	8	DI	\$2,504,300	Alternate	Distribution	Replacement	
171	PM-24-422-01	141 St & Essex St & Atlantic St, Hackensack	[REDACTED]	Hackensack	6	CI	1900	3,350	8	DI	\$2,468,300	Alternate	Distribution	Replacement	
172	PM-38-19564-05	Washington Ave & Congress St & New Milford Ave, Dumont	[REDACTED]	Dumont	6	CI	1905	2,615	8	DI	\$1,569,700	Alternate	Distribution	Replacement	
173	PM-32-2438-01	Herley Ave, River Edge	[REDACTED]	River Edge	6	CI	1907	2,394	8	DI	\$1,196,900	Alternate	Distribution	Replacement	
174	PM-36-27914-05	Shawwood Ct & Cantelbury Ct & Anderson Ave, Alpine	[REDACTED]	Alpine	6	CI	1966	2,417	8	DI	\$1,087,700	Alternate	Distribution	Replacement	
175	PM-18-200-11	Terrace Ave & Lantz Ave, Hoboken Heights	[REDACTED]	Hoboken Heights	12	CI	1900	2,212	16	DI	\$1,793,200	Alternate	Transmission	Replacement	
176	PM-24-2140-01	Prospect Ave & Thompson St & Summit Ave, Hackensack	[REDACTED]	Hackensack	6	CI	1906	3,148	8	DI	\$1,987,400	Alternate	Distribution	Replacement	

SUEZ Water New Jersey 2018-2022 DSC Foundational Filings

Project Number	Asset ID	Project Title	Project Information		Original Main		Length	Proposed Main	Est. Cost (Material & Labor) / Cost of Project	Construction Year	Performance Criteria	Renewal Method	Comments	
			Town	Project Scope	Size	Material								Year Inst.
177	PM-24-1188-03	Prospect Ave & Summit Ave, Hackensack	Hackensack	[REDACTED]	6	CI	1900	8	DI	\$1,608,000	Alternate	Distribution	Replacement	
178	PM-23-29295-01	Central Blvd, Fort Lee	Fort Lee	[REDACTED]	12	DI	1973	16	DI	\$1,713,000	Alternate	Transmission	Replacement	
179	PM-34-21000-01	Henley Ave, Arbor Pl, Birch Ave, Cypress St, New Millford	New Millford	[REDACTED]	6	CI	1955	8	DI	\$906,900	Alternate	Distribution	Replacement	
180	PM-34-588-06	Main St & Prospect Ave, New Millford	New Millford	[REDACTED]	6	CI	1900	8	DI	\$978,800	Alternate	Distribution	Replacement	
181	PM-34-23764-01	Boulevard & Martin Pl & Floral Ct, New Millford	New Millford	[REDACTED]	8	CI	1958	12	DI	\$965,500	Alternate	Distribution	Replacement	
182	PM-62-237-70	Park Ave, Rutherford	Rutherford	[REDACTED]	12	CI	1900	16	DI	\$1,814,800	Alternate	Transmission	Replacement	
183	PM-6-5659-01	Spring Dell Ave, Rutherford	Rutherford	[REDACTED]	6	CI	1918	8	DI	\$1,474,200	Alternate	Distribution	Replacement	
184	PM-29-38715-01	Chestnut Ave & American Legion Dr & North St, Teaneck	Teaneck	[REDACTED]	8	DI	1962	12	DI	\$2,109,000	Alternate	Distribution	Replacement	
185	PM-36-3515-01	W. Clinton Ave & Tenney Rd, Tenafly	Tenafly	[REDACTED]	8	CI	1910	12	DI	\$2,444,100	Alternate	Distribution	Replacement	
186	PM-44-20860-03	Hillside Ave & Soderman Ln, Hillside	Hillside	[REDACTED]	6	CI	1954	8	DI	\$1,695,000	Alternate	Distribution	Replacement	
187	PM-18-9614-01	Ottawa Ave, Fitzton Ave & Boulevard, Hackensack Heights	Hackensack Heights	[REDACTED]	6	CI	1918	8	DI	\$1,658,300	Alternate	Distribution	Replacement	
188	PM-24-6931-01	Main St & Cedar Ave, Hackensack	Hackensack	[REDACTED]	6	CI	1915	8	DI	\$1,353,400	Alternate	Distribution	Replacement	
189	PM-24-1047-04	Main St & Jefferson St & Robinson Ave & Davis Ave, Hackensack	Hackensack	[REDACTED]	6	CI	1900	8	DI	\$1,706,500	Alternate	Distribution	Replacement	
190	PM-24-1047-23	Summit Ave, Hamilton Pl & Anderson St, Hackensack	Hackensack	[REDACTED]	6	CI	1900	8	DI	\$3,180,000	Alternate	Distribution	Replacement	
191	PM-15-8996-02	Redeek Ave, Liberty St, Main St & Pantabert St, Little Ferry	Little Ferry	[REDACTED]	6	CI	1928	8	DI	\$3,029,900	Alternate	Distribution	Replacement	

SUEZ Water New Jersey 2018-2022 DSIC Foundational Filing

Project Number	Asset ID	Project Title	Project Information			Original Main			Length	Proposed Main		Est. Cost Proposed Total Cost of Project	Construction Year	Performance Class	Revised Method	Comment
			Project Scope	Town	Size	Material	Year Inst.	Size		Material						
192	PM-9-18300-01	Jackson Ave, Rutherford	[REDACTED]	Rutherford	6	CI	1951	2,570	8	DI	\$1,413,600	Alternate	Distribution	Replacement		
193	PM-6-2969-01	Park Ave, W. Newell Ave & W. Park Pl, Rutherford	[REDACTED]	Rutherford	6	CI	1909	3,065	8	DI	\$1,885,900	Alternate	Distribution	Replacement		
194	PM-10-21062-02	Washington Ave & Kennedy Dr, Washington Township	[REDACTED]	Washington Township	8	CI	1966	5,238	12	DI	\$2,864,200	Alternate	Distribution	Replacement		
195	PM-19-27787-01	Loraine Ave, Geneva Ave & Franklin Rd, Teaneck	[REDACTED]	Teaneck	6	DI	1968	3,074	8	DI	\$1,537,000	Alternate	Distribution	Replacement		
196	PM-24-26751-01	Clay St, Hackensack	[REDACTED]	Hackensack	6	CI	1965	2,676	8	DI	\$1,677,600	Alternate	Distribution	Replacement		
197	PM-30-21174-01	Whitewood Rd & E. Hudson Pl, Englewood	[REDACTED]	Englewood	6	CI	1955	2,381	8	DI	\$1,428,600	Alternate	Distribution	Replacement		
198	PM-35-18919-05	Vonnet Dr, Korfstein Rd & New Ridge Rd, Bergenfield	[REDACTED]	Bergenfield	8	DI	1951	1,625	12	DI	\$1,015,700	Alternate	Distribution	Replacement		
199	PM-7-7940-01	Hackensack St & Union Ave, Hackensack	[REDACTED]	East Rutherford	6	CI	1926	1,658	8	DI	\$1,209,600	Alternate	Distribution	Replacement		
200	PM-38-22095-01	Rt 17, Maywood	[REDACTED]	Maywood	8	CI	1958	1,819	12	DI	\$2,273,100	Alternate	Distribution	Replacement		
201	PM-24-12623-25	River St, Hackensack	[REDACTED]	Hackensack	8	CI	1931	1,947	12	DI	\$1,521,100	Alternate	Distribution	Replacement		
202	PM-30-8017-01	Edge St & Chertout St, Englewood	[REDACTED]	Englewood	6	CI	1926	5,815	8	DI	\$2,307,300	Alternate	Distribution	Replacement		
203	PM-44-28726-01	West St, Hillside	[REDACTED]	Hillside	6	DI	1970	1,764	8	DI	\$705,600	Alternate	Distribution	Replacement		
204	PM-8-2594-01	Rt 17, Oriskany	[REDACTED]	Carlstad	6	CI	1918	1,249	8	DI	\$872,200	Alternate	Distribution	Replacement		
205	PM-35-18837-01	E. Main St, Bergenfield	[REDACTED]	Bergenfield	6	CI	1948	2,739	8	DI	\$1,640,000	Alternate	Distribution	Replacement		
206	PM-16-10508-02	Elm Ave & Bergen Blvd, Ridgefield	[REDACTED]	Ridgefield	6	CI	1929	2,675	8	DI	\$1,705,600	Alternate	Distribution	Replacement		

SUEZ Water New Jersey 2018-2022 DSC Foundational Filing

Project Number	Asset ID	Project Title	Project Information		Original Main		Length	Proposed Main		Est. Cost Represents Total Cost of Project	Construction Year	Performance Criteria	Reversal Method	Comments
			Thru	Project Scope	Site	Material		Year Inst.	Size					
207	PM-23-2018-01	Anderson Ave, Fort Lee	Fort Lee	[REDACTED]	12	CI	1906	1,806	16	DI	1906	Transmission	Replacement	
208	PM-23-1076-11	Myrtle Ave, Fort Lee	Fort Lee	[REDACTED]	6	CI	1900	1,790	8	DI	1900	Distribution	Replacement	
209	PM-23-1076-21	Main St & Center Ave, Fort Lee	Fort Lee	[REDACTED]	12	CI	1900	2,950	16	DI	1900	Transmission	Replacement	
210	PM-2-3103-01	JF Kennedy Blvd W, North Bergen	North Bergen	[REDACTED]	6	CI	1910	4,939	8	DI	1910	Distribution	Replacement	
211	PM-6-OR16-109	18th St, 15th St & Palisade Ave, Union City	Union City	[REDACTED]	6	CI	1900	2,974	8	DI	1900	Distribution	Replacement	
212	PM-9-548-05	Sherman Place, Fairview	Fairview	[REDACTED]	6	CI	1900	1,942	8	DI	1900	Distribution	Replacement	
213	PM-6-18173-16	Murphy Road, Rutherford	Rutherford	[REDACTED]	12	CI	1917	2,292	16	DI	1917	Transmission	Replacement	
214	PM-25-1560-143	Union Ave, Teaneck	Teaneck	[REDACTED]	4	CI	1900	3,335	8	DI	1900	Distribution	Replacement	

Note: [1] Original estimated total cost of project.

*Additional projects have been identified and will be taken from the Master Plan List in Appendix 2.

**SUEZ Water New Jersey regularly conducts additional testing throughout its system to test the hydraulic capacity of its mains. Should areas of decreased flow and hydraulic capacity be discovered, projects may be adjusted to ensure these areas are addressed in a timely manner.

SUEZ Water New Jersey 2016-2022 DSIC Foundational Filings

Main Fundamentals - Consumer Budget/Lines/Consumer DSIC

Revised 1/31/19

Project Number	Asset ID	Project Title	Project Information		Original Work			Proposed Work		Est. Cost	Construction Year	Performance Cycle	Renewal Method	Comments	
			Project Scope	Year	Mileage	Year Inst.	Year	Mileage							
215	30-2819-07	2nd PCP pump replacement Hospital	[REDACTED]	Englewood	24	PCP	1373	40	24	DI	\$81,211	2017	Transmission	Replacement	Public work as built; documentation and/or other costs remaining.
217	6-2981-04	REPAIRS TO WATERWORK	[REDACTED]	Millinford	16	CI	1362	578	16	DI	\$70,000	2020	Transmission	Replacement	Project moved to 2020 from 2019

*Further investigation is required to fully define scope, renewal method and cost of large diameter projects.

SUEZ Water New Jersey 2016-2022 DSIC Foundational Piling

Sanitary and Public - Concrete Encased DSIC

Project Number	Asset ID	Project Title	Project Information		Original Main		Length		Proposed Main		Construction Year	Performance Criteria	Revised Method	Comments
			Town	Project Scope	Site	Material	Year Inst.	Length	Material	Year Inst.				
216	46-12207-01	1st Street	Harrington Park	[REDACTED]	6	C	1930	1230	6		2017 (1)	Distribution	Cleaning and Structural Lining	Police, paving and restoration costs remaining
217	41-14671-01	Worcester	Emerson	[REDACTED]	6	C	1936	310	6		2017 (1)	Distribution	Cleaning and Structural Lining	Police, paving and restoration cost remaining
218	45-908E-02	3rd Ave/Plum Street	Westwood	[REDACTED]	6	DI	1927	1700	6		2018 (1)	Distribution	Cleaning and Structural Lining	
219	50-24831-01	PIERMONT RD, NORWOOD	Norwood	[REDACTED]	16	C	1960	2,610	16	DI	2020	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
220	32-22644-01	Ciella Pl	Paramus	[REDACTED]	6	C	1957	550	6		2020	Distribution	Cleaning and Structural Lining	
221	36-9355-03	Westreck Avenue(George St)	Tenafly	[REDACTED]	6 & 8	C	1937	2090	6 & 8		2020	Distribution	Cleaning and Structural Lining	
222	21-25580-1	Pallades Ave	Ridgefield Park	[REDACTED]	6	C	1962	350	6		2020	Distribution	Cleaning and Structural Lining	
223	PM-55-24631-07	Piermont Rd, Rockleigh	Rockleigh	[REDACTED]	16	C	1961	6,114	16	DI	2021	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
224	PM-35-2272-20	S Washington Ave, Bergenfield	Bergenfield	[REDACTED]	24	C	1905	1,384	24	DI		Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
225	PM-16-410-09	Grand Ave 1, Ridgefield	Ridgefield	[REDACTED]	24	C	1900	3,749	24	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
226	PM-32-26152-04	Paramus Rd, Paramus	Paramus	[REDACTED]	16	C	1964	2,503	16	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
227	PM-24-1020-02	E Railroad Ave, Hackensack	Hackensack	[REDACTED]	20	C	1900	3,142	20	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
228	PM-24-5371-29	Main St, Hackensack	Hackensack	[REDACTED]	24	C	1916	3,694	24	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
229	PM-35-2272-03	N. Washington Ave, Bergenfield	Bergenfield	[REDACTED]	24	C	1906	2,078	24	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
230	PM-16-410-32	Grand Ave 2, Ridgefield	Ridgefield	[REDACTED]	24	C	1900	3,383	24	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
231	PM-22-1049-20	Grand Ave & PM St, Pallades Park	Pallades Park	[REDACTED]	24	C	1900	2,337	24	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
232	PM-38-20432-01	E Madison Ave, Dumont	Dumont	[REDACTED]	30	C	1954	1,529	30	DI	TBD**	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement. Further research required**
233	PM-50-22072-09	Broadway, Chestnut St & Maple St, Norwood	Norwood	[REDACTED]	20	C	1958	5,195	20	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
234	PM-38-28788-02	Washington Ave & E Madison Ave, Dumont	Dumont	[REDACTED]	24	DI	1971	3,718	24	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
235	PM-24-5377-01	Essex St, Hackensack	Hackensack	[REDACTED]	24	C	1947	1,338	24	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement
236	PM-34-32432-15	River Rd & Henley Ave, River Edge	New Milford	[REDACTED]	30	DI	1935	1,537	30	DI	TBD**	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement. Further research required**
237	PM-32-20667-02	E Ridgewood Ave, Paramus	Paramus	[REDACTED]	16	AC	1955	1,834	16	DI	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement

SUEZ Water New Jersey 2016-2022 DSIC Foundational Filings

Project Number	Asset ID	Project Title	Project Scope		Original Main		Length	Proposed Main		Construction Year	Performance Criteria	Removal Method	Comments
			Town	Project Scope	Size	Material		Year Inst.	Size				
233	PM-14-2605-06	Monmouth Ave & Casser Pl, Monmouth	Monmouth	16 DI	1970	4,804	16 DI	\$2,775,734	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement	
234	PM-24-ORIG-19	Hudson St, Hackensack	Hackensack	20 CI	1900	1,549	20 DI	\$1,704,269	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement	
235	PM-38-LS947-10	Washington Ave, Dumont	Dumont	16 CI	1942	3,696	16 DI	\$2,771,311	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement	
236	PM-38-27445-09	Dumont Ave, Dumont	Dumont	24 PCCP	1967	1,886	24 DI	\$2,168,098	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement	
237	PM-26-ORIG-14	Grand Ave, Leonia	Leonia	24 CI	1900	2,045	24 DI	\$3,760,505	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement	
238	PM-34-33340-16	River Road, New Milford	New Milford	30 DI	1996	742	30 DI	TBD***	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement. Further research required***	
239	PM-36-ORIG-35	Grand Ave, Leonia 2	Leonia	24 CI	1900	2,413	24 DI	\$3,797,063	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement	
240	PM-18-5372-28	Boulevard & Passaic Ave, Hasbrouck Heights	Hasbrouck Heights	24 CI	1916	2,485	24 DI	\$3,354,824	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement	
241	PM-15-59500-20	Edgewater Ave, Ridgefield	Ridgefield	30 DI	1937	1,134	30 DI	TBD***	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement. Further research required***	
242	PM-2-28312-09	JF Kennedy Blvd E, West New York	West New York	16 DI	1969	1,064	16 DI	\$798,142	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement	
243	PM-33-ORIG-08	Kinderkamack Rd, River Edge	River Edge	24 CI	1900	4,809	24 DI	\$3,802,651	TBD	Transmission	Cleaning and Structural Lining	Previously included in Large Main Replacement	

Note: (1) Original estimated total cost of project.
 *Additional projects have been identified and will be taken from the Master Plan List in Appendix 2.
 **SUEZ Water New Jersey regularly conducts additional testing throughout its system to test the hydraulic capacity of its mains. Should areas of decreased flow and hydraulic capacity be discovered, projects may be adjusted to ensure these areas are addressed in a timely manner.
 ***Further research required to determine if structural liners can be performed on pipes 30" and larger

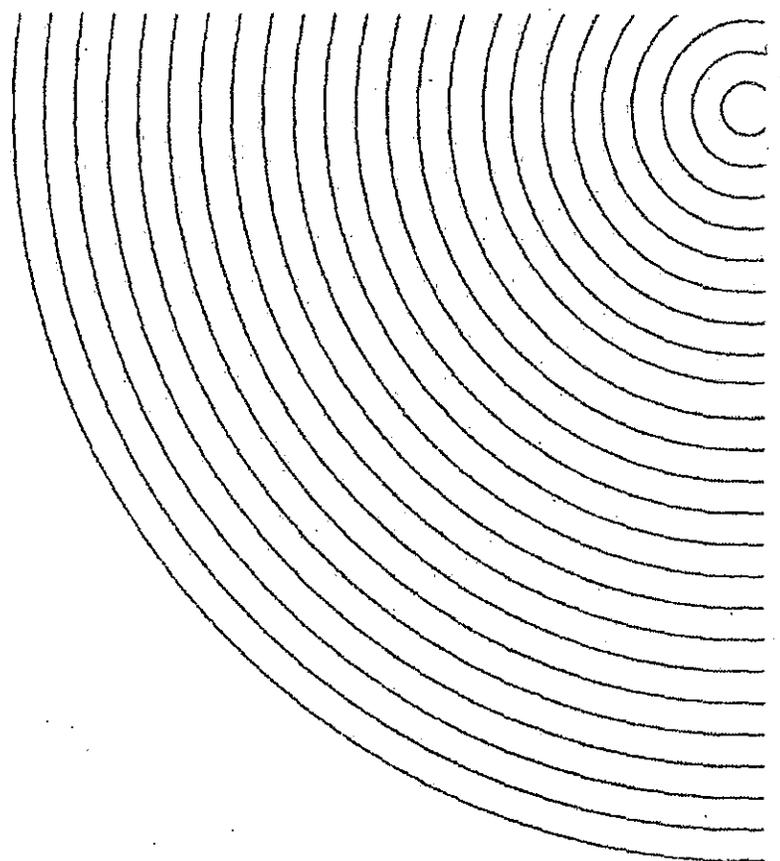
SUEZ Water New Jersey 2015-2022 DSIC Foundational Filing

Deadend Loops - Computer Enclosed D1302

Project Number	Asset ID	Project Title	Project Information		Original Main			Proposed Main		Est. Cost	Construction Year	Performance Criteria	Revised Method	Comments
			Town	Project Scope	Site	Material	Year Inst.	Length	Size					
248		Goble Way	Washington Township					6	DI	\$159,400	2018 (1)	Distribution	Dead End Looping	Police, parking and restoration costs remaining
249		Actman Ave	Emerson					6	DI	\$115,000	2018 (1)	Distribution	Dead End Looping	Police, parking and restoration costs remaining
250		Senhary St	Bergenfield					8	DI	\$79,000	2019	Distribution	Dead End Looping	
251		Grand Ave	North Bergen					8	DI	\$80,800	2019	Distribution	Dead End Looping	
252		Greentree Terr	Tenafly					8	DI	\$39,500	2019	Distribution	Dead End Looping	
253		Edgewater Ln	Cliffside Park					8	DI	\$71,900	2019	Distribution	Dead End Looping	
254		Westview Avenue	Cluster					8	DI	\$79,000	2019	Distribution	Dead End Looping	
255		Poplar Street	Dumont					8	DI	\$79,000	2019	Distribution	Dead End Looping	

\$721,600

Note(1) Original estimated total cost of project.
 *Additional projects have been identified and will be taken from the Master Plan List in Appendix 2.
 **SUEZ Water New Jersey regularly conducts additional testing throughout its system to test the hydraulic capacity of its mains. Should areas of decreased flow and hydraulic capacity be discovered, projects may be adjusted to ensure these areas are addressed in a timely manner.

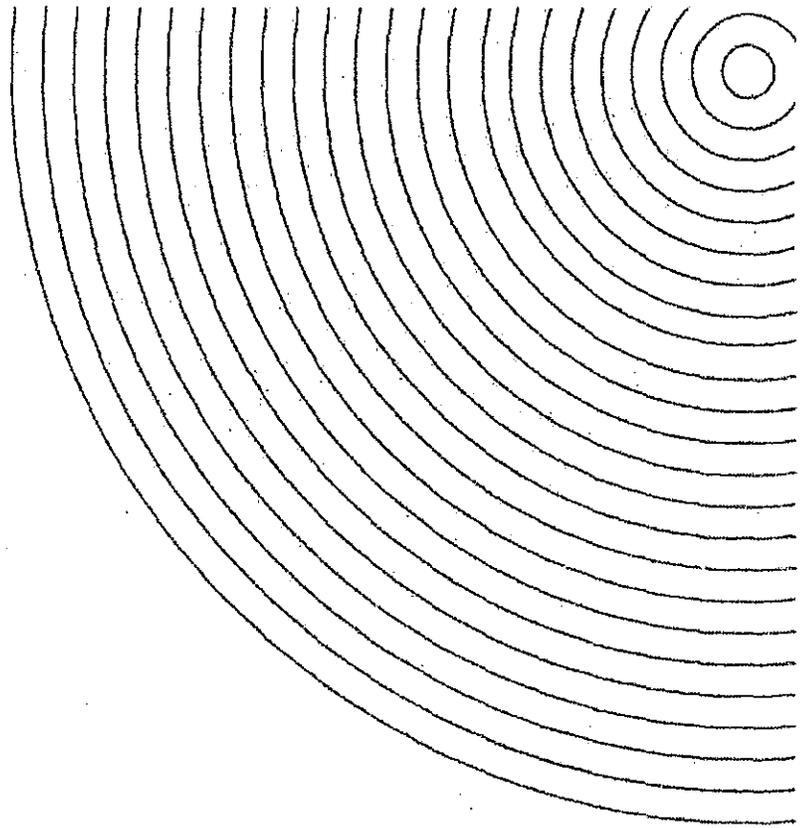


Appendix 1

**SUEZ Water New Jersey
InfoMaster Project Identification Methodology**

***Confidentiality is required for this Appendix due to sensitive information relating to systems operations**



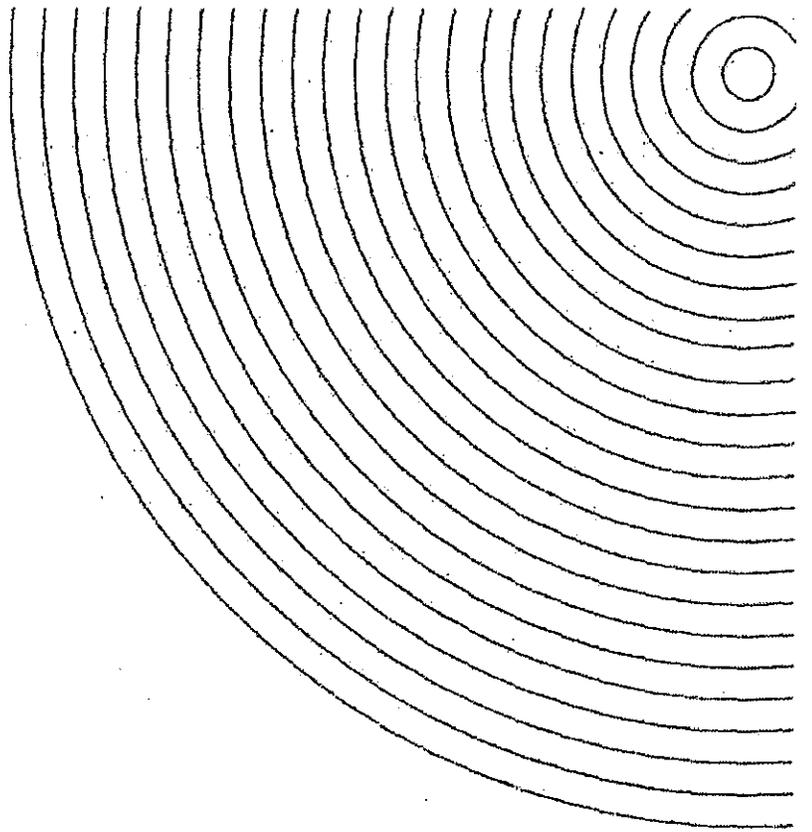


Appendix 2

**SUEZ Water New Jersey
InfoMaster Complete Pipe Segment Table**

***Confidentiality is required for this Appendix due to sensitive information relating to systems operations**





Appendix 3

SUEZ Water New Jersey Service Area Map



SUEZ

March 2011
 Project: NJ Water
 As of: 03/01/2011
 Sheet 1 of 1

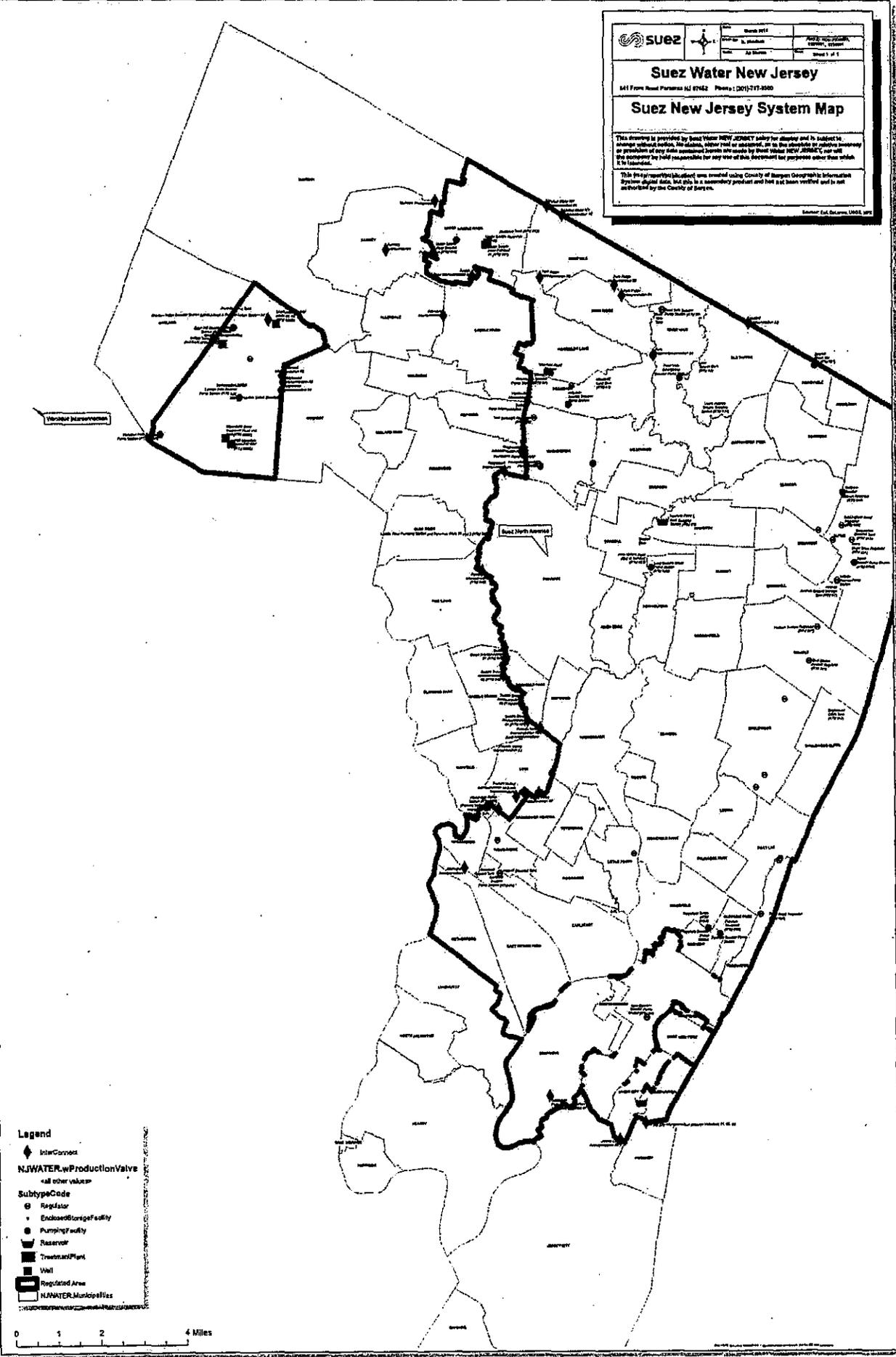
Suez Water New Jersey
 641 First Street Paterson NJ 07652 Phone: (201) 217-8000

Suez New Jersey System Map

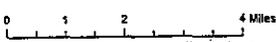
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This file (project) information was created using County of Bergen Geographic Information System digital data, but this is a secondary product and has not been verified and is not authorized by the County of Bergen.

Revision Log: 03/01/2011



- Legend**
- ◆ InterConnect
 - ◆ NJWATER.wProductionValve
 all other valves
 - SubtypeCode**
 - Resistor
 - EnclosedStorageFacility
 - PumpingFacility
 - Reservoir
 - TreatmentPlant
 - Well
 - Regulated Area
 - NJWATER.Municipalities



		Date: January 2013	Project: Mt. Pleasant, NJ 1234567890
		Scale: 1" = 1000'	Sheet: 1 of 1

Suez Water New Jersey
 Mt. Pleasant, NJ 07962 Phone: 1-800-747-4260

Suez Mid Atlantic

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Drawing No. 01-0001-1000-100

Legend

- 
 Network Production Structure
- 
 Embedded Storage Facility
- 
 Pumping Station
- 
 Reservoir
- 
 Storage Tank
- 
 Well
- 
 Inflow
- 
 Pipeline
- 
 Underpass
- 
 Ground Tank
- 
 Manhole

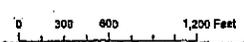
Suez Area
 NETWORK_County_Hudson
 NETWORK_County_Morris
 NETWORK_County_Somerset



	Date: August 2011 Drawn by: S. Shindler Scale: As Shown Sheet: 1 of 2
	Project: Suez New Jersey 441 River Road, Freehold, NJ 07928 Phone: (855) 277-8888
Suez Lambertville System Map	
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Legend

- LYWATER, hydrant
- Other
- SubtypeCode
- Hydrant
- Storage Tank
- Flow Tank
- Service Pipe
- WATER Properties Area

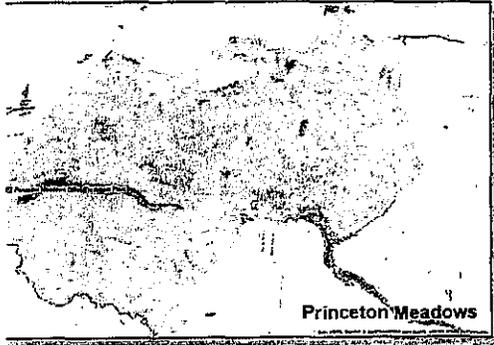
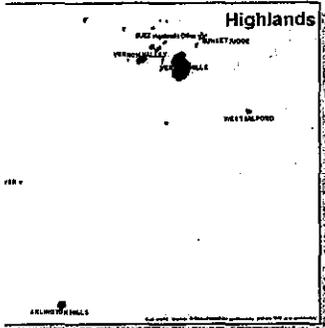
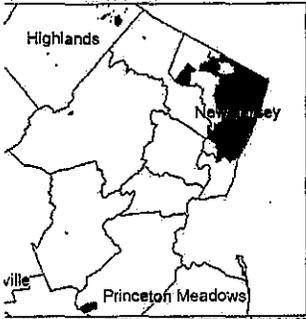
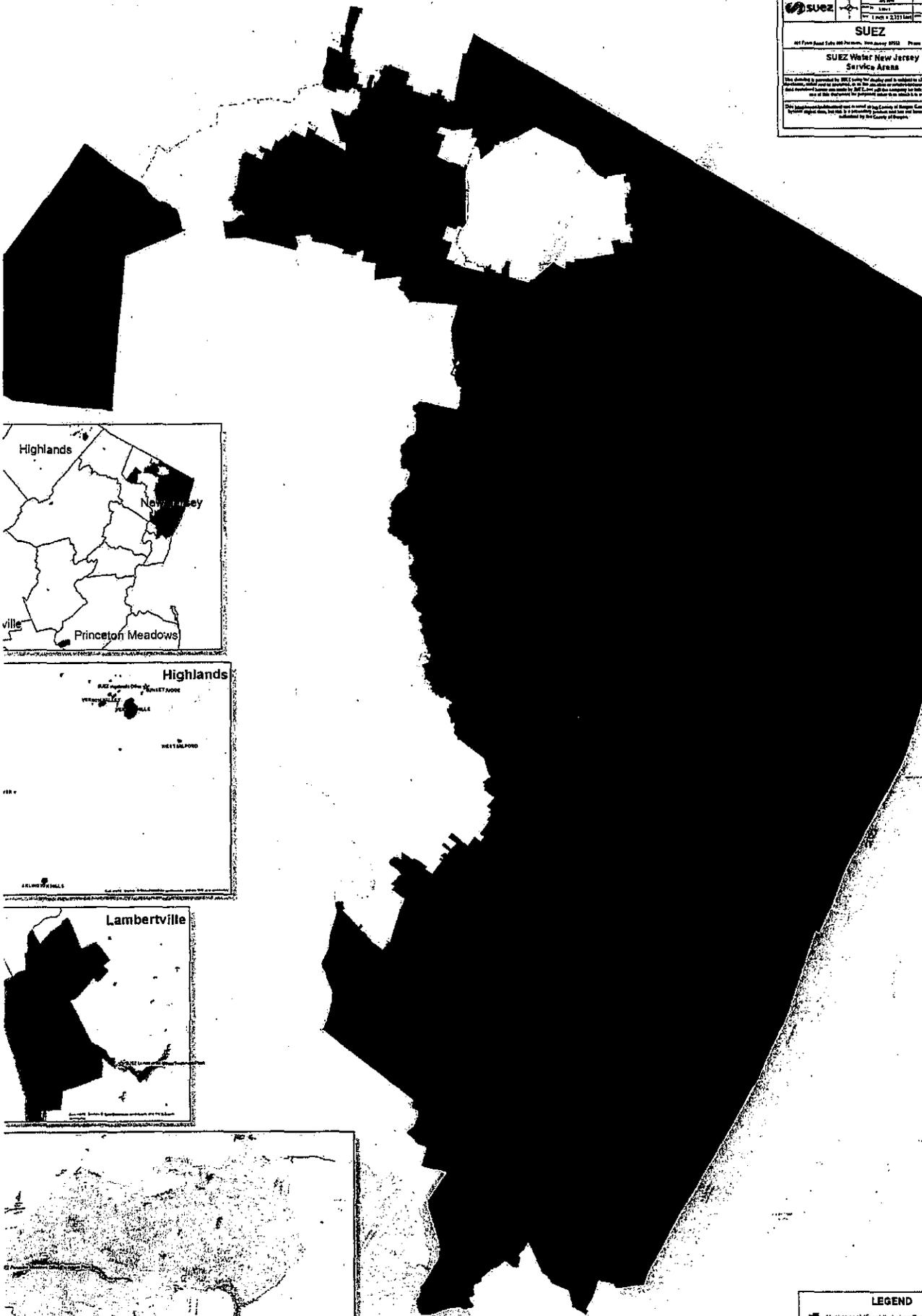


SUEZ

401 Forest Road Suite 200 Paramus, New Jersey 07652 Phone

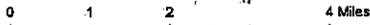
SUEZ Water New Jersey Service Area

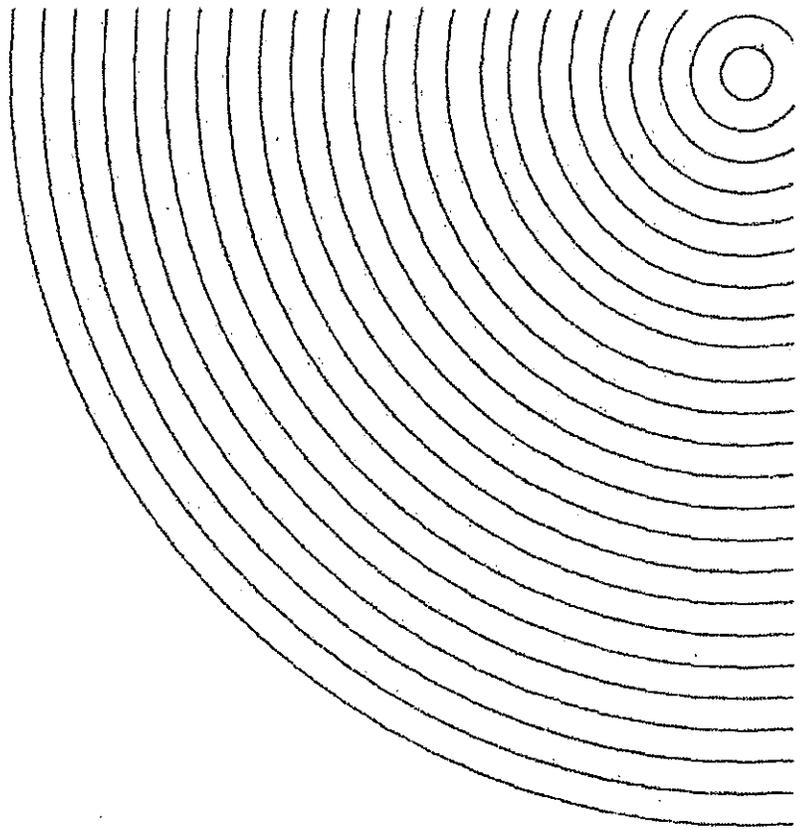
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LEGEND

- Hackettstown/Franklin Lakes Syst
- Princeton Meadows Service Area
- Lambertville Service Area
- Highlands Service Area



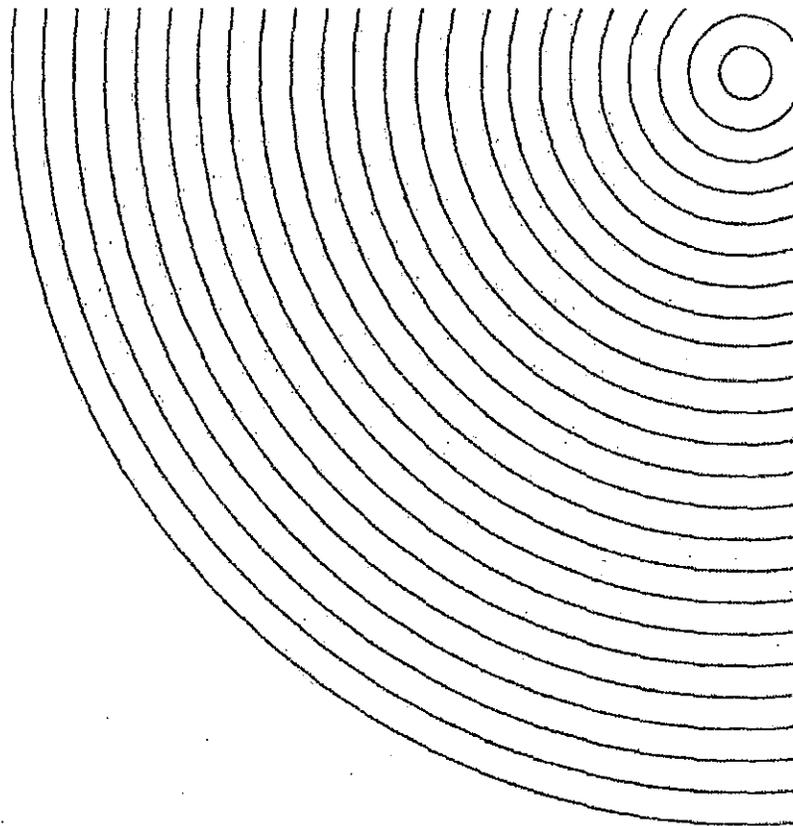


Appendix 4

SUEZ Water New Jersey DSIC Main Replacement Map

***Confidentiality is required for this Appendix due to sensitive information relating to systems operations**





**Engineering Evaluation Report &
Distribution System Improvement
Charge (DSIC) Project Information for
Suez Water Toms River 2018-2022**

October 2018

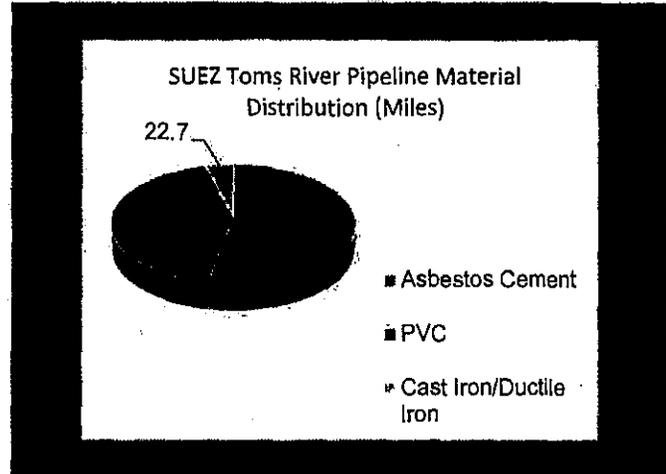




SUEZ Water Toms River supplies potable water for domestic use and fire protection to residents of Toms River Township, the Borough of South Toms River, a portion of Berkeley Township, and a portion of Brick Township all in Ocean County, NJ. The Company also serves a portion of Colts Neck in Monmouth County. The Company has approximately 50,000 residential, commercial and fire protection customers, which serve about 120,000 people.

The network consists of the following:

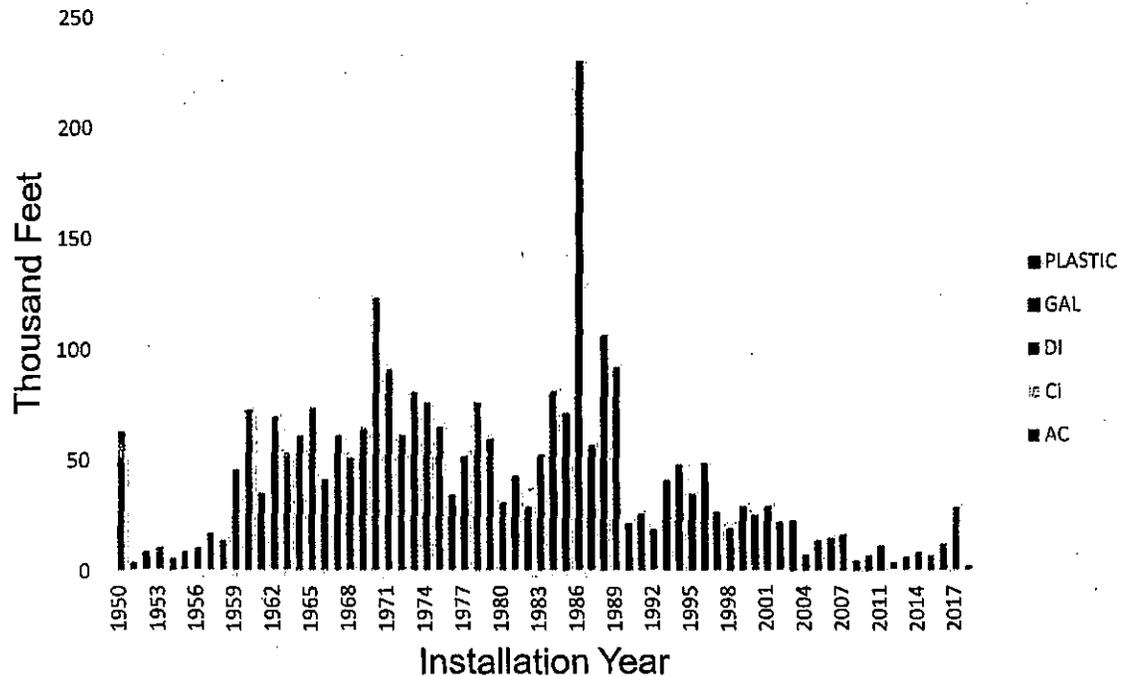
- 536 Miles of Pipeline;
- 3,500 Hydrants;
- 8,500 Valves (system and blow-off);
- 50,000 Service Lines;
- One Booster Pump Station; and
- Eleven storage tanks with a total capacity of 9.4 million gallons



The SUEZ Water Toms River (SWTR) distribution system mainly consists of asbestos cement. This is due to the fact that it was the material of choice for potable water main construction during a time of significant growth in the region, the 1950's, 1960's and 1970's. PVC pipe was the material of choice in the 1980's and 1990's and makes up the majority of the remaining pipe material with less than 3% of the distribution pipe being cast iron or ductile iron. Figure 1.1 illustrates the material and age of all the pipes within the SWTR distribution system.



Figure 1-1: SUEZ Toms River Pipeline Age and Material



SUEZ Water Toms River conducted a comprehensive analysis of the distribution system as part of the main replacement planning process. This not only included the size, material and age of the pipe, but also took into consideration adequate fire flow, calculated remaining service life, water age, aggressive soils, and pipe failure patterns.

SWTR analyzed main break data from 2008 through 2017 to aid in completing a risk-based replacement planning program. SUEZ has had an average of 4.3 breaks per year per 100 miles of pipe as seen in Table 1.1.

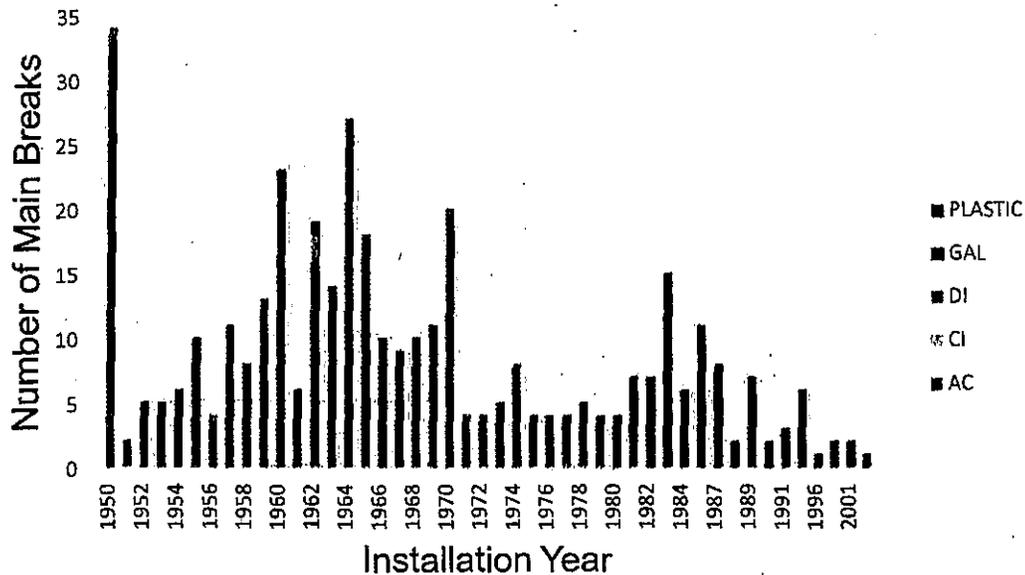
Table 1-1: SUEZ Water Toms River Main Breaks Per Year

Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Average
Breaks:	25	22	28	26	5	26	23	28	9	13	20.5
Per 100 Miles:	4.7	4.1	5.2	4.9	0.9	4.9	4.3	5.2	1.7	2.4	4.3

Figure 1.2 illustrates the number of main breaks versus year of installation beginning with installation year 1950 to 2004. More than 75% of pipe failures occurred on asbestos cement. Over 50% of the main breaks occurred on pipe installed in 1950-1965. Approximately 43% of all main breaks in the past 20+ years have been on a 6" or smaller asbestos cement pipe that was installed in the 50's and 60's.

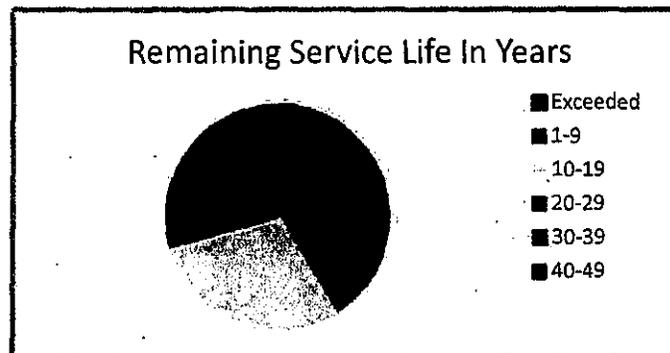


Figure 1-2: Pipe Installation Year vs Total Breaks (1997-2018)



In 2017, SUEZ Water completed a condition assessment on an additional 11,000 feet of asbestos cement water mains within the Company's system using non-destructive acoustical analysis. This technology measures the current structural wall thickness of the pipe and compares it to factory standards in order to determine the percent loss in wall thickness. All pipe within the study was installed in the late 1950's and early 1960's. The results of the analysis were used to make informed decisions regarding rehabilitation or replacement and can be seen in Figure 1.3.

Figure 1-3: Remaining Service Life in Years

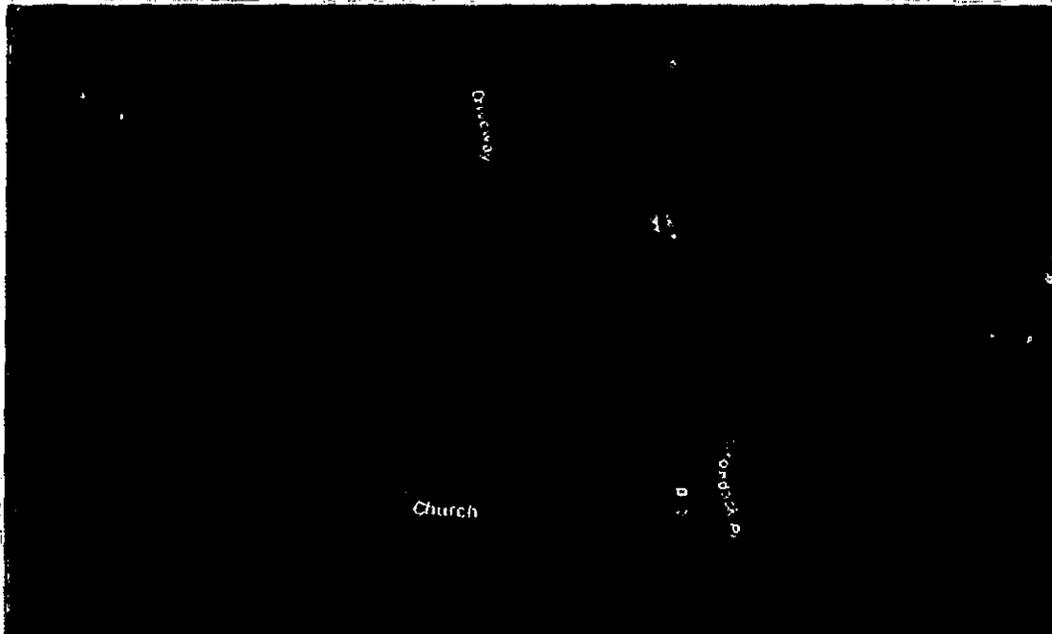


Approximately 35% of the asbestos cement pipe has exceeded its useful life with the majority of the pipe being 6". While the rate of degradation is similar for all asbestos cement pipe, the smaller diameter pipe is manufactured with a thinner wall thus allowing it to reach the end of its useful life much quicker. Many of our main replacement projects concentrate on asbestos cement pipe with a 6" or smaller diameter that was installed in the 50's and 60's.



SUEZ Water Toms River has experienced main breaks due to soft asbestos cement pipe in certain regions of the Company's franchise. A soils map survey was evaluated to determine areas where aggressive soils may have caused pipes to degrade at a faster rate. According to the National Cooperative Soil Survey and SWTR's experience, the areas of concern are near bodies of water where psamments are found. A psamment (PssA) consists of unconsolidated sand deposits that are easily eroded and provide poor structural support. Figure 1.4 highlights this area where we focused on replacing the 4" and 6" asbestos cement water mains as part of the planning process.

Figure 1-4: Soils Map Survey of Holiday City-Silverton



In 2017, SUEZ Water implemented the use of a hydraulic model for operational and capital improvement planning. Areas have been identified and evaluated where dead end looping may increase fire flow and improve overall water quality.

Figure 1.5 exhibits the available fire flow out of each hydrant with current infrastructure in parts of Toms River. The orange hydrant indicates available fire flow less than 1,000 gpm. This is particularly a concern because the hydrants are located in a commercial area where the required fire flow is 3,500 gpm. This is according to the ISO method for NFF, needed fire flow required to fight a fire in an individual, nonsprinklered building based on the formula in Equation 1.1.

Equation 1-1 Needed Fire Flow

$$NFF_i = (C_i)(O_i)[1.0 + (X + P)_i]$$

where

NFF_i = the needed fire flow in gallons per minute (gpm)

C_i = a factor related to the type of construction

O_i = a factor related to the type of occupancy

X = a factor related to the exposure buildings

P = a factor related to the communication between buildings



Using the hydraulic model, 6", 8", and 12" water mains connecting the dead ends were simulated to calculate the increase in available fire flow and assess the benefit of dead end looping at this location. The results can be seen in Figure 1.6, which shows an overall increase in available fire flow throughout the neighborhood. The orange hydrants from Figure 1.5 have now met their required fire flow of above 3,500 gpm.

An increase in capacity can result in an increase in water age which equates to poor water quality. This is why it was very important to evaluate the water age in this area simultaneously. Figure 1.7 illustrates the water age at each junction, with present day infrastructure. After modeling the 6", 8", and 12" pipes the water age at each junction was recalculated and evaluated.

The outcome confirmed that overall water age decreased and greatly improved in the entire surrounding area where the new pipes were simulated. These results can be seen in Figure 1.8 and concluded that the installation of new water main for dead end looping would not only increase fire flow capacity, but greatly improve water quality as well.

All main replacement projects are coordinated with the Townships and County so that to the greatest extent possible, we are assessing the water main condition and the timing of the Township paving and drainage projects to expend capital in the most effective manner and to reduce the impact to customers as much as possible. Over the five year period, there may be some substitutions of main replacements when it is effective and efficient to do so in response to the Township and County paving program. The Township of Toms River has committed to performing the final pavement and has extended relief in temporary pavement conditions as well on the main replacements that are within the Township paving program. The Company will endeavor to coordinate in the same manner with South Toms River and Berkeley Townships.



Figure 1-5: Present Day Available Fire Flow

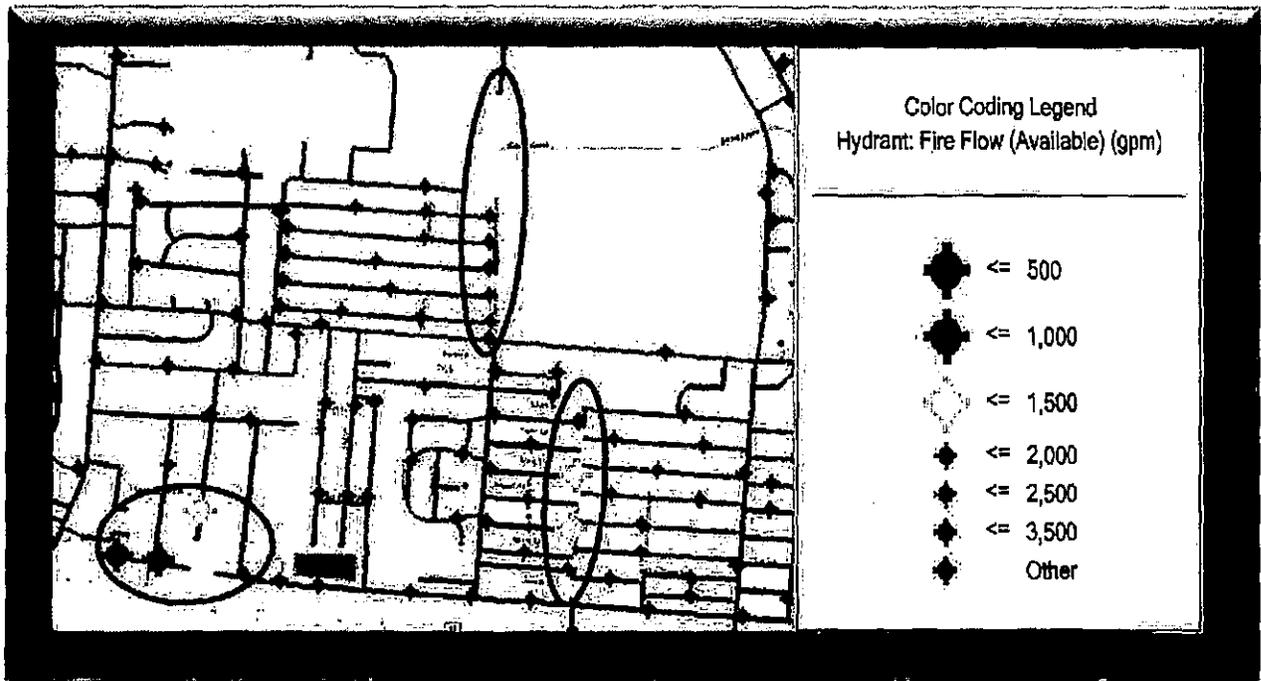


Figure 1-6: Available Fire Flow After Capital Improvements

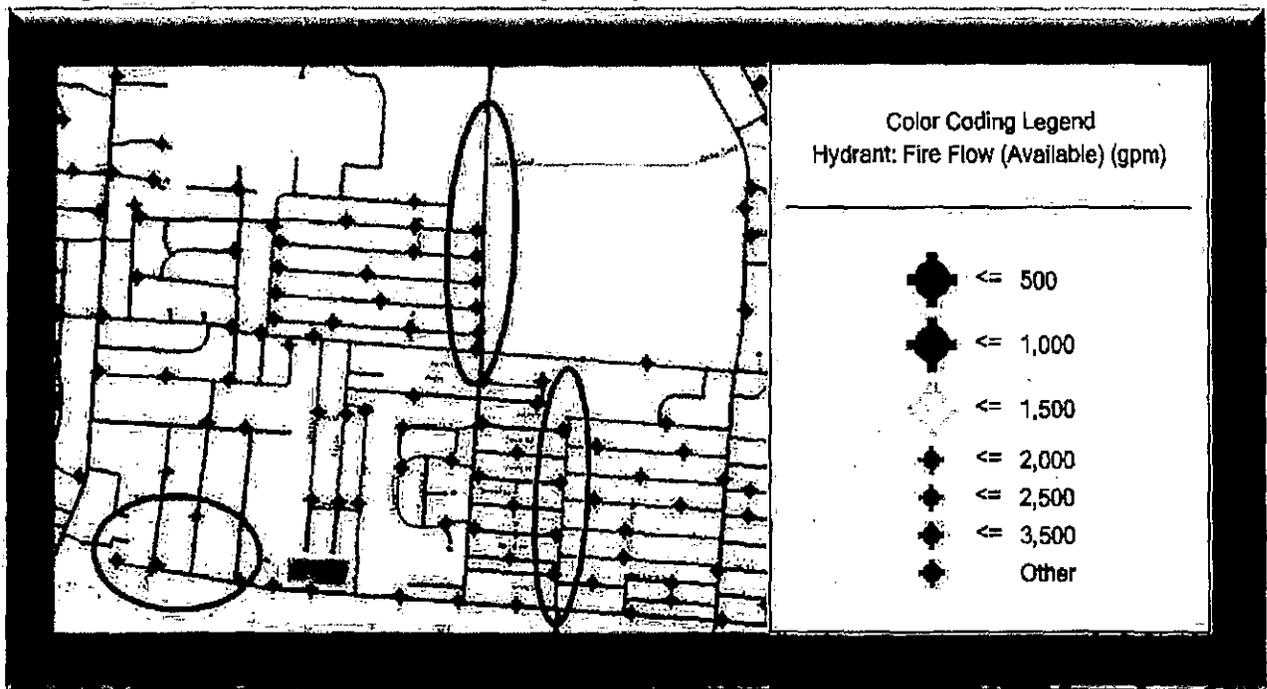




Figure 1-7: Present Day Water Age

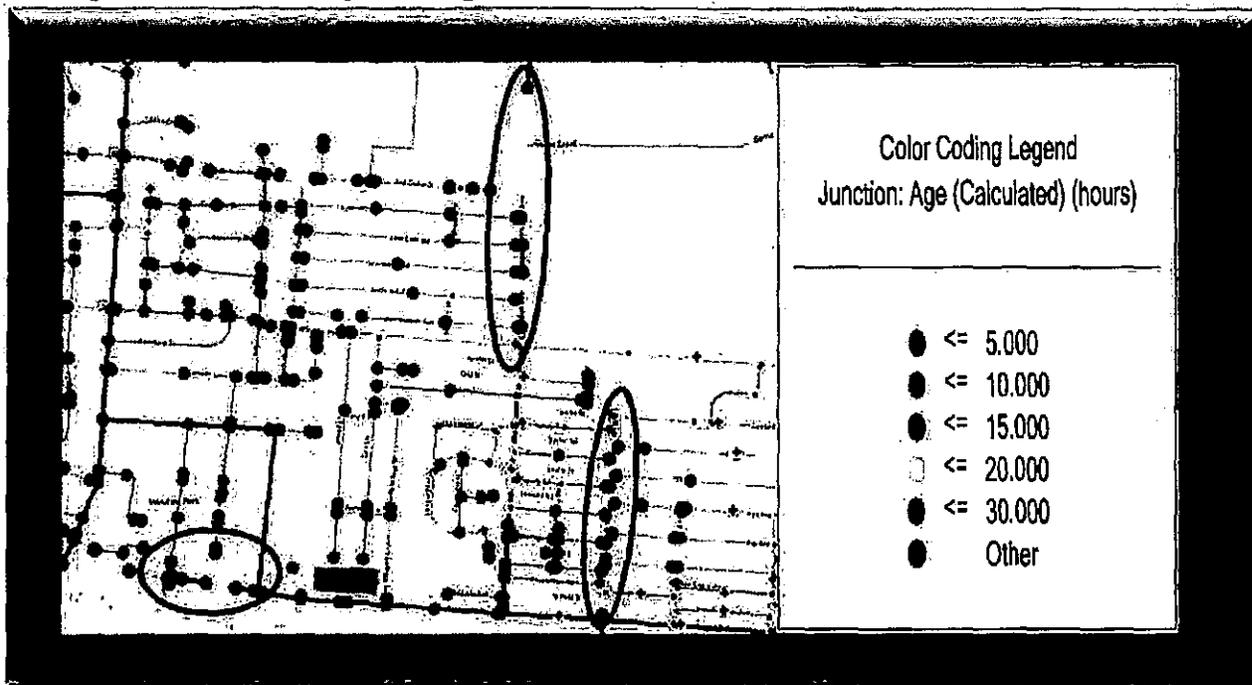
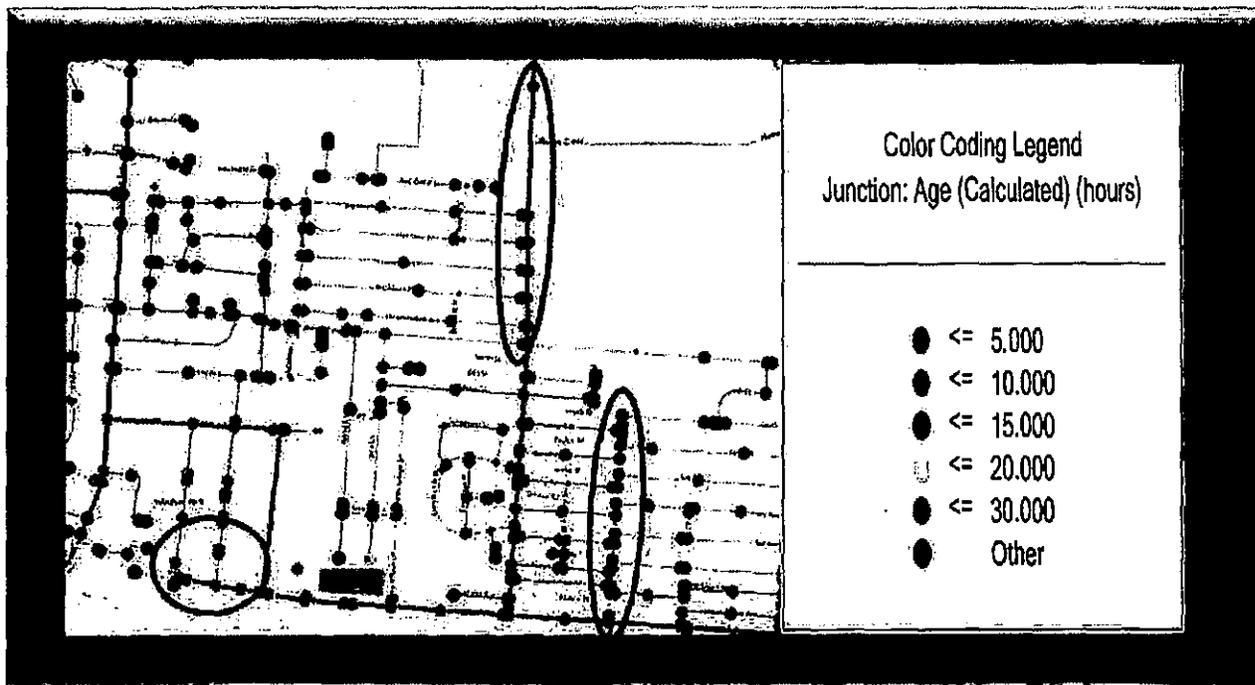


Figure 1-8: Water Age After Capital Improvements

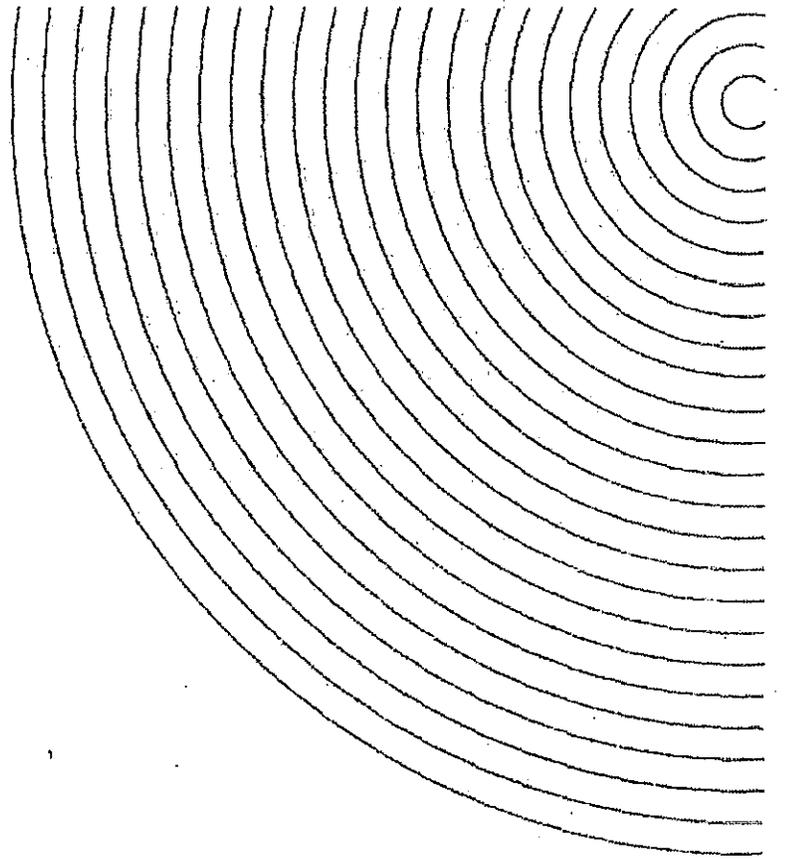




SUEZ Water maintains a hydrant and valve testing program to identify where regular maintenance work may be required to prevent valve or hydrant failure. While, not necessary to operate all valves and hydrants annually, SWTR operates on average 3,000 system valves, and approximately 2,500 hydrants, representing over 35 percent and 72 percent respectively, annually. The Company replaces deteriorated, damaged, and un-repairable valves to improve customer service and maintain system integrity. SWTR exercises all system blow-off valves at least every year. Interconnections are tested every year including operating the valves and visually observing water flow through the system. SWTR works closely with the towns it serves to resolve any concerns that may arise during the use of its hydrants during firefighting efforts and training or during authorized hydrant usage. Additionally, SUEZ Water has a flow testing program that it conducts on an annual basis so that at least fifty hydrants are flow tested each year. These hydrants are selected based upon requests from developers and Insurance Services Office, as well as those selected internally for investigation. SUEZ Water personnel conduct tests and share results with the appropriate departments.

SWTR manages "blanket projects" for hydrant, short main and valve, domestic service, fire service replacement projects and unreimbursed utility relocation. Short main replacement projects are classified as those major main breaks requiring the replacement of existing water pipe. SUEZ Water maintains this formatting for controlling and tracking capital costs as it is not possible to pre-determine the quantity of such replacements or where these replacements will be needed.

In addition to main replacement and rehabilitation SUEZ actively conducts leak testing on small and large diameter mains to locate and repair invisible (non-surfacing) leaks before they result in breaks and unplanned service interruptions. This practice helps extend the useful life of the Company's underground assets, as well as help maintain system integrity, allowing the minimization of service interruptions SUEZ Water customers may experience.



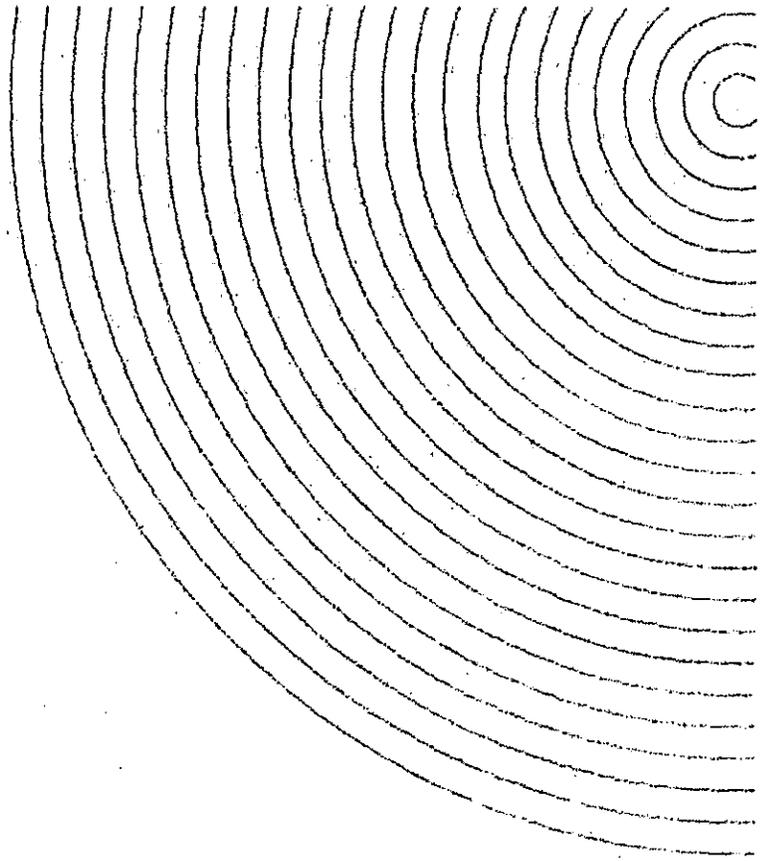
Projected Annual Spending 2018-2022



SUEZ Water Toms River
Projected Annual Spending

DSIC Classification	2018	2019	2020	2021	2022
Main Replacement Projects - D600	\$75,000	\$4,700,000	\$ 4,409,000	\$6,192,000	\$7,621,000
Dead End Looping			\$1,791,000		
Blanket Structured Projects					
Hydrant Replacement - D501	\$10,000	\$75,000	\$75,000	\$75,000	\$75,000
Valve Replacement - D503	\$15,000	\$100,000	\$100,000	\$100,000	\$100,000
Domestic Service Replacement - F501	\$170,000	\$800,000	\$700,000	\$625,000	\$625,000
Fire Service Replacement - F503	\$10,000	\$50,000	\$50,000	\$50,000	\$50,000
TOTAL	\$280,000	\$5,725,000	\$7,125,000	\$7,042,000	\$8,471,000

Note: 2018 costs represent October to December



**Company Funded Main Replacement
Projects Planned for 2018-2022**



United Water Toms River
 DSIC Foundational Filing
 MAH Replacement

Table 1 - SUEZ Water Toms River - Main Replacement Projects - D600

Replace asbestos concrete mains with fifteen years or less remaining service life selected either from mains that have been condition assessed from a list of roads on the Townships road replacement and renewal program, or through an analysis of aged, asbestos cement, small diameter mains in high density zoning. Where possible the schedule prepared to work with Township, County and State pavement programs. For subsequent years, the main replacements have been selected based upon main size, age and housing density and analysis completed for Master Plan Amendment. On an annual basis, this list will be reassessed using various tools including the acoustical analysis, operational data, and pavement schedules due to moratoriums. This list represents the type, character and length of mains to be replaced through this program.

Project Limits	Project Number	Project No. Ext	Town	Original Main			Length	Project Scope	Proposed Main		Install Year	Est. Cost	Performance Criteria	Renewal Method
				Size	Material	Year Inst.			Size	Material				
Kettle Creek Road	C18D602	0.01	Toms River	8	AC	1965	4800		12	DI	2018	\$ 75,000	Age and Material	Replacement
Belmont Drive	C19D601	0.01	South Toms River	6	AC	1958	2100		8	DI	2019	\$ 630,000	Age and Material	Replacement
Ardmore Ave	C19D601	0.02	South Toms River	6/8	AC	1958	1450		8	DI	2019	\$ 435,000	Age and Material	Replacement
W Water Street	C19D602	0.01	Toms River	8	AC	1950	500		12	DI	2019	\$ 1,500,000	Redundancy, Age and Material	Replacement
Flint Road	C19D603	0.01	South Toms River	4/6	CI/AC	1950	2975		8	DI	2019	\$ 893,000	Age, Size and Material	Replacement
S Main Street	C19D603	0.02	South Toms River	6/8	CI/AC	1950	2320		12	DI	2019	\$ 754,000	Age, Size and Material	Replacement
Dover Road	C19D603	0.03	South Toms River	6	CI/AC	1950	1500		12	DI	2019	\$ 488,000	Age, Size and Material	Replacement
Bonair Drive	C20D601	0.01	Berkeley	6/8	AC	1976	3040		8	DI	2020	\$ 912,000	Age, Material, and Aggressive soils	Replacement
Harrington Dr N	C20D601	0.02	Berkeley	8	AC	1975	3850		8	DI	2020	\$ 1,155,000	Age, Material; and Aggressive soils	Replacement
Grenada Street	C20D601	0.03	Berkeley	6/8	AC	1970	2770		8	DI	2020	\$ 831,000	Age, Material, and Aggressive soils	Replacement
Tara Ct	C20D601	0.04	Toms River	2	PE	1980	220		6	DI	2020	\$ 66,000	Material and Size	Replacement
Kim Lane	C20D601	0.05	Toms River	2	PE	1980	200		6	DI	2020	\$ 60,000	Material and Size	Replacement
Pallsades Drive	C20D602	0.01	Toms River	4/6	AC	1966	900		6/8	DI	2020	\$ 270,000	Age, Material, and Aggressive soils	Replacement

United Water Toms River
DSC Foundational Filing
Main Replacement

Project Limits	Project Number	Project No. Ext	Town	Original Main			Length	Project Scope	Proposed Main		Install Year	Est. Cost	Performance Criteria	Renewal Method
				Size	Material	Year Inst.			Size	Material				
Niagara Drive	C20D602	0.02	Toms River	6	AC	1966	1225		8	DI	2020	\$ 368,000	Age, Material, and Aggressive soils	Replacement
Catskill Court	C20D602	0.03	Toms River	4	AC	1966	200		6	DI	2020	\$ 60,000	Age, Material, and Aggressive soils	Replacement
Alcapuco Place	C20D602	0.04	Toms River	6	AC	1965	475		8	DI	2020	\$ 143,000	Age, Material, and Aggressive soils	Replacement
Caribbean Court	C20D602	0.05	Toms River	4	AC	1965	320		6	DI	2020	\$ 96,000	Age, Material, and Aggressive soils	Replacement
Catalina Court	C20D602	0.06	Toms River	4	AC	1965	180		6	DI	2020	\$ 54,000	Age, Material, and Aggressive soils	Replacement
Key West Court	C20D602	0.07	Toms River	4	AC	1966	225		6	DI	2020	\$ 68,000	Age, Material, and Aggressive soils	Replacement
Mount Nebo Lane	C20D602	0.08	Toms River	4	AC	1967	175		6	DI	2020	\$ 53,000	Age, Material, and Aggressive soils	Replacement
Palm Springs Court	C20D602	0.09	Toms River	4	AC	1966	200		6	DI	2020	\$ 60,000	Age, Material, and Aggressive soils	Replacement
Bear Mountain Court	C20D602	0.10	Toms River	4	AC	1966	240		6	DI	2020	\$ 72,000	Age, Material, and Aggressive soils	Replacement
Pocono Place	C20D602	0.11	Toms River	4	AC	1965	180		6	DI	2020	\$ 54,000	Age, Material, and Aggressive soils	Replacement
St Moritz Place	C20D602	0.12	Toms River	4	AC	1965	290		6	DI	2020	\$ 87,000	Age, Material, and Aggressive soils	Replacement
Dayton Ave	C21D602	0.01	Toms River	6	AC/CI	1950	2000		8	DI	2021	\$ 600,000	Age, Material and Size	Replacement
N Central Ave	C21D602	0.02	Toms River	4/6	AC	1950	715		8	DI	2021	\$ 215,000	Age, Material and Size	Replacement
Terrace Ave	C21D602	0.03	Toms River	4	AC	1950	900		8	DI	2021	\$ 270,000	Age, Material and Size	Replacement
Hedge Street	C21D602	0.04	Toms River	4/6	AC	1950	500		8	DI	2021	\$ 150,000	Age, Material and Size	Replacement

United Water Toms River
 DSIC Foundational Filig
 Main Replacement

Project Limits	Project Number	Project No. Ext	Town	Original Main			Length	Project Scope	Proposed Main		Install Year	Est. Cost	Performance Criteria	Renewal Method
				Size	Material	Year Inst.			Size	Material				
Lowell Ave	C21D602	0.05	Toms River	4	AC	1950	750		8	DI	2021	\$ 225,000	Age, Material and Size	Replacement
Grant Drive	C21D602	0.06	Toms River	2	GA	1950	750		8	DI	2021	\$ 225,000	Age, Material and Size	Replacement
Melrose Drive	C21D602	0.07	Toms River	6	AC	1968	600		8	DI	2021	\$ 180,000	Age, Material and Size	Replacement
Ray Drive	C21D602	0.08	Toms River	6	AC	1956	750		8	DI	2021	\$ 225,000	Age, Material and Size	Replacement
Orchard Street	C21D602	0.09	Toms River	6	AC	1950	660		8	DI	2021	\$ 198,000	Age, Material and Size	Replacement
Spruce Street	C21D602	0.10	Toms River	4/6	AC	1950	560		8	DI	2021	\$ 168,000	Age, Material and Size	Replacement
Hadley Ave	C21D603	0.01	Toms River	2/4/6/8	Galv/CI/AC/PVC	1950	2300		8	DI	2021	\$ 690,000	Age, Material and Size	Replacement
Lafayette Ave	C21D603	0.02	Toms River	6	CI/AC	1950	660		8	DI	2021	\$ 198,000	Age, Material and Size	Replacement
Lexington Ave	C21D603	0.03	Toms River	2/6	Galv/AC	1952	890		8	DI	2021	\$ 267,000	Age, Material and Size	Replacement
Franklin Ave	C21D603	0.04	Toms River	6	AC	1955	1340		8	DI	2021	\$ 402,000	Age, Material and Size	Replacement
Grand Ave	C21D603	0.05	Toms River	2/4/6/10/12	Galv/AC	1953	3500		8/12	DI	2021	\$ 1,138,000	Age, Material and Size	Replacement
Falcons Drive	C21D603	0.06	Toms River	4	AC	1952	450		8	DI	2021	\$ 135,000	Age, Material and Size	Replacement
Madison Ave	C21D603	0.07	Toms River	4	AC	1959	1820		8	DI	2021	\$ 546,000	Age, Material and Size	Replacement
Clinton Ave	C21D603	0.08	Toms River	2/6	PE/AC	1959	1200		8	DI	2021	\$ 360,000	Age, Material and Size	Replacement
Cardinal Drive	C22D601	0.01	Toms River	6/8	AC	1970	3300		12	DI	2022	\$ 1,073,000	Age, Material and Size	Replacement

United Water Toms River
 DSC Foundational Filtration
 Main Replacement

Project Limits	Project Number	Project No. Ext	Town	Original Main		Length	Project Scope	Proposed Main		Intall Year	Est. Cost	Performance Criteria	Renewal Method
				Size	Material			Size	Material				
Sands Point Drive	C22D601	0.02	Toms River	6	AC	720		12	DI	2022	\$ 234,000	Age, Material and Size	Replacement
Oak Ridge Parkway	C22D601	0.03	Toms River	8	AC	1250		12	DI	2022	\$ 407,000	Age, Material and Size	Replacement
Hyers Street	C22D602	0.01	Toms River	4	AC	530		12	DI	2022	\$ 173,000	Age, Size and Material	Replacement
Washington Street	C22D602	0.02	Toms River	6/8	AC	2775		12	DI	2022	\$ 502,000	Age, Size and Material	Replacement
Robbins Street	C22D602	0.03	Toms River	4/6/8	AC	625		8	DI	2022	\$ 188,000	Age and Material	Replacement
Allen Street	C22D602	0.04	Toms River	4	AC	680		8	DI	2022	\$ 204,000	Age and Material	Replacement
Malden Lane	C22D602	0.05	Toms River	4	AC	675		8	DI	2022	\$ 203,000	Age, Size and Material	Replacement
Brooks Road	C22D602	0.06	Toms River	2/4	GAJ/AC	930		8	DI	2022	\$ 279,000	Age, Size and Material	Replacement
Hooper Ave	C22D602	0.07	Toms River	4/6/10	AC	2040		8/12	DI	2022	\$ 663,000	Age, Size and Material	Replacement
D'Eckerson Ave	C22D603	0.01	Toms River	4/6/12	CI/AC	1200		8/12	DI	2022	\$ 390,000	Age, Size and Material	Replacement
Batchelor Street	C22D603	0.02	Toms River	4/6/12	AC	1425		12	DI	2022	\$ 464,000	Age, Size and Material	Replacement
W Woodland Ave	C22D603	0.03	Toms River	2/4	PE/AC	715		8	DI	2022	\$ 218,000	Age, Size and Material	Replacement
E Woodland Ave	C22D603	0.04	Toms River	4	AC	480		8	DI	2022	\$ 144,000	Age, Size and Material	Replacement
Lafayette Ave	C22D603	0.05	Toms River	6	AC	1330		8	DI	2022	\$ 417,000	Age, Size and Material	Replacement
Terrace Ave	C22D603	0.06	Toms River	6	AC	3500		8	DI	2022	\$ 1,050,000	Age, Size and Material	Replacement

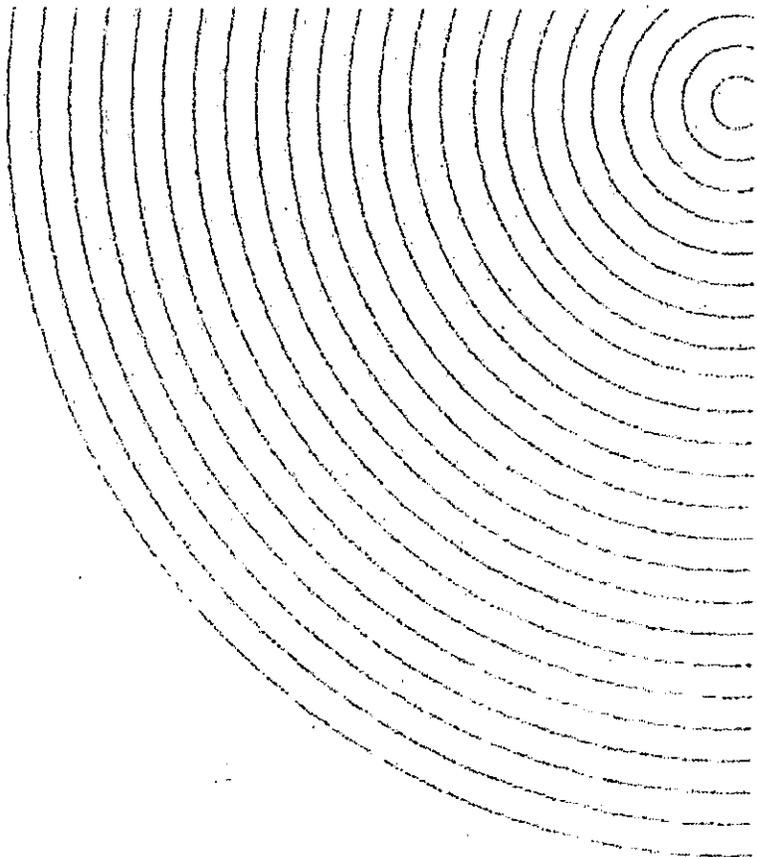
United Water Toms River
 DSC Foundational Fibre
 Main Replacement

Project Limits	Project Number	Project No. Est	Town	Original Main			Length	Project Scope	Proposed Main		Est. Cost	Performance Criteria	Renewal Method
				Site	Material	Year Inst.			Size	Material			
Maria Street	C220603	0.07	Toms River	6	AC	1956	1650		8	DI	\$ 495,000	Age, Size and Material	Replacement
Russo Place	C220603	0.08	Toms River	2	Glv	1950	390		8	DI	\$ 117,000	Age, Size and Material, Dead End Looping	Replacement

Table 2 - SUEZ Water Toms River - Main Replacement Projects - Dead End Looping D600

Project Limits	Project Number	Project No. Ext	Town	Original Main			Length	Project Scope	Proposed Main		Install Year	Est. Cost	Performance Criteria	Renewal Method
				Size	Material	Year Inst.			Size	Material				
Parkwood Ave	C20D603	0.01	Toms River	N/A	N/A	N/A	300		8	DI	2020	\$ 90,000	Dead End Looping	Replacement
Adams Ave	C20D603	0.02	Toms River	N/A	N/A	N/A	275		12	DI	2020	\$ 90,000	Dead End Looping	Replacement
Roosevelt Ave	C20D603	0.03	Toms River	N/A	N/A	N/A	1600		8	DI	2020	\$ 480,000	Dead End Looping	Replacement
Coolidge Ave	C20D603	0.04	Toms River	N/A	N/A	N/A	1975		12	DI	2020	\$ 642,000	Dead End Looping	Replacement
W Briar Ave	C20D603	0.05	Toms River	N/A	N/A	N/A	675		12	DI	2020	\$ 220,000	Dead End Looping	Replacement
Continental Ave	C20D603	0.06	Toms River	N/A	N/A	N/A	175		12	DI	2020	\$ 57,000	Dead End Looping	Replacement
Massachusetts Ave	C20D603	0.07	Toms River	N/A	N/A	N/A	650		12	DI	2020	\$ 212,000	Dead End Looping	Replacement

\$ 1,791,000



Appendix 1

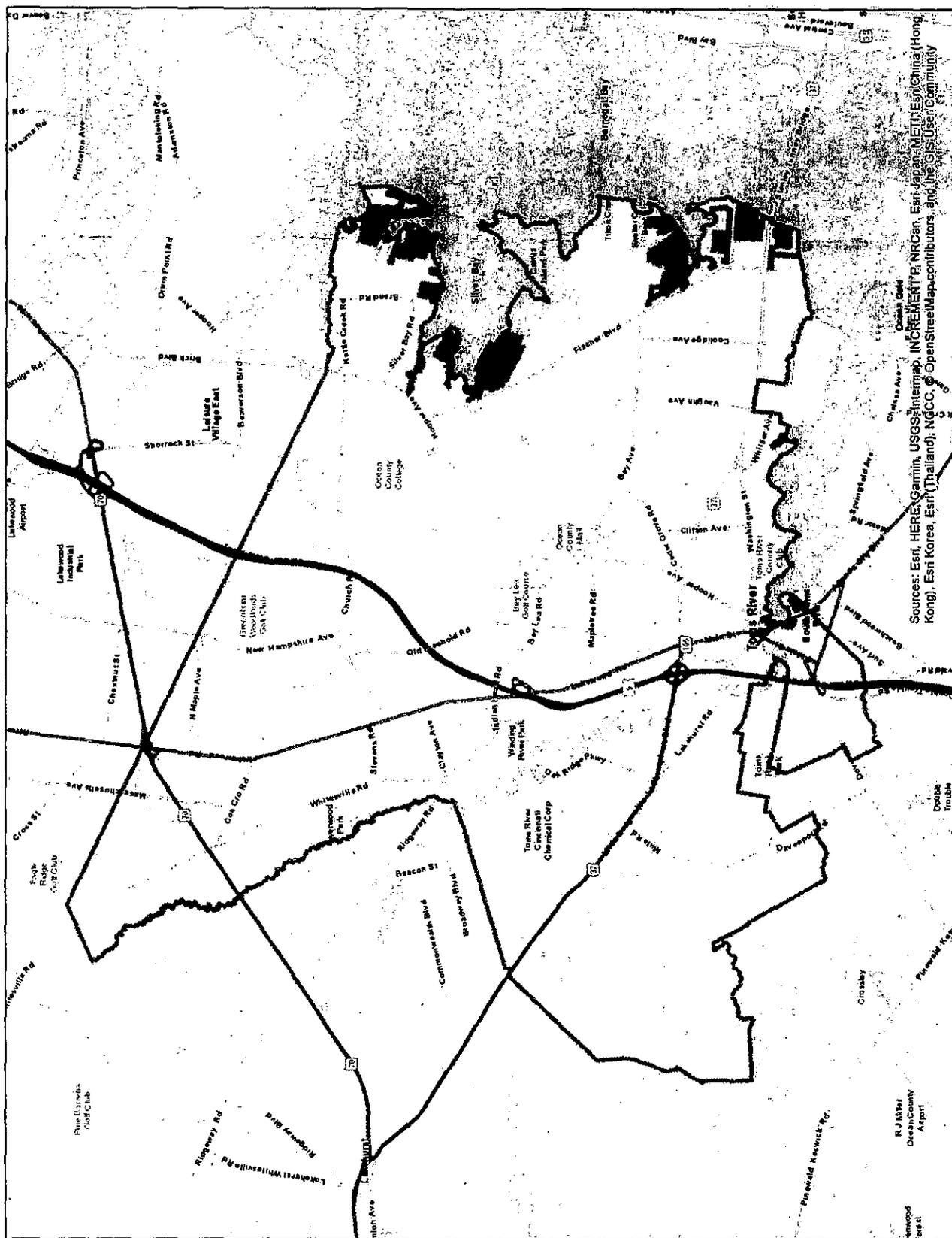
***Confidentiality is required for this Appendix due to sensitive information relating to systems operations**



Appendix 2

SUEZ Water Toms River Service Area Map





Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

Appendix 3

SUEZ Water Toms River DSIC Main Replacement Map

***Confidentiality is required for this Appendix due to sensitive information relating to systems operations**



ATTACHMENT B

**SUEZ Water New Jersey Merged
 DSIC Foundational Filing
 DSIC Assessment Schedule**

Exhibit P-3
 Page 1 of 3
 Revised 1/2/19

	Total Number of bills (3)	Meter Equivalent Ratios	Equivalent 5/8" inch Meters	Maximum DSIC Amount by equivalent Meter	Maximum Monthly Charge per Meter
Metered Sales:					
5/8"	2,490,816	1.00	2,490,816	\$8,369,142	\$3.36
3/4"	200,151	1.50	300,227	1,004,758	5.02
1"	156,851	2.50	392,128	1,315,980	8.39
1 1/2"	38,053	5.00	190,265	640,051	16.82
2"	34,858	8.00	278,864	936,983	26.88
3"	11,027	15.00	165,405	555,761	50.40
4"	5,964	25.00	149,100	500,976	84.00
6"	2,660	50.00	133,000	446,880	168.00
8"	66	80.00	5,280	17,741	268.80
10"	24	115.00	2,760	9,274	386.40
		165.00			554.40

<u>2,940,470</u>	<u>4,107,844</u>	<u>\$13,797,546</u> [1]
		<u>\$13,797,646</u>
		3.35885 [2]

[1] Approved revenues from Docket No. WR18050593 effective _____

\$275,952,916

Five percent "DSIC Cap" per 44 NJR 1723(a)

X 5%

Maximum amount of Annual DSIC Revenues

\$13,797,646

[2] Amount per equivalent meter (\$13,797,646 / 4,107,844)

[3] Pro forma at September 30, 2018

ATTACHMENT C

REVISED

NOTICE OF PUBLIC HEARING SUEZ WATER NEW JERSEY, INC. and SUEZ WATER TOMS RIVER, INC.

NOTICE OF FILING OF A PETITION FOR APPROVAL OF A DISTRIBUTION SYSTEM IMPROVEMENT CHARGE FOUNDATIONAL FILING PURSUANT TO N.J.A.C. 14:9-10.4 BPU Docket No. WR18101158

PLEASE TAKE NOTICE that on October 22, 2018, SUEZ Water New Jersey, 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. 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 proposed projects from 2018 through 2022. If the Foundational Filing is approved, the Company will be required to file a base rate case within three years of the effective date of the Foundational Filing. Please note that the Company proposes to collect a maximum DSIC revenue requirement of \$13,797,646 annually. 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.

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. 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.

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, \$13,797,646 cannot be exceeded.

PROPOSED DSIC SURCHARGE RATES BASED ON METER SIZE

General Metered Service Maximum Monthly DSIC Surcharge:

Size of Meter	5/8" Equivalent*	Proposed Rates
5/8"	1.0	\$3.36
3/4"	1.5	\$5.02
1"	2.5	\$8.39
1-1/2"	5.0	\$16.82
2"	8.0	\$26.88
3"	15.0	\$50.40
4"	25.0	\$84.00
6"	50.0	\$168.00
8"	80.0	\$268.80
10"	115.0	\$386.40
12"	165.0	\$554.40

*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.

REVISED

PLEASE TAKE FURTHER NOTICE that a public hearing on the Company's petition has been scheduled for:

Wednesday February 13, 2019 at 1:00 p.m. at the Toms River Board Meeting Room #119, First Floor Administration Building, 101 Hooper Avenue, Toms River, NJ 08753

Wednesday February 13, 2019 at 5:30 p.m. at the Hackensack City Clerks Office, 65 Central Avenue, 3rd Floor (Counsel Chambers), Hackensack, NJ 07604.

In the event of inclement weather on Wednesday February 13 and the hearing is cancelled the hearing will be held on Friday February 15, 2019 at the same times and locations noted above.

A hearing officer designated by the Board will preside over the public comment hearing. Members of the public are invited to attend and express their views on the proposed DSIC mechanism. Such comments will be made a part of the final record in the proceeding. Written comments may be submitted to the Hon. Aida Camacho-Welch, Secretary, Board of Public Utilities, 44 S. Clinton Avenue, 3rd Floor, Suite 314, P.O. Box 350, Trenton, New Jersey 08625-0350. Please include Docket Number WR18101158 in your comment letter.

Notice of the Petition was also served on the Clerks of Municipalities, County Executives and the Clerks of the County Boards of Freeholders in the service area of the Company. Further information and copies of the Petition may be obtained at the Board's offices located at 44 S. Clinton Avenue, 3rd Floor, Suite 314, P.O. Box 350, Trenton, New Jersey 08625-0350 or at the Company's offices located at 400 From Road, Paramus, NJ 07652. The filing is available online at: www.mysuezwater.com.

Please submit any requests for special accommodation at least 72 hours prior to this hearing to SUEZ Water New Jersey, contact person: Gary Prettyman 201-784-7083.