CAPITAL EFFICIENCY PLAN™

April 2020

Cost Estimates Revised April 2023

Falmouth, Massachusetts

TATA & HOWARD

TATA & HOWARD

April 15, 2020

Mr. Stephen Rafferty, Water Superintendent
Falmouth Department of Public Works
416 Gifford Street
Falmouth, MA 02540

Subject: Capital Efficiency Plan™
Falmouth, Massachusetts
T&H No. 5327

Dear Mr. Rafferty:

In accordance with our agreement, Tata & Howard is pleased to present the Capital Efficiency Plan™ for the Town of Falmouth's water distribution system. The analysis and improvements in this report are based on the Three Circles Approach for optimum capital efficiency, which combines hydraulic and critical component considerations with an asset management rating system to evaluate the condition of the water mains in the distribution system. Supply and storage needs were also evaluated in this report.

Hydraulic recommendations were developed as part of this study. Critical areas of the system were identified and tested in the hydraulic model for redundancy. Finally, each segment of water main was evaluated based on age, material, diameter, water quality, break history, and soil characteristics to determine an asset management score. The results were combined to determine the water mains most in need of replacement and establish a prioritized set of improvements in the system. A detailed description of the improvements and estimated costs is presented in Section 7.

During the course of this project, Mr. Ryan Neyland, P.E. served as Project Manager, Mr. Philip MacClellan, P.E. served as Project Engineer, Ms. Kathryn Carreira served as Assistant Project Engineer, and Ms. Karen Gracey, P.E. provided technical reviews.

At this time, we wish to express our continued appreciation to the Town of Falmouth for their participation in this study and for their help in collecting information and data. We appreciate the opportunity to assist the Town of Falmouth on this important project.

Sincerely,

TATA & HOWARD, INC.

Ryan P. Neyland

Ryan Neyland, P.E.
Vice President

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Section 1

TATA & HOWARD

SECTION 1 – Executive Summary

1.1 General

Tata & Howard, Inc. was retained by the Town of Falmouth to complete a Capital Efficiency Plan™ for the Falmouth water system. The purpose of the Capital Efficiency Plan™ (CEP) is to identify areas of the water distribution system in need of rehabilitation, repair, or replacement; and to prioritize improvements to make the most efficient use of the Town's capital budget. In addition to distribution system water mains, water supply and storage needs are evaluated and prioritized.

Tata & Howard evaluated the water distribution system piping using the Three Circle Approach, which consists of the following evaluation criteria:

- System hydraulic evaluation,
- Critical component assessment,
- Asset management considerations.

Each circle represents a unique set of evaluation criteria for each water main segment. From each set of criteria, system deficiencies are identified and then compared. Any deficiency that falls into more than one circle is given higher priority than one that falls into a single circle. Using the Three Circle Approach, recommended improvements will result in the most benefit to the system. In addition, the Three Circle Approach allows us to identify any situations that mitigate a deficiency in one circle and eliminate a deficiency in another circle. By integrating all three sets of criteria, the infrastructure improvement decision making process and overall capital efficiency are optimized.

1.2 System Hydraulics

Data provided by the Massachusetts Department of Conservation and Recreation (DCR) 2015 Water Needs Forecasts was used to estimate a projected 2040 population of 47,705 for the Town of Falmouth, including annualized seasonal population. Based on the DCR 2015 Water Needs Forecast, the normal seasonal demand variations due to population changes, and typical water consumption, the estimated projected average day demand (ADD) for the year 2040 is approximately 4.78 million gallons per day (mgd). The projected 2040 ADD, historical ADD, and maximum day demand (MDD) data was used to project a 2040 MDD of approximately 11.09 mgd. These demand projections were input into the hydraulic model and simulations were run to identify the system's ability to provide adequate water at adequate pressure during both average day and maximum day demands. The model runs identified multiple areas where system hydraulic deficiencies may exist. The demand projections were also used to review existing and projected water supply and water storage needs for the water system.

Hydraulic deficiencies were identified as part of a system wide evaluation to review transmission capabilities of the system, review the system's ability to provide Insurance Service Office (ISO) recommended fire flows, and eliminate dead ends and bottlenecks in the system, when possible.

1.3 Critical Components

A critical component assessment was performed for the water distribution system to evaluate the impact of potential water main failures on the system. The critical component assessment includes identification of critical areas served, critical water mains, and the need for redundant mains. Critical areas served were identified by the Falmouth Department of Public Works (DPW) Water Division staff and include water department facilities, medical facilities, schools, and critical institutions, including those in Woods Hole. Critical water mains include primary transmission lines, mains connecting water storage tanks and sources to the system, mains that will cause a system demand shortfall of 1.0-percent or greater if a break occurs, and water mains that cross rivers, streams, waterways, and railroad tracks.

1.4 Asset Management

An asset management evaluation was completed on all water mains in the water distribution system. A number of factors were considered in the rating system, including installation year, diameter, material, water quality, break history, and soil characteristics. These factors affect the decision to replace or rehabilitate a water main. Using the asset management rating approach, each water main in the system was assigned a rating based on these factors. Water mains with a total rating between zero and 19 are considered to be in good to excellent condition. Mains with a total rating between 20 and 39 are considered to be in fair to good condition, and mains with a total rating of 40 or greater are considered to be in poor to fair condition.

1.5 Distribution System Evaluation

Utilizing the Three Circles Approach, water main improvements were recommended and prioritized based on the aforementioned criteria. Phase I improvements generally include any recommended improvements that fall into all three circles and are hydraulically deficient, critical, and have a high asset management score. The total estimated probable construction cost of the Phase I recommended improvements is approximately $6,740,000. Phase II improvements include any recommended improvements that fall into two of the circles. The total estimated probable construction cost of the Phase II recommended improvements is approximately $42,315,000. Phase III recommendations include any recommended improvements that are needed hydraulically or any recommended improvements that have a high asset management score indicating poor to fair condition. Phase III improvements have been split into two categories. Phase IIIA improvements represent any remaining hydraulic improvements and Phase IIIB improvements are the water mains with high asset management scores that do not fall into any other circle. The total estimated probable construction cost of Phase IIIA improvements is approximately $6,430,000. The total estimated probable construction cost of Phase IIIB improvements is approximately $176,360,000. These water mains are identified on the Recommendations Maps in Appendix G.

Costs are based on recent bid tabulations and do not consider escalation based on an actual planned construction date for each recommended improvement. Estimated costs for each improvement include construction costs for the water main, hydrants, services, appurtenances, and temporary and permanent pavement. A 25 to 30-percent allowance for engineering, permitting, and contingency is included in each project's estimated cost. The standard allowance for engineering

and contingency is 25-percent, but for any improvements that include a bridge crossing or horizontal directional drill, the allowance is increased to 30-percent due to the complexities associated with these projects.

1.6 Water Supply Evaluation

The existing water supply sources were evaluated relative to current and future water demands. The Town currently exceeds its total permitted and registered annual average daily withdrawal volume of 4.31 mgd, and the estimated projected ADD for the year 2040 will continue to exceed the current authorized withdrawal volumes. However, the Town has a surplus of water when comparing the maximum allowable daily withdrawal rates for each source with the estimated projected 2040 MDD. The Town's Water Management Act Permit renewal is currently under review by the Massachusetts Department of Environmental Protection and included a request to increase the total authorized average annual daily withdrawal volume to 5.00 mgd.

1.7 Water Storage Evaluation

The projected demands and existing water distribution system operating conditions were considered to evaluate the available storage in the system. The current and projected 2040 required storage in the Town's Main Service Area (MSA) was estimated to be approximately 2.17 million gallons (mg) and 2.19 mg, respectively, and was based on storage needed to meet peak water demands and provide fire protection. The volume of usable storage, and therefore, the volume of storage deficit or surplus, varies based on which customer is considered to be at the highest elevation in the MSA of the distribution system. Based on a highest customer elevation of 140 feet above mean sea level, the MSA has a current storage surplus of 1.03 mg and a projected storage surplus of 1.01 mg in 2040.

1.8 Implementation of System Improvements

The list of water main improvements included in Section 7 is extensive due to the nature of this report. The prioritization of the recommended improvements based on the Three Circle Approach serves as a guide for implementation of the infrastructure improvements with the greatest to least benefit based on the prioritization and weighted criteria established jointly by the Falmouth DPW and Tata & Howard. The implementation of these improvements is intended to be completed over multiple years and will require close coordination with the Town's finance director and evaluation of water rates to determine appropriate funding sources. Based on the recommended system improvements and the estimated probable construction costs presented in this report, it is recommended that all Phase I and II improvements, which will provide the greatest benefit to the system, be completed over a 10-year period.

Section 2

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SECTION 2 – System Description and Operations

2.1 System Description

The Town of Falmouth's water distribution system has approximately 21,586 service connections, serving a population of approximately 33,000 in the winter and 77,500 in the summer. All of the customers served are metered for water consumption and billing purposes. The distribution system includes approximately 385 miles of water main ranging in diameter from less than two inches to 24-inches. Figure No. 2-1 displays the breakdown of water main size by diameter based on the miles of each size in the water distribution system. Approximately six percent of the system is 2-inch diameter main or less, one percent is 4-inch diameter main, 22 percent is 6-inch diameter main, 41 percent is 8-inch diameter main, four percent is 10-inch diameter main, 18 percent is 12-inch diameter main, seven percent is 16-inch diameter main, less than one percent is 18-inch diameter main, one percent is 20-inch diameter main, and less than one percent is 24-inch diameter main.

The distribution system pipe materials include unlined cast iron (CI), cement lined cast iron and bituminous lined cast iron (CLCI and CIBIT), ductile iron (DI), asbestos cement and bituminous lined asbestos cement (AC and ACBIT), copper, steel, plastic coated cement lined steel, wrought iron, plastic, polyvinyl chloride (PVC), and high density polyethylene (HDPE). Figure No. 2-2 displays the breakdown of water main materials based on the miles of each material in the water distribution system. Approximately 10 percent of the system is CI main, seven percent is CLCI or CIBIT main, 21 percent is DI main, 39 percent is AC or ACBIT main, two percent is copper, steel, or plastic coated cement lined steel main, four percent is wrought iron main, and 17 percent is plastic, PVC, or HDPE main.

The Town has four active groundwater supply sources including the Fresh Pond Well, Coonamessett Well, Mares Pond Well, and Crooked Pond Well, and one active surface water supply source, the Long Pond Reservoir. The Town has four water storage facilities including the Technology Park Low Service Tank, Technology Park High Service Tank, Hayway Road Tank, and Mares Pond Tank. The system also includes a water supply interconnection with the Upper Cape Regional Water Supply Cooperative (UCRWSC), one emergency interconnection with the Bourne Water District, and two emergency interconnections with the Mashpee Water District. A map of the existing water distribution system is included in Appendix A.

The distribution system also includes raw water mains from the Coonamessett and Crooked Pond Wells to the Crooked Pond Water Treatment Plant (WTP) and from the Long Pond Raw Water Pump Station to the Long Pond Water Filtration Facility (WFF). The raw water mains are depicted differently than the potable water mains in the maps in the appendices. The raw water mains should be considered when reviewing the vulnerability and long-term maintenance of their respective water supplies. These pipes are 12-inch or greater ductile iron or PVC water mains which are appropriately sized for the required hydraulic capacity and have an excellent asset rating, and therefore, would not be considered a priority for replacement. However, in terms of the overall Falmouth system infrastructure, these mains should be identified and quantified as valuable assets which do have a useful life.

2.2 Water Supply Sources

The Town has two water treatment plants, the Crooked Pond WTP, located off Twin Oaks Drive, and the Long Pond WFF located off Gifford Street. Groundwater from the Crooked Pond Well and Coonamessett Well is treated at the Crooked Pond WTP, and surface water from the Long Pond Reservoir is treated at the Long Pond WFF.

Long Pond

The Long Pond surface water supply is located off Gifford Street between Brick Kiln Road and Pumping Station Road. It has been Falmouth's primary water source since the 1890s, typically producing 50 to 70 percent of the Town's water supply annually. The Long Pond Reservoir has a surface area of approximately 131 acres, and a storage capacity of approximately 4,974 million gallons (mg). The reservoir has a safe yield of 3.0 million gallons per day (mgd). Raw water is pumped from Long Pond to the Long Pond WFF via three 60 horsepower (HP) pumps located within the Long Pond Raw Water Pump Station. The Long Pond WFF has a capacity of 8.4 mgd and utilizes coagulation, mixing, flocculation, dissolved air flotation, an intermediate ozone feed, dual media filtration including granular activated carbon above sand, and chemical feed systems to treat raw water from Long Pond.

Fresh Pond Well

Fresh Pond Well is a 24-inch diameter gravel packed well located off Carriage Shop Road and was constructed in 1980. The Fresh Pond Well has one 60 HP vertical turbine pump. The well was most recently cleaned and redeveloped in 2011, resulting in a capacity of 656 gallons per minute (gpm) at 285 feet total dynamic head (TDH) following redevelopment. The well is 61.5 feet deep and has a screen length of ten feet. Water pumped from the well is injected at the pump station with sodium hydroxide for pH adjustment and corrosion control and sodium hypochlorite for disinfection. The Fresh Pond Well has been offline since 2017 as a result of perchlorate concentrations exceeding the Massachusetts Maximum Contaminant Level (MMCL) of 2.0 micrograms per liter (µg/L).

Coonamesset Well

Coonamessett Well is a 36-inch diameter gravel packed well located off Hatchville Road and was constructed in 1989. The Coonamessett Well has one 30 HP vertical turbine pump. The well was most recently cleaned and redeveloped in 2019, resulting in a capacity of 500 gpm at 145 feet TDH following redevelopment. The well is 64.5 feet deep and has a screen length of ten feet. Water is pumped from the Coonamessett Well to the Crooked Pond WTP where the water is treated through an aeration tower for the removal of volatile organic compounds (VOCs) and with greensand filtration for iron and manganese removal. VOCs are not currently detected in annual water quality sampling, but the aeration tower provides carbon dioxide removal and raises the pH of the water, reducing the volume of sodium hydroxide needed to raise the pH of the finished water. Activated carbon filtration provides another treatment barrier and mainly provides finished water quality polishing. Sodium hydroxide is added for pH adjustment and corrosion control, and sodium hypochlorite is added for disinfection.

Figure No. 2-1
Water Main Diameter Distribution

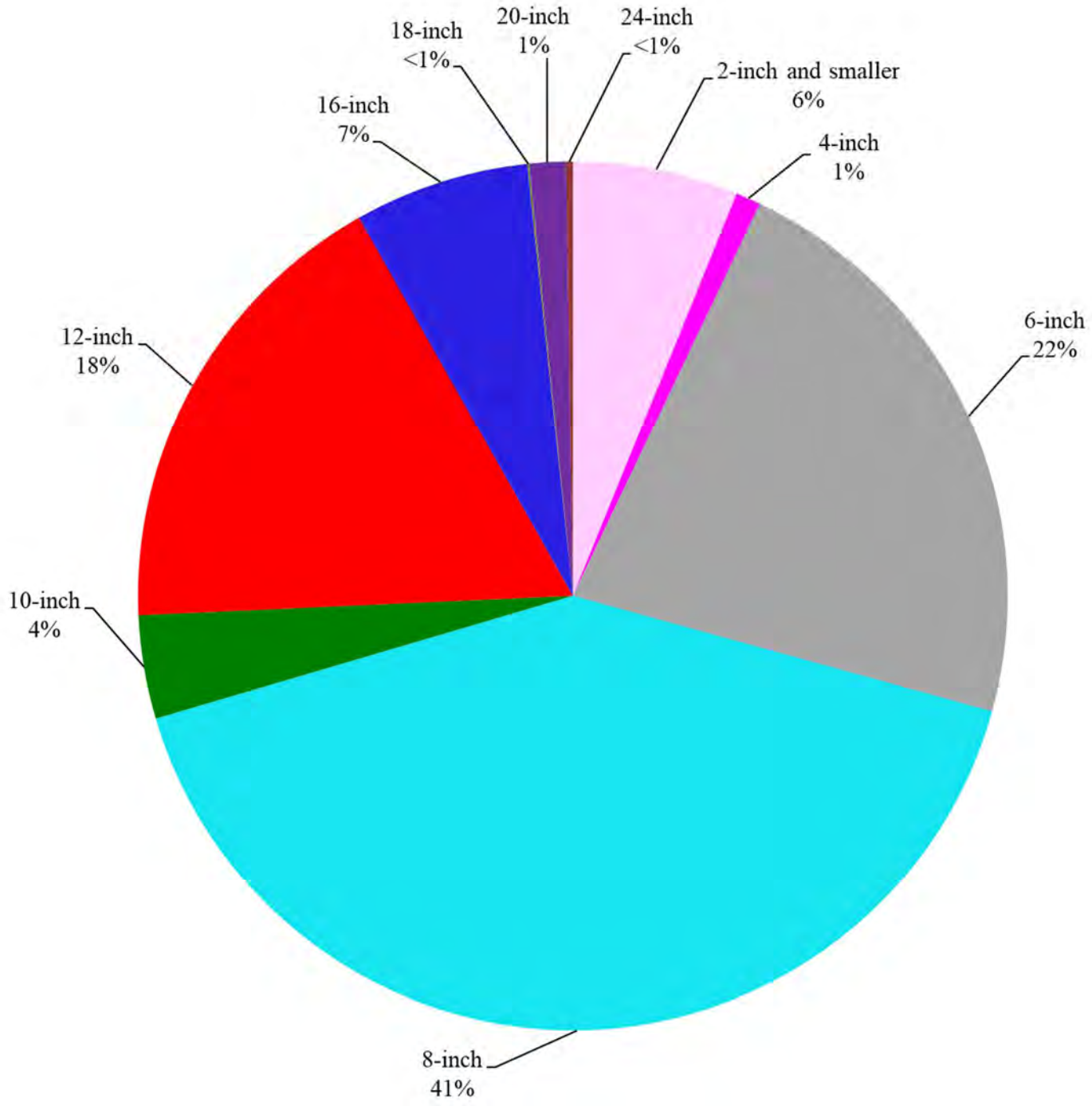
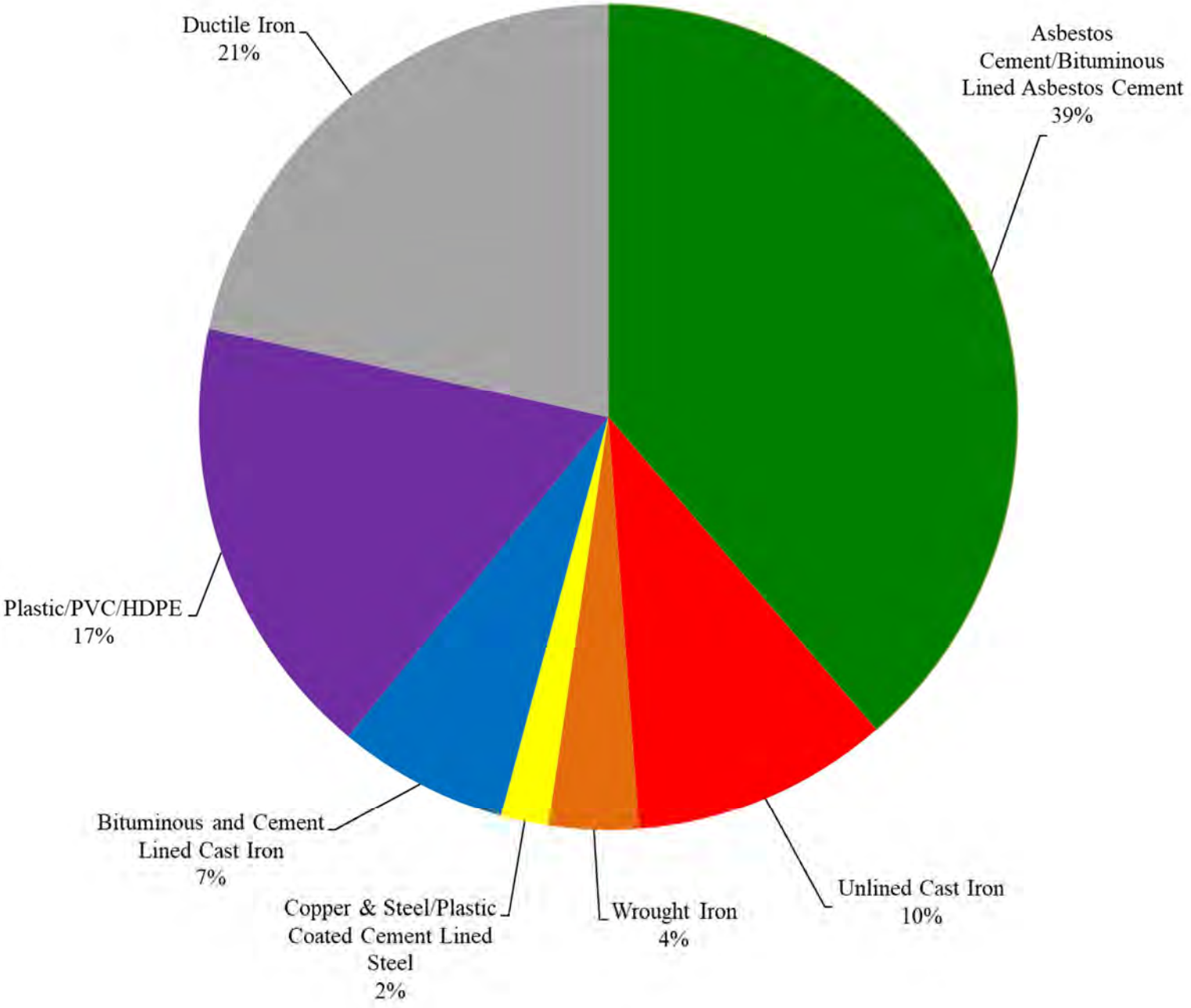


Figure No. 2-2
Water Main Material Distribution



Mares Pond Well

Mares Pond Well is a 24-inch diameter gravel-packed well located off Pattee Road and was constructed in 1993. The Mares Pond Well has one 40 HP vertical turbine pump. The well was most recently cleaned and redeveloped in 2011, resulting in a capacity of 286 gpm at 204 feet TDH following redevelopment. The well was tested again in 2017 and found to have a capacity of 225 gpm. The well is 96.1 feet deep and has a screen length of ten feet. Water pumped from the well is injected at the pump station with sodium hydroxide for pH adjustment and corrosion control and sodium hypochlorite for disinfection.

Crooked Pond Well

Crooked Pond Well is a gravel-packed well located off Sam Turner Road and was constructed in 2002. The Crooked Pond Well has one 50 HP vertical turbine pump. The well was most recently cleaned and redeveloped in 2019, resulting in a capacity of 500 gpm at 161 feet TDH following redevelopment. The well is 70 feet deep and has a screen length of 15 feet. Water is pumped from the Crooked Pond Well to the Crooked Pond WTP where the water is treated through an aeration tower for the removal of volatile organic compounds (VOCs) and with greensand filtration for iron and manganese removal. VOCs are not currently detected in annual water quality sampling, but the aeration tower provides carbon dioxide removal and raises the pH of the water, reducing the volume of sodium hydroxide needed to raise the pH of the finished water. Activated carbon filtration provides another treatment barrier and mainly provides finished water quality polishing. Sodium hydroxide is added for pH adjustment and corrosion control, and sodium hypochlorite is added for disinfection.

2.3 Water Storage Facilities

The Town has four water storage facilities with a total storage capacity of 8.0 million gallons.

Hayway Road Tank

The Hayway Road Tank is a 2.0 mg elevated composite storage tank located off Hayway Road. The structure consists of a concrete pedestal which supports the welded steel storage tank. The tank has an overflow elevation of 205 feet, a diameter of 98.5 feet, and a head range of 40 feet. The height of the tank from the overflow to the base of support is 139 feet. The tank was constructed in 2002 by Chicago Bridge & Iron Company.

Mares Pond Tank

The Mares Pond Tank is a 2.0 mg elevated composite storage tank located off Pattee Road. The structure consists of a concrete pedestal which supports the welded steel storage tank. The tank has an overflow elevation of 205 feet, a diameter of 98.5 feet, and a head range of 40 feet. The height of the tank from the overflow to the base of support is 143 feet. The tank was constructed in 2002 by Chicago Bridge & Iron Company.

Technology Park Low Service Tank

The Technology Park Low Service Tank is a 3.0 mg welded steel reservoir located off Technology Park Drive. The tank has an overflow elevation of 205 feet and a diameter of 98 feet. The height of the tank from the overflow to the base is 54 feet. The tank was constructed in 1986 by Chicago Bridge & Iron Company.

Technology Park High Service Tank

The Technology Park High Service Tank is a 1.0 mg elevated composite storage tank located off Bernard Saint Jean Drive. The structure consists of a concrete pedestal which supports the welded steel storage tank. The tank has an overflow elevation of 260 feet, a diameter of 72.25 feet, and a head range of 35 feet. The height of the tank from the overflow to the base of support is 148 feet. The tank was constructed in 2002 by Chicago Bridge & Iron Company. The Technology Park High Service Tank provides storage for the distribution system's High Service Area.

2.4 Interconnections

The Town of Falmouth maintains one active water supply interconnection with the UCRWSC. The interconnection with the UCRWSC has a typical pumping rate of 1.0 mgd. The interconnection has a metering station to meter the flow rate of water being supplied to the Town of Falmouth. Water is also injected at the metering station with sodium hydroxide for corrosion control and sodium hypochlorite for disinfection. The Town has one emergency interconnection with the Bourne Water District located at the intersection of Garnet Avenue in Falmouth and Megansett Road in Bourne. The Town also has two emergency interconnections with the Mashpee Water District, one located on Old Barnstable Road and one located on Waquoit Highway.

Section 3

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SECTION 3 – Water System Demands

3.1 General

For the purposes of evaluating the water needs of a community, several parameters are typically reviewed to better understand the demands of a distribution system. These parameters are defined in the sections below and are presented with existing and projected demand estimates.

3.2 Population Projections

Because population has a direct correlation to water consumption, the current and future service population for the Town was considered. Existing and historical population information from the United States Census Bureau and population projections from the Massachusetts Department of Conservation and Recreation (DCR) 2015 Water Needs Forecasts for Falmouth were reviewed to reflect actual and planned growth within the Town of Falmouth. The following section reviews historical population data and presents an estimated future population based on available information.

The Town of Falmouth's population fluctuates heavily depending on the season. According to the 2018 Annual Statistical Report (ASR), the Town's current population averages 33,000 people in the winter and 77,500 people in the summer. The 2018 ASR indicates a total population served of 51,498. This is a normalized year-round population value that was calculated by the Town of Falmouth using month-by-month water usage and was utilized to establish the demand value of 61 residential gallons per capita day (rgpcd) reported in the ASR.

According to the United States Census, the Town of Falmouth experienced an increase in year-round population from 1970 through 2000 and slight decline in population from 2000 to current day. From 1970 to 2000, the population increased ranging from approximately 14 percent to 33 percent per decade. However, from 2000 to 2010, the population decreased by approximately four percent. Overall, the Town of Falmouth experienced an increase in population of approximately 98 percent from 1970 to 2010. The population recorded during each decennial census is plotted in Figure No. 3-1. The U.S. Census also reports estimated populations for the years between U.S. Census surveys. The estimated population between 2012 and 2017 has continued to show a slight decline.

Population projection data was collected from DCR's 2015 Water Needs Forecasts and is also included in Figure No. 3-1. The projections are provided in 5-year intervals from 2020 through 2030. A 2040 population was projected by extending the 2020 to 2030 trends. The DCR population projections rely on year-round population data from the U.S. Census Bureau, population and employment projections issued by the Massachusetts Department of Transportation (MassDOT), seasonal population estimates developed from the University of Massachusetts Donahue Institute (UMDI) *2008 Survey of Cape Cod Second-Home Owners* in conjunction with U.S. Census Bureau data on seasonal homes, and information about service territory and anticipated patterns of growth obtained through conversations with the Falmouth Planning Department. An annualized seasonal population was included in the DCR population projections. The 2015 DCR population projections appear to follow the trends in population observed from

1970 through 2000, indicating a growth rate of approximately 3 to 4 percent per five-year interval. Based on DCR projections, the estimated 2040 population is approximately 47,705 for the Town of Falmouth, including annualized seasonal population.

3.3 Water System Demands

The DCR follows specific guidelines when projecting the water usage for communities in conjunction with the Massachusetts Department of Environmental Protection (MassDEP) Water Management Act (WMA) program. It is important to note that the DCR has a key role in the water management approval process and demand projections are required to be approved by DCR before MassDEP will approve development of a new water supply source or authorize the withdrawal of additional volume from existing sources.

The Massachusetts Water Resources Commission (MWRC) has adopted Water Management Standards for all registered and permitted withdrawals. The policy includes performance standards and conditions for all registered and permitted public water suppliers in the following areas:

- Maximum residential consumption of 65 gallons per capita per day (gpcd).
- Maximum of 10 percent unaccounted-for water.

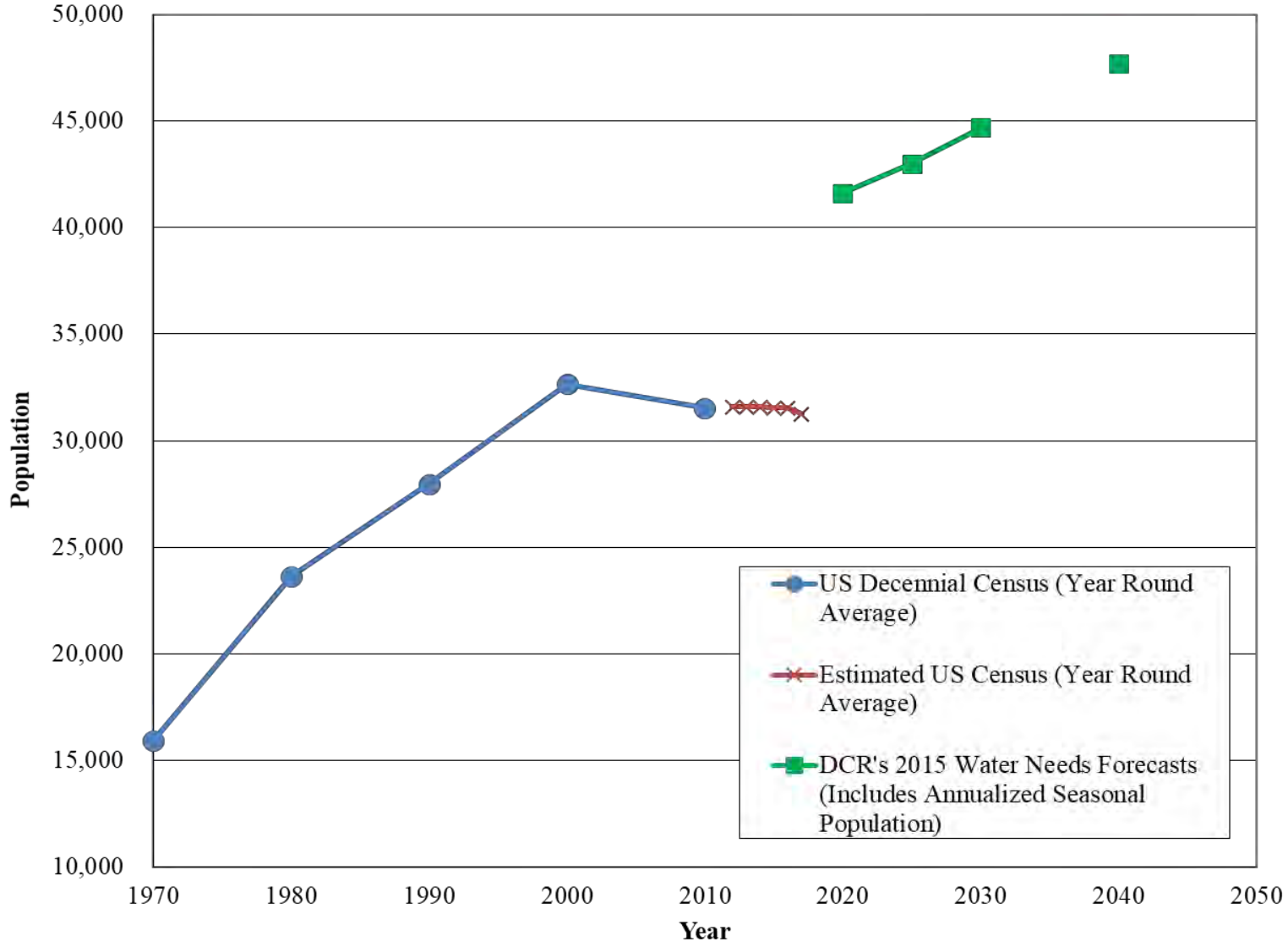
Residential Consumption

Residential consumption is calculated by dividing the volume of water supplied to residential connections by the reported population. Public Water Suppliers currently meeting the 65 gpcd standard are required to develop a Seasonal Demand Management Plan to manage non-essential outdoor water usage. Public Water Suppliers not consistently meeting the 65 gpcd are required to develop and implement MassDEP approved Compliance Plans, including the use of Best Management Practices to meet the residential consumption standard. Falmouth's residential consumption has ranged from approximately 53 to 67 gpcd between 2014 and 2018 as reported in the ASRs based on a normalized year-round population as indicated by the Town.

Non-residential Consumption

Non-residential water usage includes commercial, industrial, municipal, and recreational water use. The 2014 through 2018 ASRs show a fairly steady value in non-residential usage. The 2015 non-residential consumption was approximately 7 percent of the total amount of water pumped, while the non-residential consumption for years 2014 and 2016 through 2018 was approximately 12 percent of the total amount of water pumped for each year. Commercial, industrial, municipal, and recreational water use is not expected to increase significantly over the next 20 years; therefore, the most recent non-residential consumption of approximately 12 percent of total water pumped was utilized for water use projections.

Figure No. 3-1
Town of Falmouth Historic and Projected Populations



Unaccounted-for Water

Unaccounted-for water may consist of undocumented water used for municipal purposes such as street cleaning, water main flushing, and fire fighting, meter inaccuracies, and leakage in the distribution system. To help estimate the unaccounted-for water in a system, a Confidently Estimated Municipal Use (CEMU) is first estimated for documented uses such as fire protection and training, hydrant flushing, flow testing, water main breaks, etc. To qualify as a CEMU, calculations or documentation for each estimated use must be attached to a system's ASR or provided to MassDEP. Unaccounted-for water in a system can then be estimated by taking the total amount of water supplied minus the total water metered minus the CEMU. Unaccounted-for water is typically divided by the total water supplied and expressed as a percentage. The Town's reported unaccounted-for water from 2014 through 2018 has ranged from approximately 10 to 20 percent.

Average Day Demand

Average day demand (ADD) is the total water supplied to a community in one year divided by 365 days. This term is commonly expressed in mgd. This demand includes all water used for domestic (residential), commercial, and municipal purposes. The municipal component includes water used for system maintenance such as water main flushing and fire flows. In addition, the ADD includes unaccounted-for water attributed to unmetered water uses and system leakage. According to the ASRs between 2014 and 2018, the ADD supplied for the Town ranged from 4.41 mgd to 4.77 mgd.

DCR develops two different sets of water demand projections based on different criteria. The first set of projections is based on meeting the DCR guidelines for residential water usage and maximum unaccounted for water. The second set of projections is based on historical residential water usage and unaccounted for water. This set of projections from DCR's 2015 Water Needs Forecast for Falmouth is based on information from the Town's 2010 through 2013 ASRs. These projections assume that future water consumption will reflect current trends in residential consumption and unaccounted for water. The following criteria were used to develop the ADD for the design year 2040:

Criteria following DCR guidelines:

- Residential consumption of 65 gpcd
- Year 2040 service population of 47,705
- Commercial and municipal usage remains the same at 12% of the total usage
- Maximum of 10 percent unaccounted for water

Criteria following DCR's 2015 Water Needs Forecast for Falmouth:

- Residential consumption of 77.2 gpcd
- Year 2040 service population of 47,705
- Commercial and municipal usage remains the same at 12% of the total usage
- Maximum of 11 percent unaccounted for water

The estimated ADD for the design year 2040 based on the above criteria is approximately 3.98 mgd following DCR guidelines and approximately 4.78 mgd following DCR's 2015 Water Needs Forecast, as shown in Table No. 3-1.

Summer Average Day Demand

MassDEP guidelines recommend that a system consider a projected summer average day demand (SADD). The current SADD is estimated by averaging demands from the three maximum months each year for the past five years. Based on available data between 2014 and 2018, the SADD ranged from 7.27 mgd to 8.75 mgd as shown in Table No. 3-1. The SADD peaking factor is determined by dividing the SADD by the annual ADD for each of the past five years. These peaking factors are averaged to estimate the future summer peaking factor. Based on the 2014 through 2018 monthly demand data, the average summer peaking factor is 1.71. Based on the projected ADD of 3.98 mgd using DCR guidelines and the average summer peaking factor of 1.71, the estimated 2040 SADD is approximately 6.81 mgd. Based on the projected ADD of 4.78 mgd using DCR's 2015 Water Needs Forecast and the average summer peaking factor of 1.71, the estimated 2040 SADD is approximately 8.17 mgd.

Maximum Day Demand

Maximum day demand (MDD) is the maximum one-day (24-hour) total quantity of water supplied during a one-year period. This term is typically expressed in mgd.

The projected MDD can be estimated by the MDD/ADD ratio. The MDD/ADD ratio provides a relationship between the two demands which can be used to estimate future demands. As shown in Table No. 3-1, the highest MDD for the past 5 years was 10.99 mgd in 2016. Upon comparison of the MDD to the ADD, the ratio for 2016 was 2.30. The MDD to ADD ratio for the past 5 years was very consistent, with the exception of 2.01 in 2018. The largest MDD to ADD ratio for the past 5 years of 2.32 was used to calculate the future MDD. The resulting projected MDD for year 2040 is estimated to be 9.23 mgd based on the projected 2040 ADD of 3.98 mgd using DCR guidelines, and 11.09 mgd based on the projected 2040 ADD of 4.78 using DCR's 2015 Water Needs Forecast.

Table No. 3-1
Current and Projected Water Use

Year	ADD (mgd)	SADD (mgd)	Peaking Factor (SADD/ADD)	MDD (mgd)	Peaking Factor (MDD/ADD)	Peak Hour (mgd)
2014	4.41	7.43	1.69	9.98	2.27	*
2015	4.61	7.73	1.68	10.71	2.32	*
2016	4.77	8.75	1.83	10.99	2.30	*
2017	4.48	7.27	1.62	10.19	2.28	*
2018	4.73	8.14	1.72	9.51	2.01	*
2040 (DCR Guidelines)	3.98	6.81	1.71	9.23	2.32	15.92
2040 (DCR's 2015 Water Needs Forecast)	4.78	8.17	1.71	11.09	2.32	19.12

*Peak hour information for 2014 through 2018 is not available

Peak Hour Demand

Peak hour demand is the maximum total quantity of water supplied in a single hour over a one-year period, typically expressed in mgd. These demands are typically met by distribution water storage facilities.

Since system records of peak hourly demands are not available, the peaking factor for the current usage and design year 2040 was estimated based on typical historical consumption for communities of similar size. The MDD/ADD ratio for a community can be used to estimate the peak hour/ADD peaking factor. Using the MDD/ADD ratio of 2.32, the corresponding peak hour factor for the system is approximately 4.0. Based on an ADD of 3.98 using DCR guidelines, the projected peak hour demand for the year 2040 is approximately 15.92 mgd. Using an ADD of 4.78 mgd under DCR's 2015 Water Needs Forecast, the projected peak hour demand for the year 2040 is estimated at 19.12 mgd. To be conservative, projected water use using DCR's 2015 Water Needs Forecast was used to evaluate future supply and storage adequacy.

3.4 Adequacy of Existing Water Supply Sources

In accordance with standard waterworks practices and current MassDEP guidelines, the sources of supply for a water system must be capable of meeting MDD conditions with all supplies online and SADD conditions with the largest source out of service. Additionally, the sources should be permitted or registered to withdraw volumes adequate to meet ADD.

In 1987, the WMA program was implemented by MassDEP to regulate withdrawal of water from the State's watershed basins. Under this program, all new sources withdrawing more than 100,000 gallons per day (gpd) and existing sources exceeding their registered withdrawal volume by 100,000 gpd are required to obtain a withdrawal permit under the WMA. When first implemented, the registered withdrawal volume for a public water system was based on that system's historical pumping rate of the water supply source(s) between 1981 and 1985.

Permits can be renewed and amended as system demands increase and additional sources of water supply are utilized. The WMA program considers the need for the withdrawal, the impact of the withdrawal on other hydraulically connected water suppliers, the environmental impacts of the withdrawal, and the water available in the river basin or subbasin (the basin safe yield) prior to issuing a permit. It is important to note that the basin safe yield is different from the safe yield of a supply. In accordance with the WMA Permit application instructions, the basin safe yield is the total water available to be withdrawn from a river basin or subbasin, whereas the safe yield of a well is the volume of water the well is capable of pumping under the most severe pumping and recharge conditions that can be realistically anticipated.

The Falmouth system is currently authorized to withdraw an annual average daily volume of 4.31 mgd through its WMA Permit and Registration. The permitted annual average daily withdrawal volume is 1.36 mgd. The registered annual average daily withdrawal volume is 2.95 mgd. Renewal of the Town's WMA Permit, which included a request to increase the total authorized annual average daily withdrawal volume to 5.00 mgd, through MassDEP is currently in progress. The Town filed a renewal of its WMA Registration in 2017.

Current authorized average daily withdrawal volumes and maximum approved pumping rates for each source are outlined in Table No. 3-2. The Long Pond Reservoir is limited to an annual average safe yield of 2.60 mgd through the Town's WMA Permit and Registration, however, its maximum daily withdrawal rate is limited only by the MassDEP approved capacity of the Long Pond WFF. The annual average withdrawal volume of the Fresh Pond Well is listed in the Town's 2017 WMA Registration renewal and is equivalent to the maximum daily withdrawal rate of 1.0 mgd used in the Zone II delineation of the well. The permitted sources do not have individual annual average daily withdrawal volume limits, but each source has a maximum daily withdrawal rate established in the WMA Permit. The UCRWSC interconnection, while not registered or permitted through the Town of Falmouth, is subject to Falmouth's annual average daily withdrawal volume limit of 4.31 mgd. Its maximum daily withdrawal rate listed is the typical daily flow through the interconnection.

Table No. 3-2
Summary of Water Supply Source Withdrawal Volumes and Rates

Source Name	Registered/ Permitted	Annual Average Daily Withdrawal Volume (mgd)	Maximum Daily Withdrawal Rate (mgd)
Long Pond Reservoir	Registered	2.60	8.40
Fresh Pond Well	Registered	1.00	1.00
Coonamessett Well	Permitted	Included in total	1.00
Mares Pond Well	Permitted		0.38
Crooked Pond Well	Permitted		1.47
UCRWSC Interconnection	N/A		1.00
Total:		**4.31**	**13.25**

The supply sources of a water system must be capable of meeting MDD conditions with all supplies online and SADD conditions with the largest source out of service. In 2018, the Falmouth ADD was 4.73 mgd, the MDD was 9.51 mgd, and the SADD was 8.14 mgd. The system's total combined approved maximum daily withdrawal rate of all active supply sources is 13.25 mgd. Compared to the 9.51 mgd MDD in 2018, there was a supply surplus of 3.74 mgd. The Long Pond Reservoir and WFF is the Town's largest source of finished water. However, there is an emergency generator and extensive redundancy within the WTP. If an equipment failure was to occur within the WTP, there would not be down time at the WTP, and this source of finished water will still be capable of supplying the approved maximum daily withdrawal from the Long Pond Reservoir of 8.40 mgd. The next largest source is the Crooked Pond Well. The maximum pumping rate with the Crooked Pond Well offline is 11.78 mgd. Compared to the SADD of 8.14 mgd in 2018, there was a supply surplus of 3.64 mgd.

Projected demands using DCR Guidelines were used to evaluate the adequacy of the supply sources in the future. The projected 2040 ADD, MDD, and SADD using DCR Guidelines are 3.98 mgd, 9.23 mgd, and 6.81 mgd, respectively. Compared to the projected 2040 MDD, a surplus of 4.02 mgd is estimated. Under similar conditions, a surplus of 4.97 mgd is estimated compared to

the projected 2040 SADD of 6.81 mgd if the largest source is offline, excluding the Long Pond WFF from the analysis due to its extensive redundancy.

Projected demands using DCR's 2015 Water Needs Forecast were also used to evaluate the adequacy of the supply sources in the future. The projected 2040 ADD, MDD, and SADD using current trends are 4.78 mgd, 11.09 mgd, and 8.17 mgd, respectively. Compared to the projected 2040 MDD, a surplus of 2.16 mgd is estimated. Under similar conditions, a surplus of 3.61 mgd is estimated compared to the projected 2040 SADD of 8.17 mgd if the largest source is offline, excluding the Long Pond WFF from the analysis due to its extensive redundancy.

According to the recent demand data, Falmouth currently exceeds its total permitted and registered annual average daily withdrawal volume of 4.31 mgd. The projected 2040 ADD using DCR Guidelines of 3.98 mgd does not exceed the permitted and registered withdrawal volume. The projected 2040 ADD using DCR's 2015 Water Needs Forecast of 4.78 mgd does exceed the currently permitted and registered annual average daily withdrawal volume. However, as noted previously, the Town's WMA Permit renewal is currently under review by MassDEP and included a request to increase the total authorized annual average daily withdrawal volume to 5.00 mgd, which is 0.22 mgd greater than the conservative projected 2040 ADD.

3.5 Adequacy of Existing Water Storage Facilities

Distribution storage is provided to meet peak consumer demands, such as peak hour demands, and to provide a reserve for fire-fighting purposes. Storage may also serve to provide an emergency supply in case of temporary breakdown of pumping facilities or for pressure regulation during periods of fluctuating demand. There are three components that must be considered when evaluating storage requirements. These components include equalization, fire flow requirements, and emergency storage. The three components of the storage evaluation were calculated under current and future water demand conditions for both the Main Service Area (MSA) and High Service Area (HSA). Based on 2017 pumping and usage data, the MSA represents approximately 93.6 percent of the total demands and the HSA represents approximately 6.4 percent of the total demands.

Equalization storage provides water from the tanks during peak hourly demands in the system. Typically, equalization storage is a percentage of the maximum day demand. The percentages can range from 15-percent to 25-percent, with 15-percent used for a large system, 20-percent for a medium sized system, and 25-percent used for a small system. A system is considered small if it has less than 3,300 customers, while a system is considered large if it has more than 50,000 customers. With a summer service population of approximately 77,500 people, the Falmouth system was considered to be a large system, and 15-percent of the maximum day demand should be available in the storage tanks for meeting equalization storage guidelines.

The fire flow storage component is based on the representative fire flow requirement multiplied by the required duration of the flow. The basic fire flow is defined as a fire flow indicative of the quantities needed for handling fires in important districts, and usually serves to mitigate some of the higher specific fire flows. For the Falmouth system, a representative fire flow of 3,500 gpm

for a duration of three hours was used for the MSA, and a representative fire flow of 3,000 gpm for a duration of three hours was used for the HSA.

The emergency storage component is typically equivalent to one ADD. However, if there is emergency power available at the sources or emergency connections with surrounding communities capable of supplying at least one ADD, the emergency storage component can be waived. All of the water supply sources are located in the MSA. Emergency power is available at the Long Pond WFF, Coonamessett Well and Crooked Pond Water Treatment Plant, and UCRWSC interconnection, which combined have the capability of supplying at least one ADD. Emergency power is also available at the Technology Park Booster Pump Station, which supplies water from the MSA to the HSA. Therefore, the emergency component has been waived in the storage evaluation for both service areas.

The three components of the storage evaluation were calculated under current and projected water demand conditions for both the MSA and the HSA. The MDD recorded in 2016 was higher than the historical MDD for other years reviewed, therefore, to be more conservative, the 2016 data was used as the "current year" for the storage evaluation. The projected 2040 MDD is based on DCR's 2015 Water Needs Forecast methodology.

Main Service Area

1. Equalization
   - Large sized system = 15-percent of the Maximum Day Demand
   - MSA Maximum Day Demand in year 2016 = 10.29 mgd
   - MSA Estimated Maximum Day Demand in year 2040 = 10.38 mgd
   - MSA Equalization (2016) = 0.15 x 10.29 = 1.54 mg
   - MSA Equalization (2040) = 0.15 x 10.38 = 1.56 mg

2. Basic Fire Flow Requirements
   - Representative fire flow = 3,500 gpm
   - Duration of 3 hours or 180 minutes
   - Basic Fire Flow Requirement = 3,500 x 180 = 0.63 mg

3. Emergency Storage: Waived

The total required storage for any given year is the equalization component plus the basic fire flow requirement. Therefore, the current (year 2016) and projected (year 2040) total required storage is as follows:

- Total MSA Required Storage (2016) = 1.54 mg + 0.63 mg = 2.17 mg
- Total MSA Required Storage (2040) = 1.56 mg + 0.63 mg = 2.19 mg

A minimum pressure of 20 pounds per square inch (psi) should be maintained at the highest served customer under MDD conditions with a coincident fire flow. Table No. 3-3 indicates the minimum level of water in the storage tanks to maintain a pressure of 20 psi at different highest customer elevations in the MSA of the distribution system, with elevations noted in feet above mean sea

level (MSL). The volume of useable storage and the difference compared to the required storage corresponding to each elevation scenario are also included. To maintain a minimum pressure of 20 psi at a highest customer elevation of 140 feet, the level of the water in the storage tanks should not drop below 186 feet. Based on this scenario, the MSA has a useable storage volume of 3.20 mg. The MSA currently has a storage surplus of 1.03 mg and is projected to have a storage surplus of 1.01 mg in 2040. The majority of customers located at elevations higher than 140 feet above MSL have individual booster pumps which provide adequate pressure for residential use. However, the Town is aware that some properties in the Telegraph Hill Road neighborhood do not have individual booster pumps and experience low pressures during certain periods of high demand. The Town is evaluating potential solutions to the low pressure issues experienced in this neighborhood.

Table No. 3-3
Main Service Area Highest Customer Elevation Scenarios

Highest Customer Elevation (feet above MSL)	Minimum Tank Water Level Required (feet above MSL)	Useable Storage Volume (mg)	Storage Surplus/ Deficit (mg)	
			2016	2040
150	196	1.50	-0.67	-0.69
140	186	3.20	1.03	1.01
130	176	4.91	2.74	2.72

High Service Area

1. Equalization
   - Large sized system = 15-percent of the Maximum Day Demand
   - HSA Maximum Day Demand in year 2016 = 0.70 mgd
   - HSA Estimated Maximum Day Demand in year 2040 = 0.71 mgd
   - HSA Equalization (2016) = 0.15 x 0.70 = 0.11 mg
   - HSA Equalization (2040) = 0.15 x 0.71 = 0.11 mg

2. Basic Fire Flow Requirements
   - Representative fire flow = 3,000 gpm
   - Duration of 3 hours or 180 minutes
   - Basic Fire Flow Requirement = 3,000 x 180 = 0.54 mg

3. Emergency Storage: Waived

The total required storage for any given year is the equalization component plus the basic fire flow requirement. Therefore, the current (year 2016) and projected (year 2040) total required storage is as follows:

- Total HSA Required Storage (2016) = 0.11 mg + 0.54 mg = 0.65 mg
- Total HSA Required Storage (2040) = 0.11 mg + 0.54 mg = 0.65 mg

The highest customer in the HSA is located at an elevation of approximately 190 feet above MSL on Falmouth Woods Road. To maintain a minimum pressure of 20 psi at this customer, the level of water in the storage tank should not drop below 236 feet. Based on this scenario, the Technology Park High Service Tank has a useable storage volume of 0.73 mg. The HSA has a current storage surplus of 0.08 mg and is projected to have a storage surplus of 0.08 mg in 2040.

Section 4

TATA & HOWARD

SECTION 4 – Hydraulic Evaluation

4.1 General

A comprehensive computer model was utilized to mathematically simulate the water distribution system to evaluate the Town's existing water distribution system and to obtain a basis for recommending water distribution system improvements. The existing hydraulic model was originally developed using WaterGEMS software. WaterGEMS software allows the user to conduct hydraulic simulations using mathematical algorithms in an ArcGIS environment. The computer model is represented by the node, pipe, and tank information provided in Appendix B. The hydraulic input data in Appendix B provides data on system demands, length and diameter of water mains, roughness coefficient or C-value of water mains, elevations, pumping rates of water supply sources, and overflow elevations at storage facilities.

As part of this project, the model was updated to include all recent water system improvements and additional details on water main sizes, materials, and installation years using record drawings, GIS files provided by the Town of Falmouth, and correspondence with the Town of Falmouth.

4.2 Model Verification

Verification of the computer model was completed under steady state conditions based on fire flow testing and information pertaining to the Town's hydraulic gradeline and current operating procedures. Flow tests were conducted by the Town of Falmouth personnel and Tata & Howard at 19 locations throughout the distribution system on May 7 and 8, 2019. Flow test locations were selected to be representative of the entire distribution system. Table No. 4-1 presents the results of the flow testing. The data obtained from the flow tests served as input data for the model verification under steady state conditions. The data included static and residual pressure readings and measurements of flow from the hydrants tested. Each simulation in the model reflected actual field conditions at the time of the testing to properly calibrate the model.

When results of the model simulations were calibrated to within approximately five percent of the hydraulic data collected from the actual flow tests, the computer model was considered verified under steady state conditions. After completing the verification process, the model mathematically represented the physical operating conditions of the existing water distribution system.

Table No. 4-1
Flow Test Results

Location of Flowing Hydrant	Flowing Hydrant Static Pressure (psi)	Residual Hydrant Static Pressure (psi)	Residual Hydrant Residual Pressure (psi)	Observed Flow (gpm)	Calculated Estimated Flow at 20 psi (gpm)
Carey Lane	83	66	56	650	1,500
201 Carriage Shop Road	74	68	52	750	1,400
454 Farview Lane	85	85	62	1,200	2,100
Gansett Road	68	60	15	300	280
Hooppole Road @ Mashpee town line	60	64	60	950	3,500
55 Little Island Road	83	82	62	300	600
222 Meadow Neck Road	80	80	48	1,000	1,400
65 Moon Penny Lane	83	84	74	1,190 – 1,250	3,300
105 N. Bourne Ponds Road	82	80	66	750 - 920	1,800
45 Old Waquoit Road	67	70	57	1,000	2,100
55 Ranch Road	48	49	45	900	2,600
Ronnie Road @ Berry Patch Lane	76	70	58	1,160	2,500
189 Seapit Road	79	79	39	750	925
10 Swallow Street	80	77	60	1,100	2,100
36 Wellington Way	51	50	44	920	2,200
Wheelhouse Circle	56	56	50	750 – 1,000	2,300
428 Wild Harbor Road	80	85	66	300	600
Wild Harbor Road	80	79	54	700	1,100
33 Woodland Road	81	80	72	1,130 – 1,160	3,400

4.3 Adequacy of Existing Distribution System

The Hydraulic Evaluation facet of the Three Circle approach evaluates the system's ability to meet varying demand conditions. In general, a minimum pressure of 35 psi at ground level is required during average day, maximum day, and peak hour demand conditions. During MDD with a coincident fire flow, a minimum pressure of 20 psi is required at ground level throughout the system. To evaluate the system's ability to meet these criteria, the following hydraulic simulations were run in the model:

Minimum/Maximum Pressures

During current ADD conditions, there are locations throughout the Town where a minimum pressure of 35 psi is not met. Therefore, during the projected year 2040 ADD, MDD, and peak hour demand condition (no coincident fire flow), a minimum pressure of 35 psi is not met in some areas of the distribution system. Pressures may range from approximately 8 to 35 psi in the areas of Thomas B. Landers Road and Technology Park Drive adjacent to the Technology Park Tanks, Blacksmith Shop Road, Service Road, Telegraph Hill Road, Ter Heun Drive, areas adjacent to the Falmouth Hospital, Punch Bowl Drive, Upland Avenue, Woods Hole Road, and Strawberry Hill Road. Based on a review of these locations with the Town of Falmouth, properties served by the water mains in these areas have individual booster pumps, where necessary, to provide adequate pressure, with the exception of a number of services on Telegraph Hill Road.

On the contrary to low pressures in the system, an upper limiting pressure of 120 psi is generally recommended, as older fittings in the system are generally rated at 125 to 150 psi. Pressure above this level can result in increased water use from fixtures and also increased leakage throughout the distribution system. The MassDEP published Guidelines for Public Water Systems recommends that pressure reducing devices be utilized on mains or on individual services lines when static pressures exceed 100 psi. Also, plumbing code states that water heaters in homes can be affected when pressures exceed 80 psi. Based on the current operating conditions, the system does not experience pressures greater than 100 psi. The system does experience pressures ranging from 80 to 100 psi generally in areas along the coastline of the Town.

Insurance Services Office (ISO) Fire Flow Recommendations

The recommended fire flow in any community is established by the ISO. The ISO determines a theoretical flow rate needed to combat a major fire at a specific location, taking into account the building structure, floor area, the building contents, and the availability of fire suppression systems. In general, the flows recommended for proper fire protection are based on maintaining a residual pressure of 20 psi in the distribution system. This residual pressure is considered necessary to maintain a positive pressure in the system to allow for continued service to customers and to avoid negative pressures that could adversely impact the distribution system and potentially introduce groundwater into the system through joints and cracks in the water mains.

The Falmouth system was last inspected for fire insurance ratings by the ISO in November 2018. The results of the ISO inspections and fire flow testing were provided by the Town and are shown in Table No. 4-2. The test results indicate the available flow and estimated recommended fire flow in various sections of the distribution system at the time of the tests. The estimated recommended fire flows established by ISO varied from 750 to 5,500 gpm, depending on the location and the

structure. It should be noted that a water system is only required by ISO to provide a maximum of 3,500 gpm at any point in the system. Recommended fire flows greater than 3,500 gpm are not considered in determining the Public Protection Classification (PPC) of the Town when using the Fire Suppression Rating Schedule. ISO individually grades the protection of buildings with a recommended fire flow in excess of 3,500 gpm, and the PPC of those buildings can differ from that of the community that provides their fire protection.

For each ISO location, the recommended fire flow, up to 3,500 gpm, was simulated in the hydraulic model verified as part of this project. According to ISO available flow results, the available fire flow at Gifford Street and Jones Road (Test No. 10), Scranton Avenue and Queen Street (Test No. 13), and North Falmouth Road and Heather Lane is less than estimated recommended flow. However, hydraulic model results indicate that the available fire flow at Gifford Street and Jones Road, and Scranton Avenue and Queen Street, meet or exceed the ISO recommended flow. At these locations, with the recommended fire flow at the assumed respective hydrant, residual pressures in the system drop to 20 psi or below only at locations that already fall below 20 psi under existing ADD conditions, or at locations that have individual booster pumps. Hydraulic model results indicate that the available fire flow at North Falmouth Road and Heather Lane does not meet the ISO recommended fire flow. This deficiency is addressed in Section 4.4.

Additional Flow Recommendations

A review of the Town was completed to identify the recommended fire flows in areas not tested in the latest ISO evaluation. Recommended fire flows were estimated for larger structures and facilities identified in the review. Examples include condominiums, apartment complexes, schools, hotels, and other commercial or industrial buildings. Recommended flows were estimated for these areas based on location and building size using the 2014 ISO published Guide for Determination of Needed Fire Flow. The guide uses factors such as building size, material, location, and contents to calculate the recommended fire flow. These factors were estimated based on aerial photos and street level observations. Not all information was readily available for the review and the estimated recommended fire flow should not be used for any other purpose than evaluating the adequacy of the water distribution system. It should also be noted that the Guide does not account for the use of fire protection systems, such as a sprinkler system, when estimating a recommended fire flow.

According to the 2014 ISO published Guide for Determination of Needed Fire Flow, the minimum recommended fire flow in residential areas with homes greater than 30 feet apart is approximately 500 gpm. The recommended fire flow for homes between 21 feet and 30 feet apart is approximately 750 gpm. Areas with homes between 11 feet and 20 feet apart have a recommended fire flow of 1,000 gpm. A fire flow of 1,500 gpm is recommended for homes closer than 10 feet apart. The residential neighborhoods in the Town were evaluated to determine average distances between homes for determination of the recommended residential fire flow in those areas. An estimated fire flow of 500 gpm was used for most residential areas of the system with homes greater than 30 feet apart. Select neighborhoods, especially in the southern portion of the Town, were evaluated with a higher recommended fire flow when necessary due to homes being constructed closer together.

Table No. 4-2
ISO Hydrant Flow Summary
November 2018

Test No.	Test Location	Static Pressure (psi)	Residual Pressure (psi)	Recommended Flow at 20 psi (gpm)	Available Flow at 20 psi (gpm)
1	Technology Park Drive & Research Road	56	53	3,000	3,900
10	Gifford Street & Jones Road	70	61	3,500	3,200
11	Lakeview Avenue & Lawrence School Yard	85	60	4,500	3,700
11.1	Lakeview Avenue & Lawrence School Yard	85	60	2,500	3,700
12	Boxwood Circle & Gifford Street	85	70	3,500	5,800
13	Scranton Avenue & Queen Street	80	40	5,500	2,400
13.1	Scranton Avenue & Queen Street	80	40	3,000	2,400
14	Falmouth Heights Road n/o Little Rock Avenue	82	70	1,500	2,500
15	Ashumet Road n/o Sandwich Road	63	55	2,250	5,900
16	Cooper Road & Alcott Road	80	40	1,000	2,600
17	Central Avenue & Bliss Street	80	70	750	3,200
18	East Falmouth Highway & Central Ave	75	45	5,000	3,700
18.1	East Falmouth Highway & Central Ave	75	45	4,000	3,700
18.2	East Falmouth Highway & Central Ave	75	45	2,500	3,700
19	Bayside Drive & Edgewater East	80	38	750	2,600
2	North Falmouth Road & Heather Lane	75	35	3,500	2,000

4.4 Hydraulically Deficient Areas

The estimated recommended fire flows were simulated in the computer model. All scenarios were run using the projected 2040 MDD conditions. All storage tanks in the system were set five feet below their overflow elevation. Sources were set to provide their maximum capacities based on permit restrictions and actual operations limitations. The Long Pond Water Filtration Facility was running with two finished water pumps on, supplying a total of 5,825 gpm. The Coonamessett Well was pumping 322 gpm, Crooked Pond Well was pumping 550 gpm, Mares Pond Well was pumping 200 gpm, Fresh Pond Well was pumping 694 gpm, Technology Park Booster Pump Station was pumping 850 gpm, and the UCRWSC interconnection was supplying 694 gpm. Areas where the available fire flows did not meet the ISO recommended fire flow or estimated recommended fire flow were considered hydraulically deficient and improvements were developed to alleviate these deficiencies.

Hydraulic deficiencies were identified as part of a system wide evaluation and include deficiencies in areas that were and were not included in the most recent ISO testing, as well as addressing residential fire flow deficiencies. In general, the hydraulic deficiencies were broken down into Priority 1, 2A, 2B, and 3 deficiencies. Priority 1 deficiencies identify areas of ISO fire flow deficiencies as well as any larger industrial or commercial fire flow deficiencies. Priority 2A deficiencies identify areas where residential recommended fire flows were not met. Priority 2B deficiencies identify small diameter water mains (4-inch diameter or less) that do not have adequate fire hydrant coverage. According to the AWWA Manual of Water Supply Practices M31 – Distribution System Requirements for Fire Protection, fire department use normally requires a maximum linear distance between hydrants of 300 feet for congested areas and 600 feet for light residential districts. For the purpose of this study, it was assumed that a linear distance of 500 feet from a hydrant is adequate to receive fire protection in the Town of Falmouth. Any small diameter water mains in Falmouth that fall outside of the 500-foot radius of a hydrant located on a 6-inch diameter or greater water main were identified as a Priority 2B deficiency. Priority 3 deficiencies identify areas where loops could be constructed or bottlenecks could be eliminated to help improve flows in the distribution system. The following list provides a description of each Priority 1 and 2A hydraulic deficiency. Priority 2B hydraulic deficiencies are summarized in Table No. 4-3. All hydraulic deficiencies are indicated in the Priority 1 and Priority 2 Hydraulic Deficiencies and Priority 3 Hydraulic Deficiencies maps in Appendix C.

Priority 1 Hydraulic Deficiencies

1. To provide the inherent capacity for the ISO recommended fire flow on North Falmouth Road at Heather Lane, a new 16-inch diameter water main is recommended on Nathan Ellis Highway from the existing 16-inch diameter water main at Sam Turner Road to the existing 6-inch diameter water main at Old County Road. In addition, the existing 6-inch diameter water main on Nathan Ellis Highway from Old County Road to Willow Nest should be replaced with a new 16-inch diameter water main. This improvement will also eliminate two dead ends on Nathan Ellis Highway and strengthen transmission capabilities by providing a second transmission route from the Crooked Pond Water Treatment Plant to the northwestern portion of the distribution system.

2. An estimated recommended fire flow of 2,000 gpm was calculated at the Mariner's Point Resort using the 2014 ISO Published Guide for Determination of Needed Fire Flow. The available fire flow is estimated to be 1,400 gallons per minute at 20 psi. It should be noted that the recommended fire flow at this location does not consider if a fire protection system is installed in the building. ISO uses the Specific Commercial Property Evaluation Schedule (SCOPES) to evaluate sprinkler protection of a property. Where evidence is available from local fire or building officials to document the installation, approval, testing, and maintenance of the sprinkler system as defined in Chapter 6 of the National Fire Protection Association (NFPA) Standard, the needed fire flow shall be the greater of the demand at the base of the sprinkler system riser or 1,000 gpm at 20 psi. It is recommended that the Town determine if the building has an existing sprinkler system, and if so, if it meets the criteria as outlined in Chapter 6 of the NFPA Standard and determine if the demand at the base of the riser is more than 1,000 gpm. The estimated available fire flow at this location meets the required 1,000 gpm at 20 psi, but if the building has a sprinkler system and the demand at the base of the sprinkler system riser is greater than 1,400 gpm, additional improvements to the distribution system will be required to meet the base demand. If the building does not have a sprinkler system meeting the criteria outlined in Chapter 6 of the NFPA Standard, additional improvements will be required to meet the recommended fire flow of 2,000 gpm. In this case, a new 12-inch diameter water main should be installed on Falmouth Heights Road from Little Rock Avenue to Grand Avenue and on Grand Avenue from Falmouth Heights Road to Tower House Road to replace the existing 6-inch and 8-inch diameter water mains.

Priority 2A Hydraulic Deficiencies

3. A new 8-inch diameter water main is recommended to replace the existing 2-inch to 6-inch diameter water mains on Saconesset Road from Palmer Avenue to the existing 8-inch diameter water main at the end of Saconesset Road, Arnold Gifford Road (north) from Saconesset Road to Peace Pipe Road, Peace Pipe Road from Arnold Gifford Road to the end, Wigwam Road from Peace Pipe Road to the end, Indian Ridge Road from Saconesset Road to the end, and Salt Works Way from Indian Ridge Road to Indian Ridge Road. The new 8-inch diameter water main will provide the inherent capacity for the recommended residential fire flow in this area.

4. A new 8-inch diameter water main is recommended to replace the existing 6-inch diameter water main on Cliff Road from Quaker Road to Uncatena N, Naushon N from Cliff Road to the end, and Naushon Road S from Cliff Road to Nonamesset Road. In addition, a new 8-inch diameter water main is recommended to replace the existing 2-inch to 6-inch diameter water mains on Uncatena N from Cliff Road to the end, and on Naushon Circle from Nonamesset Road to Nonamesset Road. The new 8-inch diameter water main will provide the inherent capacity for the recommended residential fire flow in this area.

5. A new 8-inch diameter water main is recommended to replace the existing 6-inch diameter water main on Wild Harbor Road from the existing 8-inch diameter water main to Point Road, and on Point Road from Wild Harbor Road to the end, to provide the inherent capacity for the recommended residential fire flow in the area.

6. A new 8-inch diameter water main is recommended to replace the existing 6-inch diameter water main on Little Island Road from Quaker Road to the end to provide the inherent capacity for the recommended residential fire flow in this area.

7. A new 8-inch diameter water main is recommended to replace the existing 6-inch diameter water main on Whitman Road from Quissett Avenue to Gardiner Road, and on Gardiner Road and Gansett Road from Whitman Road to the end. The new water main will provide the inherent capacity for the recommended residential fire flow in this area.

8. A new 8-inch diameter water main is recommended on Thatcher's Lane from Route 28 to the end of the existing 2-inch diameter water main to provide the inherent capacity for the recommended residential fire flow in the area and to eliminate a bottleneck.

9. A new 8-inch diameter water main is recommended to replace the existing 6-inch diameter water main on Nobska Road from Larches Way to the end of the existing 6-inch diameter water main to provide the inherent capacity for the recommended residential fire flow in this area.

10. A new 8-inch diameter water main is recommended on County Road from the end of the existing 8-inch diameter water main to Pine Bank Road, on Pine Bank Road from County Road to the end, and on Riverway from Pine Bank Road to the end. Replacing the existing water main with new 8-inch diameter water main will provide the inherent capacity for the recommended residential fire flow in this area.

11. A new 8-inch diameter water main is recommended to replace the existing 6-inch diameter water main on Waquoit Landing Road from Route 28 to Childs River Road. This water main will provide the inherent capacity for the recommended residential fire flow throughout the peninsula.

12. It is recommended to transfer the existing water mains on Shaker Lane and Captains Lane to the 12-inch diameter water main on Davisville Road. The existing connections to the 6-inch diameter water main on Davisville Road at these streets should be abandoned. In addition, it is recommended to replace the existing 6-inch diameter water main on Captains Lane with a new 8-inch diameter water main. Transferring these two side streets to the larger 12-inch dimeter water main and replacing the water main on Captains Lane will provide the inherent capacity for the recommended residential fire flow in this area.

13. A new 8-inch diameter water main is recommended on Homer Avenue from County Road to the end to replace the existing 2, 4, and 6-inch diameter water mains. This water main will provide the inherent capacity for the recommended residential fire flow in the area.

14. A new 8-inch diameter water main is recommended to be installed on Longfellow Road from the existing 6-inch diameter water main to Alcott Road. This new water main will provide the inherent capacity for the recommended residential fire flow along Longfellow Road.

Priority 2B Hydraulic Deficiencies

Table No. 4-3 provides a summary of Priority 2B hydraulic deficiencies, small diameter water mains that do not provide adequate fire flow protection. The Priority 1 and Priority 2 Hydraulic Deficiencies Map in Appendix C depicts the following Priority 2B deficiencies. For some locations, it is feasible to install a hydrant on an adjacent 6-inch or larger water main in order to provide adequate fire flow protection to locations along the small diameter water main that are not currently within the maximum recommended distance to a hydrant of 500 feet. For all other locations, it is recommended to replace the existing small diameter water main with a new 8-inch diameter ductile iron water main including a hydrant installation near the end of the water main. Table No. 4-3 indicates the improvement options for each Priority 2B deficiency, along with the number of houses currently served by each small diameter water main.

Priority 3 Hydraulic Deficiencies

There are a number of locations throughout the Falmouth distribution system where dead ends could be connected with new water mains or bottlenecks could be eliminated. An evaluation was completed to determine if water main installation would be feasible in these locations (i.e. does a road or right-of-way exist, or do waterways present barriers to construction). Potential locations for eliminating bottlenecks were also evaluated to determine if upsizing the existing water main would really have a significant impact to surrounding flows. The Priority 3 Hydraulic Deficiencies Map in Appendix C depicts the resultant Priority 3 hydraulic deficiencies along with their recommended improvements. To strengthen distribution capabilities, new water main should be installed to provide looping/redundancy or eliminate bottlenecks in these locations.

Table No. 4-3
Priority 2B Hydraulic Deficiencies – Small Diameter Water Mains

Deficiency No.	Location	Existing Diameter (in.)	No. of Houses Served	Improvement Options
15	Providence Street	2	32	Install new 8-inch water main
	Great Bay Street	1.25 – 2		
	Hiawatha Street	1.25 – 1.5		
16	Brockton Street	1.5 – 2	16	Install new 8-inch water main
17	Cypress Street	1.5	15	Install new 8-inch water main
18	Cape Codder Road	1 – 2	13	Install new 8-inch water main
19	Hamilton Street	2	12	Install new 8-inch water main
20	Philadelphia Street	2	12	Install new 8-inch water main
21	Bourne Street	2	12	Install new 8-inch water main
22	Pires Way	2	11	Install new 8-inch water main
23	Ransom Road	2	11	Install new 8-inch water main
24	English Street	2	8	Move the existing hydrant on 6-inch water main on English Street or install new 8-inch water main
25	Figuerido Way	2	8	Install new 8-inch water main
26	Edgewater Drive West	2	7	Install hydrant on 6-inch water main on Edgewater Drive West or install new 8-inch water main
27	Indian Ridge Road	2	6	Install new 8-inch water main
28	Langley Road	2	4	Install hydrant on 8-inch water main on Sippewissett Road or install new 8-inch water main
29	Black Beach Hills Road	2	3	Install new 8-inch water main
30	Greengate Road	2	2	Install hydrant on 8-inch water main on Greengate Road or install new 8-inch water main
31	Pina Lane	2	2	Install hydrant on 8-inch water main on Sandwich Road or install new 8-inch water main
32	Virtue Circle	2	2	Install hydrant on 6-inch water main on Virtue Circle or install new 8-inch water main
33	Onawa Lane	2	2	Install new 8-inch water main

Section 5

TATA & HOWARD

SECTION 5 – Critical Component Assessment

5.1 General

The Critical Evaluation facet of the Three Circle approach evaluates the impact of potential water main failures and the system's ability to meet varying demand conditions. The critical component assessment includes identification of critical areas served, critical water mains, and the need for redundant mains.

5.2 Evaluation Criteria

Critical areas served are locations in the distribution system that require continual water supply for public health, welfare, or financial reasons. Examples of critical service areas include water department facilities, medical facilities, nursing homes, schools, and business districts. All water mains within 500 feet of a critical area are considered to be critical mains. Because water storage tanks and sources provide water and maintain pressure to critical service areas, tanks and primary sources are also considered critical components. Therefore, any water main within 500 feet of a water storage tank or primary source is considered a critical component.

Additional categories of critical water mains include those mains that are the sole transmission main from a source or tank, and main transmission lines without a redundant main. The evaluation included a visual review of the water mains leading into and out of the critical areas and the transmission grid.

5.3 Critical Components

Critical areas served, critical supply mains, and redundant mains were evaluated in the Falmouth water system based on the criteria described above. The following provides a listing of the areas that are considered critical components. A map of the critical components is included in Appendix D.

Critical Areas Served

A system-wide review of critical areas served such as water department facilities, medical facilities, schools, and critical institutions was completed and discussed with Town of Falmouth personnel. Table No. 5-1 presents all critical areas served including critical users and critical components of the distribution system.

Critical Water Mains

Critical water mains include primary transmission lines as well as mains connecting water storage tanks and sources to the system. Critical transmission mains are highlighted on the Critical Components Map found in Appendix D.

Additional critical water mains were identified based on a review of the distribution system model and using the model's criticality feature. The criticality feature simulates breaks on each pipe in the model. The model calculates if the system can still be served with adequate flow and pressures after a pipe is taken out of service. This feature can identify areas served by multiple mains which

would no longer be able to serve customers if one of the mains were taken out of service. The following were identified by the criticality feature in WaterGEMS as causing a system demand shortfall of 1.0 percent or greater, and are considered critical mains:

- The 12-inch and 16-inch water mains connecting the Technology Park High Service Tank to the High Service Area customers.
- The segment of 12-inch water main on Seacoast Shores Boulevard between East Falmouth Highway and Ashley Drive, providing the only connection from the distribution system to the customers on the Seacoast Shores Peninsula.
- The segment of 16-inch water main on Hatchville Road between Sam Turner Road and Solar Way, providing the only connection from the Crooked Pond WTP in the northern portion of the distribution system to the rest of the system.
- The segment of 12-inch water main on Waquoit Highway between Barrows Road and Collins Road, providing the only connection to the eastern portion of the distribution system from the rest of the system.
- The segment of 6-inch water main on Saconesset Road between Palmer Avenue and Daniels Road, providing the only connection from the distribution system to the Saconesset residential neighborhood.

Water mains that cross streams, rivers, and active railroads are also considered critical because of the costly consequences of failure that could occur if a water main broke in these areas, and the difficulty in repairing the mains in these locations. Critical mains are highlighted on the Critical Components Map found in Appendix D.

Table No. 5-1
Critical Areas

Critical Area	Location
Medical Facilities	
Falmouth Hospital	100 Ter Huen Drive
Various Outpatient Facilities	Edgerton Drive
Water Distribution System Components	
MMR Metering Station & Chemical Feed Facility (Interconnection with UCRWSC)	Sandwich Road
Crooked Pond Well	Sam Turner Road
Coonamessett Well	Hatchville Road
Fresh Pond Well	Carriage Shop Road
Mares Pond Well	Pattee Road
Crooked Pond WTP	50 Twin Oaks Drive
Long Pond WFF	650 Gifford Street
Technology Park BPS	Technology Park Drive
Technology Park Low Service Tank	Technology Park Drive
Technology Park High Service Tank	Bernard Saint Jean Drive
Hayway Road Tank	Hayway Road
Mares Pond Tank	Pattee Road

Table No. 5-1 (continued)
Critical Areas

Critical Area		Location
Schools		
	Teaticket Elementary School	45 Maravista Avenue Extension
	East Falmouth Elementary School	33 Davisville Road
	North Falmouth Elementary School	62 Old Main Road
	Mullen-Hall Elementary School	130 Katherine Lee Bates Road
	Morse Pond School	323 Jones Road
	Falmouth High School	874 Gifford Street
	Lawrence School	113 Lakeview Avenue
Emergency Services		
	Falmouth Fire Department	399 Main Street
	Falmouth Police Department	750 Main Street
Woods Hole Institutions		
	Steamship Authority	1 Cowdry Road
	US Coast Guard	30 Little Harbor Road
	Marine Biological Laboratory	7 MBL Street
	National Marine Fisheries Services	166 Water Street
	Woods Hole Oceanographic Institution	86 Water Street
	Quissett Campus of Woods Hole Oceanographic Institution	360 Woods Hole Road
Elderly Housing		
	Royal Megansett Nursing Home	209 County Road
	Royal Falmouth Nursing & Rehabilitation Center	545 Main Street
	Atria Woodbriar	339-389 Gifford Street
	Morse Pond Care Center	359 Jones Road
Miscellaneous		
	McLane Research Laboratories, Inc.	121 Bernard Saint Jean Drive
	Sea Crest Beach Hotel	350 Quaker Road

Section 6

TATA & HOWARD

SECTION 6 – Asset Management Considerations

6.1 General

The existing water distribution system includes approximately 385 miles of water mains. A number of factors, including installation year, diameter, material, water quality, break history, and soil characteristics, affect the decision to replace or rehabilitate a water main. Using an Asset Management approach tailored for the Falmouth system, each water main in the system was assigned a grade based on these factors. The grades were then used to establish a prioritized schedule for water main replacement or rehabilitation, completing the third facet of the Three Circle approach.

6.2 Data Collection

Information regarding the water main diameters, materials, and installation years was obtained from the Town's most recent ArcGIS data layers. Information regarding break history and water quality concerns was obtained during a workshop with system managers and operators from the Town. Information regarding potentially corrosive soils, identified corrosive soils, landfills, and contaminated soils was obtained through ArcGIS and confirmed with the Town. The development of the asset management grading system and the collection of asset data was a collaborative effort with the Town.

6.3 Evaluation Criteria

To prioritize water main replacement or rehabilitation, a water main grading system was established. The grading system uses water main characteristics including installation year, diameter, and material, as well as known areas with water quality concerns, water main break history, and soil characteristics surrounding the water main to assign point values to each pipe in the system. The performance criteria within each asset category are assigned a rating between zero and 100, with zero being the most favorable and 100 being the least favorable within the category. Each category is then given a weighted percentage, which represents priorities within the system. Tata & Howard worked with the Town of Falmouth to adjust the weighted percentages of each category and the ratings of the performance criteria based on existing system performance and conditions. Our recommendation was to assign a maximum weight of 30 percent to any one category. The assigned rating is then multiplied by the weighted percentage to determine the weighted rating for the performance criteria in each category. The weighted rating for each performance criteria was totaled to determine an overall rating for each pipe section in the model. The pipes with the highest grade are most in need of replacement or rehabilitation.

A workshop was held with the representatives of the Town to establish a rating system specific to the Falmouth water system. During the workshop, it was determined that installation year and diameter are of primary concern to the Town, followed by material and water quality. The grading system is shown in Table No. 6-1 and discussed in detail later in this section.

Table No. 6-1
Asset Management Grading System

Weight	Performance Criteria	Rating	Weighted Rating
25%	Installation Year (Age)		
	Pre-1900	85	21.25
	1900-1909	80	20
	1910-1919	75	18.75
	1920-1929	70	17.5
	1930-1939	100	25
	1940-1949	95	23.75
	1950-1958	90	22.5
	1959-1969	40	10
	1970-1979	20	5
	1980-1989	10	2.5
	1990-1999	5	1.25
	2000-2019	0	0
25%	Diameter		
	2-inch and smaller water main	100	25
	4-inch water main	80	20
	6-inch water main	60	12.5
	8-inch water main	40	10
	10-inch water main	15	3.75
	12-inch water main	12	3
	16-inch water main	8	2
	18-inch water main	6	1.5
	20-inch water main	4	1
	24-inch water main	2	0.5
20%	Material		
	Unlined Cast Iron	100	20
	Wrought Iron	90	18
	Copper & Steel/Plastic Coated Cement Lined Steel	80	16
	Asbestos Cement/ Bituminous Lined Asbestos Cement	70	14
	Bituminous and Cement Lined Cast Iron	20	4
	Plastic/PVC/HDPE	5	1
	Ductile Iron	5	1
20%	Water Quality		
	Water Mains with Water Quality Concerns	100	20
	Water Mains with PCE Concerns	100	20
	No Water Quality Concerns	0	0

Table No. 6-1 (continued)
Asset Management Grading System

Weight	Performance Criteria	Rating	Weighted Rating
5%	Break History		
	3 breaks	100	5
	2 breaks	80	4
	1 break	50	2.5
	No history of breaks	0	0
5%	Soil Characteristics		
	Identified Corrosive Soils	100	5
	Potentially Corrosive Soils	90	4.5
	Contaminated Soils	70	3.5
	Landfills	60	3
	High Groundwater	50	2.5
	Gravel/Sand	0	0

Water Main Age/Material

The water industry in the United States has followed certain trends over the last century. The installation year of a water main generally correlates with a specific pipe material that was used during that time as shown in Table No. 6-2. For example, unlined cast iron water mains were the predominant pipe material installed in water systems until approximately 1958. Factory cement lined cast iron mains were manufactured from the 1950s to about 1970, when pipe manufacturers switched primarily to factory cement lined ductile iron pipe.

Cast iron water mains consist of two types: pit cast and sand spun. Pit cast mains were manufactured up to the year 1930 while sand spun mains were manufactured between 1930 and 1970. Pit cast mains do not have a uniform wall thickness and may have "air inclusions" as a result of the manufacturing process. This reduces the overall strength of the main, which makes it more prone to leaks and breaks. Although sand spun mains have a uniform wall thickness, the overall wall thickness was thinner than the pit cast mains. The uniformity provided added strength, but the thinner wall thickness actually made it more susceptible to breaks. While the transition to factory cement lined cast iron mains had begun in the late 1940s, prior to the year 1958, most cast iron water mains that were manufactured were still unlined. Unlined cast iron mains increased the potential for internal corrosion. Based on information provided by the Town of Falmouth, unlined cast iron water mains were installed until approximately 1952. By 1958, rubber gasket joints were also introduced. Prior to this date, joint material was jute (rope type material) packed in place with lead or a lead-sulfur compound, also known as "leadite" or "hydrotite." Leadite type joint materials expand at a different rate than iron due to temperature changes, which can result in longitudinal split main breaks at the pipe bell. Sulfur in the leadite can promote bacteriological corrosion that can lead to circumferential breaks of the spigot end of the pipe. Unlined cast iron water mains make up approximately 10 percent of the Falmouth water system.

Table No. 6-2
Pipe Material and Length by Installation Year

Installation Year	Unlined Cast Iron (LF)	Bituminous and Cement Lined Cast Iron (LF)	Asbestos Cement/ Bituminous Lined Asbestos Cement (LF)	Wrought Iron (LF)	Copper, Steel, Plastic Coated Cement Lined Steel (LF)	Ductile Iron (LF)	Plastic/ PVC/ HDPE (LF)	Total (LF)
Pre-1900	46,435	0	0	0	0	0	0	46,435
1900-1909	18,173	0	0	0	0	0	0	18,173
1910-1919	50,052	0	0	0	237	0	0	50,289
1920-1929	65,958	0	0	1,745	4,980	0	0	72,683
1930-1939	24,365	25,209	4,486	700	9,662	0	0	64,422
1940-1949	802	79,763	14,494	8,154	13,085	0	0	116,298
1950-1958	103	2,475	123,768	35,812	5,605	0	0	167,763
1959-1969	0	29,613	258,537	24,684	1,956	439	373	315,602
1970-1979	0	22	334,898	827	1,393	565	3,885	341,590
1980-1989	0	0	48,176	0	638	52,633	315,188	416,635
1990-1999	0	0	0	0	591	133,333	32,770	166,694
2000-2019	0	0	0	0	0	250,005	2,503	252,508
Total (LF)	205,888	137,082	784,359	72,087	38,147	436,810	354,719	**2,029,092**

Factory lined cast iron (CLCI) was manufactured and installed up until about 1975. Overlapping this period, factory cement lined ductile iron main was manufactured from the 1950s and continues to be manufactured today. Most New England water utilities did not begin to install ductile iron pipe until the late 1960s. Field cement lined cast iron (FLCI) pipe is a process where existing previously installed unlined cast iron pipe is mechanically cleaned and then lined internally with cement mortar. This process helps to clean out debris and attached corrosion byproducts within the pipe, while also establishing a layer of protection against internal corrosion. This type of lining may be useful for municipalities that want to extend the life of existing cast iron pipe as opposed to the more expensive alternative of replacing the pipe entirely. Our experience has indicated that the cleaning and lining process may not extend the life of smaller diameter (less than 12-inch diameter) unlined mains. It is assumed that any water main in the Falmouth distribution system classified as cement lined or bituminous lined cast iron that was installed during and prior to the early 1950s was installed as unlined cast iron and later lined in the field. Approximately seven percent of the Falmouth system is cement or bituminous lined cast iron pipe.

Approximately 21 percent of the system is ductile iron. According to the Ductile Iron Pipe Research Association (DIPRA), ductile iron pipe retains all of cast iron's qualities such as machinability and corrosion resistance, but also provides additional strength, toughness, and ductility.

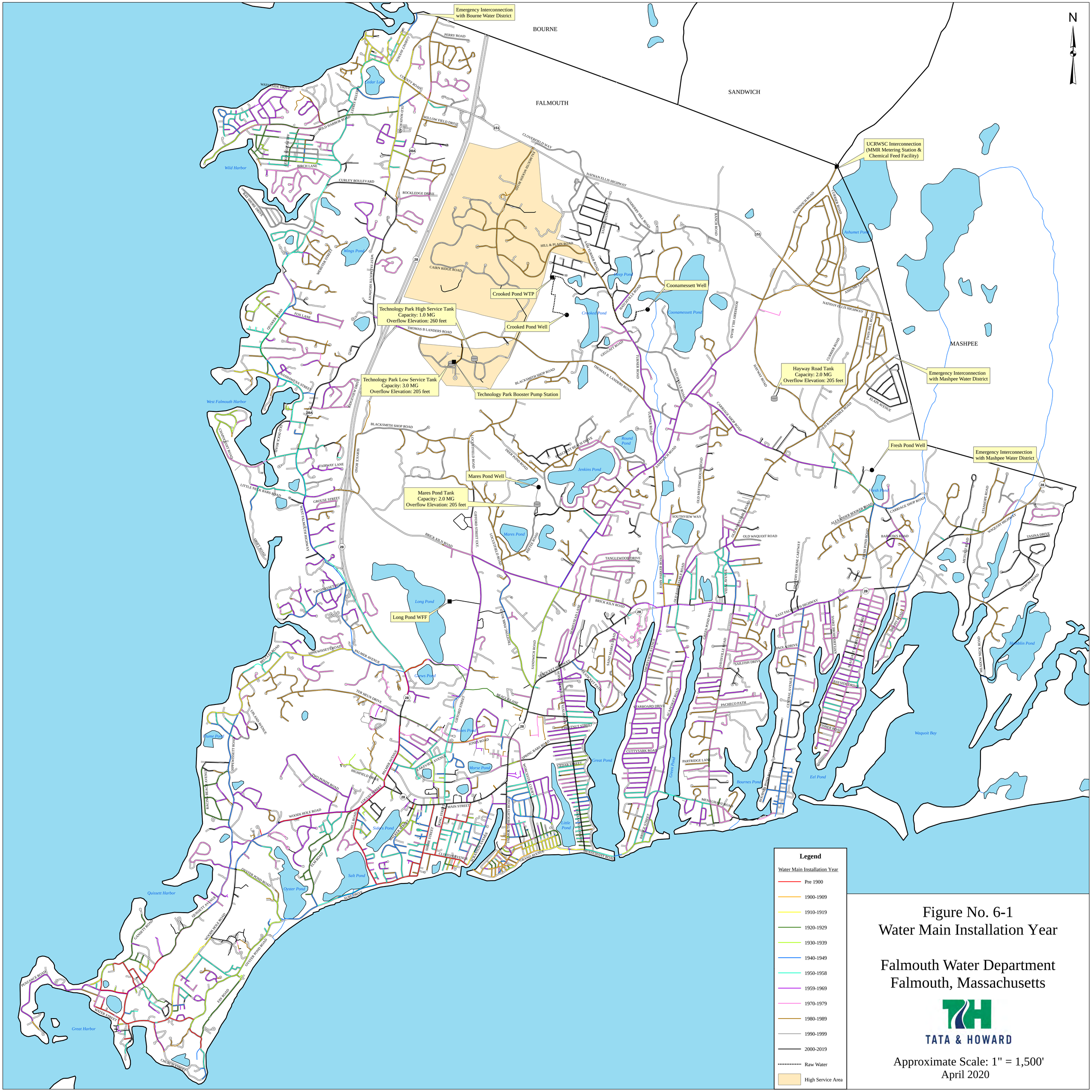
Between the 1930s and 1970s, the water industry utilized asbestos cement (AC) pipe for expanding water systems. A significant advantage of AC pipe is that it resists tuberculation build up within the pipe, maintaining the hydraulic capacity of the pipe and resulting in less system head loss than an old, unlined cast iron water main. However, depending on the water quality, the structural integrity of AC mains can deteriorate over time, thereby becoming sensitive to pressure fluctuations and/or nearby construction activities. In addition, external influences such as soil type and high groundwater can corrode AC mains, thus reducing the strength further. According to AWWA's *Buried No Longer: Confronting America's Water Infrastructure Challenge*, asbestos cement water main has an estimated typical service life of 80 years in a large Northeast system. Therefore, any AC water main installed in the 1930s is past its useful life, and any AC water main installed in the 1940s and 1950s is nearing the end of its useful life. Approximately 39 percent of the system is composed of AC or bituminous lined AC mains.

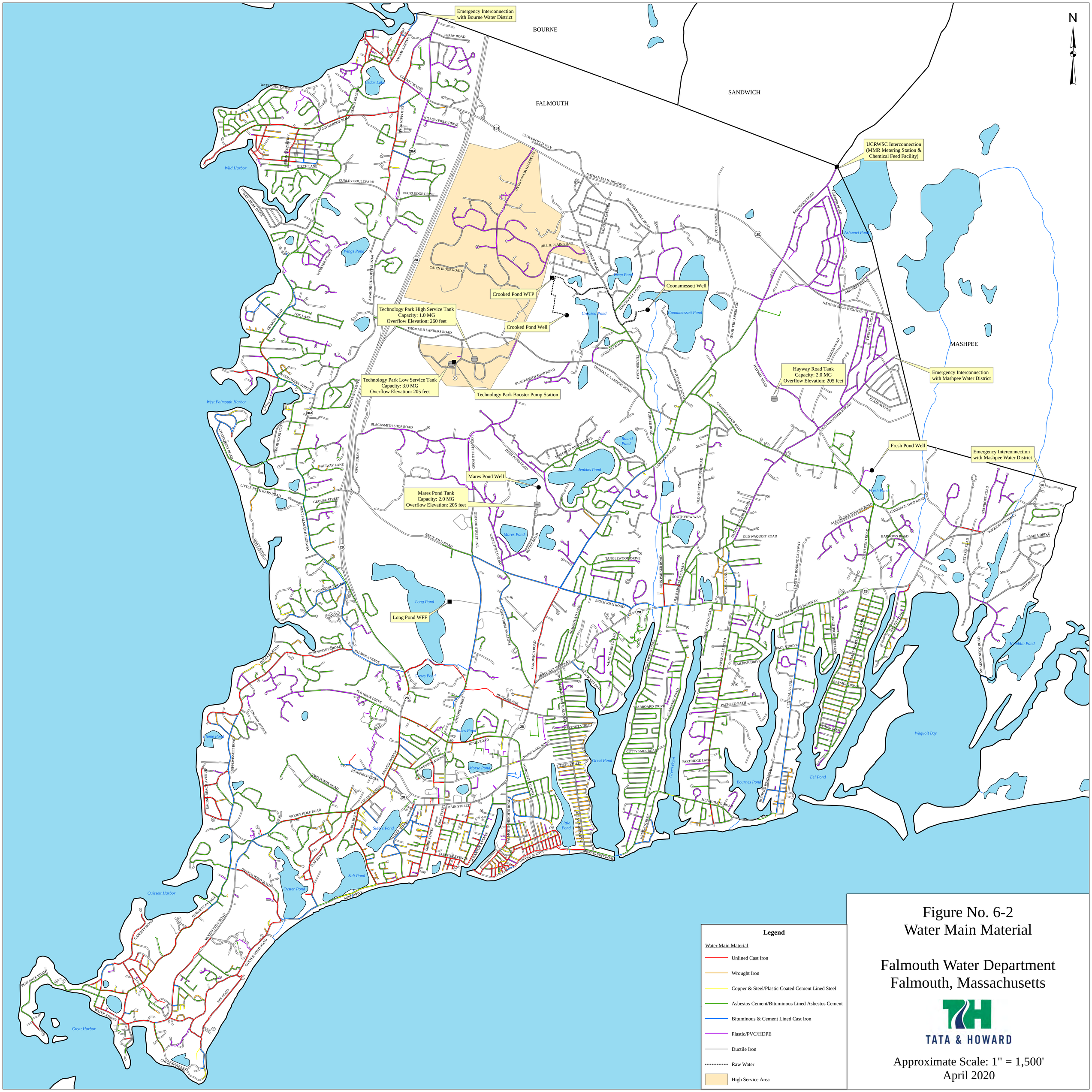
PVC was first used in the United States in the early 1960s. Due to its resistance to both chemical and electrochemical corrosion, PVC pipe is not damaged by aggressive water or corrosive soils. In addition, the smooth interior of PVC is resistant to tuberculation. The 1994 "Evaluation of Polyvinyl Chloride (PVC) Pipe Performance" by the AWWA Research Foundation found that utilities have experienced minimal long term problems with PVC pipe. Generally, problems with PVC occurred when the area surrounding the pipe was disturbed after installation of the pipe. It should be noted that low molecular weight petroleum products and organic solvents can permeate PVC and HDPE pipe if the contaminants are found in high concentrations in the soil surrounding the pipe. Approximately 17 percent of the system is PVC, plastic, or HDPE pipe. Out of the 17 percent, less than one percent is comprised of plastic or HDPE pipe.

Approximately two percent of the Falmouth system is copper, steel, or plastic coated cement lined steel main, and approximately four percent is wrought iron main, installed with varying degrees of

frequency from the 1910s to the 1990s. These materials were generally limited to smaller diameter applications of less than or equal to 2-inches, but serve multiple properties and as such are classified as water mains rather than service lines.

In general, the oldest water mains in the system received the highest ratings, while the newest received a rating of zero. The exception to this is the 1930s through 1950s. These installation years have been given the highest rating because of the known problems with sand spun unlined cast iron pipe from this time period. In general, water mains in the system with materials that are most recommended to be replaced received the highest ratings. Due to their potential for high internal corrosion, unlined cast iron water mains received the highest rating. Ductile iron and plastic/PVC/HDPE water mains received the lowest rating. Figures No. 6-1 and 6-2 present the installation year and material of the water mains, respectively.


Emergency Interconnection with Bourne Water District
BOURNE
SANDWICH
FALMOUTH
MASHPEE
UCRWSC Interconnection (MMR Metering Station & Chemical Feed Facility)
Coonamessett Well
Crooked Pond WTP
Crooked Pond Well
Technology Park High Service Tank
Capacity: 1.0 MG
Overflow Elevation: 260 feet
Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet
Technology Park Booster Pump Station
Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Emergency Interconnection with Mashpee Water District
Fresh Pond Well
Emergency Interconnection with Mashpee Water District
Mares Pond Well
Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Long Pond WFF
Cedar Lake
Wild Harbor
Wings Pond
West Falmouth Harbor
Jenkins Pond
Round Pond
Ashumet Pond
Deep Pond
Crooked Pond
Coonamessett Pond
Fresh Pond
Long Pond
Gunns Pond
Mares Pond
Flume Pond
Morse Pond
Sides Pond
Salt Pond
Oyster Pond
Quissett Harbor
Great Harbor
Little Pond
Great Pond
Green Pond
Bournes Pond
Eel Pond
Waquoit Bay
Hamblin Pond
WILLOW FIELD DRIVE
CLOVERFIELD WAY
NATHAN ELLIS HIGHWAY
OLD MAIN ROAD
CURLEY BOULEVARD
ROCKLEDGE DRIVE
WEST FALMOUTH HIGHWAY
CAIRN RIDGE ROAD
HILL & PLAIN ROAD
BOXBERRY HILL ROAD
RANCH ROAD
SANDWICH ROAD
CURRIER ROAD
ASHUMET ROAD
TWIN HILL ROAD
THOMAS B LANDERS ROAD
BLACKSMITH SHOP ROAD
GEGGATT ROAD
TURNER ROAD
HATCHVILLE ROAD
HAYWAY ROAD
CARRIAGE SHOP ROAD
OLD BARNSTABLE ROAD
ELAIN AVENUE
SERVICE ROAD
DEER POND ROAD
LOCUSTFIELD ROAD
GIFFORD STREET EXT.
BRICK KILN ROAD
SOUTHVIEW WAY
OLD MEETING HOUSE ROAD
OLD WAQUOIT ROAD
ALEXANDER BOOKER ROAD
BARROWS ROAD
STANDPIPE ROAD
WAQUOIT HIGHWAY
TASINA DRIVE
OSTROM ROAD
MEADOW NECK ROAD
MEDOUIT ROAD
FRESH POND ROAD
SANDWICH TURNPIKE
SAINT MARKS ROAD
GOODSTEAD LANE
SANDWICH ROAD
GREEN POND ROAD
DAVISVILLE ROAD
SAILFISH DRIVE
PAOLA DRIVE
CENTRAL AVENUE
BAYSIDE DRIVE
FISHER ROAD
SHIPS KNOCK ROAD
STARBOARD DRIVE
ACAPESKET ROAD
PACHECO PATH
PARTRIDGE LANE
CUTTYSARK ROAD
MENAUHANT ROAD
EAST FALMOUTH HIGHWAY
VINEYARD PATH
NORTH FALMOUTH HIGHWAY
CHAPOQUOIT ROAD
FAIRWAY LANE
LITTLE NECK BARS ROAD
GROUSE STREET
BRIET ROAD
SACONNESSETT ROAD
SIPPEWISSETT ROAD
PALMER AVENUE
BEECH ROAD
TER HEUN DRIVE
UPLAND AVENUE
HIGHFIELD DRIVE
LOCUST STREET
TWO PONDS ROAD
WOODS HOLE ROAD
RACING BEACH AVENUE
MILL ROAD
ELM ROAD
OYSTER POND ROAD
QUISSETT AVENUE
GANNETT ROAD
SUBURBAN AVENUE
PENZANCE ROAD
WATER STREET
FAY ROAD
CHURCH STREET
BEACH LANE
JONES ROAD
SPRING BARS ROAD
CEDAR STREET
CHESTNUT STREET
MAIN STREET
KING STREET
SIDES STREET
PALMER AVENUE
CLIFTON AVENUE
OCEANVIEW AVENUE
GRAND AVENUE
FALMOUTH HEIGHTS ROAD
WORCESTER COURT
BRIDGE STREET
TANGLEWOOD DRIVE
JOHN PARKER ROAD
OLD BARNSTABLE ROAD
VIDE AVENUE
NORTH FALMOUTH HIGHWAY
SACONNESSETT ROAD
TRISTING MARE ROAD
SANDWICH ROAD
GIFFORD STREET
BEACH LANE
WEBSTER STREET
FOX LANE
QUAKER ROAD
KASHAWENA STREET
RIDGE VIEW DRIVE
OLD DOCK ROAD
SHIP'S KNOCK ROAD
WATERSIDE DRIVE
BIRCH LANE
LEDGES ROAD
PERRY ROAD
COUNTY ROAD
LAWRENCE AVENUE
28A
28
151
Legend
Water Main Installation Year
Pre 1900
1900-1909
1910-1919
1920-1929
1930-1939
1940-1949
1950-1958
1959-1969
1970-1979
1980-1989
1990-1999
2000-2019
Raw Water
High Service Area
Figure No. 6-1
Water Main Installation Year
Falmouth Water Department
Falmouth, Massachusetts
TATA & HOWARD
Approximate Scale: 1" = 1,500'
April 2020
N



Legend

Water Main Material

- Unlined Cast Iron
- Wrought Iron
- Copper & Steel/Plastic Coated Cement Lined Steel
- Asbestos Cement/Bituminous Lined Asbestos Cement
- Bituminous & Cement Lined Cast Iron
- Plastic/PVC/HDPE
- Ductile Iron
- Raw Water
- High Service Area

Figure No. 6-2
Water Main Material

Falmouth Water Department
Falmouth, Massachusetts

TATA & HOWARD

Approximate Scale: 1" = 1,500'
April 2020

Water Main Diameter

The Falmouth water distribution system consists of water mains ranging in diameter from less than 2 inches to 24-inches. Approximately 41 percent of the system is comprised of 8-inch diameter piping and approximately 22 percent is 6-inch diameter piping.

In general, as the diameter of a pipe increases, the strength increases. In most cases, failure occurs in the form of ring cracks. This is primarily the result of bending forces on the pipe. Pipes that are 6-inches in diameter are more likely to deflect or bend than a larger diameter main. Pipes that are 8-inches in diameter are less likely to break from bending forces due to the increased wall thickness and increased moment of inertia.

The pipe wall thickness typically increases as the pipe diameter increases. Pipes that are 16-inches in diameter and larger have significantly thicker walls than 12-inch diameter pipe and smaller. Therefore, in addition to having a greater resistance to bending, larger diameter pipes also are more resistant to failure from pipe wall corrosion due to the thicker walls.

The rating system for the diameter of the water mains follows the concept that smaller water mains are not as strong as larger mains. For example, 2-inch diameter water mains are not as strong as 4-inch diameter water mains. A rating of 100 was given to 2-inch diameter and smaller water mains and a rating of two was given to the 24-inch diameter and larger water mains. The two most common piping sizes in the distribution system are 8-inch and 6-inch diameter pipe. Table No. 6-1 does show a drop in the rating score between a 6-inch diameter water main (60) and 8-inch diameter water main (40). The drop in rating is due to wall thickness and field experience. An 8-inch diameter water main has proven to have nearly twice the bending strength of a 6-inch diameter water main. In general, 8-inch diameter water mains are stronger and less likely to break than 6-inch diameter pipes. Figure No. 6-3 presents the various water main diameters throughout the distribution system.

Break History

Based on data provided by the Town, the Falmouth water system experienced an average of 9 breaks per year over the past eight years. In relation to the total miles of water main in the system, this equates to approximately 2 breaks per 100 miles per year. In comparison to the national average of 25 breaks per 100 miles per year, the Falmouth system experiences a relatively low break rate. Each water main break costs time and labor. Breaks cause disruption to the public and water consumers especially when the breaks are reoccurring. Falmouth has several areas where pipes have experienced multiple breaks. At some point, it becomes more efficient to replace the main than to continue making repairs. Based on Falmouth water main break records, pipes with three breaks were assigned a rating of 100, pipes with two breaks were given a rating of 80, pipes with one break were given a rating of 50, and pipes with no known breaks received a rating of zero. Water main areas that have a history of breaks are identified on Figure No. 6-4.

Emergency Interconnection with Bourne Water District

UCRWSC Interconnection (MMR Metering Station & Chemical Feed Facility)

Emergency Interconnection with Mashpee Water District

Emergency Interconnection with Mashpee Water District

Coonamessett Well

Crooked Pond WTP

Crooked Pond Well

Technology Park High Service Tank
Capacity: 1.0 MG
Overflow Elevation: 260 feet

Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet

Technology Park Booster Pump Station

Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet

Fresh Pond Well

Mares Pond Well

Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet

Long Pond WFF

BOURNE

SANDWICH

FALMOUTH

MASHPEE

Wild Harbor

West Falmouth Harbor

Great Harbor

Quissett Harbor

Waquoit Bay

Eel Pond

Bournes Pond

Green Pond

Great Pond

Little Pond

Salt Pond

Oyster Pond

Sides Pond

Morse Pond

Jones Pond

Flume Pond

Gaws Pond

Long Pond

Mares Pond

Jenkins Pond

Round Pond

Deep Pond

Coonamessett Pond

Crooked Pond

Ashumet Pond

Wings Pond

Cedar Lake

Fresh Pond

Hamblin Pond

PERRY ROAD

COUNTY ROAD

WATERSIDE DRIVE

WILD HARBOR ROAD

BIRCH LANE

CURLEY BOULEVARD

ROCKLEDGE DRIVE

BAY SHORE DRIVE

WEBSTER STREET

WEST FALMOUTH HIGHWAY

CAIRN RIDGE ROAD

CLOVERFIELD WAY

NATHAN ELLIS HIGHWAY

HILL & PLAIN ROAD

SAINT THOMAS ROAD

HATCHVILLE ROAD

BOXBERRY HILL ROAD

WANDA ROAD

SANDWICH ROAD

CURRIER ROAD

ASHUMET ROAD

TWIN HILL ROAD

HAYWAY ROAD

THOMAS B LANDERS ROAD

GEGGATT ROAD

TURNER ROAD

BLACKSMITH SHOP ROAD

CARRIAGE SHOP ROAD

OLD BARNSTABLE ROAD

ELAIN AVENUE

OLD MEETING HOUSE ROAD

SOUTHVIEW WAY

OLD WAQUOIT ROAD

ALEXANDER BOOKER ROAD

FRESH POND ROAD

BARROWS ROAD

STANDISH ROAD

WAQUOIT HIGHWAY

METOXIT ROAD

TASINA DRIVE

OSTROM ROAD

MEADOW NECK ROAD

EAST FALMOUTH HIGHWAY

BRICK KILN ROAD

TANGLEWOOD DRIVE

OLD PARK AVENUE

GREEN POND ROAD

DAVISVILLE ROAD

SAILFISH DRIVE

PAOLI DRIVE

SEASIDE DRIVE

BAYSIDE DRIVE

FISHER ROAD

CENTRAL AVENUE

PACHECO PATH

PARTRIDGE LANE

MENAUHANT ROAD

SEACONNET BOULEVARD

ACAPESKET ROAD

STARBOARD DRIVE

CUTTYSARK ROAD

CHESTNUT STREET

CEDAR STREET

SPRING BARS ROAD

JONES ROAD

GIFFORD STREET

BEAGLE LANE

TER HEUN DRIVE

PALMER AVENUE

SIPPEWISSETT ROAD

SACONNESSET ROAD

OYSTER POND ROAD

WOODS HOLE ROAD

MAIN STREET

WATER STREET

CHURCH STREET

PENZANCE ROAD

FAY ROAD

SURF DRIVE

QUISSETT AVENUE

GANNETT ROAD

LITTLE NECK BARS ROAD

GROUSE STREET

FAIRWAY LANE

CHAMPLOFT ROAD

NASHAWENA STREET

RIDGE VIEW DRIVE

SERVICE ROAD

BRIEF ROAD

BRICK KILN ROAD

GIFFORD STREET EXT.

LOCUSTFIELD ROAD

DEER POND ROAD

HEATHERSTONE DRIVE

SANDWICH ROAD

TURNER ROAD

THOMAS B. LANDERS ROAD

HATCHVILLE ROAD

CARRIAGE SHOP ROAD

OLD BARNSTABLE ROAD

ELAIN AVENUE

TWIN HILL ROAD

HAYWAY ROAD

CURRIER ROAD

ASHUMET ROAD

NATHAN ELLIS HIGHWAY

BOXBERRY HILL ROAD

WANDA ROAD

SANDWICH ROAD

CURRIER ROAD

Legend

Water Main Diameter

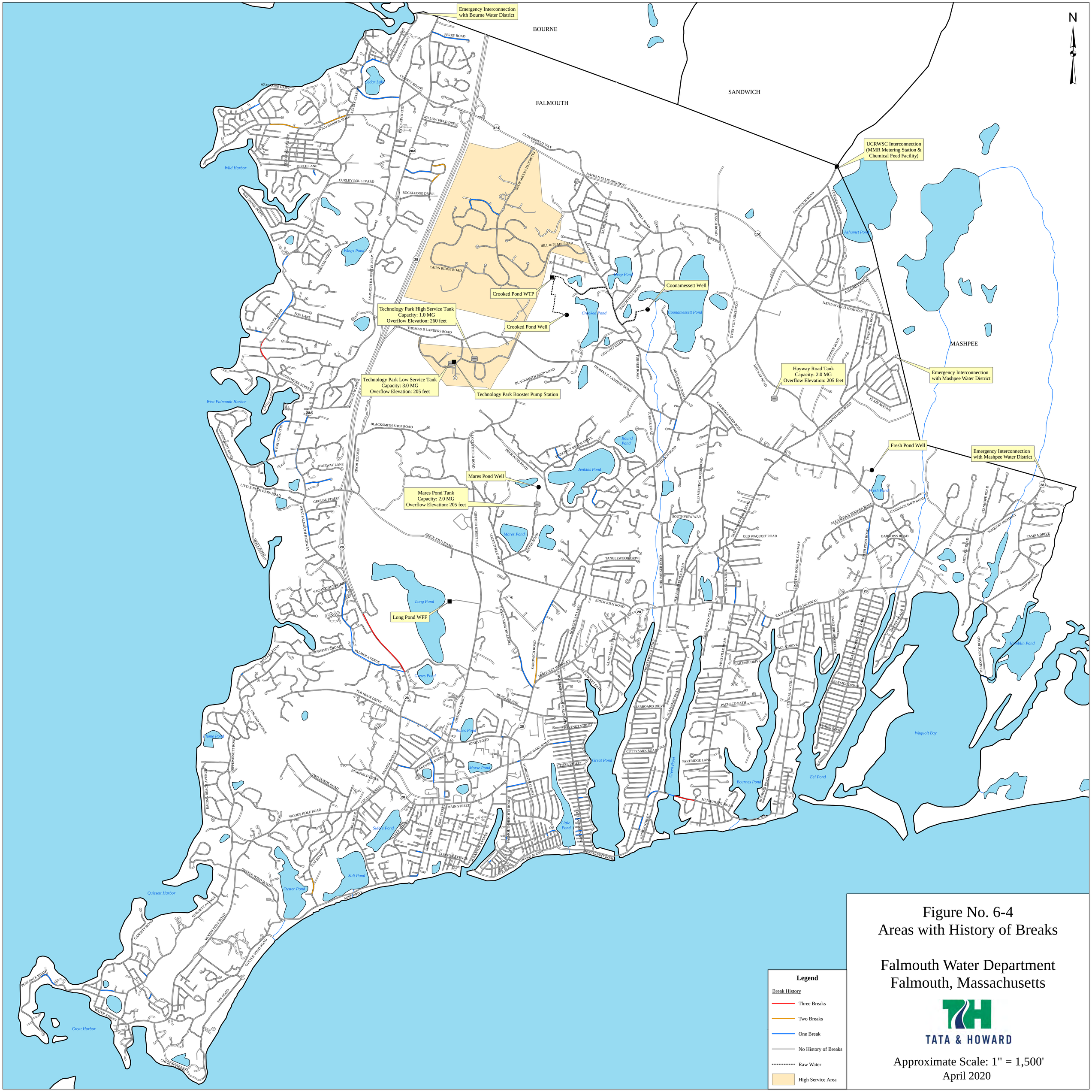
- 2-inch and smaller
- 4-inch
- 6-inch
- 8-inch
- 10-inch
- 12-inch
- 16-inch
- 18-inch
- 20-inch
- 24-inch
- Raw Water
- High Service Area

Figure No. 6-3
Water Main Diameter

Falmouth Water Department
Falmouth, Massachusetts

TATA & HOWARD

Approximate Scale: 1" = 1,500'
April 2020


N
BOURNE
FALMOUTH
SANDWICH
MASHPEE
Emergency Interconnection with Bourne Water District
UCRWSC Interconnection (MMR Metering Station & Chemical Feed Facility)
Crooked Pond WTP
Crooked Pond Well
Coonamessett Well
Technology Park High Service Tank
Capacity: 1.0 MG
Overflow Elevation: 260 feet
Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet
Technology Park Booster Pump Station
Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Emergency Interconnection with Mashpee Water District
Fresh Pond Well
Emergency Interconnection with Mashpee Water District
Mares Pond Well
Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Long Pond WFF
Cedar Lake
Wild Harbor
Wings Pond
Deep Pond
Coonamessett Pond
Crooked Pond
Ashumet Pond
Round Pond
Jenkins Pond
Fresh Pond
Mares Pond
Long Pond
Gaws Pond
Flume Pond
Jones Pond
Morse Pond
Sides Pond
Salt Pond
Oyster Pond
Quissett Harbor
West Falmouth Harbor
Great Harbor
Little Pond
Great Pond
Green Pond
Bournes Pond
Eel Pond
Waquoit Bay
Hamblin Pond
PERRY ROAD
COUNTY ROAD
WILLOW FIELD DRIVE
CLOVERFIELD WAY
NATHAN ELLIS HIGHWAY
WILD HARBOR ROAD
BIRCH LANE
CURLEY BOULEVARD
ROCKLEDGE DRIVE
WEBSTER STREET
WEST FALMOUTH HIGHWAY
CAIRN RIDGE ROAD
HILL & PLAIN ROAD
SAM TURNER ROAD
BOXBERRY HILL ROAD
RANCH ROAD
SANDWICH ROAD
CURRIER ROAD
ASHUMET ROAD
TWIN HILL ROAD
HATCH HILL ROAD
THOMAS B LANDERS ROAD
GELCAIT ROAD
TURNER ROAD
BLACKSMITH SHOP ROAD
HATCHVILLE ROAD
HAYWAY ROAD
CARRIAGE SHOP ROAD
OLD BARNSTABLE ROAD
ELAIN AVENUE
FOX LANE
QUAKER ROAD
KASHAWENA STREET
RIDGE VIEW DRIVE
OLD DOCK ROAD
CHAMPLOFT ROAD
FAIRWAY LANE
LITTLE NECK BARS ROAD
GROUSE STREET
BRIET ROAD
SERVICE ROAD
LOCUSTFIELD ROAD
DEER POND ROAD
HUNTERS BEACH DRIVE
OLD MEETING HOUSE ROAD
SOUTHVIEW WAY
OLD WAQUOIT ROAD
ALEXANDER BOOKER ROAD
FRESH POND ROAD
BARROWS ROAD
STANDIPE ROAD
WAQUOIT HIGHWAY
TASINA DRIVE
METOXIT ROAD
OSTROM ROAD
MEADOW NECK ROAD
BRICK KILN ROAD
GIFFORD STREET EXT.
MATTE ROAD
TANGLEWOOD DRIVE
JOHN PARKER ROAD
OLD BARNSTABLE ROAD
VERA AVENUE
TIMOTHY BOURNE CARTWAY
GREEN POND ROAD
DAVISVILLE ROAD
SAILFISH DRIVE
PAOLA DRIVE
CENTRAL AVENUE
SHARKS JAWS BOULEVARD
SHARKS TEETH DRIVE
BAYSIDE DRIVE
FISHER ROAD
EAST FALMOUTH HIGHWAY
SACONNESSET ROAD
SIPPEWISSETT ROAD
PALMER AVENUE
BEGGS ROAD
TER HEUN DRIVE
UPLAND AVENUE
BEAGLE LANE
GIFFORD STREET
CHRISTINA STREET
CHESTNUT STREET
SPRING BARS ROAD
WORCESTER COURT
CEDAR STREET
STARBOARD DRIVE
ACAPESKET ROAD
PACHECO PATH
PARTRIDGE LANE
CUTTYSAIL ROAD
MENAUHANT ROAD
RIDGE STREET
HIGHFIELD DRIVE
TWO PONDS ROAD
LOCUST STREET
WOODS HOLE ROAD
MILL ROAD
PALMER AVENUE
FALMOUTH HEIGHTS ROAD
MAIN STREET
KING STREET
SIDES STREET
CLIFTON AVENUE
CONWORD AVENUE
GRAND AVENUE
SURF DRIVE
OYSTER POND ROAD
QUISSETT AVENUE
GANNETT ROAD
WOODS HOLE ROAD
PENZANCE ROAD
WATER STREET
FAY ROAD
CHURCH STREET
Legend
Break History
Three Breaks
Two Breaks
One Break
No History of Breaks
Raw Water
High Service Area
Figure No. 6-4
Areas with History of Breaks
Falmouth Water Department
Falmouth, Massachusetts
TATA & HOWARD
Approximate Scale: 1" = 1,500'
April 2020

Soil Characteristics

Water main degradation can occur both internally and externally. Factors that increase the rate of external corrosion include high groundwater, soils with low calcium carbonate, or soils with high acidity or sulphates. Wetlands areas have greater potential to cause external corrosion of water mains than other soil conditions. Areas identified by the Town where pipe was installed in corrosive soil were assigned a rating of 100. Areas of potentially corrosive soils, including wetlands, received a rating of 90. Areas identified by the Town where pipe was installed in contaminated soil, including soil that has experienced a gasoline or fuel spill, received a rating of 70. Areas with landfills received a rating of 60. Areas identified by the Town as having a high groundwater level received a rating of 50. All other pipe was assigned a rating of zero. Areas where soil characteristics are of concern are highlighted on Figure No. 6-5.

Water Quality

In general, water quality in the Falmouth water system meets or exceeds state and federal water quality standards. However, based on a review of historical water quality complaint logs, some areas of the system have experienced water quality issues including discoloration of water, taste, and odor issues. In addition to those water quality issues identified through the customer complaint logs, there are areas with tetrachloroethylene (PCE) concerns due to vinyl lined asbestos cement pipe in the system. Elevated levels of PCE can be observed in this piping due to the vinyl lining, but routine flushing of these water mains and regular water quality sampling by system operators have confirmed PCE levels have been maintained in compliance with drinking water regulations. These areas with water quality concerns and vinyl lined asbestos cement pipe are given a rating of 100 while areas with no known water quality complaints received a rating of zero. Areas where water quality is of concern are highlighted on Figure No. 6-6.

6.4 Asset Management Areas of Concern

Based on the asset management ratings, there are several areas of concern in the system. Water mains with a total rating between zero and 19 are considered to be in good to excellent condition. Mains with a total rating between 20 and 39 are considered to be in fair to good condition, and mains with a total rating of 40 or greater are considered to be in poor to fair condition. This rating system is specific to the Falmouth system and reflects the Town's priorities of replacing older, smaller diameter water mains. Asset management ratings are presented graphically in Appendix E.

Emergency Interconnection with Bourne Water District

UCRWSC Interconnection (MMR Metering Station & Chemical Feed Facility)

Crooked Pond WTP

Coonamessett Well

Crooked Pond Well

Technology Park High Service Tank
Capacity: 1.0 MG
Overflow Elevation: 260 feet

Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet

Technology Park Booster Pump Station

Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet

Emergency Interconnection with Mashpee Water Disrtict

Fresh Pond Well

Emergency Interconnection with Mashpee Water Disrtict

Mares Pond Well

Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet

Long Pond WFF

BOURNE

SANDWICH

FALMOUTH

MASHPEE

Cedar Lake
Wild Harbor
Wings Pond
Ashumet Pond
Deep Pond
Crooked Pond
Coonamessett Pond
Round Pond
Jenkins Pond
Fresh Pond
Mares Pond
Long Pond
Green Pond
Ames Pond
Flume Pond
Morse Pond
Little Pond
Snake Pond
Salt Pond
Oyster Pond
Quissett Harbor
West Falmouth Harbor
Great Harbor
Crews Pond
Hamblin Pond
Waquoit Bay
Eel Pond
Bournes Pond

PERRY ROAD
COUNTY ROAD
OLD MAIN ROAD
WILLOW FIELD DRIVE
CLOVERFIELD WAY
NATHAN ELLIS HIGHWAY
SANDWICH ROAD
CURRIER ROAD
ASHUMET ROAD
RANCH ROAD
BOXBERRY HILL ROAD
SAM TURNER ROAD
HILL & PLAIN ROAD
HATCHVILLE ROAD
CAIRN RIDGE ROAD
ROCKLEDGE DRIVE
WATERSIDE DRIVE
BIRCH LANE
CURLEY BOULEVARD
WEST FALMOUTH HIGHWAY
WEBSTER STREET
OAKMEER ROAD
FOX LANE
NASHAWENA STREET
RIDGE VIEW DRIVE
THOMAS B LANDERS ROAD
GEIGATT ROAD
TURNER ROAD
BLACKSMITH SHOP ROAD
HAYWAY ROAD
ELAIN AVENUE
OLD BARNSTABLE ROAD
CARRIAGE SHOP ROAD
TWIN HILL ROAD
OLD DOCK ROAD
FAIRWAY LANE
SERVICE ROAD
LOCUSTFIELD ROAD
DEER POND ROAD
HATCHES THICKET DRIVE
SHAWME ROAD
OLD MEETING HOUSE ROAD
SOUTHVIEW WAY
OLD WAQUOIT ROAD
ALEXANDER BOOKER ROAD
STANDISH ROAD
WAQUOIT HIGHWAY
TASINA DRIVE
OSTROM ROAD
METOXIT ROAD
FRESH POND ROAD
BARROWS ROAD
LITTLE NECK PARS ROAD
GROUSE STREET
WEST FALMOUTH HIGHWAY
GIFFORD STREET EXT.
BRICK KILN ROAD
LOCUSTFIELD ROAD
TATTLE ROAD
TANGLEWOOD DRIVE
JOHN PARKER ROAD
OLD BARNSTABLE ROAD
VIDA AVENUE
DOROTHY BOURNE CARTWAY
EAST FALMOUTH HIGHWAY
GREEN POND ROAD
DAWSVILLE ROAD
SAILFISH DRIVE
PAOLA DRIVE
CASTLES MOOR DRIVE
SHOOTFLYING HILL ROAD
FISHER ROAD
BAYSIDE DRIVE
MEADOW NECK ROAD
GIFFORD STREET
SANDWICH ROAD
TEMPLE STREET
TEMPLE TERRACE
SAINT MARKS ROAD
HOMESTEAD LANE
TOOTING PARK ROAD
BEAGLE LANE
TER HEUN DRIVE
SIPPEWISSETT ROAD
PALMER AVENUE
IRENE ROAD
UPLAND AVENUE
JONES ROAD
SPRING BARS ROAD
CHESTNUT STREET
CEDAR STREET
CUTTYSARK ROAD
STARBOARD DRIVE
KEATSFIELD ROAD
PACHECO PATH
PARTRIDGE LANE
CENTRAL AVENUE
MENAUHANT ROAD
BRIDGE STREET
FORTED AVENUE
CLINTON AVENUE
SCRANTON AVENUE
FALMOUTH HEIGHTS ROAD
WORCESTER COURT
MAIN STREET
KING STREET
SHORE STREET
HILL ROAD
HIGHFIELD DRIVE
LOCUST STREET
TWO PONDS ROAD
WOODS HOLE ROAD
SURF DRIVE
OYSTER POND ROAD
QUISSETT AVENUE
GANSETT ROAD
ELM ROAD
SLEEPY HOLLOW ROAD
PENZANCE ROAD
WATER STREET
CHURCH STREET
SACONNESSET ROAD
BLACKSMITH SHOP ROAD
BEACH ROAD
BEACH PLUM AVENUE
JACOBS LADDER AVENUE
SHEARWATER AVENUE
SEAVIEW AVENUE
SUBA AVENUE

N

Legend

Water Main Soil and Groundwater Conditions

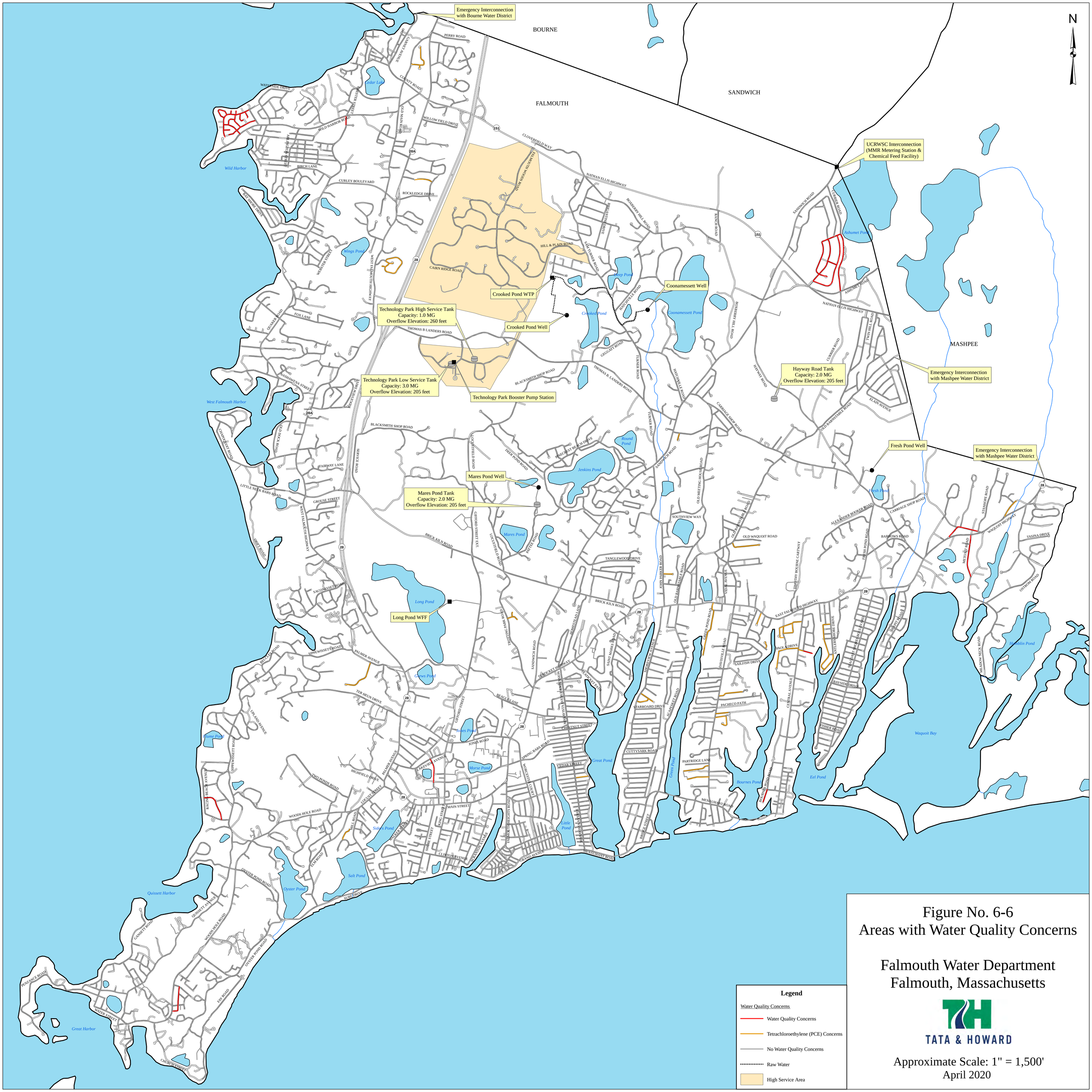
- Identified Corrosive Soil
- Potentially Corrosive Soil
- Contaminated Soil
- High Groundwater
- Gravel/Sand
- Raw Water
- Identified Corrosvie Soils
- Potentially Corrosive Soils/Wetlands
- Contaminated Soils
- Landfills
- High Service Area

Figure No. 6-5
Potentially Corrosive Soils

Falmouth Water Department
Falmouth, Massachusetts

TATA & HOWARD

Approximate Scale: 1" = 1,500'
April 2020


N
BOURNE
FALMOUTH
SANDWICH
MASHPEE
Emergency Interconnection with Bourne Water District
UCRWSC Interconnection (MMR Metering Station & Chemical Feed Facility)
Crooked Pond WTP
Crooked Pond Well
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Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet
Technology Park Booster Pump Station
Coonamessett Well
Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Emergency Interconnection with Mashpee Water District
Fresh Pond Well
Emergency Interconnection with Mashpee Water District
Mares Pond Well
Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Long Pond WFF
Cedar Lake
Wild Harbor
Wings Pond
Deep Pond
Crooked Pond
Coonamessett Pond
Ashumet Pond
Round Pond
Jenkins Pond
Fresh Pond
Mares Pond
Long Pond
Gaws Pond
Flume Pond
Jones Pond
Morse Pond
Sides Pond
Salt Pond
Oyster Pond
Quissett Harbor
West Falmouth Harbor
Great Harbor
Little Pond
Great Pond
Green Pond
Bournes Pond
Eel Pond
Waquoit Bay
Hamblin Pond
WILD HARBOR ROAD
NATHAN ELLIS HIGHWAY
CLOVERFIELD WAY
WEST FALMOUTH HIGHWAY
CARRIAGE SHOP ROAD
BLACKSMITH SHOP ROAD
THOMAS B LANDERS ROAD
BRICK KILN ROAD
MAIN STREET
MENAUHANT ROAD
WAQUOIT HIGHWAY
EAST FALMOUTH HIGHWAY
Legend
Water Quality Concerns
Water Quality Concerns
Tetrachloroethylene (PCE) Concerns
No Water Quality Concerns
Raw Water
High Service Area
Figure No. 6-6
Areas with Water Quality Concerns
Falmouth Water Department
Falmouth, Massachusetts
TATA & HOWARD
Approximate Scale: 1" = 1,500'
April 2020

Section 7

TATA & HOWARD

SECTION 7 – Recommendations and Conclusions

7.1 General

The following section summarizes the findings of the study and presents a prioritized plan for recommended improvements and associated costs. The prioritization of improvements allows for constructing the necessary improvements over an extended period of time as funds allow. Costs are based on 2022 bid tabulations and include costs associated with the water main, valves, fittings, water services, hydrants, and other appurtenances, permanent and temporary trench pavement, and a 25 to 30 percent allowance for engineering and contingencies. The standard allowance for engineering and contingencies is 25 percent, however, for any improvements that are assumed to include a bridge crossing or horizontal directional drilling, the allowance is increased to 30 percent due to the inherent complexities associated with these projects. Water main construction costs observed in 2022 were unusually volatile and unpredictable. Atypical trends in the construction market resulted in significant cost increases on various construction materials. Estimates do not include costs for land acquisition, easements, or legal fees. Unit costs when installing less than 1,000 feet of water main are based on a higher unit rate and are accounted for in each applicable recommendation.

The capital improvement projects considered by this study will provide a direct benefit to the overall level of service to the Town's customers, reduce operation and maintenance costs by reducing the frequency of water main failures and the damage they cause, improve water quality, as well as improve fire protection to homeowners and businesses.

The Water Research Association's (formerly the American Water Works Research Foundation) study on "Cost of Infrastructure Failure," which was completed in 2002, found that in addition to direct costs paid by water utility ratepayers for water main failures, there are also societal costs which are paid by the public. Examples of direct costs include outside contractor costs, engineering costs, police assistance, fire department assistance, electrical, telephone, and gas utility damage costs, landscaping restoration costs, and laboratory costs. Examples of societal costs include the cost of traffic impacts, business customer outage impacts, public health impacts (including loss of life), property damage not covered by direct costs, and the cost of reduced fire fighting capability during a water main failure event.

Rehabilitation and replacement of one percent of a system each year (a 100 year replacement cycle) is a reasonable guideline based on industry experience and analysis. For the Falmouth distribution system, this would equate to approximately four miles of water main replacement each year as a guideline. Regular rehabilitation of water mains reduces main failures, leakage, and water quality issues. Water main rehabilitation can also provide socio-economic benefits by reducing operational costs associated with chemical and energy usage. Additionally, rehabilitation or replacement of water mains that are inadequately sized to provide needed fire protection will improve public safety.

7.2 General Recommendations

To maintain a comprehensive database of the condition of the system, it is recommended that the Town of Falmouth continue to regularly provide break data to Tata & Howard to update the water main database. Currently, the Town maintains documentation of breaks with the nearest street address and date. In addition, the Town should record joint type, type of lining, and type of failure such as ring crack, lateral split, hole in the pipe, "punky" AC pipe failure, or joint leak, and how the pipe was repaired. If possible, the Town should include the apparent cause of the failure such as frost load, traffic load, direct contractor damage, settlement, water hammer, or external soil corrosion. The documentation should also be filed electronically following each event. This data can be used to create a Water Main Failure Map for identifying areas of concern in the system on an ongoing basis. The map can be used to easily identify break locations, determine if streets or areas have a higher frequency of failures, and to view any patterns in the location, type, pipe manufacturer, or other characteristics in occurrences of failure. The water main failure database will aid the Town in making water main rehabilitation and replacement decisions in the future.

In general, it is recommended along streets with parallel water mains that the Town connect all hydrants to the larger of the water mains. It is recommended that prior to installation of all new ductile iron water main, the Town should test the soils in the area of the new main to determine corrosion potential. If the soil is found to be potentially corrosive, the Town should consider installing HDPE or PVC water main, wrapping ductile iron water main with polyethylene, or installing zinc coated ductile iron piping to protect against external corrosion. Polyethylene wrapping is a relatively inexpensive practice that can extend the life of new ductile iron pipe, but proper installation is necessary to properly isolate and protect the piping. Zinc coated ductile iron piping is more expensive than polyethylene wrapping, but installation is less sensitive to properly protect the piping. If HDPE or PVC water main is to be installed, the Town should verify groundwater elevations in the project area and review any history of oil or hazardous material (OHM) release as these types of contaminants can penetrate the permeable HDPE or PVC piping. Polyethylene wrapped or zinc coated ductile iron are better options in areas where OHM may be present.

The Town should continue to perform regularly scheduled maintenance programs, including unidirectional hydrant flushing and meter testing/calibration. It is also recommended that the Town evaluate the feasibility of providing a booster pump station or extending the existing High Service Area to accommodate the properties in the Telegraph Hill Road neighborhood which do not have individual booster pumps and experience low pressures during certain periods of high demand.

7.3 Prioritization of Water Distribution System Improvements

Based on the Three Circles Approach including the hydraulic, critical component, and asset management circles, a prioritized list of improvements was created for the buried infrastructure. Improvements were separated into three phases. The Phase I and Phase II improvements are prioritized based on hydraulic needs, location in the distribution system (critical component), the condition of the water main (asset rating), and the professional opinion of Tata & Howard of how

to best impact the distribution system. The Phase I improvements include water mains that fall into all three circles. Phase II improvements include water mains that fall into any two circles.

Phase III improvements fall into one circle. These improvements include the remaining hydraulic recommendations from Section 4 not included in the Phase I or Phase II improvements and remaining areas with a poor asset management rating. The hydraulically deficient areas, critical component considerations, and asset management ratings are combined on one Three Circles Integration Map included in Appendix F.

The list of water main improvements is extensive due to the nature of this report. The prioritization of the recommended improvements based on the Three Circle Approach serves as a guide for implementation of the infrastructure improvements with the greatest to least benefit. The implementation of these improvements is intended to be completed over several years based on available funding sources.

Table No. 8-1, at the end of this section, includes a prioritized list of Phase I improvements and the hydraulic, critical component, and asset management status of each improvement. Table No. 8-2 includes the linear feet and estimated cost of each Phase I improvement. Table No. 8-3 includes a prioritized list of Phase II improvements and the hydraulic, critical component, and asset management status of each improvement, and Table No. 8-4 includes the linear feet and estimated cost of each Phase II improvement.

Phase III improvements have been divided into two sections (Phase IIIA and IIIB). Phase IIIA improvements represent the remaining hydraulic improvements from Section 4 not included in any Phase I or Phase II improvements. Phase IIIB improvements include the water mains that have high asset management ratings that are not included in any Phase I or Phase II improvements, and should be replaced when funding becomes available. Table No. 8-5 includes a list of Phase IIIA improvements and the hydraulic, critical, and asset management status of each improvement. Table No. 8-6 includes the linear feet and estimated cost of each Phase IIIA improvement. The total length of water main by pipe diameter recommended for Phase IIIB improvements is summarized in Table No. 8-7. The estimated cost to replace these water mains is also included in Table No. 8-7. The recommended improvements maps are included in Appendix G. It should be noted that paving schedules and other improvements to roadways were not evaluated as part of this study.

Phase I Improvements

1. New 8-inch diameter main is recommended to replace the existing 2-inch to 6-inch diameter water mains on Saconesset Road from Palmer Avenue to the existing 8-inch diameter water main at the end of the road, Arnold Gifford Road from Saconesset Road to Peace Pipe Road, Peace Pipe Road from Arnold Gifford Road to the end, Wigwam Road from Peace Pipe Road to the end, Indian Ridge Road from Saconesset Road to the end, and Salt Works Way from Indian Ridge Road to Indian Ridge Road. The existing mains are considered to be in fair to poor condition with asset management ratings ranging from 31 to 66. The poor ratings are due to the age, material, and size of the mains. The main along Saconesset Road from Palmer Avenue to Daniels Road is considered critical because a break here would cause at least one percent of the system to lose water. The section of

main along Saconesset Road between Bumblebee Hill Road and Arnold Gifford Road is considered critical because it includes a bridge crossing over the Shining Sea Bikeway. The upgrade will improve the hydraulic capacity of the water mains and provide residential fire flow in the area. The estimated probable construction cost of approximately 7,900 linear feet of 8-inch diameter ductile iron water main is $3,465,000. This total estimated cost includes additional costs associated with the under-deck bridge crossing over the Shining Sea Bikeway.

2. New 8-inch diameter main is recommended along County Road from Old Main Road to the end. In addition, new 8-inch diameter water main is recommended on Pine Bank Road from County Road to the end, Riverway from Pine Bank Road to the end, and on Circle Drive from County Road to the end. The existing main on County Road is considered critical because of its proximity to the Royal Megansett Nursing Home. The mains have asset management ratings ranging from 21 to 63 and are considered to be in fair to poor condition. The poor condition is due to age and material of the mains along with poor soil conditions. The upgrade will improve the hydraulic capacity of the water main and provide residential fire flow in the area. The estimated probable construction cost of approximately 4,700 linear feet of 8-inch diameter water main is $1,640,000.

3. A new 8-inch diameter main is recommended on Carriage Shop Road from Fresh Pond Road to Bonnie Lane. The existing 6-inch main on Carriage Shop Road is considered to be in poor condition with an asset management rating of 53. The poor rating is due to the age and material of the main. Installing new water main on Carriage Shop Road from Bonnie Lane to the existing water main will connect two dead ends, and also provide a redundant connection to the portion of the distribution system east of Barrows Road. Currently, the only connection to this part of the system is via the 12-inch diameter water main on Waquoit Highway, which is considered critical because it serves at least one percent of the system. This improvement will eliminate the section of critical pipe on Waquoit Highway, and therefore, falls under all three circles. The estimated probable construction cost of approximately 4,200 linear feet of 8-inch diameter ductile iron water main is $1,635,000. This total estimated cost includes additional costs associated with horizontal directional drilling at the Childs River.

Phase II Improvements

4. A new 16-inch diameter main is recommended to be installed along Nathan Ellis Highway from Sam Turner Road to Willow Nest. This improvement will connect two dead ends on Nathan Ellis Highway and provide a redundant connection to the northern portion of the distribution system. Currently, the only connection between the Crooked Pond Water Treatment Plant and the rest of the distribution system is via the 16-inch diameter water main on Turner Road. This improvement will eliminate the section of critical pipe on Turner Road. Based on discussions with the Town, there is an existing portion of relatively new water main installed under the Route 28 interchange with Nathan Ellis Highway. The water main is currently inactive but can be incorporated as part of this improvement. The estimated probable construction cost of approximately 5,800 linear feet of new 16-inch diameter ductile iron water main is $3,360,000. This total estimated cost includes

additional costs associated with the under-deck bridge crossing over the railroad serving Joint Base Cape Cod.

5. New 12-inch diameter main is recommended on Falmouth Heights Road from the existing 12-inch diameter water main to Grand Avenue and on Grand Avenue from Falmouth Heights Road to the existing 8-inch diameter water main. This improvement will provide the estimated needed fire flow of 2,000 gpm at the Mariner's Point Resort. The mains have asset management ratings ranging from 11 to 58 and are considered to be in good to poor condition. The poor condition is due to the number of breaks, installation year, and material. The estimated probable construction cost of approximately 2,600 linear feet of 12-inch diameter water main is $1,110,000.

6. A new 8-inch diameter main is recommended to be installed on Edgewater Drive W from Route 28 to Marshall Drive. This improvement will eliminate a dead end and provide a redundant connection to the Seacoast Shores Boulevard peninsula of the distribution system. Currently, the only connection to this part of the system is via the 12-inch diameter water main on Seacoast Shores Boulevard, which is considered critical because it serves at least one percent of the system. This improvement will eliminate the section of critical pipe on Seacoast Shores Boulevard. The estimated probable construction cost of approximately 400 linear feet of 8-inch diameter ductile iron water main is $165,000.

7. A new 8-inch diameter main is recommended to replace the existing 8-inch diameter main on Wild Harbor Road from Old Main Road to Quaker Road and on Wild Harbor Road and Point Road from the existing 8-inch diameter water main at Loren Road to the end. In addition, it is recommended to replace the existing water main on Wild Harbor Road from Quaker Road to Loren Road with new 12-inch diameter water main and abandon the parallel water main along this stretch. The existing mains are considered to be in poor condition with asset management ratings ranging from 48 to 60 due to their age, material, history of breaks, poor soil conditions, and water quality concerns. This improvement will eliminate an existing bottleneck on Wild Harbor Road and provide the needed residential fire flow along Wild Harbor Road and Point Road. The estimated probable construction cost of approximately 5,500 linear feet of 12-inch diameter ductile iron water main and 5,100 linear feet of 8-inch diameter ductile iron water main is $4,165,000.

8. A new 8-inch diameter main is recommended to be installed on Thatchers Lane and Lewis Street from Route 28 to Acapesket Road. The existing 2-inch water main on Thatchers Lane is considered to be in poor condition with an asset management rating of 70 due to the diameter, material, and location in contaminated soil. The improvement will eliminate the existing dead ends on Thatchers Lane and Acapesket Road. The estimated probable construction cost of approximately 1,500 linear feet of 8-inch diameter ductile iron water main is $520,000.

9. A new 8-inch diameter main is recommended to replace the existing 2-inch and 6-inch diameter water mains on Homer Avenue from County Road to the end. The existing mains are considered to be in poor condition with asset management ratings of 54 and 63 due to the age, diameter, and material of the mains. The upgrade will provide the needed

residential fire flow along Homer Avenue. The estimated probable construction cost of approximately 1,100 linear feet of 8-inch diameter ductile iron water main is $380,000.

10. A new 8-inch diameter main is recommended to replace the existing 6-inch diameter main along Waquoit Landing Road from Route 28 to Childs River Road. The existing main is hydraulically deficient and is considered to be in poor condition with an asset management rating of 59 due to age and material of the main. The upgrade will improve hydraulic capacity of the water main and provide residential fire flow to residences along Seapit Road and surrounding streets. The estimated probable construction cost of approximately 500 linear feet of 8-inch diameter ductile iron water main is $205,000.

11. A new 8-inch diameter main is recommended to replace the existing 6-inch diameter main along Nobska Road from Larches Way to the end of existing 6-inch water main. The existing main is hydraulically deficient and is considered to be in poor condition with an asset management rating of 43 to 56 due to age, material, and soil conditions. The upgrade will improve hydraulic capacity of the water main and provide residential fire flow along Nobska Road. The estimated probable construction cost of approximately 2,600 linear feet of 8-inch diameter ductile iron water main is $895,000.

12. New 8-inch diameter main is recommended to replace existing 6-inch diameter main on Whitman Road, Gardiner Road, and Gansett Road. The existing mains are hydraulically deficient and are considered to be in poor condition with asset management ratings ranging from 53 to 54 due to age and material of the mains. The upgrade will provide the needed residential fire flows in the area. The estimated probable construction cost of approximately 3,900 linear feet of 8-inch diameter ductile iron water main is $1,345,000.

13. A new 8-inch diameter main is recommended to replace the existing 6-inch diameter main along Little Island Road from Quaker Road to the end. The existing 6-inch diameter water main is considered to be in poor condition with an asset management rating of 54 due to age and material of the main. The upgrade will provide the needed residential fire flows to residences along Little Island Road. The estimated probable construction cost of approximately 2,300 linear feet of 8-inch diameter ductile iron water main is $795,000.

14. It is recommended to reconnect the following streets to the existing 12-inch diameter water main on Davisville Road and abandon the existing parallel 6-inch diameter water main on Davisville Road: Shaker Lane, Elizabeth Jean Drive, Pheasant Lane, Karyn Jane Avenue, Sandcastle Drive, and Marsh View Road. The existing 6-inch diameter water main on Davisville Road has an asset management rating of 53 due to age and material. Connecting the side streets to the existing 12-inch diameter water main will improve the hydraulic capacity of the residential water mains. In addition, it is recommended to replace the existing 6-inch diameter water main on Captains Road with new 8-inch diameter water main. The new 8-inch diameter water main, which should be connected to the existing 12-inch diameter water main on Davisville Road, will provide the necessary residential fire flow along Captains Road. The estimated probable construction cost of reconnecting the seven streets to the 12-inch diameter water main on Davisville Road and installing approximately 1,300 linear feet of 8-inch diameter ductile iron water main on Captains

Road is $600,000. This total estimated cost includes additional costs associated with reconnecting eight water services and six fire hydrants to the existing 12-inch diameter water main on Davisville Road.

15. A new 8-inch diameter main is recommended to replace the existing 6-inch diameter main on Longfellow Road from Alcott Road to Shoreview Avenue. The existing 6-inch diameter water main is considered to be in poor condition with an asset management rating of 52 due to age and material of the main. The existing 6-inch diameter water main on Longfellow Road does not currently connect to the existing 8-inch diameter water main on Alcott Road. This improvement will eliminate a dead end by making the connection and provide the needed residential fire flow along Longfellow Road. The estimated probable construction cost of approximately 1,100 linear feet of 8-inch diameter ductile iron water main is $380,000.

16. New 8-inch diameter water main is recommended to replace the existing water main on Uncatena N, Cliff Road, Naushon N, Naushon Rd S, and Naushon Circle. The existing 2-inch to 6-inch diameter water mains along these streets are considered fair to poor, with asset management ratings ranging from 29 to 44 due to age and material. This improvement will provide the necessary residential fire flows in the area. The estimated probable construction cost of approximately 5,100 linear feet of 8-inch diameter ductile iron water main is $1,755,000.

17. New 8-inch diameter water main is recommended to replace the existing 1.5-inch to 2-inch diameter water mains on Cypress Street, Philadelphia Street, and Bourne Street. The existing 1.5-inch to 2-inch diameter water mains are considered poor with asset management scores ranging from 42 to 68 due to age, material, and size. These streets do not currently have adequate fire hydrant coverage and are considered hydraulically deficient. Installing new 8-inch water main with hydrants will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 2,000 linear feet of 8-inch diameter ductile iron water main is $690,000.

18. New 8-inch diameter water main is recommended to replace the existing 1.25-inch to 2-inch diameter water mains on Providence Street, Great Bay Street, and Hiawatha Street. The existing 1.25-inch to 2-inch diameter water mains are considered poor with asset management scores ranging from 65 to 67 due to age, material, size, and a break. These streets do not currently have adequate fire hydrant coverage and are considered hydraulically deficient. Installing new 8-inch water main with hydrants will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 1,300 linear feet of 8-inch diameter ductile iron water main is $450,000.

19. New 8-inch diameter water main is recommended to replace the existing 1.5-inch to 2-inch diameter water main on Brockton Street. The existing 1.5-inch to 2-inch diameter water mains are considered fair to poor with asset management scores ranging from 29 to 59 due to age, material, and size. This street does not currently have adequate fire hydrant coverage and is considered hydraulically deficient. Installing new 8-inch water main with a hydrant will provide the recommended residential fire flow in the area. The estimated

probable construction cost of approximately 500 linear feet of 8-inch diameter ductile iron water main is $205,000.

20. New 8-inch diameter water main is recommended to replace the existing 1-inch to 2-inch diameter water main on Cape Codder Road from Beccles Road to the existing 8-inch diameter water main. The existing 1-inch to 2-inch diameter water mains are considered poor with asset management scores ranging from 64 to 66 due to age, material, and size. This street does not currently have adequate fire hydrant coverage and is considered hydraulically deficient. Installing new 8-inch water main with a hydrant will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 1,100 linear feet of 8-inch diameter ductile iron water main is $380,000.

21. New 8-inch diameter water main is recommended to replace the existing 2-inch diameter water main on Hamilton Street. The existing 2-inch diameter water main is considered poor with an asset management score of 66 due to age, material, and size. This street does not currently have adequate fire hydrant coverage and is considered hydraulically deficient. Installing new 8-inch water main with a hydrant will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 600 linear feet of 8-inch diameter ductile iron water main is $245,000.

22. New 8-inch diameter water main is recommended to replace the existing 2-inch to 6-inch diameter water main on Ransom Road. The existing 2-inch to 6-inch diameter water mains are considered fair to poor with asset management scores ranging from 31 to 66 due to age, material, and size. This street does not currently have adequate fire hydrant coverage and is considered hydraulically deficient. Installing new 8-inch water main with hydrants will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 2,200 linear feet of 8-inch diameter ductile iron water main is $760,000.

23. New 8-inch diameter water main is recommended to replace the existing 2-inch diameter water main on Pires Way and on Cinroc Circle from Pires Way to the existing 8-inch diameter water main. The existing 2-inch diameter water mains are considered fair to poor with asset management scores ranging from 29 to 66 due to age, material, and size. These streets do not currently have adequate fire hydrant coverage and are considered hydraulically deficient. Installing new 8-inch water main with hydrants will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 1,900 linear feet of 8-inch diameter ductile iron water main is $655,000.

24. New 8-inch diameter water main is recommended to replace the existing 2-inch to 8-inch diameter water main on English Street and on Maravista Avenue Extension from Maravista Avenue to English Street. The existing 2-inch to 8-inch diameter water mains are considered poor with asset management scores ranging from 47 to 53 due to age, material, and size. These streets do not currently have adequate fire hydrant coverage and are considered hydraulically deficient. Installing new 8-inch water main with hydrants will provide the recommended residential fire flow in the area. The estimated probable

construction cost of approximately 1,600 linear feet of 8-inch diameter ductile iron water main is $555,000.

25. New 8-inch diameter water main is recommended to replace the existing 2-inch diameter water main on Figuerido Way. The existing 2-inch diameter water main is considered poor with an asset management score of 48 due to age, material, and size. This street does not currently have adequate fire hydrant coverage and is considered hydraulically deficient. Installing new 8-inch water main with a hydrant will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 900 linear feet of 8-inch diameter ductile iron water main is $370,000.

26. New 8-inch diameter water main is recommended to replace the existing 2-inch diameter water main on Langley Road. The existing 2-inch diameter water main is considered poor with an asset management score of 66 due to age, material, and size. This street does not currently have adequate fire hydrant coverage and is considered hydraulically deficient. Installing new 8-inch water main with hydrants will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 900 linear feet of 8-inch diameter ductile iron water main is $370,000.

27. New 8-inch diameter water main is recommended to replace the existing 2-inch to 8-inch diameter water main on Little Neck Bars Road from West Falmouth Highway to Black Beach Hills Road and on Black Beach Hills Road. The existing 2-inch to 8-inch diameter water mains are considered poor with asset management scores ranging from 51 to 72 due to age, material, size, and identified corrosive soil. These streets do not currently have adequate fire hydrant coverage and are considered hydraulically deficient. Installing new 8-inch water main with hydrants will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 3,800 linear feet of 8-inch diameter ductile iron water main is $1,310,000.

28. New 8-inch diameter water main is recommended to replace the existing 2-inch to 4-inch diameter water main on Quonset Road and Onawa Lane. The existing 2-inch to 4-inch diameter water mains are considered poor with asset management scores ranging from 58 to 59 due to age, material, and size. These streets do not currently have adequate fire hydrant coverage and are considered hydraulically deficient. Installing new 8-inch water main with hydrants will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 1,300 linear feet of 8-inch diameter ductile iron water main is $450,000.

29. New 8-inch diameter water main is recommended to replace the existing 2-inch to 6-inch diameter water main on Virtue Circle. The existing 2-inch to 6-inch diameter water mains are considered fair to poor with asset management scores ranging from 39 to 53 due to age, material, and size. This street does not currently have adequate fire hydrant coverage and is considered hydraulically deficient. Installing new 8-inch water main with a hydrant will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 600 linear feet of 8-inch diameter ductile iron water main is $245,000.

30. New 8-inch diameter water main is recommended to replace the existing 2-inch diameter water main on Greengate Road. The existing 2-inch diameter water main is considered poor with an asset management score of 53 due to age, material, and size. This street does not currently have adequate fire hydrant coverage and is considered hydraulically deficient. Installing new 8-inch water main with a hydrant will provide the recommended residential fire flow in the area. The estimated probable construction cost of approximately 400 linear feet of 8-inch diameter ductile iron water main is $165,000.

31. New 8-inch diameter water main is recommended to replace the existing 6-inch diameter water main on Loren Road from Wild Harbor Road to Downer Road and on Downer Road from Loren Road to Westwood Road. The existing 6-inch diameter water main is considered poor, with asset management ratings ranging from 59 to 73 due to age, material, and water quality concerns. The improvement will eliminate two dead ends and improve the hydraulic capacity in the area. The estimated probable construction cost of approximately 1,000 linear feet of 8-inch diameter ductile iron water main is $410,000.

32. A new 8-inch diameter water main is recommended to replace the existing 2-inch diameter water main on Spring Bars Road from Route 28 to the existing 8-inch diameter water main. The existing 2-inch diameter water main is considered poor, with an asset management rating of 66. The high asset management rating is due to size, material, and age. The improvement will eliminate the existing bottleneck on Spring Bars Road. The estimated probable construction cost of approximately 500 linear feet of 8-inch diameter ductile iron water main is $205,000.

33. A new 8-inch diameter water main is recommended to replace the existing 6-inch diameter water main on Gosnold Road from Spencer Baird Road to Gardiner Road. The existing 6-inch diameter water main is considered poor with an asset management rating of 54 due to age and material. The improvement will eliminate a dead on Gosnold Road. The estimated probable construction cost of approximately 800 linear feet of 8-inch diameter ductile iron water main is $325,000.

34. New 8-inch diameter water main is recommended to be installed to connect the existing portions of 8-inch diameter water main on Nauset Avenue E. In addition, new 8-inch diameter water main is recommended to replace existing 6-inch diameter water main on Nauset Avenue E from the existing 8-inch diameter water main to Shaume Road, and on Shaume Road from Nauset Avenue E to Quaker Road. Installing new 8-inch diameter water main on Nauset Avenue E will eliminate two dead ends. In addition, the existing 6-inch diameter water main on Shaume Road is considered poor with an asset management rating of 52 due to size, material, and installation year. The estimated probable construction cost of approximately 1,400 linear feet of 8-inch diameter ductile iron water main is $485,000.

35. A new 12-inch diameter water main is recommended to be installed along Old Barnstable Road from the existing 12-inch water main at Old Meeting House Road to Pine Ridge Road. The portion of existing 12-inch water main along this stretch is considered in poor

condition with an asset management rating of 40 due to age and material. This improvement will eliminate a dead end on Old Barnstable Road and improve transmission capabilities in the area. The estimated probable construction cost of approximately 1,000 linear feet of 12-inch diameter ductile iron water main is $585,000. This total estimated cost includes additional cost associated with horizontal directional drilling on Old Barnstable Road.

36. A new 12-inch diameter water main is recommended to replace existing 8-inch to 10-inch diameter water main along Water Street from Albatross Street to Church Street, not including the existing 12-inch diameter water main bridge crossing over Eel Pond. In addition, new 8-inch diameter water main is recommended to replace existing 1-inch and 8-inch diameter water mains on Luscombe Avenue from Water Street to Railroad Avenue and on Railroad Avenue from Luscombe Avenue to Water Street. Also, new 8-inch diameter water main is recommended to replace existing 6-inch diameter water main on Little Harbor Road from Water Street to the existing 8-inch diameter water main. With the exception of the Eel Pond bridge crossing, the existing water mains are considered poor, with asset management ratings ranging from 45 to 60 due to material, installation year, and size. Water mains along these streets are considered critical due to their proximity to several critical customers including the National Marine Fisheries Services, the Marine Biological Laboratory, the Woods Hole Oceanographic Institution, the Steamship Authority, and the US Coast Guard. The estimated probable construction cost of approximately 3,200 linear feet of 12-inch diameter ductile iron water main and approximately 1,200 linear feet of 8-inch diameter ductile iron water main is $1,840,000.

37. New 8-inch diameter water main is recommended to replace the existing 8-inch diameter Lawrence School water main connection from Lakeview Avenue to the school. The existing water main is considered poor with an asset management score of 47 due to age and material. The connection is also considered critical as it serves the Lawrence School. The estimated probable construction cost of approximately 600 linear feet of 8-inch diameter ductile iron water main is $245,000.

38. New 8-inch diameter water main is recommended to replace existing 6-inch diameter water main on Haddon Avenue from Route 28 to Katharine Lee Bates Road and on Katharine Lee Bates Road from Haddon Avenue to Route 28. The existing 6-inch diameter water main is considered fair to poor with asset management ratings ranging from 39 to 60 due to age and material. These water mains are also considered critical due to their proximity to the Mullen-Hall School. The estimated probable construction cost of approximately 1,100 linear feet of 8-inch diameter ductile iron water main is $380,000.

39. New 12-inch diameter water main is recommended to replace existing 10-inch diameter water main on Old Main Road from the existing 12-inch diameter water main at Curley Boulevard to County Road. In addition, new 8-inch diameter water main is recommended to replace existing 6-inch diameter water main on Old Main Road from County Road to the existing 8-inch diameter water main. The existing 10-inch and 6-inch diameter water mains are considered poor with asset management ratings ranging from 43 to 54 due to age and material. The existing 10-inch diameter water main is also considered critical because

it serves the North Falmouth Elementary School. The estimated probable construction cost of approximately 5,500 linear feet of 12-inch diameter ductile iron water main and approximately 1,600 linear feet of 8-inch diameter ductile iron water main is $2,785,000.

40. New 12-inch diameter water main is recommended to replace the existing 12-inch diameter water main on Quaker Road from Curley Boulevard to the Sea Crest Hotel. In addition, new 16-inch diameter water main is recommended to replace the existing 16-inch diameter water main on Quaker Road from the Sea Crest Hotel to the existing 16-inch HDPE water main. The existing section of 12-inch diameter water main running parallel to the 16-inch diameter water main from the Sea Crest Hotel to the existing 16-inch HDPE water main should be abandoned. The existing 12-inch diameter water main is considered poor with an asset management rating ranging from 40 to 47 due to age, material, a history of breaks, and poor soil. The existing 16-inch diameter water main is considered poor with an asset management rating of 43 due to age, material, and poor soil. This portion of water main is also considered critical because of its proximity to the Sea Crest Hotel. The estimated probable construction cost of approximately 600 linear feet of 16-inch diameter ductile iron water main and approximately 4,200 linear feet of 12-inch diameter ductile iron water main is $2,070,000.

41. New 12-inch diameter water main is recommended to replace the existing 10-inch and 12-inch diameter water main on Gifford Street from Jones Road to the existing 16-inch diameter water main. The existing 12-inch diameter water main is considered poor with an asset management rating of 40 due to material, installation year, and a main break. The water main on Gifford Street is also considered critical because of its proximity to the Atria Woodbriar assisted living facility. The estimated probable construction cost of approximately 2,900 linear feet of 12-inch diameter ductile iron water main is $1,240,000.

42. New 8-inch diameter water main is recommended to replace existing 8-inch and 10-inch diameter water mains along Surf Drive from Oyster Pond Road to Shore Street. The existing water mains are considered poor, with asset management ratings ranging from 43 to 59 due to age, material, a break, and identified corrosive soil. Portions of the water main along this stretch are also considered critical because they cross rivers from Oyster Pond, Salt Pond, and Siders Pond. The estimated probable construction cost of approximately 7,400 linear feet of 8-inch diameter ductile iron water main is $3,040,000. This total estimated cost includes additional cost associated with horizontal directional drilling at the outlets from Oyster Pond, Salt Pond, and Siders Pond.

43. New 12-inch diameter water main is recommended to replace existing 8-inch and 12-inch water main on Menauhant Road from the existing 12-inch diameter water main over the Little Pond bridge crossing to Davisville Road. The existing water mains are considered poor with asset management ratings ranging from 40 to 52 due to age, material, a history of breaks, and poor soil. The existing water mains crossing over Great Pond and Green Pond are also considered critical. The estimated probable construction cost of approximately 9,100 linear feet of 12-inch diameter ductile iron water main is $6,180,000. This total estimated cost includes additional cost associated with the under-deck bridge crossings over Great Pond and Green Pond.

Phase IIIA Improvements – Hydraulic

44. A new 8-inch diameter water main is recommended on Anchorage Road from Waterside Drive to the existing 6-inch diameter water main. This improvement will eliminate a dead end and improve system redundancy. The estimated probable construction cost for approximately 200 linear feet of 8-inch diameter water main is $85,000.

45. A new 12-inch diameter water main is recommended to replace the existing 8-inch diameter water main on Depot Avenue from North Main Street to the existing 12-inch diameter water main. This improvement will eliminate the bottleneck between the 12-inch diameter main connecting to Bramble Bush Drive and the 12-inch diameter main on North Main Street. The estimated probable construction cost for approximately 900 linear feet of 12-inch diameter water main is $395,000.

46. A new 8-inch diameter water main is recommended on Sandpiper Circle from Shorewood Drive to the existing 6-inch diameter water main. This improvement will eliminate a dead end and improve system redundancy. The estimated probable construction cost for approximately 200 linear feet of 8-inch diameter water main is $85,000.

47. A new 8-inch diameter water main is recommended on Hillside Avenue and Norma Road from the existing 6-inch diameter water main to the existing 8-inch diameter water main. This improvement will eliminate two dead ends and improve flow in the area. The estimated probable construction cost for approximately 300 linear feet of 8-inch diameter water main is $125,000.

48. A new 8-inch diameter water main is recommended on Riddle Hill Road from Stonewall Lane to Two Ponds Road. This improvement will eliminate a dead end and improve system redundancy. The estimated probable construction cost for approximately 1,000 linear feet of 8-inch diameter water main is $410,000.

49. A new 8-inch diameter water main is recommended on Shoreview Avenue from the existing 6-inch diameter main just north of Whittier Road to the existing 6-inch diameter main just south of Kilmer Road. The new 8-inch diameter water main should connect into the existing 6-inch diameter water mains on Whittier Road and Kilmer Road. The new main will eliminate four dead ends and improve flow throughout the area. The estimated probable construction cost for approximately 500 linear feet of 8-inch diameter water main is $205,000.

50. A new 8-inch diameter water main is recommended on Dillingham Avenue to connect the existing 8-inch diameter water mains. The new 8-inch diameter water main should connect into the existing 8-inch diameter water main at Lantern Lane and the existing 8-inch diameter water main on Morse Pond Road. The new main will eliminate four dead ends and improve flow throughout the area. The estimated probable construction cost for approximately 1,900 linear feet of 8-inch diameter water main is $655,000.

51. A new 8-inch diameter water main is recommended on Parker Mills Road from Sandwich Road to Green Acres Road. This improvement will eliminate a dead end and improve

system redundancy. The estimated probable construction cost for approximately 400 linear feet of 8-inch diameter water main is $165,000.

52. A new 8-inch diameter water main is recommended on Brick Kiln Road from Service Road to the existing 8-inch diameter water main. This improvement will eliminate a dead end and improve transmission capabilities in the system. The estimated probable construction cost for approximately 5,200 linear feet of 8-inch diameter water main is $1,880,000.

53. A new 8-inch diameter water main is recommended on Woodrise Road from Palmer Avenue to the existing 8-inch diameter water main. This improvement will eliminate a dead end and improve system redundancy. The estimated probable construction cost for approximately 900 linear feet of 8-inch diameter water main is $370,000.

54. A new 8-inch diameter water main is recommended on Ipswich Drive from the existing 8-inch diameter water main to Seacoast Shores Boulevard. This improvement will eliminate a dead end and improve system redundancy. The estimated probable construction cost for approximately 200 linear feet of 8-inch diameter water main is $85,000.

55. A new 8-inch diameter water main is recommended to replace the existing 2-inch diameter water main on Pina Lane. This street does not currently have adequate fire hydrant coverage and is considered hydraulically deficient. Installing new 8-inch water main with a hydrant will provide the recommended residential fire flow in the area. The estimated probable construction cost for approximately 500 linear feet of 8-inch diameter water main is $205,000.

56. A new 12-inch diameter water main is recommended on Hayway Road from the existing 12-inch diameter water main at Monhegan Road to Old Barnstable Road. The new 12-inch diameter water main should connect into the existing 6-inch diameter water main on Mello Street and the existing 8-inch diameter water main on Seneca Road. The new main will eliminate four dead ends and improve flow throughout the area. The estimated probable construction cost for approximately 2,100 linear feet of 12-inch diameter water main is $855,000.

57. A new 8-inch diameter water main is recommended on Lakewood Drive from Sandwich Road to the existing 6-inch diameter water main. This improvement will eliminate a dead end and improve system redundancy. The estimated probable construction cost for approximately 200 linear feet of 8-inch diameter water main is $85,000.

58. A new 8-inch diameter water main is recommended to connect the existing 12-inch diameter water main on Twin Hill Road to the existing 8-inch diameter water main on Doran Drive, and connect the existing 8-inch diameter water mains on Doran Drive and Edmar Road. This improvement will create redundancy and help improve flows in the area. The estimated probable construction cost for approximately 700 linear feet of 8-inch diameter water main is $285,000.

59. A new 8-inch diameter water main is recommended on Standish Avenue from Sippewissett Road to the existing 8-inch diameter water main. This improvement will eliminate a dead end and improve system redundancy. The estimated probable construction cost for approximately 600 linear feet of 8-inch diameter water main is $245,000.

60. A new 8-inch diameter water main is recommended to connect the existing 8-inch diameter water mains on Childs River Road. This improvement will eliminate two dead end and improve system redundancy. The estimated probable construction cost for approximately 200 linear feet of 8-inch diameter water main is $85,000.

61. A new 8-inch diameter water main is recommended on Owls Nest Road from Pinecrest Beach Drive to the existing 8-inch diameter water main. This improvement will eliminate a dead end and improve system redundancy. The estimated probable construction cost for approximately 300 linear feet of 8-inch diameter water main is $125,000.

62. A new 8-inch diameter water main is recommended to connect the existing 8-inch diameter water mains on Theroux Drive. This improvement will eliminate two dead ends and improve system redundancy. The estimated probable construction cost for approximately 200 linear feet of 8-inch diameter water main is $85,000.

Phase IIIB Improvements – Asset Management

63. Based on the asset management ratings, the water mains with asset management ratings equal to or greater than 40 are considered poor. This represents approximately 27 percent of the water distribution system. Some of these water mains are included in Phase I and Phase II improvements. There are approximately 83 miles of main with high asset management ratings that have not been included as Phase I or II improvements. In general, the water mains with the highest asset management rating should be replaced first. These mains should be completed as funds become available. Also, these mains should be considered when reviewing road paving schedules and stormwater work. It should be noted that on some streets with parallel water mains, it may be possible to abandon one water main with a poor asset management rating by transferring services, hydrants, and side street connections to a parallel water main with a better asset management rating.

    The water mains with high asset management ratings are identified on the Phase III Improvements Map found in Appendix G. The total length of Phase IIIB recommended water main improvements by existing and proposed diameter is summarized in Table No. 7-7. The estimated probable construction cost to replace these water mains is also included in Table No. 7-7. These water mains were not considered to be hydraulically deficient, however, while estimating costs, it was assumed that all water mains with diameter 8-inch or less would be replaced with an 8-inch diameter main. It was also assumed that all 10-inch and 12-inch diameter water mains would be replaced with 12-inch diameter water main, and all 16-inch and 18-inch diameter water mains would be replaced with 16-inch diameter water main. The location of the water main being replaced should be evaluated to determine if a smaller diameter main would be appropriate.

Table No. 7-1
Prioritization of Improvements – Phase I

Item No.	Location	From	To	Hydraulic Priority	Asset Management Rating	Critical
1	Saconesset Road	Palmer Avenue	Existing 8-inch water main	2A	43	Y
	Arnold Gifford Road	Saconesset Road	Peace Pipe Road		52	
	Peace Pipe Road	Arnold Gifford Road	end		34 - 39	
	Wigwam Road	Peace Pipe Road	end		31	
	Indian Ridge Road	Saconesset Road	end		39 - 66	
	Salt Works Way	Indian Ridge Road	Indian Ridge Road		34 - 66	
2	County Road	Old Main Road	Chester Street	2A	43	Y
	County Road	Chester Street	End		49 - 58	
	Pine Bank Road	County Road	End		21 - 63	
	Riverway	Pine Bank Road	End		33	
	Circle Drive	County Road	End		58	
3	Carriage Shop Road	Fresh Pond Road	Bonnie Lane	3	53	Y

Table No. 7-2
Estimated Improvement Cost – Phase I

Item No.	Location	From	To	Proposed Diameter (in)	Length (LF)	Estimated Cost
1	Saconesset Road	Palmer Avenue	Existing 8-inch water main	8	3,600	$3,465,000
	Arnold Gifford Road	Saconesset Road	Peace Pipe Road	8	600	
	Peace Pipe Road	Arnold Gifford Road	End	8	900	
	Wigwam Road	Peace Pipe Road	End	8	300	
	Indian Ridge Road	Saconesset Road	End	8	1,500	
	Salt Works Way	Indian Ridge Road	Indian Ridge Road	8	1,000	
2	County Road	Old Main Road	Chester Street	8	1,200	$1,640,000
	County Road	Chester Street	End	8	2,100	
	Pine Bank Road	County Road	End	8	700	
	Riverway	Pine Bank Road	End	8	400	
	Circle Drive	County Road	End	8	300	
3	Carriage Shop Road	Fresh Pond Road	Bonnie Lane	8	4,200	$1,635,000
Total Estimated Phase I Cost:						**$6,740,000**

Table No. 7-3
Prioritization of Improvements – Phase II

Item No.	Location	From	To	Hydraulic Priority	Asset Management Rating	Critical
4	Nathan Ellis Highway	Sam Turner Road	Old County Road	1	-	Y
5	Falmouth Heights Road	Existing 12-inch water main	Grand Avenue	1	50 - 53	N
	Grand Avenue	Falmouth Heights Road	Existing 8-inch water main		11 - 58	
6	Edgewater Drive W	Route 28	Marshall Drive	3	-	Y
7	Wild Harbor Road	Old Main Road	Quaker Road	2A	48	N
	Wild Harbor Road	Quaker Road	Loren Road		48-60	
	Wild Harbor Road	Existing 8-inch water main at Loren Road	Point Road		60	
	Point Road	Wild Harbor Road	End		60	
8	Thatchers Lane	Route 28	Lewis Street	2A & 3	35 - 70	N
	Lewis Street	Thatchers Lane	Acapesket Road		39	
9	Homer Avenue	County Road	End	2A	54 – 63	N
10	Waquoit Landing Road	Route 28	Childs River Road	2A	59	N
11	Nobska Road	Larches Way	End of existing 6-inch water main	2A	43 - 56	N
12	Whitman Road	Quissett Avenue	Gardiner Road	2A	54	N
	Gardiner Road	Whitman Road	Gansett Road		53	
	Gansett Road	Gardiner Road	End		53	
13	Little Island Road	Quaker Road	End	2A	54	N

Item No.	Location	From	To	Hydraulic Priority	Asset Management Rating	Critical
14	Captains Road	Davisville Road	End	2A	39	N
	Shaker Lane	Connection at Davisville Road			34	
	Elizabeth Jean Drive	Connection at Davisville Road			53	
	Pheasant Lane	Connection at Davisville Road			53	
	Karyn Jane Avenue	Connection at Davisville Road			53	
	Sandcastle Drive	Connection at Davisville Road			53	
	Marsh View Road	Connection at Davisville Road			53	
15	Longfellow Road	Alcott Road	Shoreview Avenue	2A	52	N
16	Uncatena N	Cliff Road	End	2A	34 - 44	N
	Cliff Road	Quaker Road	Uncatena N		44	
	Naushon N	Cliff Road	End		32 - 34	
	Naushon Road S	Cliff Road	Nonamesset Road		44	
	Naushon Circle	Nonamesset Road	Nonamesset Road		29 - 44	
17	Cypress Street	Maravista Avenue	End	2B	42	N
	Philadelphia Street	Maravista Avenue	End		68	
	Bourne Street	Maravista Avenue	End		59	
18	Providence Street	Maravista Avenue	Great Bay Street	2B	67	N
	Great Bay Street	Providence Street	Hiawatha Street		65 - 67	
	Hiawatha Street	Great Bay Street	Maravista Avenue		65 - 67	
19	Brockton Street	Maravista Avenue	End	2B	29 - 59	N
20	Cape Codder Road	Beccles Road	Existing 8-inch water main	2B	64 - 66	N
21	Hamilton Street	Maravista Avenue	End	2B	66	N
22	Ransom Road	Woods Hole Road	End	2B	31 – 66	N

Item No.	Location	From	To	Hydraulic Priority	Asset Management Rating	Critical
23	Pires Way	Route 28	End	2B	29 – 66	N
	Cinroc Circle	Pires Way	Existing 8-inch water main		66	
24	English Street	Maravista Avenue Ext.	End	2B	52 - 53	N
	Maravista Avenue Ext.	Maravista Avenue	English Street		47	
25	Figuerido Way	Teaticket Highway	End	2B	48	N
26	Langley Road	Sippewissett Road	Gunning Point Road	2B	66	N
27	Little Neck Bars Road	West Falmouth Highway	Black Beach Hills Road	2B	51	N
	Black Beach Hills Road	Little Neck Bars Road	End		52 - 72	
28	Quonset Road	Elm Road	Elm Road	2B	58	N
	Onawa Lane	Quonset Road	End		59	
29	Virtue Circle	W Falmouth Highway	End	2B	39 – 53	N
30	Greengate Road	Existing 8-inch water main	End	2B	53	N
31	Loren Road	Wild Harbor Road	Downer Road	3	73	N
	Downer Road	Loren Road	Westwood Road		59 - 72	
32	Spring Bars Road	Route 28	Existing 8-inch water main	3	66	N
33	Gosnold Road	Spencer Baird Road	Gardiner Road	3	54	N
34	Nauset Avenue E	Cummaquid Road	Shaume Road	3	14 - 52	N
	Shaume Road	Nauset Avenue E	Quaker Road		52	
35	Old Barnstable Road	Existing 12-inch water main at Old Meeting House Road	Pine Ridge Road	3	40	N

Item No.	Location	From	To	Hydraulic Priority	Asset Management Rating	Critical
36	Water Street	Existing 8-inch water main at Albatross Street	Existing 12-inch DI water main	-	45 - 51	Y
	Water Street	Existing 12-inch DI water main	Church Street		45	
	Luscombe Avenue	Water Street	Railroad Avenue		51	
	Railroad Avenue	Luscombe Avenue	Water Street		60	
	Little Harbor Road	Water Street	Existing 8-inch water main		56	
37	Lawrence School connection	Lakeview Avenue	End	-	47	Y
38	Haddon Avenue	Route 28	Katharine Lee Bates Road	-	39 – 60	Y
	Katharine Lee Bates Road	Haddon Avenue	Route 28			
39	Old Main Road	Existing 12-inch water main at Curley Boulevard	County Road	-	43	Y
	Old Main Road	County Road	Existing 8-inch water main		54	
40	Quaker Road	Curley Boulevard	Sea Crest Hotel connection	-	40 - 47	Y
	Quaker Road	Sea Crest Hotel connection	Existing 16-inch HDPE main		43	
41	Gifford Street	Jones Road	Existing 16-inch water main	-	40	Y
42	Surf Drive	Oyster Pond Road	Shore Street	-	43 - 59	Y
43	Menauhant Road	Existing 12-inch water main over Little Pond river crossing	Davisville Road	-	40 - 52	Y

Table No. 7-4
Estimated Improvement Cost – Phase II

Item No.	Location	From	To	Proposed Diameter (in)	Length (LF)	Estimated Cost
4	Nathan Ellis Highway	Sam Turner Road	Old County Road	16	5,800	$3,360,000
5	Falmouth Heights Road	Existing 12-inch water main	Grand Avenue	12	1,100	$1,110,000
	Grand Avenue	Falmouth Heights Road	Existing 8-inch water main	12	1,500	
6	Edgewater Drive W	Route 28	Marshall Drive	8	400	$165,000
7	Wild Harbor Road	Old Main Road	Quaker Road	8	2,600	$4,165,000
	Wild Harbor Road	Quaker Road	Loren Road	12	5,500	
	Wild Harbor Road	Existing 8-inch water main at Loren Road	Point Road	8	1,000	
	Point Road	Wild Harbor Road	End	8	1,500	
8	Thatchers Lane	Route 28	Lewis Street	8	1,100	$520,000
	Lewis Street	Thatchers Lane	Acapesket Road	8	400	
9	Homer Avenue	County Road	End	8	1,100	$380,000
10	Waquoit Landing Road	Route 28	Childs River Road	8	500	$205,000
11	Nobska Road	Larches Way	End of existing 6-inch water main	8	2,600	$895,000
12	Whitman Road	Quissett Avenue	Gardiner Road	8	1,300	$1,345,000
	Gardiner Road	Whitman Road	Gansett Road	8	800	
	Gansett Road	Gardiner Road	End	8	1,800	
13	Little Island Road	Quaker Road	End	8	2,300	$795,000

Item No.	Location	From	To	Proposed Diameter (in)	Length (LF)	Estimated Cost
14	Captains Road	Davisville Road	End	8	1,300	$600,000
	Shaker Lane	Connection at Davisville Road		-	-	
	Elizabeth Jean Drive	Connection at Davisville Road		-	-	
	Pheasant Lane	Connection at Davisville Road		-	-	
	Karyn Jane Avenue	Connection at Davisville Road		-	-	
	Sandcastle Drive	Connection at Davisville Road		-	-	
	Marsh View Road	Connection at Davisville Road		-	-	
15	Longfellow Road	Alcott Road	Shoreview Avenue	8	1,100	$380,000
16	Uncatena N	Cliff Road	End	8	1,300	$1,755,000
	Cliff Road	Quaker Road	Uncatena N	8	1,500	
	Naushon N	Cliff Road	End	8	600	
	Naushon Road S	Cliff Road	Nonamesset Road	8	600	
	Naushon Circle	Nonamesset Road	Nonamesset Road	8	1,100	
17	Cypress Street	Maravista Avenue	End	8	600	$690,000
	Philadelphia Street	Maravista Avenue	End	8	700	
	Bourne Street	Maravista Avenue	End	8	700	
18	Providence Street	Maravista Avenue	Great Bay Street	8	600	$450,000
	Great Bay Street	Providence Street	Hiawatha Street	8	200	
	Hiawatha Street	Great Bay Street	Maravista Avenue	8	500	
19	Brockton Street	Maravista Avenue	End	8	500	$205,000
20	Cape Codder Road	Beccles Road	Existing 8-inch water main	8	1,100	$380,000
21	Hamilton Street	Maravista Avenue	End	8	600	$245,000
22	Ransom Road	Woods Hole Road	End	8	2,200	$760,000

Item No.	Location	From	To	Proposed Diameter (in)	Length (LF)	Estimated Cost
23	Pires Way	Route 28	End	8	1,400	$655,000
	Cinroc Circle	Pires Way	Existing 8-inch water main	8	500	
24	English Street	Maravista Avenue Ext.	End	8	1,300	$555,000
	Maravista Avenue Ext.	Maravista Avenue	English Street	8	300	
25	Figuerido Way	Teaticket Highway	End	8	900	$370,000
26	Langley Road	Sippewissett Road	Gunning Point Road	8	900	$370,000
27	Little Neck Bars Road	West Falmouth Highway	Black Beach Hills Road	8	2,500	$1,310,000
	Black Beach Hills Road	Little Neck Bars Road	End	8	1,300	
28	Quonset Road	Elm Road	Elm Road	8	1,000	$450,000
	Onawa Lane	Quonset Road	End	8	300	
29	Virtue Circle	W Falmouth Highway	End	8	600	$245,000
30	Greengate Road	Existing 8-inch water main	End	8	400	$165,000
31	Loren Road	Wild Harbor Road	Downer Road	8	300	$410,000
	Downer Road	Loren Road	Westwood Road	8	700	
32	Spring Bars Road	Route 28	Existing 8-inch water main	8	500	$205,000
33	Gosnold Road	Spencer Baird Road	Gardiner Road	8	800	$325,000
34	Nauset Avenue E	Cummaquid Road	Shaume Road	8	1,100	$485,000
	Shaume Road	Nauset Avenue E	Quaker Road	8	300	
35	Old Barnstable Road	Existing 12-inch water main at Old Meeting House Road	Pine Ridge Road	12	1,000	$585,000

Item No.	Location	From	To	Proposed Diameter (in)	Length (LF)	Estimated Cost
36	Water Street	Existing 8-inch water main at Albatross Street	Existing 12-inch DI water main	12	1,100	$1,840,000
	Water Street	Existing 12-inch DI water main	Church Street	12	2,100	
	Luscombe Avenue	Water Street	Railroad Avenue	8	400	
	Railroad Avenue	Luscombe Avenue	Water Street	8	500	
	Little Harbor Road	Water Street	Existing 8-inch water main	8	300	
37	Lawrence School connection	Lakeview Avenue	End	8	600	$245,000
38	Haddon Avenue	Route 28	Katharine Lee Bates Road	8	300	$380,000
	Katharine Lee Bates Road	Haddon Avenue	Route 28	8	800	
39	Old Main Road	Existing 12-inch water main at Curley Boulevard	County Road	12	5,500	$2,785,000
	Old Main Road	County Road	Existing 8-inch water main	8	1,600	
40	Quaker Road	Curley Boulevard	Sea Crest Hotel connection	12	4,200	$2,070,000
	Quaker Road	Sea Crest Hotel connection	Existing 16-inch HDPE main	16	600	
41	Gifford Street	Jones Road	Existing 16-inch water main	12	2,900	$1,240,000
42	Surf Drive	Oyster Pond Road	Shore Street	8	7,400	$3,040,000
43	Menauhant Road	Existing 12-inch water main over Little Pond river crossing	Davisville Road	12	9,100	$6,180,000
					Total Estimated Phase II Cost:	**$42,315,000**

Table No. 7-5
Prioritization of Improvements – Phase IIIA

Item No.	Location	From	To	Hydraulic Priority	Asset Management Rating	Critical
44	Anchorage Road	Waterside Drive	Existing 6-inch water main	3	34 - 39	N
45	Depot Avenue	N Main Street	Existing 12-inch water main	3	39	N
46	Sandpiper Circle	Shorewood Drive	Existing 6-inch water main	3	39	N
47	Hillside Avenue and Norma Road	Existing 6-inch main	Existing 8-inch main	3	29 - 34	N
48	Riddle Hill Road	Stonewall Lane	Two Ponds Road	3	34	N
49	Shoreview Avenue	Existing 6-inch water main	Existing 6-inch water main	3	34	N
50	Dillingham Avenue	Existing 8-inch water main	Existing 8-inch water main	3	11 - 34	N
51	Parker Mills Road	Sandwich Road	Green Acres Road	3	34	N
52	Brick Kiln Road	Service Road	Existing 8-inch water main	3	7 - 29	N
53	Woodrise Road	Palmer Avenue	Existing 8-inch water main	3	29	N
54	Ipswich Drive	Existing 8-inch water main	Seacoast Shores Boulevard	3	27	N
55	Pina Lane	Sandwich Road	End	2B	26	N
56	Hayway Road	Existing 12-inch water main at Monhegan Road	Old Barnstable Road	3	20	N
57	Lakewood Drive	Sandwich Road	Existing 6-inch water main	3	19	N
58	Cross-country	Twin Hill Road	Doran Drive	3	7 - 14	N
	Cross-country	Doran Drive	Edmar Road		14	
59	Standish Avenue	Sippewissett Road	Existing 8-inch water main	3	14	N
60	Childs River Road	Existing 8-inch water main	Existing 8-inch water main	3	12 - 14	N
61	Owls Nest Road	Pinecrest Beach Drive	Existing 8-inch water main	3	12	N
62	Theroux Drive	Existing 8-inch water main	Existing 8-inch water main	3	11	N

Table No. 7-6
Estimated Improvement Cost – Phase IIIA

Item No.	Location	From	To	Proposed Diameter (in)	Length (LF)	Estimated Cost
44	Anchorage Road	Waterside Drive	Existing 6-inch water main	8	200	$85,000
45	Depot Avenue	N Main Street	Existing 12-inch water main	12	900	$395,000
46	Sandpiper Circle	Shorewood Drive	Existing 6-inch water main	8	200	$85,000
47	Hillside Avenue and Norma Road	Existing 6-inch main	Existing 8-inch main	8	300	$125,000
48	Riddle Hill Road	Stonewall Lane	Two Ponds Road	8	1,000	$410,000
49	Shoreview Avenue	Existing 6-inch water main	Existing 6-inch water main	8	500	$205,000
50	Dillingham Avenue	Existing 8-inch water main	Existing 8-inch water main	8	1,900	$655,000
51	Parker Mills Road	Sandwich Road	Green Acres Road	8	400	$165,000
52	Brick Kiln Road	Service Road	Existing 8-inch water main	8	5,200	$1,880,000
53	Woodrise Road	Palmer Avenue	Existing 8-inch water main	8	900	$370,000
54	Ipswich Drive	Existing 8-inch water main	Seacoast Shores Boulevard	8	200	$85,000
55	Pina Lane	Sandwich Road	End	8	500	$205,000
56	Hayway Road	Existing 12-inch water main at Monhegan Road	Old Barnstable Road	12	2,100	$855,000
57	Lakewood Drive	Sandwich Road	Existing 6-inch water main	8	200	$85,000
58	Cross-country	Twin Hill Road	Doran Drive	8	400	$285,000
	Cross-country	Doran Drive	Edmar Road	8	300	
59	Standish Avenue	Sippewissett Road	Existing 8-inch water main	8	600	$245,000
60	Childs River Road	Existing 8-inch water main	Existing 8-inch water main	8	200	$85,000
61	Owls Nest Road	Pinecrest Beach Drive	Existing 8-inch water main	8	300	$125,000
62	Theroux Drive	Existing 8-inch water main	Existing 8-inch water main	8	200	$85,000
Total Estimated Phase IIIA Cost:						**$6,430,000**

Table No. 7-7
Summary of Improvement and Estimated Costs – Phase IIIB

Item No.	Existing Diameter (in)	Length (LF)	Proposed Diameter (in)	Estimated Cost
63	4-inch or smaller	127,800	8-inch	$45,125,000
	6-inch	188,900	8-inch	$66,325,000
	8-inch	112,300	8-inch	$39,225,000
	10-inch	13,900	12-inch	$5,450,000
	12-inch	49,900	12-inch	$19,215,000
	16-inch	1,200	16-inch	$445,000
	18-inch	1,500	16-inch	$575,000
Total Estimated Phase IIIB Cost:				**$176,360,000**

7.4 10-Year Improvement Plan

In addition to the prioritized recommended improvements outlined in Section 7.3, it is beneficial for the Town of Falmouth to have an annual plan for construction of improvements. Based on discussions with the Town, it is recommended that Phase I and II improvements be completed over the first 10-year interval since these improvements will provide the greatest benefit to the system. The three Phase I improvements represent approximately one percent of the total length of the Town's water distribution system, and the 40 Phase II improvements represent approximately five percent of the total length. In total, the estimated cost for all Phase I and II improvements is approximately $49,055,000. To complete all 43 improvements over a 10-year interval, the Town of Falmouth should budget approximately $4,910,000 per year. Table No. 7-8 indicates the total estimated value and total length for Phase I and II improvements, as well as the annual cost and length of improvements over the initial 10-year improvement plan.

Table No. 7-8
10-Year Improvement Plan

Recommended Improvements	Total Estimated Value	Total Length (mi)
Phase I	$6,740,000	3
Phase II	$42,315,000	18
Total	**$49,055,000**	**21**
Annual Improvements over 10-Year Interval	$4,910,000	2.14

Appendix A

TATA & HOWARD

Water Distribution System

Falmouth Water Department
Falmouth, Massachusetts

TATA & HOWARD

Approximate Scale: 1" = 1,500
April 2020

Legend

Water Main Diameter

- 4-inch and smaller
- 6-inch
- 8-inch
- 10-inch
- 12-inch
- 16-inch
- 18-inch
- 20-inch
- 24-inch
- Raw Water
- High Service Area

Emergency Interconnection with Bourne Water District

Long Pond WFF

Crooked Pond WTP

Crooked Pond Well

Technology Park High Service Tank
Capacity: 1.0 MG
Overflow Elevation: 260 feet

Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet

Technology Park Booster Pump Station

Mares Pond Well

Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet

Coonamessett Well

MMR Metering Station & Chemical Feed Facility

Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet

Fresh Pond Well

Emergency Interconnection with Mashpee Water District

Emergency Interconnection with Mashpee Water District

BOURNE

SANDWICH

FALMOUTH

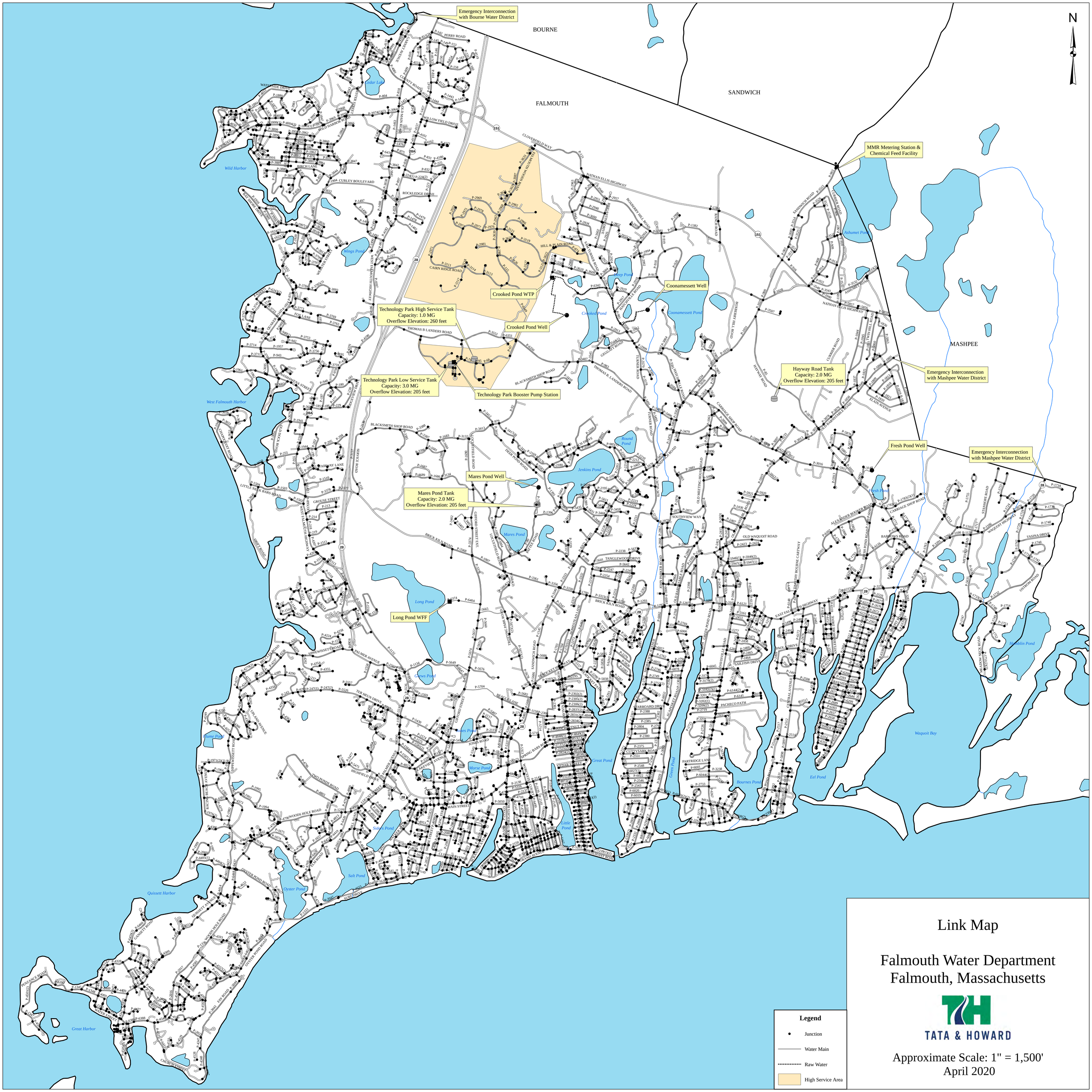
MASHPEE

Cedar Lake
Wild Harbor
Wings Pond
West Falmouth Harbor
Deep Pond
Crooked Pond
Coonamessett Pond
Ashumet Pond
Round Pond
Jenkins Pond
Fresh Pond
Mares Pond
Long Pond
Green Pond
Jones Pond
Flume Pond
Morse Pond
Sides Pond
Salt Pond
Oyster Pond
Quissett Harbor
Great Harbor
Little Pond
Great Pond
Eel Pond
Bournes Pond
Waquoit Bay
Hamblin Pond

PERRY ROAD
COUNTY ROAD
CLOVERFIELD WAY
NATHAN ELLIS HIGHWAY
WILLOW FIELD DRIVE
OLD MAIN ROAD
WILD HARBOR ROAD
WATERSIDE DRIVE
BIRCH LANE
CURLEY BOULEVARD
ROCKLEDGE DRIVE
BAY SHORE DRIVE
WEBSTER STREET
WEST FALMOUTH HIGHWAY
CAIRN RIDGE ROAD
HILL & PLAIN ROAD
SAINT THOMAS ROAD
BONNEBERY HILL ROAD
HATCHVILLE ROAD
GEIGATT ROAD
TURNER ROAD
THOMAS B LANDERS ROAD
BLACKSMITH SHOP ROAD
FOX LANE
QUAKER ROAD
NASHAWENA STREET
RIDGE VIEW DRIVE
SERVICE ROAD
FAIRWAY LANE
LITTLE NECK BARS ROAD
GROUSE STREET
BRIEF ROAD
CHAPOQUOIT ROAD
OLD DOCK ROAD
DEER POND ROAD
HENCHEST BEACH DRIVE
LOCUSTFIELD ROAD
GIFFORD STREET EXT.
BRICK KILN ROAD
WATER ROAD
TANGLEWOOD DRIVE
SOUTHVIEW WAY
OLD MEETING HOUSE ROAD
OLD BARNSTABLE ROAD
CARRIAGE SHOP ROAD
ALEXANDER BOOKER ROAD
FRESH POND ROAD
BARROWS ROAD
OLD WAQUOIT ROAD
WAQUOIT HIGHWAY
STANDISH ROAD
TASINA DRIVE
OSTROM ROAD
EAST FALMOUTH HIGHWAY
SANDWICH ROAD
CURRIER ROAD
ASHUMET ROAD
TWIN HILL ROAD
ELAIN AVENUE
HAYWAY ROAD
SAINT MARKS ROAD
GREEN POND ROAD
DAVISVILLE ROAD
SAILFISH DRIVE
PAOLI DRIVE
SEASIDE DRIVE
BAYSIDE DRIVE
FISHER ROAD
MEADOW NECK ROAD
METOXIT ROAD
SACONNESSET ROAD
SIPPEWISSETT ROAD
PALMER AVENUE
BEGLEY ROAD
TER HEUN DRIVE
UPLAND AVENUE
RACING BEACH AVENUE
HIGHFIELD DRIVE
TWO PONDS ROAD
WOODS HOLE ROAD
OYSTER POND ROAD
QUISSETT AVENUE
GANNETT ROAD
PENZANCE ROAD
WATER STREET
CHURCH STREET
FAY ROAD
JONES ROAD
SPRING BARS ROAD
CHESTNUT STREET
CEDAR STREET
MAIN STREET
OCEAN AVENUE
ELM ROAD
MILL ROAD
PALMER AVE
SURF DRIVE
GRAND AVENUE
MENAUHANT ROAD
CUTTYSARK ROAD
STARBOARD DRIVE
PACHECO PATH
PARTRIDGE LANE
BRIDGE STREET
CENTRAL AVENUE
JOHN PARKER ROAD
OLD BARNSTABLE ROAD
VINE AVENUE
TIMOTHY BOURNE CARTWAY
SANDWICH AVENUE
ACAPESKET ROAD
DONALD PATCH ROAD
SEASIDE SHORE ROAD
SETTLERS MORE DRIVE

Appendix B

TATA & HOWARD


Emergency Interconnection with Bourne Water District
BOURNE
SANDWICH
FALMOUTH
MASHPEE
MMR Metering Station & Chemical Feed Facility
Ashumet Pond
Crooked Pond WTP
Coonamessett Well
Coonamessett Pond
Crooked Pond
Crooked Pond Well
Deep Pond
Technology Park High Service Tank
Capacity: 1.0 MG
Overflow Elevation: 260 feet
Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet
Technology Park Booster Pump Station
Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Emergency Interconnection with Mashpee Water District
Fresh Pond Well
Emergency Interconnection with Mashpee Water District
Mares Pond Well
Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Long Pond WFF
Wild Harbor
West Falmouth Harbor
Quissett Harbor
Great Harbor
Wings Pond
Cedar Lake
Jenkins Pond
Round Pond
Mares Pond
Long Pond
Gaws Pond
Flume Pond
Morse Pond
Sider Pond
Salt Pond
Oyster Pond
Great Pond
Green Pond
Little Pond
Bournes Pond
Eel Pond
Waquoit Bay
Hamblin Pond
Fresh Pond
WATERSIDE DRIVE
BIRCH LANE
CURLEY BOULEVARD
ROCKLEDGE DRIVE
WILD HARBOR ROAD
WILLOW FIELD DRIVE
CLOVERFIELD WAY
NATHAN ELLIS HIGHWAY
BOXBERRY HILL ROAD
HILL & PLAIN ROAD
HATCHVILLE ROAD
SCRUB OAK ROAD
SANDWICH ROAD
CURRIER ROAD
ASHUMET ROAD
NATHAN ELLIS HIGHWAY
OLD TURNPIKE ROAD
HAYWAY ROAD
ELAIN AVENUE
OLD BARNSTABLE ROAD
CARRIAGE SHOP ROAD
ALEXANDER BOOKER ROAD
OLD MEETING HOUSE ROAD
SOUTHVIEW WAY
OLD WAQUOIT ROAD
BARROWS ROAD
STANDPIPE ROAD
WAQUOIT HIGHWAY
TASINA DRIVE
OSTHOM ROAD
MEADOW NECK ROAD
EAST FALMOUTH HIGHWAY
SAILFISH DRIVE
PACHECO PATH
PARTRIDGE LANE
MEETINGHOUSE ROAD
BAYSIDE DRIVE
CENTRAL AVENUE
STARBOARD DRIVE
CUTTYSARK ROAD
CHAPOQUOIT ROAD
LITTLE NECK BARS ROAD
GROUSE STREET
FAIRWAY LANE
BRIEF ROAD
WEST FALMOUTH HIGHWAY
SERVICE ROAD
BLACKSMITH SHOP ROAD
THOMAS B LANDERS ROAD
DEER POND ROAD
LOCUSTFIELD ROAD
GIFFORD STREET EXT.
BRICK KILN ROAD
SAQUATUCKET ROAD
SIPPEWISSETT ROAD
PALMER AVENUE
TER HEUN DRIVE
UPLAND AVENUE
GIFFORD STREET
JONES ROAD
SPRING BARS ROAD
HIGHFIELD DRIVE
TWO PONDS ROAD
WOODS HOLE ROAD
MAIN STREET
PALMER AVENUE
LAKEVIEW AVENUE
BAGNELL BEACH AVENUE
OYSTER POND ROAD
QUISSETT AVENUE
GANSETT ROAD
PENZANCE ROAD
WATER STREET
CHURCH STREET
FAY ROAD
SUBURBAN DRIVE
TANGLEWOOD DRIVE
SAINT MARKS ROAD
GREEN POND ROAD
OLD DARLING FIELD ROAD
OLD MEETING HOUSE ROAD
TURNER ROAD
GELOAT ROAD
HIGHLAND AVENUE
CLIFFWOOD BEACH
SEA VIEW AVENUE
OLD SILVER BEACH
OLD DOCK ROAD
OLD MAIN ROAD
OLD BARNSTABLE ROAD
OLD SANDWICH ROAD
OLD COACH ROAD
OLD STAGE ROAD
OLD MAIN ROAD
OLD DOCK ROAD
OLD MEETING HOUSE ROAD
OLD WAQUOIT

Pipe Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-11	8	PVC	1990	100	29	0	Gravel/Sand	None	12
P-20	8	DI	1992	100	8	0	Gravel/Sand	None	12
P-35	8	DI	1992	100	511	0	Gravel/Sand	None	12
P-59	16	DICL	1986	130	346	0	Gravel/Sand	None	6
P-66	12	DI	1992	130	433	0	Gravel/Sand	None	5
P-67	16	DI	1992	130	1,794	0	Gravel/Sand	None	4
P-69	12	DI	1992	130	629	0	Gravel/Sand	None	5
P-76	12	DI	1991	130	570	0	Gravel/Sand	None	5
P-79	12	DICL	2002	130	8	0	Gravel/Sand	None	4
P-80	12	DI	1992	130	1,743	0	Gravel/Sand	None	5
P-82(1)	20	CICL	1965	80	277	0	Gravel/Sand	None	15
P-82(2)	20	CICL	1965	80	365	0	Gravel/Sand	None	15
P-85	12	PVC	1986	100	3,987	0	Gravel/Sand	None	7
P-87	12	DI	2002	100	593	0	Gravel/Sand	None	4
P-88	16	DI	2002	130	2,009	0	Gravel/Sand	None	3
P-92	12	PVC	1985	130	3,770	0	Gravel/Sand	None	7
P-95	12	DICL	1991	130	351	0	Gravel/Sand	None	5
P-96	12	DICL	2002	130	40	0	Gravel/Sand	None	4
P-97	12	DICL	2002	130	233	0	Gravel/Sand	None	4
P-105	12	DI	1986	130	108	0	Gravel/Sand	None	7
P-106	12	DICL	1986	130	140	0	Gravel/Sand	None	7
P-107	12	DICL	1986	130	47	0	Gravel/Sand	None	7
P-108	12	DICL	2002	130	375	0	Gravel/Sand	None	4
P-110	12	DICL	1984	120	512	0	Gravel/Sand	None	7
P-115	12	DI	1995	110	1,527	0	Gravel/Sand	None	5
P-117	8	DI	1999	100	1,423	0	Gravel/Sand	None	12
P-120	8	DI	1999	100	424	0	Gravel/Sand	None	12
P-121	8	DI	1999	100	3,082	0	Gravel/Sand	None	12

Pipe Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-123	12	DI	1991	130	176	0	Gravel/Sand	None	5
P-142	8	DICL	1994	100	1,864	1	Gravel/Sand	None	15
P-143	8	PVC	1985	100	360	0	Gravel/Sand	None	14
P-145	8	DICL	1989	100	452	0	Gravel/Sand	None	14
P-146	8	DICL	1989	100	969	0	Gravel/Sand	None	14
P-147	8	PVC	1985	100	308	0	Gravel/Sand	None	14
P-149	8	DI	1989	100	452	0	Gravel/Sand	None	14
P-150	8	DICL	1989	100	938	0	Gravel/Sand	None	14
P-151	8	PVC	1985	100	285	0	Gravel/Sand	None	14
P-153	8	PVC	1985	100	429	0	Gravel/Sand	None	14
P-154	8	PVC	1985	100	1,041	0	Gravel/Sand	None	14
P-158	8	PVC	1985	100	1,076	0	Gravel/Sand	None	14
P-159	8	PVC	1985	100	300	0	Gravel/Sand	None	14
P-160	8	PVC	1985	100	376	0	Gravel/Sand	None	14
P-161	6	PVC	1985	100	127	0	Gravel/Sand	None	19
P-162	6	PVC	1985	100	208	0	Gravel/Sand	None	19
P-163	6	PVC	1985	100	205	0	Gravel/Sand	None	19
P-164	8	ACBIT	1981	110	234	0	Gravel/Sand	None	27
P-165	8	ACBIT	1981	110	326	0	Gravel/Sand	None	27
P-166	8	ACBIT	1981	110	418	0	Gravel/Sand	None	27
P-169	8	Asbestos Cement	1976	110	1,580	0	Gravel/Sand	None	29
P-170	8	Asbestos Cement	1979	100	603	0	Gravel/Sand	None	29
P-172	8	Asbestos Cement	1979	100	229	0	Gravel/Sand	Other	29
P-173	8	Asbestos Cement	1979	100	468	0	Gravel/Sand	Other	29
P-174	8	Asbestos Cement	1979	100	195	0	Gravel/Sand	Other	29
P-175	6	Asbestos Cement	1979	100	197	0	Gravel/Sand	Other	34
P-177	8	Asbestos Cement	1971	110	1,352	0	Gravel/Sand	None	29
P-180	8	Asbestos Cement	1971	100	763	0	Gravel/Sand	None	29

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-181	6	Asbestos Cement	1971	100	412	0	Gravel/Sand	None	34
P-183	8	Asbestos Cement	1965	110	247	0	Gravel/Sand	None	34
P-184	6	Asbestos Cement	1977	100	510	0	Gravel/Sand	None	34
P-185	8	Asbestos Cement	1971	110	499	0	Gravel/Sand	None	29
P-186	8	Asbestos Cement	1971	110	413	0	Gravel/Sand	None	29
P-187	6	Asbestos Cement	1965	100	1,189	0	Gravel/Sand	None	39
P-189	16	DI	2006	130	210	0	Gravel/Sand	None	3
P-191	16	DICL	2006	130	222	0	Gravel/Sand	None	3
P-192	16	DI	2006	130	219	0	Gravel/Sand	None	3
P-196	8	Asbestos Cement	1965	100	519	0	Gravel/Sand	None	34
P-197	6	Asbestos Cement	1970	100	363	0	Gravel/Sand	None	34
P-202	8	PVC	1992	100	781	0	Gravel/Sand	None	12
P-203(1)(1)	8	DI	2006	100	238	0	Gravel/Sand	None	11
P-203(1)(2)	8	AC	1973	100	280	0	Gravel/Sand	None	29
P-203(2)	8	PVC	1983	100	348	0	Gravel/Sand	None	14
P-204	6	PVC	1983	100	685	0	Gravel/Sand	None	19
P-205	8	DI	2006	100	618	0	Gravel/Sand	None	11
P-206	8	Asbestos Cement	1961	100	680	0	Gravel/Sand	None	34
P-209	2	WICL	1965	100	165	0	Gravel/Sand	None	53
P-210	6	Asbestos Cement	1961	100	157	0	Gravel/Sand	None	39
P-211	8	Asbestos Cement	1960	100	574	0	Gravel/Sand	None	34
P-212(1)	8	Asbestos Cement	1970	100	1,206	0	Gravel/Sand	None	29
P-212(2)	8	DICL	1996	110	229	0	Gravel/Sand	None	12
P-213	8	Asbestos Cement	1964	100	941	0	Gravel/Sand	None	34
P-214	8	PVC	1988	100	1,195	0	Gravel/Sand	None	14
P-215	8	PVC	1988	100	319	0	Gravel/Sand	None	14
P-216	8	PVC	1988	100	367	0	Gravel/Sand	None	14
P-218	12	Asbestos Cement	1965	120	788	1	Gravel/Sand	None	30

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-219	6	Asbestos Cement	1967	100	992	0	Gravel/Sand	None	39
P-220	6	Asbestos Cement	1967	100	390	0	Gravel/Sand	None	39
P-221	6	Asbestos Cement	1967	100	413	0	Gravel/Sand	None	39
P-222	8	Asbestos Cement	1981	110	538	2	Gravel/Sand	None	31
P-223	8	Asbestos Cement	1976	110	704	0	Gravel/Sand	None	29
P-224(1)	8	PVC	1992	100	705	0	Gravel/Sand	None	12
P-224(2)	8	Asbestos Cement	1976	100	897	0	Gravel/Sand	Other	29
P-225	8	ACBIT	1981	100	765	2	Gravel/Sand	None	31
P-227	8	Asbestos Cement	1979	100	1,180	0	Gravel/Sand	Other	29
P-228	8	Asbestos Cement	1979	100	1,096	0	Gravel/Sand	Other	29
P-229	8	Asbestos Cement	1971	100	673	0	Gravel/Sand	None	29
P-230	8	Asbestos Cement	1971	100	1,414	0	Gravel/Sand	None	29
P-231	8	PVC	1985	100	501	0	Gravel/Sand	None	14
P-232	8	PVC	1985	100	416	0	Gravel/Sand	None	14
P-235	6	Asbestos Cement	1974	100	691	0	Gravel/Sand	None	34
P-237	8	Asbestos Cement	1974	70	454	0	Gravel/Sand	None	29
P-238	6	ACBIT	1981	100	254	0	Gravel/Sand	None	32
P-239	6	ACBIT	1981	100	225	0	Gravel/Sand	None	32
P-240	8	ACBIT	1981	70	668	0	Gravel/Sand	None	27
P-243	8	PVC	1985	100	615	0	Gravel/Sand	None	14
P-244	8	PVC	1985	100	312	0	Gravel/Sand	None	14
P-245	8	PVC	1985	100	499	0	Gravel/Sand	None	14
P-247(1)	8	ACBIT	1981	100	795	0	Gravel/Sand	None	27
P-247(2)	8	PVC	1989	100	586	0	Gravel/Sand	None	14
P-255	10	Asbestos Cement	1954	115	1,059	0	Gravel/Sand	None	40
P-800	8	CI	1913	40	1,110	0	Gravel/Sand	None	49
P-801	12	Asbestos Cement	1954	120	452	0	Gravel/Sand	None	40
P-803	12	Asbestos Cement	1954	120	729	1	Gravel/Sand	None	42

Pipe Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-804	6	Asbestos Cement	1949	100	2,290	1	Gravel/Sand	None	55
P-806(1)	8	CI	1912	70	336	1	Gravel/Sand	None	51
P-806(2)	8	CI	1912	70	232	1	r corrosive soil (wetlands or	None	56
P-807(1)	12	Asbestos Cement	1954	120	429	0	r corrosive soil (wetlands or	None	44
P-807(2)	12	Asbestos Cement	1954	120	640	0	Gravel/Sand	None	40
P-809	6	CI	1912	70	936	0	Gravel/Sand	None	54
P-810	6	CI	1912	70	643	0	Gravel/Sand	None	54
P-811	8	PVC	1985	100	1,174	0	Gravel/Sand	None	14
P-813	12	PVC	1985	130	1,151	0	Gravel/Sand	None	7
P-814	12	PVC	1985	130	829	0	Gravel/Sand	None	7
P-818	10	CI	1912	70	603	0	Gravel/Sand	None	43
P-830	10	PVC	1988	110	623	0	Gravel/Sand	None	7
P-831	6	Asbestos Cement	1971	100	1,247	0	Gravel/Sand	None	34
P-832	8	ACBIT	1981	110	1,336	1	Gravel/Sand	None	29
P-833	10	PVC	1988	110	504	0	Gravel/Sand	None	7
P-835	10	Asbestos Cement	1954	115	961	0	Gravel/Sand	None	40
P-836	10	Asbestos Cement	1970	115	404	0	Gravel/Sand	None	23
P-838	12	Asbestos Cement	1954	120	382	0	Gravel/Sand	None	40
P-847	8	CI	1927	60	344	0	Gravel/Sand	None	48
P-852	10	Asbestos Cement	1970	110	155	0	Gravel/Sand	None	23
P-853	8	Asbestos Cement	1971	110	338	0	Gravel/Sand	None	29
P-855	10	Asbestos Cement	1970	110	1,738	0	Gravel/Sand	None	23
P-856	8	Asbestos Cement	1971	110	2,552	0	Gravel/Sand	None	29
P-857	8	Asbestos Cement	1971	110	1,510	0	Gravel/Sand	None	29
P-858	10	Asbestos Cement	1981	110	295	0	Gravel/Sand	None	20
P-859	12	DICL	2006	120	557	0	Gravel/Sand	None	4
P-861	12	DICL	2006	120	478	0	Gravel/Sand	None	4
P-862	12	DI	2006	120	783	0	Gravel/Sand	None	4

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-869	12	Asbestos Cement	1954	120	268	0	/ corrosive soil (wetlands or	None	44
P-870	16	Asbestos Cement	1976	125	514	1	Gravel/Sand	None	24
P-874	12	PVC	1989	130	1,190	0	Gravel/Sand	None	7
P-875	6	CIBIT	1936	60	886	0	Gravel/Sand	None	44
P-876	10	Asbestos Cement	1954	115	668	0	Gravel/Sand	None	40
P-895(1)(1)	10	CICL	1944	80	1,188	0	Gravel/Sand	None	32
P-895(1)(2)	10	CICL	1944	80	789	1	Gravel/Sand	None	34
P-895(2)	10	CICL	1944	80	698	0	Gravel/Sand	None	32
P-896	10	PVC	1988	110	280	0	Gravel/Sand	None	7
P-897	10	PVC	1988	110	793	0	Gravel/Sand	None	7
P-900	12	PVC	1987	120	2,173	0	Gravel/Sand	None	7
P-901	12	PVC	1986	120	717	0	Gravel/Sand	None	7
P-903	12	PVC	1986	120	974	0	Gravel/Sand	None	7
P-906	8	PVC	1986	100	2,388	0	Gravel/Sand	None	14
P-907	12	PVC	1986	120	2,496	0	Gravel/Sand	None	7
P-908	8	PVC	1986	100	1,999	0	Gravel/Sand	Dirty Water	14
P-909	12	PVC	1986	130	1,113	0	Gravel/Sand	Dirty Water	7
P-910	8	PVC	1986	100	1,486	0	Gravel/Sand	Dirty Water	14
P-913	8	PVC	1986	100	487	0	Gravel/Sand	Dirty Water	14
P-914	12	PVC	1986	130	782	0	Gravel/Sand	Dirty Water	7
P-915	12	PVC	1986	130	439	0	Gravel/Sand	Dirty Water	7
P-916	16	DI	1987	120	1,817	0	Gravel/Sand	None	6
P-917	8	PVC	1982	100	861	0	Gravel/Sand	None	14
P-918	8	PVC	1983	100	1,414	0	Gravel/Sand	None	14
P-919	8	PVC	1983	100	932	0	Gravel/Sand	None	14
P-920	8	PVC	1983	100	3,635	0	Gravel/Sand	None	14
P-921	12	PVC	1988	130	739	0	Gravel/Sand	None	7
P-922	8	PVC	1986	100	1,922	0	Gravel/Sand	Dirty Water	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-934	8	CI	1926	70	122	3	Gravel/Sand	None	53
P-936	16	Asbestos Cement	1954	125	811	0	Gravel/Sand	None	39
P-940(1)	8	PVC	1982	100	658	0	Gravel/Sand	None	14
P-940(2)	8	Asbestos Cement	1972	100	656	0	/ corrosive soil (wetlands or	None	34
P-941	6	Asbestos Cement	1979	100	268	0	Gravel/Sand	None	34
P-942	8	Asbestos Cement	1979	100	1,214	0	Gravel/Sand	None	29
P-943	12	Asbestos Cement	1977	130	1,700	0	Gravel/Sand	None	22
P-944	8	Asbestos Cement	1977	100	250	0	Gravel/Sand	None	29
P-947	10	CICL	1948	70	599	0	Gravel/Sand	None	32
P-948	16	DI	2006	130	956	0	Gravel/Sand	None	3
P-953	12	Asbestos Cement	1954	120	214	0	Gravel/Sand	None	40
P-955	12	Asbestos Cement	1954	120	1,159	0	Gravel/Sand	None	40
P-962	12	Asbestos Cement	1965	120	302	1	Gravel/Sand	None	30
P-965	10	Asbestos Cement	1954	115	79	0	Gravel/Sand	None	40
P-970	16	DI	2006	130	932	0	Gravel/Sand	None	3
P-972	12	Asbestos Cement	1961	130	1,603	0	Gravel/Sand	None	27
P-973	16	DI	1986	130	894	0	Gravel/Sand	None	6
P-978	12	PVC	1985	130	1,270	0	Gravel/Sand	None	7
P-979	12	PVC	1985	130	318	0	Gravel/Sand	None	7
P-981	16	DICL	1987	130	641	0	Gravel/Sand	None	6
P-983	16	DI	1988	130	3,179	0	Gravel/Sand	None	6
P-985(1)	12	Asbestos Cement	1978	130	251	0	/ corrosive soil (wetlands or	None	27
P-985(2)	12	Asbestos Cement	1978	130	506	0	Gravel/Sand	None	22
P-989	12	Asbestos Cement	1977	130	586	0	Gravel/Sand	None	22
P-994	20	CICL	1965	80	1,736	0	Gravel/Sand	None	15
P-996	20	CICL	1965	80	458	0	Gravel/Sand	None	15
P-999	12	Asbestos Cement	1972	130	795	0	Gravel/Sand	None	22
P-1000	12	Asbestos Cement	1973	130	231	0	Gravel/Sand	None	22

Pipe Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1001	12	Asbestos Cement	1973	80	429	0	Gravel/Sand	None	22
P-1003	12	PVC	1984	130	520	0	Gravel/Sand	None	7
P-1004	12	PVC	1984	130	1,218	0	Gravel/Sand	None	7
P-1005	12	PVC	1984	130	503	0	Gravel/Sand	None	7
P-1006	12	PVC	1984	130	1,511	0	Gravel/Sand	None	7
P-1007	20	CICL	1959	80	1,689	0	Gravel/Sand	None	15
P-1010	12	Asbestos Cement	1954	120	1,675	0	Gravel/Sand	None	40
P-1024	16	Asbestos Cement	1954	125	1,001	1	Gravel/Sand	None	41
P-1028	8	PVC	1987	100	2,413	0	Gravel/Sand	None	14
P-1029	12	PVC	1987	130	505	0	Gravel/Sand	None	7
P-1030	12	Asbestos Cement	1975	130	379	0	Gravel/Sand	None	22
P-1031	12	Asbestos Cement	1975	130	2,031	0	Gravel/Sand	None	22
P-1032	16	Asbestos Cement	1965	125	897	0	Gravel/Sand	None	26
P-1033	16	Asbestos Cement	1965	125	462	0	Gravel/Sand	None	26
P-1034	16	Asbestos Cement	1965	125	1,580	0	Gravel/Sand	None	26
P-1040	16	DI	1987	120	1,778	0	Gravel/Sand	None	6
P-1042	16	DICL	1988	120	458	0	Gravel/Sand	None	6
P-1043	12	PVC	1984	100	374	0	Gravel/Sand	None	7
P-1044	8	PVC	1984	100	2,921	0	Gravel/Sand	None	14
P-1045	12	PVC	1984	100	3,024	0	Gravel/Sand	None	7
P-1049	12	PVC	1985	100	497	0	Gravel/Sand	None	7
P-1050	12	PVC	1983	100	1,089	0	Gravel/Sand	None	7
P-1053	12	Asbestos Cement	1968	125	1,410	0	Gravel/Sand	None	27
P-1055	12	ACBIT	1981	130	604	0	Gravel/Sand	None	20
P-1056	8	Asbestos Cement	1952	110	574	0	Gravel/Sand	None	47
P-1060	20	Asbestos Cement	1965	100	234	0	Gravel/Sand	None	25
P-1063	12	Asbestos Cement	1970	140	532	0	Gravel/Sand	None	22
P-1064	12	Asbestos Cement	1970	140	572	0	Gravel/Sand	None	22

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1065	12	Asbestos Cement	1968	130	580	0	Gravel/Sand	None	27
P-1066	12	Asbestos Cement	1968	130	1,063	0	Gravel/Sand	None	27
P-1071	12	Asbestos Cement	1968	140	417	0	Gravel/Sand	None	27
P-1074	10	PVC	1984	80	280	0	Gravel/Sand	None	7
P-1089	8	Asbestos Cement	1946	110	2,709	0	Gravel/Sand	None	48
P-1090	12	Asbestos Cement	1980	130	1,552	1	Gravel/Sand	None	22
P-1097	12	PVC	1989	130	921	0	Gravel/Sand	None	7
P-1100	12	DI	2006	130	690	0	Gravel/Sand	None	4
P-1101	12	DI	1989	130	568	0	Gravel/Sand	None	7
P-1102	8	DICL	2006	150	147	0	Gravel/Sand	Dirty Water	11
P-1103	6	CI	1923	32	887	0	Gravel/Sand	Dirty Water	53
P-1104	6	CI	1923	32	195	0	Gravel/Sand	None	53
P-1106	12	DI	1989	130	1,399	0	Gravel/Sand	None	7
P-1109	12	PVC	1986	120	601	0	Gravel/Sand	None	7
P-1120	12	DI	1989	130	341	0	Gravel/Sand	None	7
P-1126	8	CI	1914	100	359	0	Gravel/Sand	None	49
P-1128	10	CICL	1945	90	1,084	1	Gravel/Sand	None	34
P-1129	10	CICL	1945	90	1,116	1	Gravel/Sand	None	34
P-1130	10	CICL	1945	90	697	1	Gravel/Sand	None	34
P-1132	12	Asbestos Cement	1954	120	3,525	3	Gravel/Sand	None	45
P-1134	12	CI	1898	75	1,312	0	Gravel/Sand	None	44
P-1138	16	Asbestos Cement	1959	125	943	0	Gravel/Sand	None	26
P-1145	8	CI	1931	50	1,028	0	Gravel/Sand	None	55
P-1150	20	CICL	1959	100	831	0	Gravel/Sand	None	15
P-1157	6	CICL	1941	70	621	0	Gravel/Sand	None	43
P-1158	12	DICL	2001	130	529	0	Gravel/Sand	None	4
P-1176	12	Asbestos Cement	1975	125	1,866	0	Gravel/Sand	None	22
P-1184	24	DICL	2006	130	424	0	Gravel/Sand	None	2

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1189	12	CI	1898	70	252	0	Gravel/Sand	None	44
P-1203	10	CICL	1940	80	649	0	Gravel/Sand	None	32
P-1216	16	Asbestos Cement	1968	125	1,496	0	Gravel/Sand	None	26
P-1218	12	Asbestos Cement	1975	125	207	0	Gravel/Sand	None	22
P-1224(1)	12	Asbestos Cement	1977	125	431	0	Gravel/Sand	None	22
P-1233	12	Asbestos Cement	1969	120	173	0	Gravel/Sand	None	27
P-1239(1)(1)	8	Asbestos Cement	1954	60	379	0	/ corrosive soil (wetlands or	None	51
P-1239(1)(2)	8	Asbestos Cement	1954	60	1,075	0	/ corrosive soil (wetlands or	None	51
P-1239(2)(1)	8	CICL	1945	60	410	0	/ corrosive soil (wetlands or	None	42
P-1239(2)(2)	8	ACBIT	1937	60	318	0	/ corrosive soil (wetlands or	None	54
P-1245(1)	12	Asbestos Cement	1975	125	943	0	Gravel/Sand	None	22
P-1245(2)	12	Asbestos Cement	1975	125	333	0	Identified corrosive soil	None	27
P-1254	12	Asbestos Cement	1975	125	1,012	0	Gravel/Sand	None	22
P-1258	8	PVC	2006	110	281	0	Gravel/Sand	None	11
P-1261	8	Asbestos Cement	1945	80	371	0	Gravel/Sand	None	48
P-1271	12	Asbestos Cement	1962	125	324	0	Gravel/Sand	None	27
P-1274	8	Asbestos Cement	1976	120	585	1	Gravel/Sand	None	32
P-1275	8	Asbestos Cement	1976	120	670	0	Gravel/Sand	None	29
P-1277	8	Asbestos Cement	1979	100	608	0	Gravel/Sand	None	29
P-1281	10	Asbestos Cement	1972	125	449	0	Gravel/Sand	None	23
P-1287	20	CICL	1959	100	531	0	Gravel/Sand	None	15
P-1292	20	CICL	1959	100	747	0	Gravel/Sand	None	15
P-1293	20	CICL	1959	100	627	0	Gravel/Sand	None	15
P-1294	20	CICL	1959	100	307	0	Gravel/Sand	None	15
P-1299	6	Asbestos Cement	1969	90	1,262	0	Gravel/Sand	None	39
P-1302	12	Asbestos Cement	1962	125	2,779	0	Gravel/Sand	None	27
P-1313	12	Asbestos Cement	1954	120	620	1	Gravel/Sand	None	42
P-1330	12	Asbestos Cement	1974	100	545	0	Gravel/Sand	None	22

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1333	8	CICL	1945	70	2,083	0	Identified corrosive soil	None	43
P-1334	8	CI	1933	100	323	0	Gravel/Sand	None	55
P-1336	12	CI	1914	70	1,010	0	Gravel/Sand	None	42
P-1345	12	Asbestos Cement	1963	125	476	0	Gravel/Sand	None	27
P-1347	8	Asbestos Cement	1963	120	537	0	Gravel/Sand	None	34
P-1348	8	Asbestos Cement	1981	120	870	0	Gravel/Sand	None	27
P-1353	8	CI	1899	60	287	0	Gravel/Sand	None	51
P-1372(1)	8	CI	1923	80	654	0	Gravel/Sand	None	48
P-1372(2)	10	CICL	1940	80	277	0	Gravel/Sand	None	32
P-1376	16	Asbestos Cement	1965	125	551	0	Gravel/Sand	None	26
P-1381	12	DICL	1997	130	593	0	Gravel/Sand	None	5
P-1382	12	DI	1997	130	2,361	0	Gravel/Sand	None	5
P-1383(1)(1)	12	DI	1997	130	636	0	Gravel/Sand	None	5
P-1383(1)(2)	12	DI	1997	130	414	0	Gravel/Sand	None	5
P-1383(2)	12	DI	1997	130	511	0	Gravel/Sand	None	5
P-1384	16	DICL	1997	130	428	0	Gravel/Sand	None	4
P-1387	16	DI	1986	130	2,069	0	Gravel/Sand	None	6
P-1392	8	ACBIT	1980	100	380	0	Gravel/Sand	None	27
P-1394(1)(1)	12	PVC	1990	130	743	0	Gravel/Sand	None	5
P-1394(1)(2)	12	DICL	1997	130	710	0	Gravel/Sand	None	5
P-1394(2)	12	PVC	1990	130	500	0	Gravel/Sand	None	5
P-1395	8	PVC	1993	100	1,961	0	Gravel/Sand	None	12
P-1396	12	DICL	2002	130	1,360	0	Gravel/Sand	None	4
P-1416	16	DI	1988	130	1,351	0	Gravel/Sand	None	6
P-1435	8	Asbestos Cement	1975	100	263	0	Gravel/Sand	None	29
P-1442	8	DI	1997	100	650	0	Gravel/Sand	None	12
P-1443	8	DI	1997	100	722	0	Gravel/Sand	None	12
P-1444	16	DI	1988	130	938	0	Gravel/Sand	None	6

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1446	8	DI	1997	100	452	0	Gravel/Sand	None	12
P-1448	10	PVC	1988	110	1,005	0	Gravel/Sand	None	7
P-1449(1)	6	Asbestos Cement	1983	100	321	0	Gravel/Sand	None	32
P-1449(2)	6	Asbestos Cement	1966	100	324	0	Gravel/Sand	None	39
P-1450	6	Asbestos Cement	1970	100	726	0	Gravel/Sand	None	34
P-1451	10	CI	1912	70	246	0	Gravel/Sand	None	43
P-1452	10	CI	1912	70	398	0	Gravel/Sand	None	43
P-1453	6	CICL	1941	100	546	0	Gravel/Sand	None	43
P-1454	10	PVC	1988	110	126	0	Gravel/Sand	None	7
P-1456(1)	6	Asbestos Cement	1953	100	725	0	Gravel/Sand	None	52
P-1456(2)	2	WICL	1956	100	257	0	Gravel/Sand	None	66
P-1457	10	PVC	1988	110	854	0	Gravel/Sand	None	7
P-1459	8	PVC	1989	100	261	0	Gravel/Sand	None	14
P-1460	8	PVC	1989	100	287	0	Gravel/Sand	None	14
P-1461	8	PVC	1989	100	1,487	0	Gravel/Sand	None	14
P-1463	10	CI	1912	70	1,353	0	Gravel/Sand	None	43
P-1465	6	Asbestos Cement	1963	100	441	0	Gravel/Sand	None	39
P-1466	6	Asbestos Cement	1965	100	373	0	Gravel/Sand	None	39
P-1467	6	Asbestos Cement	1965	100	372	0	Gravel/Sand	None	39
P-1468	6	Asbestos Cement	1965	100	117	0	Gravel/Sand	None	39
P-1469	6	Asbestos Cement	1966	100	1,148	0	Gravel/Sand	None	39
P-1473	6	Asbestos Cement	1965	100	839	0	Gravel/Sand	None	39
P-1475	10	CI	1912	70	243	0	Gravel/Sand	None	43
P-1476	6	Asbestos Cement	1964	100	737	0	Gravel/Sand	None	39
P-1477	8	Asbestos Cement	1974	100	308	0	Gravel/Sand	None	29
P-1478	8	Asbestos Cement	1974	100	1,115	0	Gravel/Sand	None	29
P-1479	6	Asbestos Cement	1974	100	1,374	0	Gravel/Sand	None	34
P-1480	12	DICL	2006	120	158	0	Gravel/Sand	None	4

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1482	8	PVC	1988	100	1,241	0	Gravel/Sand	None	14
P-1485	8	Asbestos Cement	1976	100	382	0	Gravel/Sand	None	29
P-1488	8	Asbestos Cement	1974	100	827	0	Gravel/Sand	None	29
P-1489	8	Asbestos Cement	1965	100	387	0	Gravel/Sand	None	34
P-1490	8	DICL	1999	100	664	0	Gravel/Sand	None	12
P-1491	8	Asbestos Cement	1965	100	518	0	Gravel/Sand	None	34
P-1492	8	Asbestos Cement	1978	100	677	0	Gravel/Sand	None	29
P-1493	8	Asbestos Cement	1963	100	359	0	Gravel/Sand	None	34
P-1494	8	DICL	2001	100	649	0	Gravel/Sand	None	11
P-1495	8	Asbestos Cement	1963	100	401	0	Gravel/Sand	None	34
P-1496	8	Asbestos Cement	1963	100	839	0	Gravel/Sand	None	34
P-1497	6	Asbestos Cement	1968	100	1,575	0	Gravel/Sand	None	39
P-1498	8	PVC	1987	100	791	0	Gravel/Sand	None	14
P-1500	12	Asbestos Cement	1965	120	489	0	Gravel/Sand	None	27
P-1501	12	Asbestos Cement	1965	120	377	0	Gravel/Sand	None	27
P-1502	8	DICL	2000	100	627	0	Gravel/Sand	None	11
P-1503	8	Asbestos Cement	1958	100	2,408	0	/ corrosive soil (wetlands or	None	51
P-1504	8	Asbestos Cement	1966	100	378	0	Identified corrosive soil	None	39
P-1506	16	DICL	2006	125	39	0	Gravel/Sand	None	3
P-1507	16	Asbestos Cement	1954	125	1,280	0	Gravel/Sand	None	39
P-1508	12	Asbestos Cement	1954	120	590	0	Gravel/Sand	None	40
P-1509	12	Asbestos Cement	1954	120	446	0	Gravel/Sand	None	40
P-1510	8	PVC	1993	100	1,326	1	Gravel/Sand	None	15
P-1511	6	Asbestos Cement	1958	100	793	0	Gravel/Sand	None	52
P-1512	6	Asbestos Cement	1965	100	1,012	0	Gravel/Sand	None	39
P-1513	12	Asbestos Cement	1954	120	1,447	0	Gravel/Sand	None	40
P-1515	6	Asbestos Cement	1967	100	363	0	Gravel/Sand	None	39
P-1516	6	CICL	1948	100	510	0	Gravel/Sand	None	43

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1517	6	Asbestos Cement	1964	100	474	0	Gravel/Sand	None	39
P-1518	6	Asbestos Cement	1964	100	587	0	Gravel/Sand	None	39
P-1520	6	CICL	1948	100	342	0	Gravel/Sand	None	43
P-1521	6	CICL	1948	100	410	0	Gravel/Sand	None	43
P-1522	6	Asbestos Cement	1964	100	935	0	Gravel/Sand	None	39
P-1523	6	Asbestos Cement	1964	100	496	0	Gravel/Sand	None	39
P-1525	6	CICL	1948	100	646	0	Gravel/Sand	None	43
P-1526	6	CICL	1948	100	170	0	Gravel/Sand	None	43
P-1527	6	CICL	1948	100	469	0	Gravel/Sand	None	43
P-1528	6	Asbestos Cement	1966	100	495	0	Gravel/Sand	None	39
P-1529	6	Asbestos Cement	1960	100	805	0	Gravel/Sand	None	39
P-1530	6	Asbestos Cement	1967	100	247	0	Gravel/Sand	None	39
P-1531	6	Asbestos Cement	1958	100	591	0	Gravel/Sand	None	52
P-1532	6	Asbestos Cement	1977	100	411	0	Gravel/Sand	None	34
P-1533	6	Asbestos Cement	1967	100	631	0	Gravel/Sand	None	39
P-1534	6	Asbestos Cement	1967	100	369	0	Gravel/Sand	None	39
P-1537	2	STCLPC	1960	100	233	0	Gravel/Sand	None	51
P-1538	6	Asbestos Cement	1977	100	303	0	Gravel/Sand	None	34
P-1539	6	Asbestos Cement	1963	100	208	0	Gravel/Sand	None	39
P-1540	6	Asbestos Cement	1963	100	740	0	Gravel/Sand	None	39
P-1541	2	GS	1934	100	652	0	Gravel/Sand	None	66
P-1542	6	CICL	1948	100	258	0	Gravel/Sand	None	43
P-1543	8	DICL	2000	100	408	0	Gravel/Sand	None	11
P-1544(1)	10	CICL	1944	90	236	1	Gravel/Sand	None	34
P-1544(2)	10	CICL	1945	90	1,300	1	Gravel/Sand	None	34
P-1545	10	CICL	1945	90	753	1	Gravel/Sand	None	34
P-1547	8	DICL	1998	100	612	0	Gravel/Sand	None	12
P-1548	8	PVC	1988	100	1,363	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1549	8	Asbestos Cement	1966	100	151	0	Gravel/Sand	None	34
P-1550	6	Asbestos Cement	1973	100	2,031	0	Gravel/Sand	None	34
P-1551	6	Asbestos Cement	1973	100	874	0	Gravel/Sand	None	34
P-1553	8	CI	1914	70	464	0	Gravel/Sand	None	49
P-1554	8	Asbestos Cement	1970	100	347	0	Gravel/Sand	None	29
P-1557	8	Asbestos Cement	1970	100	806	0	Gravel/Sand	None	29
P-1558	8	Asbestos Cement	1977	100	1,719	0	Gravel/Sand	Other	29
P-1559	8	Asbestos Cement	1973	100	353	0	Gravel/Sand	None	29
P-1560	6	PVC	1985	100	483	0	Gravel/Sand	None	19
P-1562	10	CICL	1945	90	653	1	Gravel/Sand	None	34
P-1563	10	CICL	1945	90	428	1	Gravel/Sand	None	34
P-1566(1)	12	CI	1898	80	461	0	Gravel/Sand	None	44
P-1566(2)	24	DICL	2006	130	39	0	Gravel/Sand	None	2
P-1568	6	Asbestos Cement	1960	100	461	0	Gravel/Sand	None	39
P-1569	6	Asbestos Cement	1960	100	641	0	Gravel/Sand	None	39
P-1570	6	Asbestos Cement	1966	100	359	0	Gravel/Sand	None	39
P-1572	12	CI	1898	70	387	0	Gravel/Sand	None	44
P-1573	8	Asbestos Cement	1971	100	557	0	Gravel/Sand	None	29
P-1574	6	Asbestos Cement	1971	100	927	0	Gravel/Sand	None	34
P-1575	6	Asbestos Cement	1971	100	1,104	0	Gravel/Sand	None	34
P-1577	8	Asbestos Cement	1951	110	606	0	Gravel/Sand	None	47
P-1580	12	CI	1898	70	235	0	Gravel/Sand	None	44
P-1581(1)	6	CICL	1948	100	486	0	Gravel/Sand	None	43
P-1581(2)	6	Asbestos Cement	1964	100	993	0	Gravel/Sand	None	39
P-1583	12	CI	1898	70	342	0	Gravel/Sand	None	44
P-1584(1)	6	CICL	1948	100	821	0	Gravel/Sand	None	43
P-1584(2)	6	Asbestos Cement	1962	100	343	0	Gravel/Sand	None	39
P-1585	12	CI	1898	70	522	0	Gravel/Sand	None	44

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1586	12	CI	1898	70	429	0	Gravel/Sand	None	44
P-1587(1)	6	ACBIT	1939	100	725	0	Gravel/Sand	None	54
P-1587(2)	6	CI	1930	100	196	0	Gravel/Sand	None	60
P-1590	4	CI	1930	100	210	0	Gravel/Sand	None	65
P-1591	8	Asbestos Cement	1951	110	244	0	Gravel/Sand	None	47
P-1593	8	Asbestos Cement	1952	100	315	0	Gravel/Sand	None	47
P-1594	8	DICL	1998	100	555	0	Gravel/Sand	None	12
P-1596	8	Asbestos Cement	1951	110	899	0	Gravel/Sand	None	47
P-1597	8	Asbestos Cement	1951	110	184	0	Gravel/Sand	None	47
P-1611	6	CIBIT	1935	100	179	0	Gravel/Sand	None	44
P-1612(2)	8	CI	1899	60	1,046	0	Gravel/Sand	None	51
P-1615	8	CI	1899	60	260	0	Gravel/Sand	None	51
P-1617	6	Asbestos Cement	1949	100	306	0	Gravel/Sand	None	53
P-1618	8	CI	1899	60	257	0	Gravel/Sand	None	51
P-1621(1)	6	CIBIT	1935	100	476	0	Gravel/Sand	None	44
P-1621(2)	6	Asbestos Cement	1978	100	585	0	Gravel/Sand	None	34
P-1626	6	Asbestos Cement	1949	100	373	1	Gravel/Sand	None	55
P-1628	8	CI	1899	60	242	0	Gravel/Sand	None	51
P-1629	6	Asbestos Cement	1949	100	372	0	Gravel/Sand	None	53
P-1632	8	Asbestos Cement	1954	100	624	0	Gravel/Sand	None	47
P-1633	6	Asbestos Cement	1950	100	608	0	Gravel/Sand	None	52
P-1634	6	CICL	1952	100	514	0	Gravel/Sand	None	42
P-1635	6	CICL	1948	100	299	0	Gravel/Sand	None	43
P-1638	8	CI	1899	60	527	0	Identified corrosive soil	None	56
P-1641	6	Asbestos Cement	1984	100	560	0	Gravel/Sand	None	32
P-1643(1)	6	CICL	1948	100	347	0	Gravel/Sand	None	43
P-1643(2)	6	Asbestos Cement	1951	100	669	0	Gravel/Sand	None	52
P-1644	12	CI	1898	60	190	0	Gravel/Sand	None	44

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1645	12	CI	1898	60	279	0	Gravel/Sand	None	44
P-1648	12	CI	1899	60	662	0	Gravel/Sand	None	44
P-1653	6	CI	1926	100	302	0	Gravel/Sand	None	53
P-1657	6	CI	1926	100	1,882	0	Gravel/Sand	None	53
P-1661	6	Asbestos Cement	1971	100	427	0	Gravel/Sand	None	34
P-1662	6	Asbestos Cement	1971	100	677	0	Gravel/Sand	Other	34
P-1663	6	Asbestos Cement	1971	100	643	0	Gravel/Sand	None	34
P-1666	6	Asbestos Cement	1956	60	587	0	Gravel/Sand	None	52
P-1668	12	CI	1899	60	825	0	Gravel/Sand	None	44
P-1669	8	Asbestos Cement	1965	100	620	0	Gravel/Sand	None	34
P-1671	6	Asbestos Cement	1965	100	1,031	0	Gravel/Sand	None	39
P-1673	8	Asbestos Cement	1978	100	150	0	Gravel/Sand	None	29
P-1674	8	Asbestos Cement	1978	100	1,017	0	Gravel/Sand	None	29
P-1675	8	Asbestos Cement	1979	100	1,014	0	Gravel/Sand	None	29
P-1678	20	Asbestos Cement	1965	80	408	0	Gravel/Sand	None	25
P-1680	8	PVC	1988	100	417	0	Gravel/Sand	None	14
P-1681	8	PVC	1988	100	983	0	Gravel/Sand	None	14
P-1682	12	PVC	1986	130	538	0	Gravel/Sand	None	7
P-1683	12	PVC	1986	130	933	0	Gravel/Sand	None	7
P-1684	8	PVC	1988	100	610	0	Gravel/Sand	None	14
P-1685	8	PVC	1993	100	1,435	0	Gravel/Sand	None	12
P-1686	8	PVC	1994	100	587	0	Gravel/Sand	None	12
P-1687	8	DI	1999	100	1,612	0	Gravel/Sand	None	12
P-1689	8	DI	1999	100	968	0	Gravel/Sand	None	12
P-1690	12	PVC	1985	130	2,286	0	Gravel/Sand	None	7
P-1691	12	PVC	1985	130	895	0	Gravel/Sand	None	7
P-1693	8	PVC	1985	100	208	0	Gravel/Sand	None	14
P-1694	8	PVC	1985	100	665	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1696	8	PVC	1984	100	444	0	Gravel/Sand	None	14
P-1698	8	PVC	1984	100	1,273	0	Gravel/Sand	None	14
P-1700	20	CICL	1959	100	336	0	Gravel/Sand	None	15
P-1701	6	Asbestos Cement	1961	100	3,777	0	Gravel/Sand	None	39
P-1702	8	Asbestos Cement	1970	100	329	0	Gravel/Sand	None	29
P-1703	8	Asbestos Cement	1970	100	1,907	0	Gravel/Sand	None	29
P-1704	6	Asbestos Cement	1970	100	1,636	0	Gravel/Sand	None	34
P-1708	8	PVC	1983	100	363	0	Gravel/Sand	None	14
P-1709	8	PVC	1985	100	465	0	Gravel/Sand	None	14
P-1711	8	DI	2006	150	661	0	Gravel/Sand	Dirty Water	11
P-1713	8	PVC	1986	100	869	0	Gravel/Sand	None	14
P-1716	8	PVC	1986	100	963	0	Gravel/Sand	None	14
P-1717	8	PVC	1987	100	2,697	0	Gravel/Sand	None	14
P-1718	8	PVC	1987	100	585	0	Gravel/Sand	None	14
P-1719	8	PVC	1987	100	458	0	Gravel/Sand	None	14
P-1720	8	PVC	1992	100	534	0	Gravel/Sand	None	12
P-1721	8	PVC	1992	100	602	0	Gravel/Sand	None	12
P-1722	8	PVC	1992	100	345	0	Gravel/Sand	None	12
P-1723	8	PVC	1992	100	412	0	Gravel/Sand	None	12
P-1724	8	Asbestos Cement	1977	100	823	0	Gravel/Sand	Other	29
P-1725	12	DICL	1989	130	185	0	Gravel/Sand	None	7
P-1726	12	DI	1989	130	1,150	0	Gravel/Sand	None	7
P-1727	12	DICL	1989	130	235	0	Gravel/Sand	None	7
P-1728	12	DI	2004	130	875	0	Gravel/Sand	None	4
P-1729	12	DI	2004	130	916	0	Gravel/Sand	None	4
P-1731	12	DICL	2004	130	484	0	Gravel/Sand	None	4
P-1732	12	DI	2004	130	3,659	0	Gravel/Sand	None	4
P-1733(1)	8	PVC	1984	140	303	0	/ corrosive soil (wetlands or	None	18

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1733(2)	8	PVC	1984	140	585	0	Gravel/Sand	None	14
P-1734	8	DI	2001	100	1,016	0	Gravel/Sand	None	11
P-1736	8	Asbestos Cement	1970	100	2,587	0	Gravel/Sand	None	29
P-1737	8	Asbestos Cement	1970	100	474	0	Gravel/Sand	None	29
P-1738	8	Asbestos Cement	1970	100	488	0	Gravel/Sand	None	29
P-1739	8	DICL	2004	100	358	0	Gravel/Sand	None	11
P-1740	8	DI	2005	100	1,167	0	Gravel/Sand	None	11
P-1741	8	DI	2005	100	1,501	0	Gravel/Sand	None	11
P-1742	8	DICL	2005	100	586	0	Gravel/Sand	None	11
P-1743	8	DICL	2004	100	344	0	Gravel/Sand	None	11
P-1744	8	DI	2005	100	1,514	0	Gravel/Sand	None	11
P-1745	8	DI	2005	100	411	0	Gravel/Sand	None	11
P-1746	8	DI	2005	100	1,438	0	Gravel/Sand	None	11
P-1747	8	DI	2006	140	1,521	0	Gravel/Sand	None	11
P-1748	8	PVC	1984	140	667	0	Gravel/Sand	None	14
P-1749	8	PVC	1984	140	571	0	Gravel/Sand	None	14
P-1750	8	PVC	1984	140	441	0	Gravel/Sand	None	14
P-1751(1)	8	PVC	1984	140	505	0	Gravel/Sand	None	14
P-1751(2)(1)	8	DI	2001	140	648	0	Gravel/Sand	None	11
P-1751(2)(2)	8	DI	2001	140	826	0	Gravel/Sand	None	11
P-1752	8	PVC	1984	100	669	0	Gravel/Sand	None	14
P-1753	8	PVC	1984	100	509	0	Gravel/Sand	None	14
P-1754	8	PVC	1984	100	651	0	Gravel/Sand	None	14
P-1756	6	CI	1945	60	466	0	Gravel/Sand	None	59
P-1757	8	PVC	1985	100	192	0	Gravel/Sand	None	14
P-1758	8	PVC	1985	100	368	0	Gravel/Sand	None	14
P-1760	6	PVC	1985	100	440	0	Gravel/Sand	None	19
P-1761	12	DICL	2006	130	238	0	Gravel/Sand	None	4

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1763	8	PVC	1986	100	692	0	Gravel/Sand	None	14
P-1765	12	PVC	1989	130	340	0	Gravel/Sand	None	7
P-1767	8	PVC	1987	100	454	0	Gravel/Sand	None	14
P-1768	8	PVC	1987	100	200	0	Gravel/Sand	None	14
P-1769	8	PVC	1987	100	364	0	Gravel/Sand	None	14
P-1770	8	PVC	1987	100	168	0	Gravel/Sand	None	14
P-1771	8	PVC	1987	100	387	0	Gravel/Sand	None	14
P-1772	8	Asbestos Cement	1971	120	636	0	Gravel/Sand	None	29
P-1773	8	DICL	2005	120	588	0	Gravel/Sand	None	11
P-1774	6	Asbestos Cement	1946	120	225	0	Gravel/Sand	None	53
P-1775	6	Asbestos Cement	1946	120	392	0	Gravel/Sand	None	53
P-1778	8	DICL	2006	100	347	0	Gravel/Sand	None	11
P-1779	12	PVC	1989	130	557	0	Gravel/Sand	None	7
P-1780	6	Asbestos Cement	1967	100	879	0	Gravel/Sand	None	39
P-1781	6	Asbestos Cement	1969	100	811	0	Gravel/Sand	None	39
P-1782	8	PVC	1987	100	442	0	Gravel/Sand	None	14
P-1783(1)	6	Asbestos Cement	1946	120	486	0	Gravel/Sand	None	53
P-1783(2)(1)	6	Asbestos Cement	1946	120	1,172	0	Gravel/Sand	None	53
P-1783(2)(2)	6	Asbestos Cement	1946	120	204	0	Gravel/Sand	None	53
P-1784	6	Asbestos Cement	1972	100	1,212	0	Gravel/Sand	None	34
P-1786	12	Asbestos Cement	1980	130	783	0	Gravel/Sand	None	20
P-1789	8	DICL	2002	100	487	0	Gravel/Sand	None	11
P-1791	8	PVC	1987	100	483	0	Gravel/Sand	None	14
P-1792	8	PVC	1987	100	529	0	Gravel/Sand	None	14
P-1793	8	PVC	1987	100	930	0	Gravel/Sand	None	14
P-1797	8	PVC	1987	100	598	0	Gravel/Sand	None	14
P-1799	8	PVC	1987	100	455	0	Gravel/Sand	None	14
P-1800	8	PVC	1987	100	587	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1801	8	PVC	1987	100	1,219	0	Gravel/Sand	None	14
P-1802	8	PVC	1987	100	569	0	Gravel/Sand	None	14
P-1803	8	PVC	1987	100	513	0	Gravel/Sand	None	14
P-1805	12	PVC	1988	100	537	0	Gravel/Sand	None	7
P-1806	8	DICL	1997	100	342	0	Gravel/Sand	None	12
P-1808	8	DI	2000	100	2,738	0	Gravel/Sand	None	11
P-1809	8	DI	1999	100	1,317	0	Gravel/Sand	None	12
P-1810	8	DI	2003	100	2,172	0	Gravel/Sand	None	11
P-1811	8	DICL	2005	100	346	0	Gravel/Sand	None	11
P-1813	8	DI	2005	100	1,104	0	Gravel/Sand	None	11
P-1814	8	DICL	2005	100	357	0	Gravel/Sand	None	11
P-1815	8	DICL	2005	100	341	0	Gravel/Sand	None	11
P-1816	8	DI	2005	100	381	0	Gravel/Sand	None	11
P-1818	8	DI	2005	100	842	0	Gravel/Sand	None	11
P-1819	8	DI	2005	100	704	0	Gravel/Sand	None	11
P-1820	8	DICL	2005	100	347	0	Gravel/Sand	None	11
P-1821	8	DI	2005	100	899	0	Gravel/Sand	None	11
P-1823	8	DICL	1997	100	344	0	Gravel/Sand	None	12
P-1825	8	PVC	1988	100	1,254	0	Gravel/Sand	None	14
P-1829	8	PVC	1988	100	239	0	Gravel/Sand	None	14
P-1830	8	PVC	1988	100	814	0	Gravel/Sand	None	14
P-1831	8	PVC	1988	100	2,104	0	Gravel/Sand	None	14
P-1832	8	PVC	1983	100	274	0	Gravel/Sand	None	14
P-1833	8	PVC	1983	100	374	0	Gravel/Sand	None	14
P-1834	12	PVC	1983	100	808	0	Gravel/Sand	None	7
P-1836	6	PVC	1983	100	364	0	Gravel/Sand	None	19
P-1837	8	PVC	1983	100	702	0	Gravel/Sand	None	14
P-1842	12	DICL	1996	110	291	0	Gravel/Sand	None	5

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1844	16	DICL	2005	130	344	0	Gravel/Sand	None	3
P-1845(1)	12	Asbestos Cement	1974	100	1,223	0	Gravel/Sand	None	22
P-1845(2)	6	Asbestos Cement	1975	120	83	0	Gravel/Sand	None	34
P-1847	12	PVC	1989	130	740	0	Gravel/Sand	None	7
P-1848	6	Asbestos Cement	1967	130	515	0	Gravel/Sand	None	39
P-1856	6	CICL	1948	100	220	0	Gravel/Sand	None	43
P-1857	8	PVC	1988	100	218	0	Gravel/Sand	None	14
P-1859(1)	8	CIBIT	1935	60	350	0	Gravel/Sand	None	39
P-1859(2)	8	CI	1927	60	373	0	Gravel/Sand	None	48
P-1860	6	CICL	1948	100	212	0	Gravel/Sand	None	43
P-1861	8	DICL	1996	100	226	0	Gravel/Sand	None	12
P-1862	8	DI	1996	100	656	0	Gravel/Sand	None	12
P-1865	8	DICL	1996	100	1,615	0	Gravel/Sand	None	12
P-1867	8	DI	1997	100	881	0	Gravel/Sand	None	12
P-1869	8	Asbestos Cement	1962	100	320	0	Gravel/Sand	None	34
P-1870	8	Asbestos Cement	1962	100	564	0	Gravel/Sand	None	34
P-1871	6	Asbestos Cement	1964	100	840	0	Gravel/Sand	None	39
P-1872	6	Asbestos Cement	1964	100	101	0	Gravel/Sand	None	39
P-1873	6	Asbestos Cement	1962	100	172	0	Gravel/Sand	None	39
P-1875	6	Asbestos Cement	1966	100	497	0	Gravel/Sand	None	39
P-1876	6	Asbestos Cement	1966	100	433	0	Gravel/Sand	None	39
P-1877	6	Asbestos Cement	1965	100	611	0	Gravel/Sand	None	39
P-1878	6	Asbestos Cement	1964	100	420	0	Gravel/Sand	None	39
P-1880	6	Asbestos Cement	1964	100	715	0	Gravel/Sand	None	39
P-1881	8	Asbestos Cement	1974	100	589	0	Gravel/Sand	None	29
P-1882	8	Asbestos Cement	1974	100	441	0	Gravel/Sand	None	29
P-1884	6	Asbestos Cement	1962	100	609	1	Gravel/Sand	None	42
P-1885	6	Asbestos Cement	1965	100	258	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1886	6	Asbestos Cement	1965	100	610	0	Gravel/Sand	None	39
P-1887	6	Asbestos Cement	1966	100	836	0	Gravel/Sand	Taste/Odor	39
P-1888	6	Asbestos Cement	1966	100	227	0	Gravel/Sand	Taste/Odor	39
P-1889	6	Asbestos Cement	1949	100	231	0	Gravel/Sand	Taste/Odor	53
P-1890	8	Asbestos Cement	1974	80	455	0	Gravel/Sand	None	29
P-1891	6	Asbestos Cement	1966	100	487	0	Gravel/Sand	Taste/Odor	39
P-1892	6	Asbestos Cement	1950	100	242	0	Gravel/Sand	Taste/Odor	52
P-1896	6	Asbestos Cement	1949	100	240	0	Gravel/Sand	Taste/Odor	53
P-1898	6	Asbestos Cement	1950	100	526	0	Gravel/Sand	Taste/Odor	52
P-1900(1)	6	CI	1930	20	111	0	Gravel/Sand	None	60
P-1900(2)(1)	6	CI	1930	20	423	0	Gravel/Sand	None	60
P-1900(2)(2)	6	CI	1930	20	1,791	0	Gravel/Sand	None	60
P-1903	12	DI	2006	130	805	0	Gravel/Sand	None	4
P-1904	12	DI	2003	130	3,028	0	Gravel/Sand	None	4
P-1907(1)	10	DICL	1999	80	1,149	0	Gravel/Sand	None	6
P-1907(2)(1)	10	DICL	1999	80	254	0	/ corrosive soil (wetlands or	None	11
P-1907(2)(2)(1	10	DICL	1999	80	274	0	Gravel/Sand	None	6
P-1907(2)(2)(2	10	DICL	1999	80	270	0	/ corrosive soil (wetlands or	None	11
P-1909	8	DICL	1999	100	971	0	Gravel/Sand	None	12
P-1910	8	DICL	1999	100	1,172	0	/ corrosive soil (wetlands or	None	17
P-1912	8	DICL	1999	100	1,244	0	Gravel/Sand	None	12
P-1913	8	DICL	1999	100	321	0	Gravel/Sand	None	12
P-1914	10	DICL	1999	80	278	0	Gravel/Sand	None	6
P-1916	8	DICL	1999	100	1,004	0	Gravel/Sand	None	12
P-1917	10	DICL	1995	80	429	0	Gravel/Sand	None	6
P-1919	12	Asbestos Cement	1954	120	755	0	Gravel/Sand	None	40
P-1920	10	Asbestos Cement	1955	80	839	0	Gravel/Sand	None	40
P-1922(1)	10	Asbestos Cement	1955	80	560	0	/ corrosive soil (wetlands or	None	45

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1922(2)	10	Asbestos Cement	1955	80	266	0	Gravel/Sand	None	40
P-1923(1)(1)	10	Asbestos Cement	1955	80	177	0	Gravel/Sand	None	40
P-1923(1)(2)	10	Asbestos Cement	1955	80	240	0	/ corrosive soil (wetlands or	None	45
P-1923(2)	10	Asbestos Cement	1955	80	170	0	Gravel/Sand	None	40
P-1924(1)	10	Asbestos Cement	1955	80	415	0	Gravel/Sand	None	40
P-1924(2)	10	Asbestos Cement	1955	80	716	0	/ corrosive soil (wetlands or	None	45
P-1928	8	PVC	1983	100	280	0	Gravel/Sand	None	14
P-1930	16	Asbestos Cement	1976	125	1,029	0	Gravel/Sand	None	21
P-1932	16	HDPE	2000	125	509	0	/ corrosive soil (wetlands or	None	8
P-1933	8	CICL	1948	70	876	0	Gravel/Sand	None	38
P-1938	8	Asbestos Cement	1979	100	402	0	Gravel/Sand	None	29
P-1939	8	Asbestos Cement	1967	100	816	0	Gravel/Sand	None	34
P-1940	16	DICL	2007	125	22	0	Gravel/Sand	None	3
P-1941	16	Asbestos Cement	1954	125	698	0	Gravel/Sand	None	39
P-1944	16	Asbestos Cement	1954	125	494	0	Gravel/Sand	None	39
P-1946	16	Asbestos Cement	1954	125	358	0	Gravel/Sand	None	39
P-1947	8	Asbestos Cement	1976	100	1,000	0	/ corrosive soil (wetlands or	None	34
P-1948	6	CIBIT	1934	100	1,066	0	/ corrosive soil (wetlands or	None	49
P-1952	8	CICL	1948	70	189	0	Gravel/Sand	None	38
P-1953	8	Asbestos Cement	1963	100	803	0	Gravel/Sand	None	34
P-1954	6	Asbestos Cement	1965	100	939	0	Gravel/Sand	None	39
P-1956	8	Asbestos Cement	1969	100	453	0	Gravel/Sand	None	34
P-1957	8	DI	1996	100	1,495	0	Gravel/Sand	None	12
P-1959	8	CICL	1948	60	1,013	0	Gravel/Sand	None	38
P-1961	6	CI	1917	15	665	0	Gravel/Sand	None	54
P-1962	8	PVC	1982	100	877	0	Gravel/Sand	None	14
P-1964(1)(1)	10	CICL	1941	100	872	0	Gravel/Sand	None	32
P-1964(1)(2)	10	CICL	1941	100	228	0	/ corrosive soil (wetlands or	None	36

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1964(2)	10	CICL	1941	100	314	0	Gravel/Sand	None	32
P-1966	6	PVC	1986	100	519	0	Gravel/Sand	None	19
P-1967	10	CICL	1941	100	1,231	0	Gravel/Sand	None	32
P-1968	10	CICL	1941	100	416	0	Gravel/Sand	None	32
P-1969	6	CI	1926	100	248	0	Gravel/Sand	None	53
P-1971(1)	8	DI	2006	100	291	0	/ corrosive soil (wetlands or	None	16
P-1971(2)(1)	8	DI	2006	100	703	0	Gravel/Sand	None	11
P-1971(2)(2)(1	8	DI	2006	100	262	0	/ corrosive soil (wetlands or	None	16
P-1971(2)(2)(2	8	DI	2006	100	216	0	Gravel/Sand	None	11
P-1972(1)	8	DICL	2006	100	348	0	/ corrosive soil (wetlands or	None	16
P-1972(2)	8	DICL	2006	100	249	0	Gravel/Sand	None	11
P-1974	8	CI	1926	100	375	0	Gravel/Sand	None	48
P-1976(1)	8	CI	1926	100	408	0	Gravel/Sand	None	48
P-1976(2)	8	CI	1926	100	1,210	0	/ corrosive soil (wetlands or	None	52
P-1977	8	CI	1926	100	571	0	/ corrosive soil (wetlands or	None	52
P-1979	6	CI	1926	100	685	0	Gravel/Sand	None	53
P-1980(1)	6	CI	1926	100	218	0	Gravel/Sand	None	53
P-1980(2)	6	CI	1926	100	391	0	/ corrosive soil (wetlands or	None	57
P-1981	6	Asbestos Cement	1965	100	934	0	Gravel/Sand	None	39
P-1982	10	CICL	1941	100	744	0	Gravel/Sand	None	32
P-1984	8	ACBIT	1982	100	462	0	Gravel/Sand	None	27
P-1989	6	Asbestos Cement	1981	100	543	0	Gravel/Sand	None	32
P-1990	6	Asbestos Cement	1981	100	379	0	Gravel/Sand	None	32
P-1991	8	Asbestos Cement	1964	100	482	0	Gravel/Sand	None	34
P-1993	8	Asbestos Cement	1964	100	944	0	Gravel/Sand	None	34
P-1994	8	Asbestos Cement	1964	100	696	0	Gravel/Sand	None	34
P-1995	6	Asbestos Cement	1964	100	1,906	0	Gravel/Sand	None	39
P-1997	6	Asbestos Cement	1976	100	638	0	Gravel/Sand	None	34

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-1999	8	Asbestos Cement	1976	100	946	0	Gravel/Sand	None	29
P-2000	8	Asbestos Cement	1976	100	498	0	Gravel/Sand	None	29
P-2001	10	CICL	1940	80	755	0	Gravel/Sand	None	32
P-2007	12	DICL	2005	130	918	0	Gravel/Sand	None	4
P-2009	8	CI	1933	100	717	0	Gravel/Sand	None	55
P-2010	8	Asbestos Cement	1964	100	209	0	Gravel/Sand	None	34
P-2011	6	Asbestos Cement	1964	100	982	0	Gravel/Sand	None	39
P-2013	8	Asbestos Cement	1956	110	330	0	Gravel/Sand	None	47
P-2016	10	CI	1914	70	976	0	Gravel/Sand	None	43
P-2017	10	CI	1914	70	2,037	0	Gravel/Sand	None	43
P-2018	6	CIBIT	1934	100	283	0	Gravel/Sand	None	44
P-2019	6	Asbestos Cement	1956	100	601	0	Gravel/Sand	None	52
P-2021	8	CI	1933	100	478	0	Gravel/Sand	None	55
P-2022	6	CI	1899	50	720	0	Gravel/Sand	None	56
P-2029	12	CI	1926	60	809	0	Gravel/Sand	None	41
P-2030	6	Asbestos Cement	1950	100	324	1	Gravel/Sand	None	54
P-2031	6	Asbestos Cement	1955	100	612	0	Gravel/Sand	None	52
P-2032	8	DICL	2006	110	302	0	Gravel/Sand	None	11
P-2039	12	Asbestos Cement	1963	125	405	0	Gravel/Sand	None	27
P-2047	6	CI	1929	40	370	0	Gravel/Sand	None	53
P-2050	6	CI	1899	40	845	0	Gravel/Sand	None	56
P-2051	6	CI	1899	40	519	0	Gravel/Sand	None	56
P-2055	16	Asbestos Cement	1968	125	995	0	Gravel/Sand	None	26
P-2056	16	Asbestos Cement	1968	125	160	0	Gravel/Sand	None	26
P-2057	16	Asbestos Cement	1968	125	477	0	Gravel/Sand	None	26
P-2061	8	DICL	2011	100	315	0	Gravel/Sand	None	11
P-2063	8	DI	2011	100	850	0	Gravel/Sand	None	11
P-2067	8	CI	1899	60	511	0	Gravel/Sand	None	51

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2082	6	Asbestos Cement	1950	100	595	0	Gravel/Sand	None	52
P-2083	6	Asbestos Cement	1950	100	556	0	Gravel/Sand	None	52
P-2085	6	Asbestos Cement	1950	100	1,074	0	Gravel/Sand	None	52
P-2087	6	CI	1899	100	222	0	Gravel/Sand	None	56
P-2089	6	Asbestos Cement	1954	100	552	0	Gravel/Sand	None	52
P-2091	6	Asbestos Cement	1952	100	291	0	Gravel/Sand	None	52
P-2099	6	Asbestos Cement	1963	100	534	0	Gravel/Sand	None	39
P-2100	8	PVC	1982	100	793	0	Gravel/Sand	None	14
P-2105	6	Asbestos Cement	1955	100	1,012	0	Gravel/Sand	None	52
P-2111	8	Asbestos Cement	1963	100	400	0	Gravel/Sand	None	34
P-2113	8	Asbestos Cement	1965	100	312	0	Gravel/Sand	None	34
P-2114	6	Asbestos Cement	1976	100	367	0	Gravel/Sand	None	34
P-2115	8	Asbestos Cement	1965	100	1,163	0	Gravel/Sand	None	34
P-2117	8	PVC	1985	100	926	0	r corrosive soil (wetlands or	None	18
P-2123	12	DICL	2009	60	342	0	Gravel/Sand	None	4
P-2124	12	Asbestos Cement	1977	125	178	0	Gravel/Sand	None	22
P-2125	12	Asbestos Cement	1977	125	783	0	Gravel/Sand	None	22
P-2128	6	Asbestos Cement	1965	100	326	0	Gravel/Sand	None	39
P-2129	6	Asbestos Cement	1962	100	706	0	Gravel/Sand	None	39
P-2132(1)	6	Asbestos Cement	1957	100	266	0	Gravel/Sand	None	52
P-2133(2)	12	Asbestos Cement	1954	120	212	0	Gravel/Sand	None	40
P-2134	12	Asbestos Cement	1954	120	252	0	Gravel/Sand	None	40
P-2137	6	CICL	1948	100	992	0	Gravel/Sand	None	43
P-2138	6	Asbestos Cement	1954	100	1,024	1	Gravel/Sand	None	54
P-2141	6	Asbestos Cement	1958	100	1,122	0	Gravel/Sand	None	52
P-2143	6	Asbestos Cement	1963	100	365	0	Gravel/Sand	None	39
P-2145	6	Asbestos Cement	1962	100	1,060	0	Gravel/Sand	None	39
P-2146	6	Asbestos Cement	1962	100	1,700	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2147	6	CICL	1947	100	662	0	Gravel/Sand	None	43
P-2150	12	Asbestos Cement	1969	120	736	0	Gravel/Sand	None	27
P-2151(1)	12	Asbestos Cement	1969	120	699	0	Gravel/Sand	None	27
P-2152	8	DICL	2001	100	318	0	Gravel/Sand	None	11
P-2155	12	DICL	2009	60	1,002	0	Gravel/Sand	None	4
P-2156	8	Asbestos Cement	1976	100	248	0	Gravel/Sand	None	29
P-2157	6	CICL	1948	100	548	0	Gravel/Sand	None	43
P-2159	6	Asbestos Cement	1960	100	198	0	Gravel/Sand	None	39
P-2162	6	Asbestos Cement	1960	100	580	0	Gravel/Sand	None	39
P-2163	12	Asbestos Cement	1969	120	282	0	Gravel/Sand	None	27
P-2165	6	CI	1904	100	618	0	Gravel/Sand	None	55
P-2166(1)	8	CI	1904	100	367	0	Gravel/Sand	None	50
P-2166(2)	8	CI	1904	100	454	0	/ corrosive soil (wetlands or	None	55
P-2169	8	DI	2000	100	764	0	Gravel/Sand	None	11
P-2170	8	DICL	2000	100	793	0	Gravel/Sand	None	11
P-2178	8	DICL	2000	100	691	1	Gravel/Sand	None	14
P-2179	6	ACBIT	1980	100	419	0	Gravel/Sand	None	32
P-2180	6	ACBIT	1980	100	779	0	Gravel/Sand	None	32
P-2182	12	ACBIT	1980	130	324	0	Gravel/Sand	None	20
P-2185	20	CICL	1965	80	652	0	Gravel/Sand	None	15
P-2187	8	Asbestos Cement	1978	100	1,321	0	Gravel/Sand	None	29
P-2190	8	PVC	1986	100	183	0	Gravel/Sand	None	14
P-2191	6	PVC	1986	100	512	0	Gravel/Sand	None	19
P-2192	6	PVC	1986	100	661	0	Gravel/Sand	None	19
P-2193	8	ACBIT	1980	100	301	0	Gravel/Sand	None	27
P-2195	6	Asbestos Cement	1980	100	598	0	Gravel/Sand	None	32
P-2199	12	Asbestos Cement	1979	130	529	0	Gravel/Sand	None	22
P-2200	8	DI	1998	100	3,265	0	Gravel/Sand	None	12

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2201	6	Asbestos Cement	1978	100	1,175	0	Gravel/Sand	None	34
P-2202	8	PVC	1988	100	718	0	Gravel/Sand	None	14
P-2203	8	Asbestos Cement	1978	100	895	0	Gravel/Sand	None	29
P-2204	8	Asbestos Cement	1978	100	681	0	Gravel/Sand	None	29
P-2206	12	DI	1998	130	710	0	Gravel/Sand	None	5
P-2207	8	PVC	1985	100	207	0	Gravel/Sand	None	14
P-2210	8	DI	1998	100	1,273	0	Gravel/Sand	None	12
P-2212	12	DI	1998	130	790	0	Gravel/Sand	None	5
P-2213	12	DICL	1998	130	251	0	Gravel/Sand	None	5
P-2214	8	Asbestos Cement	1980	100	461	0	Gravel/Sand	None	27
P-2215	8	PVC	1986	100	1,039	0	Gravel/Sand	None	14
P-2216	6	PVC	1986	100	306	0	Gravel/Sand	None	19
P-2218	12	PVC	1986	130	496	0	Gravel/Sand	None	7
P-2220	20	CICL	1965	80	676	0	Gravel/Sand	None	15
P-2221	20	CICL	1965	80	537	0	Gravel/Sand	None	15
P-2222	8	Asbestos Cement	1972	100	409	0	Gravel/Sand	None	29
P-2223	8	Asbestos Cement	1972	100	920	0	Gravel/Sand	None	29
P-2224	6	Asbestos Cement	1972	100	1,115	0	Gravel/Sand	None	34
P-2225	20	CICL	1965	80	804	0	Gravel/Sand	None	15
P-2226	20	CICL	1965	80	142	0	Gravel/Sand	None	15
P-2227	6	Asbestos Cement	1966	100	411	0	Gravel/Sand	None	39
P-2228	6	Asbestos Cement	1970	100	920	0	Gravel/Sand	None	34
P-2229	6	Asbestos Cement	1971	100	475	0	Gravel/Sand	None	34
P-2230	6	Asbestos Cement	1966	100	584	0	Gravel/Sand	None	39
P-2231	8	DICL	1999	100	1,246	0	Gravel/Sand	None	12
P-2232	8	DICL	2000	100	589	0	Gravel/Sand	None	11
P-2237	8	PVC	1993	100	548	0	Gravel/Sand	None	12
P-2238	8	Asbestos Cement	1972	100	2,069	0	Gravel/Sand	None	29

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2240	8	Asbestos Cement	1972	100	404	0	Gravel/Sand	None	29
P-2242	8	DICL	1998	100	549	0	Gravel/Sand	None	12
P-2245	8	Asbestos Cement	1973	100	496	0	Gravel/Sand	None	29
P-2247	8	Asbestos Cement	1973	120	767	0	Gravel/Sand	None	29
P-2248	8	Asbestos Cement	1973	120	283	0	Gravel/Sand	None	29
P-2249	6	Asbestos Cement	1973	100	362	0	Gravel/Sand	None	34
P-2250	8	Asbestos Cement	1973	120	476	0	Gravel/Sand	None	29
P-2251	8	Asbestos Cement	1973	120	1,036	0	Gravel/Sand	None	29
P-2252	6	Asbestos Cement	1973	100	237	0	Gravel/Sand	None	34
P-2253	8	PVC	1994	100	461	0	Gravel/Sand	None	12
P-2254	8	PVC	1994	100	1,049	0	Gravel/Sand	None	12
P-2257	20	CICL	1959	100	172	0	Gravel/Sand	None	15
P-2258	8	Asbestos Cement	1973	100	1,029	0	Gravel/Sand	None	29
P-2259	8	PVC	1985	100	371	0	Gravel/Sand	None	14
P-2260	8	PVC	1985	100	1,354	0	Gravel/Sand	None	14
P-2261	8	PVC	1985	100	998	0	Gravel/Sand	None	14
P-2269	8	ACBIT	1980	100	588	0	Gravel/Sand	None	27
P-2270	8	PVC	1987	100	551	0	Gravel/Sand	None	14
P-2271	16	DI	2019	120	200	0	Gravel/Sand	None	3
P-2273	8	Asbestos Cement	1970	100	1,193	0	Gravel/Sand	None	29
P-2274	6	Asbestos Cement	1959	100	813	0	Gravel/Sand	None	39
P-2278	8	Asbestos Cement	1969	120	289	0	Gravel/Sand	None	34
P-2279	6	Asbestos Cement	1969	100	2,119	0	Gravel/Sand	None	39
P-2281	8	Asbestos Cement	1979	120	410	0	Gravel/Sand	None	29
P-2282	8	Asbestos Cement	1979	100	279	0	Gravel/Sand	None	29
P-2283	8	Asbestos Cement	1979	100	1,076	0	Gravel/Sand	None	29
P-2285	8	ACBIT	1986	120	371	0	Gravel/Sand	None	27
P-2287	8	ACBIT	1980	100	542	0	Gravel/Sand	None	27

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2290	8	Asbestos Cement	1954	110	696	0	Gravel/Sand	None	47
P-2292	8	Asbestos Cement	1972	100	865	0	Gravel/Sand	None	29
P-2293	8	Asbestos Cement	1973	100	790	0	Gravel/Sand	None	29
P-2294(1)	8	DI	2016	110	26	0	Gravel/Sand	None	11
P-2294(2)	8	Asbestos Cement	1965	100	132	0	Gravel/Sand	None	34
P-2295	6	Asbestos Cement	1965	100	1,709	0	Gravel/Sand	None	39
P-2296	6	Asbestos Cement	1965	100	58	0	Gravel/Sand	None	39
P-2297(1)(1)	8	DI	2016	110	27	0	Gravel/Sand	None	11
P-2297(1)(2)	6	Asbestos Cement	1966	100	412	0	Gravel/Sand	None	39
P-2297(2)	6	PVC	1991	100	362	0	Gravel/Sand	None	17
P-2298(1)	8	DI	2016	110	28	0	Gravel/Sand	None	11
P-2298(2)	8	Asbestos Cement	1974	100	595	0	Gravel/Sand	None	29
P-2300	12	DICL	2001	130	459	0	Gravel/Sand	None	4
P-2301	6	Asbestos Cement	1974	100	1,058	0	Gravel/Sand	None	34
P-2302(1)	8	DI	2016	110	32	0	Gravel/Sand	None	11
P-2302(2)	6	Asbestos Cement	1968	100	1,008	0	Gravel/Sand	None	39
P-2304	8	Asbestos Cement	1968	110	223	0	Gravel/Sand	None	34
P-2305(1)	8	DI	2016	110	36	0	Gravel/Sand	None	11
P-2305(2)	6	Asbestos Cement	1969	100	956	0	Gravel/Sand	None	39
P-2306(1)	8	DI	2016	110	39	0	Gravel/Sand	None	11
P-2306(2)	6	Asbestos Cement	1963	100	896	0	Gravel/Sand	None	39
P-2308	12	DICL	2001	130	229	0	Gravel/Sand	None	4
P-2309(1)(1)(1	8	DI	2016	110	68	0	Gravel/Sand	None	11
P-2309(1)(1)(2	6	Asbestos Cement	1970	140	361	0	Gravel/Sand	None	34
P-2309(1)(2)	6	Asbestos Cement	1972	110	501	0	Gravel/Sand	None	34
P-2309(2)	6	Asbestos Cement	1972	110	119	0	Gravel/Sand	None	34
P-2312(1)	8	DI	2016	110	31	0	Gravel/Sand	None	11
P-2312(2)	6	Asbestos Cement	1961	100	992	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2315	12	DICL	2001	130	200	0	Gravel/Sand	None	4
P-2316(1)	6	Asbestos Cement	1960	100	887	0	Gravel/Sand	None	39
P-2316(2)	8	DI	2016	110	30	0	Gravel/Sand	None	11
P-2317(1)	8	DI	2016	110	33	0	Gravel/Sand	None	11
P-2317(2)	6	Asbestos Cement	1968	100	972	0	Gravel/Sand	None	39
P-2318(1)	12	DI	2016	120	28	1	Gravel/Sand	None	7
P-2318(2)	12	DI	2016	120	851	1	Gravel/Sand	None	7
P-2321(1)	8	DI	2016	110	31	0	Gravel/Sand	None	11
P-2321(2)	6	Asbestos Cement	1964	100	862	0	Gravel/Sand	None	39
P-2322(1)	8	DI	2016	110	37	0	Gravel/Sand	None	11
P-2322(2)	8	Asbestos Cement	1978	100	789	0	Gravel/Sand	None	29
P-2323(1)	8	Asbestos Cement	1973	100	621	0	Gravel/Sand	Other	29
P-2323(2)	8	DI	2016	110	35	0	Gravel/Sand	None	11
P-2326(1)	8	DI	2016	110	34	0	Gravel/Sand	None	11
P-2326(2)	6	Asbestos Cement	1972	100	675	0	Gravel/Sand	None	34
P-2330(1)	8	Asbestos Cement	1971	100	490	0	Gravel/Sand	None	29
P-2330(2)	8	PVC	1985	100	552	0	Gravel/Sand	None	14
P-2331	8	ACBIT	1937	110	486	0	Gravel/Sand	None	49
P-2332	8	Asbestos Cement	1950	110	723	0	Gravel/Sand	None	47
P-2335(1)	12	Asbestos Cement	1954	120	341	0	Gravel/Sand	None	40
P-2335(2)	12	Asbestos Cement	1954	120	41	0	Gravel/Sand	None	40
P-2338(1)	12	Asbestos Cement	1976	125	961	0	/ corrosive soil (wetlands or	None	27
P-2338(2)	12	DI	2008	125	1,328	0	/ corrosive soil (wetlands or	None	9
P-2342	12	Asbestos Cement	1954	120	369	0	Gravel/Sand	None	40
P-2346	12	Asbestos Cement	1954	120	382	3	/ corrosive soil (wetlands or	None	49
P-2354	6	Asbestos Cement	1955	125	147	0	Gravel/Sand	None	52
P-2356	8	Asbestos Cement	1961	125	417	0	Gravel/Sand	None	34
P-2361	8	Asbestos Cement	1961	125	257	0	Gravel/Sand	None	34

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2364	8	Asbestos Cement	1961	125	771	0	Gravel/Sand	None	34
P-2371	8	Asbestos Cement	1966	125	265	0	Gravel/Sand	None	34
P-2374	8	Asbestos Cement	1966	125	261	0	Gravel/Sand	None	34
P-2375	8	Asbestos Cement	1972	100	2,795	0	Gravel/Sand	None	29
P-2376	8	Asbestos Cement	1961	125	746	0	Gravel/Sand	None	34
P-2379	8	Asbestos Cement	1966	125	284	0	Gravel/Sand	None	34
P-2380	8	Asbestos Cement	1961	125	1,393	0	Gravel/Sand	None	34
P-2382	8	Asbestos Cement	1969	120	721	0	Gravel/Sand	None	34
P-2385	6	Asbestos Cement	1961	90	1,376	0	Gravel/Sand	None	39
P-2386	12	Asbestos Cement	1965	125	237	0	Gravel/Sand	None	27
P-2387	12	Asbestos Cement	1965	125	258	0	Gravel/Sand	None	27
P-2388	6	Asbestos Cement	1970	90	2,353	0	Gravel/Sand	None	34
P-2389	6	Asbestos Cement	1971	100	453	0	Gravel/Sand	None	34
P-2391	6	PVC	1984	100	445	0	Gravel/Sand	None	19
P-2392	8	PVC	1984	100	883	0	Gravel/Sand	None	14
P-2393	8	Asbestos Cement	1970	100	403	0	Gravel/Sand	Other	29
P-2394	8	Asbestos Cement	1970	100	2,312	0	Gravel/Sand	Other	29
P-2395	12	Asbestos Cement	1969	130	858	0	Gravel/Sand	None	27
P-2396	12	Asbestos Cement	1977	130	302	0	Gravel/Sand	None	22
P-2398	6	Asbestos Cement	1958	100	1,297	0	Gravel/Sand	None	52
P-2399	6	Asbestos Cement	1958	100	244	0	Gravel/Sand	None	52
P-2402	6	Asbestos Cement	1974	100	461	0	Gravel/Sand	None	34
P-2403	8	DICL	2006	100	304	0	Gravel/Sand	None	11
P-2404	6	CICL	1948	70	180	0	Gravel/Sand	None	43
P-2407	8	Asbestos Cement	1972	100	943	0	Gravel/Sand	None	29
P-2410	12	Asbestos Cement	1957	130	662	0	Gravel/Sand	None	40
P-2411	8	DICL	1993	100	524	0	Gravel/Sand	None	12
P-2412	6	Asbestos Cement	1971	100	361	0	Gravel/Sand	None	34

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2413	6	Asbestos Cement	1968	100	609	0	Gravel/Sand	None	39
P-2415	6	Asbestos Cement	1971	100	294	0	Gravel/Sand	None	34
P-2416	6	Asbestos Cement	1971	100	305	0	Gravel/Sand	None	34
P-2417	6	Asbestos Cement	1968	100	874	0	Gravel/Sand	None	39
P-2420(1)	8	DI	1993	110	883	0	Gravel/Sand	None	12
P-2420(2)	8	DI	1993	110	462	0	Gravel/Sand	None	12
P-2421	12	Asbestos Cement	1969	130	317	0	Gravel/Sand	None	27
P-2422	12	Asbestos Cement	1969	130	147	0	Gravel/Sand	None	27
P-2423	8	Asbestos Cement	1969	100	955	0	Gravel/Sand	Other	34
P-2424	6	Asbestos Cement	1969	100	508	0	Gravel/Sand	Other	39
P-2426	12	Asbestos Cement	1979	130	442	0	Gravel/Sand	None	22
P-2428	12	Asbestos Cement	1979	130	311	0	Gravel/Sand	None	22
P-2430	8	DI	1998	100	1,724	0	Gravel/Sand	None	12
P-2434	6	Asbestos Cement	1956	100	878	0	Gravel/Sand	None	52
P-2435	8	PVC	1982	100	519	0	Gravel/Sand	None	14
P-2437	8	PVC	1982	100	560	0	Gravel/Sand	None	14
P-2439	8	Asbestos Cement	1980	100	406	0	Gravel/Sand	None	27
P-2440	6	AC	1980	100	463	0	Gravel/Sand	None	32
P-2444(1)	6	PVC	1982	100	419	0	Gravel/Sand	None	19
P-2444(2)	6	Asbestos Cement	1958	100	321	0	Gravel/Sand	None	52
P-2446	12	DICL	2006	100	427	0	Gravel/Sand	None	4
P-2449	12	Asbestos Cement	1974	100	231	0	Gravel/Sand	None	22
P-2451	12	Asbestos Cement	1974	100	222	0	Gravel/Sand	None	22
P-2452	12	Asbestos Cement	1974	100	437	0	Gravel/Sand	None	22
P-2453	8	PVC	1985	100	1,539	0	Gravel/Sand	None	14
P-2454	10	Asbestos Cement	1972	125	281	0	Gravel/Sand	None	23
P-2455	8	Asbestos Cement	1979	110	266	0	Gravel/Sand	None	29
P-2456	8	Asbestos Cement	1972	110	430	0	Gravel/Sand	None	29

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2458	8	Asbestos Cement	1972	100	823	0	Gravel/Sand	None	29
P-2460	8	Asbestos Cement	1972	100	644	0	Gravel/Sand	None	29
P-2462	8	Asbestos Cement	1972	100	242	0	Gravel/Sand	None	29
P-2463	8	Asbestos Cement	1972	100	353	0	Gravel/Sand	None	29
P-2464	8	Asbestos Cement	1972	100	2,280	0	Gravel/Sand	None	29
P-2465	8	Asbestos Cement	1972	100	877	0	Gravel/Sand	None	29
P-2467	12	Asbestos Cement	1974	100	937	0	Gravel/Sand	None	22
P-2468(1)	8	PVC	1983	100	154	0	Gravel/Sand	None	14
P-2468(2)	8	DICL	2005	100	579	0	Gravel/Sand	None	11
P-2470	8	Asbestos Cement	1980	100	394	0	Gravel/Sand	None	27
P-2471	8	Asbestos Cement	1980	100	593	0	Gravel/Sand	None	27
P-2476	6	Asbestos Cement	1972	100	570	0	Gravel/Sand	None	34
P-2478	8	PVC	1987	100	359	0	Gravel/Sand	None	14
P-2481	8	PVC	1987	100	244	0	Gravel/Sand	None	14
P-2482	8	Asbestos Cement	1972	100	1,437	0	Gravel/Sand	None	29
P-2484	6	Asbestos Cement	1972	100	372	0	Gravel/Sand	None	34
P-2485	6	Asbestos Cement	1971	100	559	0	Gravel/Sand	Other	34
P-2486	8	DICL	1997	100	568	0	Gravel/Sand	None	12
P-2487	8	Asbestos Cement	1973	100	867	0	Gravel/Sand	Other	29
P-2489	6	Asbestos Cement	1973	100	324	0	Gravel/Sand	Other	34
P-2490	6	DICL	1996	100	215	0	Gravel/Sand	None	17
P-2491	6	Asbestos Cement	1973	100	435	0	Gravel/Sand	Other	34
P-2492	8	Asbestos Cement	1973	100	480	0	Gravel/Sand	Other	29
P-2493	8	Asbestos Cement	1945	80	284	0	Gravel/Sand	None	48
P-2494	8	CICL	1945	80	259	0	Gravel/Sand	None	38
P-2495	8	Asbestos Cement	1973	100	510	0	Gravel/Sand	Other	29
P-2496	8	Asbestos Cement	1973	100	458	0	Gravel/Sand	Other	29
P-2497	8	DI	2007	100	1,116	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2498	6	Asbestos Cement	1971	100	301	0	Gravel/Sand	Other	34
P-2499	6	Asbestos Cement	1971	100	958	0	Gravel/Sand	Other	34
P-2500	8	PVC	1986	100	196	0	Gravel/Sand	None	14
P-2502	8	PVC	1986	100	926	0	Gravel/Sand	None	14
P-2505	8	PVC	1986	100	277	0	Gravel/Sand	None	14
P-2507	8	PVC	1986	100	600	0	Gravel/Sand	None	14
P-2508	8	Asbestos Cement	1973	100	1,013	0	Gravel/Sand	None	29
P-2509	8	CICL	1945	80	1,329	0	Gravel/Sand	None	38
P-2510	8	CICL	1945	80	258	0	Gravel/Sand	None	38
P-2511	8	DI	2003	100	942	0	Gravel/Sand	None	11
P-2512	8	CICL	1945	80	1,298	0	Gravel/Sand	None	38
P-2514	8	DI	2003	125	2,109	0	Gravel/Sand	None	11
P-2515	8	DICL	2004	100	376	0	Gravel/Sand	None	11
P-2516(1)	8	DI	2004	100	208	0	Gravel/Sand	None	11
P-2516(2)	8	DI	2004	100	947	0	Gravel/Sand	None	11
P-2517	8	DI	2004	100	741	0	Gravel/Sand	None	11
P-2518(1)	8	DI	2003	100	303	0	Gravel/Sand	None	11
P-2518(2)(1)	8	DI	2003	100	370	0	r corrosive soil (wetlands or	None	16
P-2518(2)(2)	8	DI	2003	100	1,169	0	Gravel/Sand	None	11
P-2523	6	CICL	1945	100	327	0	Gravel/Sand	None	43
P-2526	6	CICL	1945	100	327	0	Gravel/Sand	None	43
P-2528	8	CICL	1945	80	380	0	Gravel/Sand	None	38
P-2529	6	CICL	1945	100	319	0	Gravel/Sand	None	43
P-2531	8	CICL	1945	80	601	0	Gravel/Sand	None	38
P-2532	6	CICL	1945	100	317	0	Gravel/Sand	None	43
P-2533	6	Asbestos Cement	1977	100	265	0	Gravel/Sand	None	34
P-2536	8	DICL	1996	100	525	0	Gravel/Sand	None	12
P-2537(1)	8	Asbestos Cement	1983	100	443	0	Gravel/Sand	None	27

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2537(2)	8	DICL	1996	100	451	0	Gravel/Sand	None	12
P-2540	8	Asbestos Cement	1978	100	291	0	Gravel/Sand	None	29
P-2541	8	Asbestos Cement	1961	125	243	0	Gravel/Sand	None	34
P-2543	6	Asbestos Cement	1963	90	980	0	Gravel/Sand	None	39
P-2544	8	Asbestos Cement	1961	125	244	0	Gravel/Sand	None	34
P-2545	8	Asbestos Cement	1961	125	252	0	Gravel/Sand	None	34
P-2546	6	Asbestos Cement	1966	90	848	0	Gravel/Sand	None	39
P-2548	8	Asbestos Cement	1968	125	1,511	0	Gravel/Sand	None	34
P-2549	8	Asbestos Cement	1966	125	260	0	Gravel/Sand	None	34
P-2550	8	Asbestos Cement	1966	125	257	0	Gravel/Sand	None	34
P-2551	6	Asbestos Cement	1966	90	2,728	0	Gravel/Sand	None	39
P-2552	8	Asbestos Cement	1976	100	519	0	Gravel/Sand	Other	29
P-2554	8	DICL	1999	100	781	0	Gravel/Sand	None	12
P-2556	8	Asbestos Cement	1976	100	201	0	Gravel/Sand	None	29
P-2557	12	Asbestos Cement	1975	140	325	0	Gravel/Sand	None	22
P-2559	6	Asbestos Cement	1972	120	834	0	Gravel/Sand	None	34
P-2565	6	Asbestos Cement	1970	120	567	0	Gravel/Sand	None	34
P-2569	6	Asbestos Cement	1975	120	286	0	Gravel/Sand	None	34
P-2570	6	Asbestos Cement	1970	120	263	0	Gravel/Sand	None	34
P-2573	6	Asbestos Cement	1975	120	268	0	Gravel/Sand	None	34
P-2575	8	DICL	2002	120	348	0	Gravel/Sand	None	11
P-2577	6	Asbestos Cement	1979	120	284	0	Gravel/Sand	None	34
P-2578	8	Asbestos Cement	1978	120	242	0	Gravel/Sand	None	29
P-2579	8	Asbestos Cement	1975	120	293	0	Gravel/Sand	None	29
P-2583	6	Asbestos Cement	1958	120	331	0	Gravel/Sand	None	52
P-2586	8	DICL	2002	120	1,255	0	Gravel/Sand	None	11
P-2593	6	Asbestos Cement	1963	120	746	0	Gravel/Sand	None	39
P-2594	6	Asbestos Cement	1963	120	551	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2601	8	DICL	2007	120	1,390	0	Gravel/Sand	None	11
P-2604	6	Asbestos Cement	1972	120	282	0	Gravel/Sand	None	34
P-2605	6	PVC	1992	120	267	0	Gravel/Sand	None	17
P-2606	6	Asbestos Cement	1965	120	572	0	Gravel/Sand	None	39
P-2607	8	Asbestos Cement	1979	120	358	0	Gravel/Sand	None	29
P-2608	8	Asbestos Cement	1982	120	444	0	Gravel/Sand	None	27
P-2609	8	DICL	1997	120	116	0	Gravel/Sand	None	12
P-2611	8	DICL	1997	120	292	0	Gravel/Sand	None	12
P-2614	8	Asbestos Cement	1973	120	450	0	Gravel/Sand	None	29
P-2615	8	DICL	1997	120	256	0	Gravel/Sand	None	12
P-2616	6	Asbestos Cement	1975	120	359	0	Gravel/Sand	None	34
P-2617	6	Asbestos Cement	1973	120	450	0	Gravel/Sand	None	34
P-2619	8	DICL	2003	120	283	0	Gravel/Sand	None	11
P-2620	8	Asbestos Cement	1979	120	272	0	Gravel/Sand	None	29
P-2623	6	Asbestos Cement	1972	120	447	0	Gravel/Sand	None	34
P-2624(1)	8	DICL	2001	120	259	0	Gravel/Sand	None	11
P-2624(2)	8	PVC	1988	120	267	0	Gravel/Sand	None	14
P-2627	8	DICL	1997	120	594	0	Gravel/Sand	None	12
P-2632	8	Asbestos Cement	1975	130	259	0	Gravel/Sand	None	29
P-2633	6	Asbestos Cement	1968	130	252	0	Gravel/Sand	None	39
P-2634	6	Asbestos Cement	1965	130	528	0	Gravel/Sand	None	39
P-2636	6	Asbestos Cement	1970	130	347	0	Gravel/Sand	None	34
P-2637	6	Asbestos Cement	1970	130	425	0	Gravel/Sand	None	34
P-2641	6	DICL	2007	130	172	0	Gravel/Sand	None	16
P-2644	6	Asbestos Cement	1970	130	776	0	Gravel/Sand	None	34
P-2646	6	Asbestos Cement	1964	32	38	0	Gravel/Sand	None	39
P-2647	6	Asbestos Cement	1964	130	347	0	Gravel/Sand	None	39
P-2648	6	Asbestos Cement	1967	120	196	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2649	6	Asbestos Cement	1970	120	261	0	Gravel/Sand	None	34
P-2650	6	Asbestos Cement	1972	120	254	0	Gravel/Sand	None	34
P-2651	8	ACBIT	1982	120	247	0	Gravel/Sand	None	27
P-2652	8	ACBIT	1982	120	231	0	Gravel/Sand	None	27
P-2653(1)	8	DICL	2001	120	345	0	Gravel/Sand	None	11
P-2653(2)	8	PVC	1984	120	426	0	Gravel/Sand	None	14
P-2654	8	DI	2001	120	276	0	Gravel/Sand	None	11
P-2657	8	Asbestos Cement	1977	120	1,060	0	Gravel/Sand	None	29
P-2658	8	DICL	1997	120	787	0	Gravel/Sand	None	12
P-2659	8	Asbestos Cement	1974	130	252	0	Gravel/Sand	None	29
P-2663	6	Asbestos Cement	1964	120	247	0	Gravel/Sand	None	39
P-2665	6	Asbestos Cement	1962	120	245	0	Gravel/Sand	None	39
P-2666	8	Asbestos Cement	1979	120	387	0	Gravel/Sand	None	29
P-2667	6	Asbestos Cement	1979	120	423	0	Gravel/Sand	None	34
P-2670	8	DICL	2007	120	387	0	Gravel/Sand	None	11
P-2671	6	Asbestos Cement	1978	120	462	0	Gravel/Sand	None	34
P-2672	6	Asbestos Cement	1963	120	620	0	Gravel/Sand	None	39
P-2673	6	Asbestos Cement	1970	120	516	0	Gravel/Sand	None	34
P-2675	12	Asbestos Cement	1975	140	386	0	Gravel/Sand	None	22
P-2676	6	Asbestos Cement	1970	120	651	0	Gravel/Sand	None	34
P-2677	6	Asbestos Cement	1973	120	631	0	Gravel/Sand	None	34
P-2678	6	Asbestos Cement	1973	120	516	0	Gravel/Sand	None	34
P-2681	6	Asbestos Cement	1971	120	356	0	Gravel/Sand	None	34
P-2682	8	DICL	1997	120	447	0	Gravel/Sand	None	12
P-2688	6	Asbestos Cement	1972	130	511	0	Gravel/Sand	None	34
P-2689	6	Asbestos Cement	1952	120	876	0	Gravel/Sand	None	52
P-2693	6	Asbestos Cement	1973	130	364	0	Gravel/Sand	None	34
P-2700	12	DI	2006	130	765	0	Gravel/Sand	None	4

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2701	8	DICL	1990	100	572	0	Gravel/Sand	None	12
P-2704	8	DICL	1995	100	251	0	Gravel/Sand	None	12
P-2707	6	ACBIT	1980	100	128	0	Gravel/Sand	None	32
P-2709	6	Asbestos Cement	1972	110	226	0	Gravel/Sand	Other	34
P-2710	6	Asbestos Cement	1972	110	309	0	Gravel/Sand	Other	34
P-2711	6	Asbestos Cement	1972	110	380	0	Gravel/Sand	None	34
P-2716	12	Asbestos Cement	1974	100	236	0	Gravel/Sand	None	22
P-2717(1)	12	Asbestos Cement	1974	100	276	0	Gravel/Sand	None	22
P-2717(2)	12	Asbestos Cement	1974	100	167	0	Gravel/Sand	None	22
P-2719	8	PVC	1984	100	1,302	0	Gravel/Sand	None	14
P-2720	12	Asbestos Cement	1974	100	195	0	Gravel/Sand	None	22
P-2724	8	PVC	1986	100	350	0	Gravel/Sand	None	14
P-2725	8	PVC	1986	100	1,478	0	Gravel/Sand	None	14
P-2726	8	PVC	1986	100	776	0	Gravel/Sand	None	14
P-2727	8	PVC	1983	100	1,250	0	Gravel/Sand	None	14
P-2730(1)	12	Asbestos Cement	1974	100	303	0	Gravel/Sand	None	22
P-2730(2)	12	Asbestos Cement	1974	100	250	0	Gravel/Sand	None	22
P-2733	8	ACBIT	1981	100	827	0	Gravel/Sand	None	27
P-2735	12	DICL	2001	130	203	0	Gravel/Sand	None	4
P-2736	12	DICL	2001	130	199	0	Gravel/Sand	None	4
P-2737(1)(1)	8	DI	2016	110	26	0	Gravel/Sand	None	11
P-2737(1)(2)	8	DI	2016	110	158	0	Gravel/Sand	None	11
P-2737(2)	6	Asbestos Cement	1965	100	715	0	Gravel/Sand	None	39
P-2741	6	Asbestos Cement	1973	100	501	0	Gravel/Sand	None	34
P-2742(1)	8	Asbestos Cement	1977	100	155	0	Gravel/Sand	None	29
P-2742(2)	8	Asbestos Cement	1977	100	404	0	Stray current	None	32
P-2745	12	Asbestos Cement	1965	125	341	0	Gravel/Sand	None	27
P-2746	8	PVC	1989	100	740	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2748	12	Asbestos Cement	1965	125	413	0	Gravel/Sand	None	27
P-2749	8	DICL	1995	100	739	0	Gravel/Sand	None	12
P-2750(1)	8	Asbestos Cement	1973	100	341	0	Gravel/Sand	None	29
P-2750(2)	8	DICL	1997	100	347	0	Gravel/Sand	None	12
P-2751	12	Asbestos Cement	1965	125	179	0	Gravel/Sand	None	27
P-2752	12	Asbestos Cement	1965	125	337	0	Gravel/Sand	None	27
P-2753(1)	8	Asbestos Cement	1974	100	456	0	Gravel/Sand	None	29
P-2753(2)	6	PVC	1985	100	244	0	Gravel/Sand	None	19
P-2755	12	Asbestos Cement	1965	125	336	0	Gravel/Sand	None	27
P-2756	8	Asbestos Cement	1978	100	461	0	Gravel/Sand	Other	29
P-2757	12	Asbestos Cement	1965	125	403	0	Gravel/Sand	None	27
P-2758	12	Asbestos Cement	1965	125	426	0	Gravel/Sand	None	27
P-2759	6	Asbestos Cement	1978	90	634	0	Gravel/Sand	Other	34
P-2760	12	Asbestos Cement	1965	125	340	0	Gravel/Sand	None	27
P-2762	8	PVC	1994	100	816	0	Gravel/Sand	None	12
P-2764(1)	12	Asbestos Cement	1974	100	180	0	Gravel/Sand	None	22
P-2764(2)	12	Asbestos Cement	1974	100	88	0	Gravel/Sand	None	22
P-2765	12	Asbestos Cement	1974	100	266	0	Gravel/Sand	None	22
P-2768	12	Asbestos Cement	1957	125	934	0	Other	None	43
P-2769	8	DICL	1995	100	597	0	Gravel/Sand	None	12
P-2771	8	CICL	1945	80	251	0	Gravel/Sand	None	38
P-2772	8	PVC	1987	100	547	0	Gravel/Sand	None	14
P-2773	8	PVC	1984	100	433	0	Gravel/Sand	None	14
P-2774	8	PVC	1984	100	430	0	Gravel/Sand	None	14
P-2775(1)	8	PVC	1984	100	1,093	0	Gravel/Sand	None	14
P-2775(2)	8	Asbestos Cement	1978	100	583	0	Gravel/Sand	None	29
P-2776	6	PVC	1984	100	384	0	Gravel/Sand	None	19
P-2777	8	CICL	1945	80	228	0	Gravel/Sand	None	38

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2778	8	CICL	1945	80	250	0	Gravel/Sand	None	38
P-2779	8	DICL	2002	100	344	0	Gravel/Sand	None	11
P-2780	12	Asbestos Cement	1974	100	203	0	Gravel/Sand	None	22
P-2781	12	Asbestos Cement	1974	100	698	0	Gravel/Sand	None	22
P-2782	8	DICL	1996	100	669	0	Gravel/Sand	None	12
P-2783	12	Asbestos Cement	1965	125	348	0	Gravel/Sand	None	27
P-2786	12	Asbestos Cement	1964	125	353	0	Gravel/Sand	None	27
P-2789	12	Asbestos Cement	1964	125	272	0	Gravel/Sand	None	27
P-2792	12	Asbestos Cement	1964	125	205	0	Gravel/Sand	None	27
P-2794	8	DI	2001	100	459	0	Gravel/Sand	None	11
P-2796	8	Asbestos Cement	1961	120	243	0	Gravel/Sand	None	34
P-2797	8	Asbestos Cement	1961	120	259	0	Gravel/Sand	None	34
P-2798	8	Asbestos Cement	1961	120	224	0	Gravel/Sand	None	34
P-2799	6	Asbestos Cement	1966	90	914	0	Gravel/Sand	None	39
P-2800	8	Asbestos Cement	1961	125	258	0	Gravel/Sand	None	34
P-2803	8	Asbestos Cement	1961	125	463	0	Gravel/Sand	None	34
P-2804	6	Asbestos Cement	1964	90	1,511	0	Gravel/Sand	None	39
P-2806	12	Asbestos Cement	1954	120	637	1	Gravel/Sand	None	42
P-2807	12	Asbestos Cement	1954	120	638	0	Gravel/Sand	None	40
P-2808	8	PVC	1998	100	289	0	Gravel/Sand	None	12
P-2809	8	PVC	1988	100	861	0	r corrosive soil (wetlands or	None	18
P-2810	6	Asbestos Cement	1964	100	1,455	0	Gravel/Sand	None	39
P-2812	8	DICL	1999	100	416	0	Gravel/Sand	None	12
P-2813	8	Asbestos Cement	1970	100	323	0	Gravel/Sand	None	29
P-2816	12	DICL	2001	130	211	0	Gravel/Sand	None	4
P-2817	12	DICL	2001	130	197	0	Gravel/Sand	None	4
P-2818(1)(1)	8	DI	2016	110	34	0	Gravel/Sand	None	11
P-2818(1)(2)	8	PVC	1984	100	154	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2818(2)	8	DICL	1996	100	311	0	Gravel/Sand	None	12
P-2819	12	DICL	2001	130	197	0	Gravel/Sand	None	4
P-2821(1)(1)	8	DI	2016	110	29	0	Gravel/Sand	None	11
P-2821(1)(2)	8	Asbestos Cement	1976	100	208	0	Gravel/Sand	None	29
P-2821(2)(1)	8	PVC	1982	100	417	0	Gravel/Sand	None	14
P-2821(2)(2)	8	DICL	2002	100	136	0	Gravel/Sand	None	11
P-2823	12	DICL	2001	130	190	0	Gravel/Sand	None	4
P-2824(1)	8	DI	2016	110	47	0	Gravel/Sand	None	11
P-2824(2)	6	Asbestos Cement	1967	100	791	0	Gravel/Sand	None	39
P-2825	12	DICL	2001	130	198	0	Gravel/Sand	None	4
P-2827(1)	8	DI	2016	110	39	0	Gravel/Sand	None	11
P-2827(2)	8	PVC	1987	100	675	0	Gravel/Sand	None	14
P-2828	10	Asbestos Cement	1971	125	134	0	Gravel/Sand	None	23
P-2830	8	PVC	1987	100	1,430	0	Gravel/Sand	None	14
P-2831(1)	8	DI	2016	110	41	0	Gravel/Sand	None	11
P-2831(2)	6	Asbestos Cement	1950	100	622	0	Gravel/Sand	None	52
P-2832	12	DICL	2001	130	126	0	Gravel/Sand	None	4
P-2833	12	Asbestos Cement	1950	130	67	0	Gravel/Sand	None	40
P-2834(1)	8	DI	2016	110	32	0	Gravel/Sand	None	11
P-2834(2)	6	Asbestos Cement	1950	100	666	0	Gravel/Sand	None	52
P-2835	8	Asbestos Cement	1951	110	256	0	Gravel/Sand	None	47
P-2837(1)	8	DI	2016	110	41	0	Gravel/Sand	None	11
P-2837(2)	6	Asbestos Cement	1951	100	818	0	Gravel/Sand	None	52
P-2840(1)	8	PVC	2016	110	24	0	Gravel/Sand	None	11
P-2840(2)	8	PVC	1993	100	514	0	Gravel/Sand	None	12
P-2841	12	DI	2001	130	602	0	Gravel/Sand	None	4
P-2842	12	DICL	2001	130	364	0	Gravel/Sand	None	4
P-2843	6	Asbestos Cement	1977	100	545	0	Gravel/Sand	None	34

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2846	8	Asbestos Cement	1949	100	345	0	Gravel/Sand	None	48
P-2847	6	Asbestos Cement	1949	100	230	0	Gravel/Sand	None	53
P-2848	6	Asbestos Cement	1949	100	1,001	0	Gravel/Sand	None	53
P-2849	6	Asbestos Cement	1949	100	262	0	Gravel/Sand	None	53
P-2850	8	CI	1899	60	374	0	Gravel/Sand	None	51
P-2851	8	CI	1899	60	221	0	Gravel/Sand	None	51
P-2852	8	ACBIT	1982	100	805	0	Gravel/Sand	None	27
P-2853	12	Asbestos Cement	1975	125	1,063	0	Gravel/Sand	None	22
P-2854	12	Asbestos Cement	1975	125	686	0	Gravel/Sand	None	22
P-2860	8	Asbestos Cement	1979	100	1,362	0	Gravel/Sand	None	29
P-2862	12	Asbestos Cement	1972	120	610	0	Gravel/Sand	None	22
P-2863	8	DI	1993	100	1,642	0	Gravel/Sand	None	12
P-2865	6	CI	1905	60	228	0	Gravel/Sand	None	55
P-2866	8	PVC	1984	100	1,330	0	Gravel/Sand	None	14
P-2867	12	Asbestos Cement	1972	120	700	0	Gravel/Sand	None	22
P-2868	12	Asbestos Cement	1972	120	465	0	Gravel/Sand	None	22
P-2869	8	Asbestos Cement	1974	100	803	0	Gravel/Sand	None	29
P-2870	8	Asbestos Cement	1973	125	255	0	Gravel/Sand	None	29
P-2872	6	ACBIT	1980	100	255	0	Gravel/Sand	None	32
P-2873	8	Asbestos Cement	1974	125	506	0	Gravel/Sand	None	29
P-2875	8	PVC	1985	100	238	0	Gravel/Sand	None	14
P-2876	8	PVC	1985	125	486	0	Gravel/Sand	None	14
P-2877	8	PVC	1985	125	1,244	0	Gravel/Sand	None	14
P-2878	8	PVC	1985	100	702	0	Gravel/Sand	None	14
P-2881	8	DI	1993	140	1,377	0	Gravel/Sand	None	12
P-2882(1)	8	DICL	1993	140	63	0	Gravel/Sand	None	12
P-2882(2)	8	DICL	1993	140	391	0	Gravel/Sand	None	12
P-2883	8	DICL	1993	140	563	0	Gravel/Sand	None	12

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2886	8	PVC	1987	100	847	0	Gravel/Sand	None	14
P-2888	8	DI	1989	100	377	0	Gravel/Sand	None	14
P-2890	8	DI	1989	100	528	0	Gravel/Sand	None	14
P-2891	8	DI	1989	100	1,077	0	Gravel/Sand	None	14
P-2894	8	DICL	1999	100	416	0	Gravel/Sand	None	12
P-2895	8	DICL	1989	100	274	0	Gravel/Sand	None	14
P-2896	8	DICL	1989	100	119	0	Gravel/Sand	None	14
P-2897	8	DICL	1989	100	152	0	Gravel/Sand	None	14
P-2898	8	DICL	1989	100	276	0	Gravel/Sand	None	14
P-2899	8	DI	1989	100	1,070	0	Gravel/Sand	None	14
P-2900	12	Asbestos Cement	1968	140	277	0	Gravel/Sand	None	27
P-2901	12	Asbestos Cement	1968	140	365	0	Gravel/Sand	None	27
P-2903	8	Asbestos Cement	1968	120	488	0	Gravel/Sand	None	34
P-2905	8	PVC	1987	100	564	0	Gravel/Sand	None	14
P-2907	8	PVC	1987	100	622	0	Gravel/Sand	None	14
P-2909	16	Asbestos Cement	1969	130	494	0	Gravel/Sand	None	26
P-2910	16	Asbestos Cement	1969	130	151	0	Gravel/Sand	None	26
P-2911	16	Asbestos Cement	1969	130	211	0	Gravel/Sand	None	26
P-2912	8	DI	1996	100	1,417	0	Gravel/Sand	None	12
P-2913	6	Asbestos Cement	1972	100	1,228	0	Gravel/Sand	None	34
P-2914	16	DI	1987	130	662	0	Gravel/Sand	None	6
P-2916	8	DICL	2001	100	492	0	Gravel/Sand	None	11
P-2917	16	Asbestos Cement	1969	130	1,087	0	Gravel/Sand	None	26
P-2918	16	ACBIT	1982	130	969	0	Gravel/Sand	None	19
P-2919	8	DICL	2001	100	622	0	Gravel/Sand	None	11
P-2923	8	DICL	2001	100	574	0	Gravel/Sand	None	11
P-2924	12	DICL	2001	130	850	0	Gravel/Sand	None	4
P-2926	8	DI	2001	100	1,243	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2929	8	DICL	2001	100	454	0	Gravel/Sand	None	11
P-2934	8	DI	2001	100	1,668	0	Gravel/Sand	None	11
P-2935	16	DI	1999	130	532	0	Gravel/Sand	None	4
P-2936	16	DICL	1999	130	326	0	Gravel/Sand	None	4
P-2937(1)	8	DI	2001	100	456	0	Gravel/Sand	None	11
P-2937(2)	8	DI	2001	100	377	0	Gravel/Sand	None	11
P-2939	8	DICL	1999	100	441	0	Gravel/Sand	None	12
P-2940	16	DI	1999	130	931	0	Gravel/Sand	None	4
P-2941	16	DICL	1999	130	545	0	Gravel/Sand	None	4
P-2942	8	DICL	1999	100	727	0	Gravel/Sand	None	12
P-2943	16	DICL	1999	130	629	0	Gravel/Sand	None	4
P-2945	8	DI	1999	100	654	0	Gravel/Sand	None	12
P-2946	12	DICL	2001	130	449	0	Gravel/Sand	None	4
P-2948	8	DI	2001	100	1,161	0	Gravel/Sand	None	11
P-2949	12	DICL	2001	130	565	0	Gravel/Sand	None	4
P-2950	12	DICL	2001	130	289	0	Gravel/Sand	None	4
P-2951	8	DI	2001	100	981	0	Gravel/Sand	None	11
P-2952	8	DICL	2001	100	518	0	Gravel/Sand	None	11
P-2954	16	DICL	1997	130	712	0	Gravel/Sand	None	4
P-2955(1)	8	DI	1997	110	628	0	Gravel/Sand	None	12
P-2955(2)	8	DI	1997	110	454	0	Gravel/Sand	None	12
P-2956	16	DICL	1997	130	526	0	Gravel/Sand	None	4
P-2957	16	DI	1999	130	2,244	0	Gravel/Sand	None	4
P-2958	8	DI	1997	100	669	0	Gravel/Sand	None	12
P-2960	16	DICL	1999	130	363	0	Gravel/Sand	None	4
P-2961	16	DI	1999	130	1,156	0	Gravel/Sand	None	4
P-2962	16	DICL	1999	130	465	0	Gravel/Sand	None	4
P-2963	8	DI	1999	100	1,048	0	Gravel/Sand	None	12

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-2965	12	PVC	1989	130	369	0	Gravel/Sand	None	7
P-2966	8	PVC	1989	100	1,247	0	Gravel/Sand	None	14
P-2967	12	PVC	1989	110	675	0	Gravel/Sand	None	7
P-2968	12	PVC	1989	110	620	0	Gravel/Sand	None	7
P-2969	8	DI	1995	100	2,173	1	Gravel/Sand	None	15
P-2971	8	DI	1997	100	2,499	0	Gravel/Sand	None	12
P-2973	8	PVC	1993	100	736	0	Gravel/Sand	None	12
P-2974	8	PVC	1993	100	593	0	Gravel/Sand	None	12
P-2975	8	PVC	1993	100	1,115	0	Gravel/Sand	None	12
P-2976	8	PVC	1989	100	694	0	Gravel/Sand	None	14
P-2977	8	PVC	1993	100	1,074	0	Gravel/Sand	None	12
P-2978	8	PVC	1989	100	1,497	0	Gravel/Sand	None	14
P-2980	12	PVC	1989	130	392	0	Gravel/Sand	None	7
P-2981	8	PVC	1989	100	1,024	0	Gravel/Sand	None	14
P-2982	8	DI	2006	100	1,597	0	Gravel/Sand	None	11
P-2985	8	DICL	2001	100	542	0	Gravel/Sand	None	11
P-2988	8	DI	2001	100	794	0	Gravel/Sand	None	11
P-2989	16	DICL	2001	130	441	0	Gravel/Sand	None	3
P-2991	8	DICL	2001	100	333	0	Gravel/Sand	None	11
P-2992	16	DI	1997	130	1,082	0	Gravel/Sand	None	4
P-2994	8	DICL	2002	100	688	0	Gravel/Sand	None	11
P-2995	16	DICL	1997	130	139	0	Gravel/Sand	None	4
P-2996	16	DI	1997	130	610	0	Gravel/Sand	None	4
P-2997	8	DICL	1997	100	325	0	Gravel/Sand	None	12
P-2998	8	PVC	1988	100	805	0	Gravel/Sand	None	14
P-2999	12	DI	1997	130	1,300	0	Gravel/Sand	None	5
P-3002	8	DICL	1997	100	250	0	Gravel/Sand	None	12
P-3003	8	DI	1997	100	1,381	0	Gravel/Sand	None	12

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3004	8	DI	1997	100	2,076	0	Gravel/Sand	None	12
P-3007	8	DI	1993	100	733	0	Gravel/Sand	None	12
P-3010	8	PVC	1988	100	496	0	Gravel/Sand	None	14
P-3012	8	DICL	2006	100	195	0	Gravel/Sand	None	11
P-3013	12	PVC	1983	100	1,402	0	Gravel/Sand	None	7
P-3014	12	PVC	1983	100	788	0	Gravel/Sand	None	7
P-3016	8	Asbestos Cement	1968	110	1,160	0	Gravel/Sand	None	34
P-3018	6	Asbestos Cement	1957	100	844	0	Gravel/Sand	None	52
P-3022	8	ACBIT	1981	100	211	0	Gravel/Sand	None	27
P-3023	6	ACBIT	1981	100	516	0	Gravel/Sand	None	32
P-3024	6	ACBIT	1981	100	427	0	Gravel/Sand	None	32
P-3026(1)	8	PVC	1988	100	474	0	Gravel/Sand	None	14
P-3026(2)	8	DICL	1998	100	202	0	Gravel/Sand	None	12
P-3028	8	DICL	2001	100	325	0	Gravel/Sand	None	11
P-3029	8	Asbestos Cement	1975	120	769	0	Gravel/Sand	None	29
P-3035	8	Asbestos Cement	1960	110	259	0	Gravel/Sand	None	34
P-3038	8	CI	1914	70	437	0	Gravel/Sand	None	49
P-3039	8	CI	1914	70	505	0	Gravel/Sand	None	49
P-3040	8	CI	1914	70	1,099	0	Gravel/Sand	None	49
P-3042	6	CI	1933	50	658	0	Gravel/Sand	None	60
P-3043	6	CI	1922	50	2,736	0	Gravel/Sand	None	53
P-3044	6	CI	1922	50	667	0	Gravel/Sand	None	53
P-3045	10	Asbestos Cement	1954	115	204	0	Identified corrosive soil	None	45
P-3047	10	Asbestos Cement	1954	115	914	0	Identified corrosive soil	None	45
P-3048	10	Asbestos Cement	1954	115	1,952	0	Identified corrosive soil	None	45
P-3053	6	Asbestos Cement	1965	110	461	0	Gravel/Sand	None	39
P-3055	6	Asbestos Cement	1965	110	649	0	Gravel/Sand	None	39
P-3056	6	Asbestos Cement	1965	110	492	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3058	12	Asbestos Cement	1962	125	463	0	Gravel/Sand	None	27
P-3059	12	Asbestos Cement	1962	125	1,196	0	Gravel/Sand	None	27
P-3060	12	Asbestos Cement	1962	125	1,314	0	Gravel/Sand	None	27
P-3061	12	Asbestos Cement	1974	100	135	0	Gravel/Sand	None	22
P-3062	12	Asbestos Cement	1974	100	642	0	Gravel/Sand	None	22
P-3063	8	PVC	1986	120	1,146	0	Gravel/Sand	None	14
P-3064	8	DICL	2006	140	455	0	Gravel/Sand	Taste/Odor	11
P-3066	8	DI	2006	140	718	0	Gravel/Sand	Taste/Odor	11
P-3068	12	DI	1989	130	509	0	Gravel/Sand	None	7
P-3070	12	DI	1989	130	409	0	Gravel/Sand	None	7
P-3071	12	DICL	1989	130	305	0	Gravel/Sand	None	7
P-3074	12	DI	1993	130	627	0	Gravel/Sand	None	5
P-3075	12	DICL	1993	130	687	0	Gravel/Sand	None	5
P-3076	12	PVC	1983	100	333	0	Gravel/Sand	None	7
P-3078	12	PVC	1983	100	512	0	Gravel/Sand	None	7
P-3079	12	PVC	1983	100	749	0	Gravel/Sand	None	7
P-3082	12	PVC	1986	120	423	0	Gravel/Sand	None	7
P-3083	12	PVC	1986	120	459	0	Gravel/Sand	None	7
P-3087	12	PVC	1989	100	801	0	Gravel/Sand	None	7
P-3088	10	PVC	1988	110	135	0	Gravel/Sand	None	7
P-3090	10	Asbestos Cement	1968	110	208	0	Gravel/Sand	None	28
P-3091	10	Asbestos Cement	1968	110	504	0	Gravel/Sand	None	28
P-3093	8	PVC	1982	120	376	0	Gravel/Sand	None	14
P-3096	10	CI	1904	60	307	0	Gravel/Sand	None	44
P-3097	10	CI	1904	60	433	0	Gravel/Sand	None	44
P-3098	12	DICL	1986	130	48	0	Gravel/Sand	None	7
P-3103	16	Asbestos Cement	1959	125	448	0	Gravel/Sand	None	26
P-3107	12	Asbestos Cement	1962	125	482	0	Gravel/Sand	None	27

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3108	20	CICL	1959	100	104	0	Gravel/Sand	None	15
P-3111	12	DI	1997	110	1,969	0	Gravel/Sand	None	5
P-3113	12	DI	1996	110	1,090	0	Gravel/Sand	None	5
P-3114	12	DI	1997	110	1,029	0	Gravel/Sand	None	5
P-3115	8	DICL	1998	80	413	0	Gravel/Sand	None	12
P-3116	12	DI	1998	130	679	0	Gravel/Sand	None	5
P-3117	8	DI	2002	80	1,506	0	Gravel/Sand	None	11
P-3118	8	DICL	1997	80	208	0	Gravel/Sand	None	12
P-3119	12	PVC	1989	130	2,115	0	Gravel/Sand	None	7
P-3122	12	PVC	1989	130	166	0	Gravel/Sand	None	7
P-3123	12	PVC	1989	130	448	0	Gravel/Sand	None	7
P-3125	8	PVC	1989	100	1,575	0	Gravel/Sand	None	14
P-3126	8	PVC	1989	100	1,544	0	Gravel/Sand	None	14
P-3127	8	PVC	1989	80	557	0	Gravel/Sand	None	14
P-3129	12	DI	1992	130	886	0	Gravel/Sand	None	5
P-3132	12	PVC	1986	130	532	0	Gravel/Sand	None	7
P-3133	12	PVC	1986	130	36	0	Gravel/Sand	None	7
P-3134	8	PVC	1983	100	1,874	0	Gravel/Sand	None	14
P-3135	12	PVC	1993	100	232	0	Gravel/Sand	None	5
P-3136	12	DICL	1985	120	31	0	Gravel/Sand	None	7
P-3137	12	DI	1984	120	2,701	0	Gravel/Sand	None	7
P-3138	12	DICL	1985	80	1,697	0	Gravel/Sand	None	7
P-3143	12	DICL	2006	130	138	0	Gravel/Sand	None	4
P-3144	12	DICL	2005	130	146	0	Gravel/Sand	None	4
P-3146	12	DICL	2006	130	147	0	Gravel/Sand	None	4
P-3147	12	DI	2006	130	142	0	Gravel/Sand	None	4
P-3148	8	PVC	1990	100	733	0	Gravel/Sand	None	12
P-3149	8	PVC	1990	100	20	0	Gravel/Sand	None	12

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Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3150	8	DI	1992	100	351	0	Gravel/Sand	None	12
P-3151	8	DI	1992	100	601	0	Gravel/Sand	None	12
P-3156	16	Asbestos Cement	1959	125	455	0	Gravel/Sand	None	26
P-3157	16	Asbestos Cement	1959	125	127	0	Gravel/Sand	None	26
P-3161	6	Asbestos Cement	1964	100	789	0	Gravel/Sand	None	39
P-3162	6	Asbestos Cement	1958	80	189	0	Gravel/Sand	None	52
P-3165	12	Asbestos Cement	1974	100	410	0	Gravel/Sand	None	22
P-3166	12	Asbestos Cement	1974	100	10	0	Gravel/Sand	None	22
P-3167	8	DICL	2007	80	22	0	Gravel/Sand	None	11
P-3168	8	DICL	2005	80	262	0	Gravel/Sand	None	11
P-3169	8	DICL	2007	80	335	0	Gravel/Sand	None	11
P-3170	8	DICL	2005	80	515	0	Gravel/Sand	None	11
P-3171	8	DICL	2005	80	59	0	Gravel/Sand	None	11
P-3172	8	DICL	2005	80	122	0	Gravel/Sand	None	11
P-3173	8	Asbestos Cement	1974	100	668	0	Gravel/Sand	None	29
P-3174	8	Asbestos Cement	1974	100	435	0	Gravel/Sand	None	29
P-3175	6	PVC	1991	80	232	0	Gravel/Sand	None	17
P-3176	6	CI	1922	80	1,311	0	Gravel/Sand	None	53
P-3178(1)	6	Asbestos Cement	1959	80	17	0	Gravel/Sand	None	39
P-3178(2)	6	Asbestos Cement	1959	80	1,212	0	Gravel/Sand	None	39
P-3182(1)	8	DICL	2011	100	124	0	Gravel/Sand	None	11
P-3182(2)(1)	6	Asbestos Cement	1966	100	2,073	0	Gravel/Sand	None	39
P-3182(2)(2)	8	DICL	2007	100	47	0	Gravel/Sand	None	11
P-3185	6	CI	1922	80	316	0	Gravel/Sand	None	53
P-3186	6	CI	1922	80	229	0	Gravel/Sand	None	53
P-3187	6	CI	1922	80	237	0	Gravel/Sand	None	53
P-3190	6	Asbestos Cement	1976	80	360	0	Gravel/Sand	None	34
P-3191	2	PVC	1976	80	148	0	Gravel/Sand	None	31

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3192	2	PVC	1976	80	119	0	Gravel/Sand	None	31
P-3194	8	PVC	1984	100	548	0	Gravel/Sand	None	14
P-3195	12	Asbestos Cement	1974	100	12	0	Gravel/Sand	None	22
P-3196(1)	12	Asbestos Cement	1974	100	136	0	Gravel/Sand	None	22
P-3196(2)	12	Asbestos Cement	1974	100	277	0	Gravel/Sand	None	22
P-3199	6	CI	1922	80	431	0	Gravel/Sand	None	53
P-3201	6	PVC	1984	100	530	0	Gravel/Sand	None	19
P-3202(1)	6	Asbestos Cement	1970	100	1,294	0	Gravel/Sand	None	34
P-3202(2)	6	Asbestos Cement	1970	100	27	0	Gravel/Sand	None	34
P-3203	6	Asbestos Cement	1970	80	120	0	Gravel/Sand	None	34
P-3204	6	CI	1922	80	147	0	Gravel/Sand	None	53
P-3206(1)	6	Asbestos Cement	1970	80	27	0	Gravel/Sand	None	34
P-3206(2)	6	Asbestos Cement	1970	80	1,131	0	Gravel/Sand	None	34
P-3209	6	CI	1922	80	306	0	Gravel/Sand	None	53
P-3212	8	Asbestos Cement	1973	100	20	0	Gravel/Sand	None	29
P-3214	12	Asbestos Cement	1974	100	18	0	Gravel/Sand	None	22
P-3215	12	Asbestos Cement	1974	100	152	0	Gravel/Sand	None	22
P-3216	8	Asbestos Cement	1973	80	19	0	Gravel/Sand	None	29
P-3217	8	Asbestos Cement	1974	100	527	0	Gravel/Sand	Other	29
P-3218(1)	8	DICL	1996	100	416	0	Gravel/Sand	None	12
P-3218(2)	8	Asbestos Cement	1973	100	635	0	Gravel/Sand	None	29
P-3220	8	Asbestos Cement	1974	80	375	0	Gravel/Sand	Other	29
P-3221	6	Asbestos Cement	1974	80	307	0	Gravel/Sand	Other	34
P-3222	12	Asbestos Cement	1974	100	179	0	Gravel/Sand	None	22
P-3223(1)	12	Asbestos Cement	1974	100	237	0	Gravel/Sand	None	22
P-3223(2)(1)	12	Asbestos Cement	1974	100	444	0	Gravel/Sand	None	22
P-3223(2)(2)	12	Asbestos Cement	1974	100	185	0	Gravel/Sand	None	22
P-3226(1)	6	Asbestos Cement	1968	80	31	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3226(2)	6	Asbestos Cement	1968	80	532	0	Gravel/Sand	None	39
P-3227	8	PVC	1986	80	455	0	Gravel/Sand	None	14
P-3228	6	CI	1922	80	415	0	Gravel/Sand	None	53
P-3229	6	CI	1922	80	384	0	Gravel/Sand	None	53
P-3230(1)	6	Asbestos Cement	1963	80	18	0	Gravel/Sand	None	39
P-3230(2)	6	Asbestos Cement	1963	80	413	0	Gravel/Sand	None	39
P-3231	6	Asbestos Cement	1963	80	534	0	Gravel/Sand	None	39
P-3233(1)	6	Asbestos Cement	1971	100	34	0	Gravel/Sand	None	34
P-3233(2)	6	Asbestos Cement	1971	100	952	0	Gravel/Sand	None	34
P-3234	6	CI	1922	80	978	0	Gravel/Sand	None	53
P-3236(1)	6	CI	1922	80	856	0	Gravel/Sand	None	53
P-3238	6	Asbestos Cement	1967	80	1,031	0	Gravel/Sand	None	39
P-3240	8	DI	2007	100	995	0	Gravel/Sand	None	11
P-3241	12	Asbestos Cement	1974	100	338	0	Gravel/Sand	None	22
P-3242	12	Asbestos Cement	1974	100	121	0	Gravel/Sand	None	22
P-3243	6	PVC	1983	80	486	0	Gravel/Sand	None	19
P-3246	12	Asbestos Cement	1974	125	29	0	Gravel/Sand	None	22
P-3250	12	Asbestos Cement	1976	125	4	0	Gravel/Sand	None	22
P-3251	12	Asbestos Cement	1976	125	314	0	Gravel/Sand	None	22
P-3252	6	CICL	1976	80	22	0	Gravel/Sand	None	24
P-3258	6	DICL	2008	100	307	0	Gravel/Sand	None	16
P-3260	6	CI	1922	100	45	0	Gravel/Sand	None	53
P-3263	2	WICL	1965	80	465	0	Gravel/Sand	None	53
P-3264	2	WICL	1965	80	112	0	Gravel/Sand	None	53
P-3266	8	PVC	1983	100	689	0	Gravel/Sand	None	14
P-3267	12	Asbestos Cement	1954	120	14	0	Gravel/Sand	None	40
P-3268	12	Asbestos Cement	1954	120	378	0	Gravel/Sand	None	40
P-3269	6	Asbestos Cement	1958	100	259	0	Gravel/Sand	None	52

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3271	6	Asbestos Cement	1965	100	911	0	Gravel/Sand	None	39
P-3272	6	Asbestos Cement	1965	100	193	0	Gravel/Sand	None	39
P-3273	6	Asbestos Cement	1965	80	555	0	Gravel/Sand	None	39
P-3274	12	DICL	2006	120	480	0	Gravel/Sand	None	4
P-3275(1)	12	DI	2006	120	492	0	Gravel/Sand	None	4
P-3275(2)(1)	12	DI	2006	120	245	0	/ corrosive soil (wetlands or	None	9
P-3275(2)(2)	12	DI	2006	120	586	0	Gravel/Sand	None	4
P-3276	8	DICL	2006	110	43	0	Gravel/Sand	None	11
P-3279	8	PVC	1983	110	189	0	Gravel/Sand	None	14
P-3281	8	Asbestos Cement	1979	100	216	0	Gravel/Sand	None	29
P-3282	8	Asbestos Cement	1976	110	237	0	Gravel/Sand	None	29
P-3283	8	Asbestos Cement	1979	100	525	0	Gravel/Sand	None	29
P-3284	8	Asbestos Cement	1979	100	234	0	Gravel/Sand	None	29
P-3285	8	Asbestos Cement	1975	110	268	0	Gravel/Sand	None	29
P-3286	6	DICL	1992	100	37	0	Gravel/Sand	None	17
P-3287	6	DICL	1992	100	380	0	Gravel/Sand	None	17
P-3288	12	DICL	2006	130	328	0	Gravel/Sand	None	4
P-3289	12	DI	2006	130	324	0	Gravel/Sand	None	4
P-3290	8	DICL	2006	110	13	0	Gravel/Sand	None	11
P-3291	12	DI	2006	130	1,156	0	Gravel/Sand	None	4
P-3292	12	DICL	2006	130	302	0	Gravel/Sand	None	4
P-3293	2	WICL	1958	110	234	0	Gravel/Sand	None	66
P-3295	16	Asbestos Cement	1959	125	523	0	Gravel/Sand	None	26
P-3296	8	PVC	1986	110	774	0	Gravel/Sand	None	14
P-3297	16	DI	2006	125	231	0	Gravel/Sand	None	3
P-3298	16	Asbestos Cement	1959	125	415	0	Gravel/Sand	None	26
P-3300	8	DICL	1990	110	286	0	Gravel/Sand	None	12
P-3301	8	DICL	1990	110	102	0	Gravel/Sand	None	12

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Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3303	6	DI	2012	110	961	0	Gravel/Sand	None	16
P-3306	20	DICL	2006	100	56	0	Other	None	6
P-3308	12	Asbestos Cement	1957	125	183	0	Gravel/Sand	None	40
P-3309	8	DICL	2006	110	40	0	Gravel/Sand	None	11
P-3310	6	Asbestos Cement	1964	100	371	0	Gravel/Sand	None	39
P-3311	20	CICL	1959	100	278	0	Gravel/Sand	None	15
P-3312	20	CICL	1959	100	373	0	Other	None	19
P-3313	8	DICL	2006	110	45	0	Other	None	15
P-3314(1)	2	WICL	1948	100	376	0	Other	None	70
P-3314(2)	6	ACBIT	1982	100	481	0	Other	None	35
P-3315	8	DICL	2006	60	55	0	Gravel/Sand	None	11
P-3318(1)	16	DI	2019	120	14	0	Gravel/Sand	None	3
P-3318(2)	16	DI	2019	120	16	0	Gravel/Sand	None	3
P-3323(1)	8	DI	2019	110	31	0	Gravel/Sand	None	11
P-3323(2)	6	CIBIT	1934	110	3,655	0	Gravel/Sand	None	44
P-3324	20	CICL	1959	100	334	0	Gravel/Sand	None	15
P-3325	20	CICL	1959	100	927	0	Gravel/Sand	None	15
P-3326	8	DICL	1998	110	372	0	Gravel/Sand	None	12
P-3328	20	Asbestos Cement	1972	100	27	0	Gravel/Sand	None	20
P-3329	8	PVC	1987	110	686	0	Gravel/Sand	None	14
P-3330	20	CICL	1959	100	686	0	Gravel/Sand	None	15
P-3331	20	CICL	1959	100	290	0	Gravel/Sand	None	15
P-3332	8	Asbestos Cement	1972	110	2,889	0	Gravel/Sand	None	29
P-3333	20	CICL	1965	80	1,245	0	Gravel/Sand	None	15
P-3334	20	CICL	1965	80	93	0	Gravel/Sand	None	15
P-3335	8	DICL	2003	110	597	0	Gravel/Sand	None	11
P-3336	8	PVC	1987	110	554	0	Gravel/Sand	None	14
P-3337	8	PVC	1987	110	499	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3338	8	PVC	1987	110	593	0	Gravel/Sand	None	14
P-3339	8	PVC	1987	110	217	0	Gravel/Sand	None	14
P-3340	8	PVC	1987	110	423	0	Gravel/Sand	None	14
P-3343	8	CICL	1948	50	17	0	Gravel/Sand	None	38
P-3346	8	CI	1931	50	1,276	1	Gravel/Sand	None	58
P-3347	8	DI	1999	110	817	0	Gravel/Sand	None	12
P-3348	8	CICL	1948	50	9	0	Gravel/Sand	None	38
P-3349	8	CI	1931	50	691	0	Gravel/Sand	None	55
P-3351	20	CICL	1959	80	92	0	Gravel/Sand	None	15
P-3353	8	CICL	1959	110	42	0	Gravel/Sand	None	24
P-3356	20	CICL	1959	80	612	0	Gravel/Sand	None	15
P-3357	8	PVC	1994	110	387	0	Gravel/Sand	None	12
P-3360	20	CICL	1959	80	98	0	Gravel/Sand	None	15
P-3361	20	CICL	1959	80	2,116	0	Gravel/Sand	None	15
P-3363	6	Asbestos Cement	1964	120	244	0	Gravel/Sand	None	39
P-3364	8	PVC	1987	110	187	0	Gravel/Sand	None	14
P-3365	6	PVC	1987	100	269	0	Gravel/Sand	None	19
P-3366	20	Asbestos Cement	1971	120	12	0	Gravel/Sand	None	20
P-3367	20	CICL	1959	120	25	0	Gravel/Sand	None	15
P-3368	8	Asbestos Cement	1979	110	1,018	0	Gravel/Sand	None	29
P-3370	6	Asbestos Cement	1979	110	431	0	Gravel/Sand	None	34
P-3371	8	Asbestos Cement	1979	110	436	0	Gravel/Sand	None	29
P-3372	6	Asbestos Cement	1980	110	105	0	Gravel/Sand	None	32
P-3373	8	DICL	2005	110	6	0	Gravel/Sand	None	11
P-3374	12	Asbestos Cement	1971	120	1,338	0	Gravel/Sand	None	22
P-3376	20	CICL	1959	90	2,431	0	Gravel/Sand	None	15
P-3377	12	DI	1984	120	1,200	0	Gravel/Sand	None	7
P-3378	12	Asbestos Cement	1959	120	1,440	0	Gravel/Sand	None	27

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3379	2	WICL	1969	100	191	0	Gravel/Sand	None	53
P-3380	8	Asbestos Cement	1965	100	215	0	Gravel/Sand	None	34
P-3381	8	Asbestos Cement	1965	100	454	0	Gravel/Sand	None	34
P-3382	2	WICL	1965	80	191	0	Gravel/Sand	None	53
P-3383	6	Asbestos Cement	1965	100	549	0	Gravel/Sand	None	39
P-3384	6	Asbestos Cement	1965	100	235	0	Gravel/Sand	None	39
P-3385	8	PVC	1987	110	1,223	0	Gravel/Sand	None	14
P-3386	12	PVC	1990	130	833	0	Gravel/Sand	None	5
P-3387	12	PVC	1986	130	678	0	Gravel/Sand	None	7
P-3388	8	DI	1997	110	654	0	Gravel/Sand	None	12
P-3396	8	PVC	1988	110	562	0	Gravel/Sand	None	14
P-3397	8	DICL	1999	110	294	0	Gravel/Sand	None	12
P-3398	12	Asbestos Cement	1971	120	519	0	Gravel/Sand	None	22
P-3399	12	DI	2007	120	1,388	0	Gravel/Sand	None	4
P-3400	12	DICL	2005	120	311	0	Other	None	8
P-3401	8	DI	2005	110	632	0	Other	None	15
P-3402	8	DICL	2005	110	285	0	Other	None	15
P-3403	8	DI	2005	110	805	0	Other	None	15
P-3404	8	DICL	2006	110	235	0	Other	None	15
P-3405	8	DI	2006	110	510	0	Other	None	15
P-3406	16	DICL	1986	130	418	0	Gravel/Sand	None	6
P-3407	16	DI	1988	130	719	0	Gravel/Sand	None	6
P-3408	16	DICL	1988	120	34	0	Gravel/Sand	None	6
P-3409	8	PVC	1987	110	198	0	Gravel/Sand	None	14
P-3410	8	PVC	1987	110	1,027	0	Gravel/Sand	None	14
P-3411	8	PVC	1987	110	297	0	Gravel/Sand	None	14
P-3412	8	PVC	1985	110	950	0	Gravel/Sand	None	14
P-3413	12	PVC	1985	130	1,311	0	Gravel/Sand	None	7

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Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3414	12	PVC	1985	130	117	0	Gravel/Sand	None	7
P-3415	8	PVC	1988	110	958	0	Gravel/Sand	None	14
P-3416	8	PVC	1988	100	829	0	Gravel/Sand	None	14
P-3417(1)	8	DI	1996	100	716	0	Gravel/Sand	None	12
P-3417(2)	8	PVC	1985	100	492	0	Gravel/Sand	None	14
P-3418	8	DICL	1996	110	119	0	Gravel/Sand	None	12
P-3419	8	PVC	1985	100	376	0	Gravel/Sand	None	14
P-3421	6	PVC	1985	100	494	0	Gravel/Sand	None	19
P-3422	8	PVC	1985	100	378	0	Gravel/Sand	None	14
P-3424	8	PVC	1985	110	105	0	Gravel/Sand	None	14
P-3425	8	PVC	1985	100	462	0	Gravel/Sand	None	14
P-3426	8	PVC	1984	100	573	0	Gravel/Sand	None	14
P-3427	8	PVC	1985	110	547	0	Gravel/Sand	None	14
P-3428	8	PVC	1984	100	468	0	Gravel/Sand	None	14
P-3429	8	PVC	1984	100	374	0	Gravel/Sand	None	14
P-3430	8	PVC	1984	110	664	0	Gravel/Sand	None	14
P-3431	16	DI	2002	130	2,458	0	Gravel/Sand	None	3
P-3433	20	CICL	1965	80	34	0	Gravel/Sand	None	15
P-3435	8	PVC	1984	100	728	0	Gravel/Sand	None	14
P-3436	8	PVC	1984	100	561	0	Gravel/Sand	None	14
P-3437	8	PVC	1986	110	567	0	Gravel/Sand	None	14
P-3438	12	DICL	2002	120	30	0	Gravel/Sand	None	4
P-3439	8	CICL	1948	100	2,803	0	Gravel/Sand	None	38
P-3441	8	PVC	1993	110	624	0	Gravel/Sand	None	12
P-3442	8	CICL	1948	100	598	0	Gravel/Sand	None	38
P-3444	12	Asbestos Cement	1977	130	1,075	0	Gravel/Sand	None	22
P-3445	12	Asbestos Cement	1977	130	73	0	Gravel/Sand	None	22
P-3446	2	WICL	1955	100	1,356	0	Gravel/Sand	None	66

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3448	8	DI	2001	100	707	0	Gravel/Sand	None	11
P-3449	20	CICL	1965	80	10	0	Gravel/Sand	None	15
P-3451	6	PVC	1986	100	140	0	Gravel/Sand	None	19
P-3452	6	PVC	1986	100	139	0	Gravel/Sand	None	19
P-3453	6	PVC	1986	100	124	0	Gravel/Sand	None	19
P-3454	6	PVC	1986	100	84	0	Gravel/Sand	None	19
P-3455	6	PVC	1986	100	174	0	Gravel/Sand	None	19
P-3456	20	CICL	1965	80	249	0	Gravel/Sand	None	15
P-3457	20	CICL	1965	80	267	0	Gravel/Sand	None	15
P-3458	8	Asbestos Cement	1973	110	620	0	Gravel/Sand	None	29
P-3459	6	Asbestos Cement	1973	100	497	0	Gravel/Sand	None	34
P-3460	20	CICL	1965	80	1,178	0	Gravel/Sand	None	15
P-3461	20	CICL	1965	80	190	0	Gravel/Sand	None	15
P-3462	2	GSCL	1972	100	251	0	Gravel/Sand	None	46
P-3463	12	Asbestos Cement	1966	130	288	0	Gravel/Sand	None	27
P-3464	12	Asbestos Cement	1966	130	38	0	Gravel/Sand	None	27
P-3465	6	Asbestos Cement	1966	100	814	0	Gravel/Sand	None	39
P-3466	6	Asbestos Cement	1966	100	11	0	Gravel/Sand	None	39
P-3467	6	PVC	1986	80	283	0	Gravel/Sand	None	19
P-3468	8	DICL	2003	120	23	0	Gravel/Sand	None	11
P-3470	12	PVC	1986	130	1,355	0	Gravel/Sand	None	7
P-3471	8	DICL	2004	110	214	0	Gravel/Sand	None	11
P-3472	12	PVC	1986	130	586	0	Gravel/Sand	None	7
P-3473	12	PVC	1986	130	446	0	Gravel/Sand	None	7
P-3474	8	DICL	2001	110	277	0	Gravel/Sand	None	11
P-3475	16	Asbestos Cement	1965	125	508	0	Gravel/Sand	None	26
P-3476	16	Asbestos Cement	1965	125	1,201	0	Gravel/Sand	None	26
P-3477	6	CICL	1965	100	36	0	Gravel/Sand	None	29

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3478	8	Asbestos Cement	1977	100	301	0	Gravel/Sand	None	29
P-3479	8	Asbestos Cement	1978	100	1,639	0	Gravel/Sand	None	29
P-3480	8	Asbestos Cement	1977	110	357	0	Gravel/Sand	Other	29
P-3481	12	Asbestos Cement	1970	140	296	0	Gravel/Sand	None	22
P-3482	12	Asbestos Cement	1970	140	391	0	Gravel/Sand	None	22
P-3483	16	Asbestos Cement	1965	125	84	0	Gravel/Sand	None	26
P-3484	16	Asbestos Cement	1965	125	529	1	Gravel/Sand	None	29
P-3485	6	Asbestos Cement	1975	100	343	0	Gravel/Sand	None	34
P-3487	16	Asbestos Cement	1965	130	250	0	Gravel/Sand	None	26
P-3488	2	WICL	1965	80	302	0	Gravel/Sand	None	53
P-3489	16	DI	1997	130	607	0	Gravel/Sand	None	4
P-3490	16	DI	1997	130	534	0	Gravel/Sand	None	4
P-3491	8	DICL	1997	110	550	0	Gravel/Sand	None	12
P-3492	16	Asbestos Cement	1969	125	562	0	Gravel/Sand	None	26
P-3493	16	Asbestos Cement	1969	125	2,660	0	Gravel/Sand	None	26
P-3494	16	Asbestos Cement	1980	125	12	0	Gravel/Sand	None	19
P-3496	6	Asbestos Cement	1980	100	14	0	Gravel/Sand	None	32
P-3497	6	Asbestos Cement	1965	100	12	0	Gravel/Sand	None	39
P-3498	6	Asbestos Cement	1980	100	23	0	Gravel/Sand	None	32
P-3500	6	Asbestos Cement	1980	100	9	0	Gravel/Sand	None	32
P-3501	16	Asbestos Cement	1965	125	299	0	Gravel/Sand	None	26
P-3502	16	Asbestos Cement	1965	125	649	0	Gravel/Sand	None	26
P-3503	2	GSCL	1972	80	239	0	Gravel/Sand	None	46
P-3504	8	PVC	1987	100	957	0	Gravel/Sand	None	14
P-3505	8	PVC	1987	100	73	0	Gravel/Sand	None	14
P-3506	8	PVC	1987	110	291	0	Gravel/Sand	None	14
P-3507	12	Asbestos Cement	1975	120	1,161	0	Gravel/Sand	None	22
P-3508	8	Asbestos Cement	1977	110	97	0	Gravel/Sand	None	29

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P-3509	8	PVC	1987	110	627	0	Gravel/Sand	None	14
P-3510	16	DICL	1987	120	265	0	Gravel/Sand	None	6
P-3511	8	PVC	1986	100	397	0	Gravel/Sand	None	14
P-3513	8	PVC	1986	110	480	0	Gravel/Sand	None	14
P-3514	12	PVC	1986	120	731	0	Gravel/Sand	None	7
P-3515	12	PVC	1986	120	2,026	0	Gravel/Sand	None	7
P-3516	8	PVC	1986	110	199	0	Gravel/Sand	None	14
P-3517	12	PVC	1986	120	51	0	Gravel/Sand	None	7
P-3518	12	DICL	2007	120	31	0	Gravel/Sand	None	4
P-3519	16	DICL	2007	120	245	0	Gravel/Sand	None	3
P-3520	16	DICL	2007	120	12	0	Gravel/Sand	None	3
P-3521	12	PVC	1986	130	369	0	Gravel/Sand	Dirty Water	7
P-3523	12	PVC	1986	130	129	0	Gravel/Sand	Dirty Water	7
P-3524	12	PVC	1986	130	186	0	Gravel/Sand	Dirty Water	7
P-3525	8	PVC	1986	100	2,588	0	Gravel/Sand	None	14
P-3526	8	PVC	1986	100	473	0	Gravel/Sand	None	14
P-3527	8	PVC	1986	100	320	0	Gravel/Sand	None	14
P-3528	8	PVC	1987	100	1,709	0	Gravel/Sand	None	14
P-3529	8	PVC	1986	110	504	0	Gravel/Sand	None	14
P-3530	8	PVC	1986	110	15	0	Gravel/Sand	None	14
P-3531	8	PVC	1986	110	409	0	Gravel/Sand	Dirty Water	14
P-3532	12	DI	1989	130	1,483	0	Gravel/Sand	None	7
P-3533(1)	12	DICL	1989	130	71	0	Gravel/Sand	None	7
P-3533(2)	12	DICL	1989	130	637	0	Gravel/Sand	None	7
P-3534	8	PVC	1989	110	79	0	Gravel/Sand	None	14
P-3535	12	PVC	1986	120	2,867	0	Gravel/Sand	Dirty Water	7
P-3536	12	DICL	1986	120	20	0	Gravel/Sand	None	7
P-3537	12	PVC	1986	110	35	0	Gravel/Sand	None	7

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3539	8	PVC	1986	100	450	0	Gravel/Sand	None	14
P-3540	8	PVC	1986	100	609	0	Gravel/Sand	None	14
P-3541	8	PVC	1986	100	607	0	Gravel/Sand	None	14
P-3542	12	PVC	1986	130	22	0	Gravel/Sand	None	7
P-3543	12	PVC	1986	130	302	0	Gravel/Sand	None	7
P-3544(1)	8	Asbestos Cement	1979	100	1,265	0	Gravel/Sand	None	29
P-3544(2)	8	DI	2001	100	544	0	Gravel/Sand	None	11
P-3545	8	PVC	1993	100	792	0	Gravel/Sand	None	12
P-3546	8	DICL	2001	110	723	0	Gravel/Sand	None	11
P-3547	16	DI	1986	130	825	0	Gravel/Sand	None	6
P-3548	16	DICL	1986	130	85	0	Gravel/Sand	None	6
P-3549	8	PVC	1994	80	198	0	Gravel/Sand	None	12
P-3551	16	DI	1986	130	2,166	0	Gravel/Sand	None	6
P-3552	8	DICL	2002	80	374	0	Gravel/Sand	None	11
P-3553	12	DI	1991	130	1,709	0	Gravel/Sand	None	5
P-3555	8	DI	1991	80	847	0	Gravel/Sand	None	12
P-3556	12	DICL	1991	130	395	0	Gravel/Sand	None	5
P-3558	12	DICL	1991	130	86	0	Gravel/Sand	None	5
P-3559	12	DICL	1991	130	397	0	Gravel/Sand	None	5
P-3560	12	DICL	1991	130	112	0	Gravel/Sand	None	5
P-3561	8	DICL	1992	80	292	0	Gravel/Sand	None	12
P-3562	12	DICL	1997	130	300	0	Gravel/Sand	None	5
P-3563	12	DICL	1997	130	89	0	Gravel/Sand	None	5
P-3564	8	DICL	1997	80	213	0	Gravel/Sand	None	12
P-3565	12	DICL	2002	130	17	0	Gravel/Sand	None	4
P-3566(1)	12	DICL	1991	130	14	0	Gravel/Sand	None	5
P-3566(2)	12	DICL	1991	130	169	0	Gravel/Sand	None	5
P-3567	16	DICL	1986	130	15	0	Gravel/Sand	None	6

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3568	16	DICL	1991	130	208	0	Gravel/Sand	None	4
P-3570	12	DI	1992	130	189	0	Gravel/Sand	None	5
P-3571	8	DICL	2000	80	202	0	Gravel/Sand	None	11
P-3572	12	DICL	1992	130	21	0	Gravel/Sand	None	5
P-3574	12	DICL	1992	130	38	0	Gravel/Sand	None	5
P-3575	12	DICL	1992	130	15	0	Gravel/Sand	None	5
P-3576	12	DICL	1992	130	57	0	Gravel/Sand	None	5
P-3577	12	DICL	1992	130	33	0	Gravel/Sand	None	5
P-3578	16	Asbestos Cement	1969	130	1,525	0	Gravel/Sand	None	26
P-3579	16	Asbestos Cement	1969	130	1,144	0	Gravel/Sand	None	26
P-3580	8	Asbestos Cement	1976	80	598	0	Gravel/Sand	None	29
P-3581	6	Asbestos Cement	1976	80	215	0	Gravel/Sand	None	34
P-3583	12	DI	1997	130	637	0	Gravel/Sand	None	5
P-3584	8	DICL	1997	80	561	0	Gravel/Sand	None	12
P-3585	12	DI	1997	130	1,646	0	Gravel/Sand	None	5
P-3586	12	DI	1997	130	404	0	Gravel/Sand	None	5
P-3587	8	DICL	2006	80	162	0	Gravel/Sand	None	11
P-3588	16	Asbestos Cement	1969	130	507	0	Gravel/Sand	None	26
P-3589	16	Asbestos Cement	1972	130	49	0	Gravel/Sand	None	21
P-3590	2	GSCL	1972	80	76	0	Gravel/Sand	None	46
P-3591	2	GSCL	1972	80	105	0	Gravel/Sand	None	46
P-3592	16	DICL	1997	130	37	0	Gravel/Sand	None	4
P-3593	12	DICL	1997	130	36	0	Gravel/Sand	None	5
P-3594	16	DICL	1999	130	94	0	Gravel/Sand	None	4
P-3596	16	DICL	1999	130	25	0	Gravel/Sand	None	4
P-3597	16	DICL	1999	130	106	0	Gravel/Sand	None	4
P-3598	16	DICL	1999	130	17	0	Gravel/Sand	None	4
P-3599	8	DICL	2001	100	52	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3600	8	DI	2001	100	1,565	0	Gravel/Sand	None	11
P-3601	12	DICL	2001	130	451	0	Gravel/Sand	None	4
P-3602	12	DI	2001	130	1,242	0	Gravel/Sand	None	4
P-3603	8	DICL	2001	80	279	0	Gravel/Sand	None	11
P-3604	12	DICL	2001	130	669	0	Gravel/Sand	None	4
P-3605	12	DICL	2001	130	282	0	Gravel/Sand	None	4
P-3606	8	DICL	2001	80	224	0	Gravel/Sand	None	11
P-3608	16	DICL	1988	130	290	0	Gravel/Sand	None	6
P-3609	16	DICL	2001	130	674	0	Gravel/Sand	None	3
P-3610	16	DICL	2001	130	670	0	Gravel/Sand	None	3
P-3611	8	DICL	2001	80	215	0	Gravel/Sand	None	11
P-3612	12	PVC	1989	130	43	0	Gravel/Sand	None	7
P-3613	12	PVC	1989	130	29	0	Gravel/Sand	None	7
P-3614	12	PVC	1989	130	39	0	Gravel/Sand	None	7
P-3615	12	PVC	1989	130	10	0	Gravel/Sand	None	7
P-3616	12	PVC	1989	130	520	0	Gravel/Sand	None	7
P-3617	12	PVC	1989	130	58	0	Gravel/Sand	None	7
P-3618	16	DICL	1999	130	56	0	Gravel/Sand	None	4
P-3619	16	DICL	1999	130	412	0	Gravel/Sand	None	4
P-3620	8	DICL	2006	80	446	0	Gravel/Sand	None	11
P-3621	12	PVC	1989	130	96	0	Gravel/Sand	None	7
P-3622	12	PVC	1989	130	861	0	Gravel/Sand	None	7
P-3623	6	PVC	1989	80	43	0	Gravel/Sand	None	19
P-3624	8	PVC	1989	80	291	0	Gravel/Sand	None	14
P-3625	8	PVC	1989	80	208	0	Gravel/Sand	None	14
P-3626	6	PVC	1989	80	201	0	Gravel/Sand	None	19
P-3628	12	PVC	1989	100	549	0	Gravel/Sand	None	7
P-3629	12	PVC	1989	100	597	0	Gravel/Sand	None	7

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3630	8	PVC	1989	80	219	0	Gravel/Sand	None	14
P-3631	8	PVC	1989	80	436	0	Gravel/Sand	None	14
P-3632	8	PVC	1989	80	182	0	Gravel/Sand	None	14
P-3633	12	PVC	1989	100	869	0	Gravel/Sand	None	7
P-3634	12	PVC	1989	100	273	0	Gravel/Sand	None	7
P-3635	8	PVC	1989	80	25	0	Gravel/Sand	None	14
P-3636	12	PVC	1989	130	42	0	Gravel/Sand	None	7
P-3637	12	PVC	1989	130	35	0	Gravel/Sand	None	7
P-3638	12	PVC	1989	110	22	0	Gravel/Sand	None	7
P-3639	12	PVC	1989	110	896	0	Gravel/Sand	None	7
P-3640	6	Asbestos Cement	1955	100	198	0	Gravel/Sand	None	52
P-3641	8	DICL	2006	110	72	0	Gravel/Sand	None	11
P-3643	16	Asbestos Cement	1954	125	422	0	Gravel/Sand	None	39
P-3644	8	Asbestos Cement	1958	100	468	0	Identified corrosive soil	None	52
P-3645	8	Asbestos Cement	1958	100	10	0	Gravel/Sand	None	47
P-3646	2	WICL	1946	80	790	0	Identified corrosive soil	None	72
P-3649	10	Asbestos Cement	1954	115	436	0	Gravel/Sand	None	40
P-3650	12	Asbestos Cement	1976	115	266	0	/ corrosive soil (wetlands or	None	27
P-3651	6	CIBIT	1934	100	798	0	Gravel/Sand	None	44
P-3652	6	CIBIT	1934	100	501	0	Gravel/Sand	None	44
P-3653	4	CI	1904	80	246	0	Gravel/Sand	None	60
P-3654	6	Asbestos Cement	1973	100	443	0	Gravel/Sand	None	34
P-3655	6	CIBIT	1934	100	559	0	Gravel/Sand	None	44
P-3656	6	CIBIT	1934	100	1,186	0	Gravel/Sand	None	44
P-3658	10	Asbestos Cement	1976	115	1,146	0	/ corrosive soil (wetlands or	None	27
P-3659	10	Asbestos Cement	1976	115	552	0	/ corrosive soil (wetlands or	None	27
P-3660	8	PVC	1992	80	427	0	/ corrosive soil (wetlands or	None	17
P-3661	12	Asbestos Cement	1954	130	50	0	Gravel/Sand	None	40

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3662	12	DICL	2007	130	2,204	1	Gravel/Sand	None	7
P-3663	6	Asbestos Cement	1960	80	463	0	Gravel/Sand	None	39
P-3664(1)	10	CICL	1944	60	1,012	0	Gravel/Sand	None	32
P-3664(2)	10	CICL	1944	60	1,406	1	Gravel/Sand	None	34
P-3666	10	CI	1904	60	467	0	Gravel/Sand	None	44
P-3667	16	DICL	2006	60	89	0	Gravel/Sand	None	3
P-3668	1.5	Copper	1940	80	568	0	Gravel/Sand	None	65
P-3669	16	DICL	2006	130	323	1	Gravel/Sand	None	6
P-3671	8	DICL	1984	80	486	0	Gravel/Sand	None	14
P-3672	6	DICL	1984	80	240	0	Gravel/Sand	None	19
P-3673	16	DICL	2006	130	456	0	Gravel/Sand	None	3
P-3674	16	DICL	2006	130	111	0	Gravel/Sand	None	3
P-3675	1.3	Copper	1989	80	309	0	Gravel/Sand	None	44
P-3677(1)	16	Asbestos Cement	1954	125	526	0	Gravel/Sand	None	39
P-3677(2)	16	CICL	1954	125	314	0	/ corrosive soil (wetlands or	None	33
P-3678	8	DICL	2002	80	11	0	Gravel/Sand	None	11
P-3679	16	Asbestos Cement	1954	125	1,326	0	Gravel/Sand	None	39
P-3680	16	Asbestos Cement	1954	125	1,087	0	Gravel/Sand	None	39
P-3681	8	DICL	2002	80	39	0	Gravel/Sand	None	11
P-3682	2	Copper	1933	80	198	0	Gravel/Sand	None	66
P-3683	2	Copper	1933	80	136	0	Gravel/Sand	None	66
P-3684	2	Copper	1933	80	266	0	Gravel/Sand	None	66
P-3685	8	CICL	1948	60	199	0	Gravel/Sand	None	38
P-3687	6	Asbestos Cement	1955	80	632	0	Gravel/Sand	None	52
P-3688	8	CICL	1948	60	445	0	Gravel/Sand	None	38
P-3689	8	CICL	1948	60	40	0	Gravel/Sand	None	38
P-3690	6	Asbestos Cement	1961	80	419	0	Gravel/Sand	None	39
P-3691	6	PVC	1982	80	567	0	Gravel/Sand	None	19

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3693	6	CI	1917	15	580	0	Gravel/Sand	None	54
P-3694(1)	6	CI	1917	15	84	0	Gravel/Sand	None	54
P-3694(2)(1)	6	CI	1917	15	503	0	Gravel/Sand	None	54
P-3694(2)(2)	6	CI	1917	15	410	0	Gravel/Sand	None	54
P-3695	8	CI	1926	50	596	0	Gravel/Sand	None	48
P-3696	8	Asbestos Cement	1968	80	360	0	Gravel/Sand	None	34
P-3697	8	Asbestos Cement	1968	80	114	0	Gravel/Sand	None	34
P-3698	8	Asbestos Cement	1968	80	73	0	Gravel/Sand	None	34
P-3699	8	Asbestos Cement	1968	80	29	0	Gravel/Sand	None	34
P-3700	2	WICL	1968	80	330	0	Gravel/Sand	None	53
P-3701	2	WICL	1968	80	663	0	Gravel/Sand	None	53
P-3704	16	Asbestos Cement	1954	125	763	0	Gravel/Sand	None	39
P-3705	16	Asbestos Cement	1954	125	117	0	Gravel/Sand	None	39
P-3706	8	CICL	1954	70	26	0	Gravel/Sand	None	37
P-3707	8	CI	1926	50	75	0	Gravel/Sand	None	48
P-3708	8	CI	1926	70	538	3	Gravel/Sand	None	53
P-3709	16	Asbestos Cement	1954	125	264	0	Gravel/Sand	None	39
P-3710	16	Asbestos Cement	1954	125	2,116	0	Gravel/Sand	None	39
P-3711	8	PVC	1989	80	689	0	Gravel/Sand	None	14
P-3712	8	Asbestos Cement	1952	70	65	3	Gravel/Sand	None	52
P-3714	6	Asbestos Cement	1952	80	915	0	Gravel/Sand	None	52
P-3715	8	CI	1926	70	534	3	Gravel/Sand	None	53
P-3717	6	Asbestos Cement	1965	80	490	0	Gravel/Sand	None	39
P-3718	8	CI	1926	70	244	0	Gravel/Sand	None	48
P-3720	6	Asbestos Cement	1953	80	344	0	Gravel/Sand	None	52
P-3721	1.5	WICL	1953	80	199	0	Gravel/Sand	None	66
P-3722	6	Asbestos Cement	1953	80	341	1	Gravel/Sand	None	54
P-3724	1.5	WICL	1953	80	67	0	Gravel/Sand	None	66

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3725	1.5	WICL	1953	80	183	0	Gravel/Sand	None	66
P-3726	1.5	WICL	1953	80	170	0	Gravel/Sand	None	66
P-3727	6	Asbestos Cement	1953	80	118	0	Gravel/Sand	None	52
P-3728	1.5	WICL	1953	80	192	0	Gravel/Sand	None	66
P-3729	8	CIBIT	1934	70	922	0	Gravel/Sand	None	39
P-3731	8	CIBIT	1934	70	21	0	Gravel/Sand	None	39
P-3732	8	CICL	1948	70	349	0	Gravel/Sand	None	38
P-3733	6	CIBIT	1934	80	915	0	Gravel/Sand	None	44
P-3734	6	CIBIT	1934	80	285	0	Gravel/Sand	None	44
P-3735	6	CIBIT	1934	80	19	0	Gravel/Sand	None	44
P-3736	6	CIBIT	1934	80	271	0	Gravel/Sand	None	44
P-3739(1)	6	Asbestos Cement	1970	80	285	0	Gravel/Sand	None	34
P-3739(2)	6	ACBIT	1981	80	253	0	Gravel/Sand	None	32
P-3740	6	ACBIT	1981	80	267	0	Gravel/Sand	None	32
P-3741	6	CIBIT	1935	80	563	0	Gravel/Sand	None	44
P-3742	8	DICL	1999	80	449	0	Gravel/Sand	None	12
P-3743	2	PVC	1984	80	665	0	Gravel/Sand	None	29
P-3744	6	CIBIT	1935	80	21	0	Gravel/Sand	None	44
P-3745	6	CIBIT	1935	80	46	0	Gravel/Sand	None	44
P-3746	8	DI	2007	100	429	0	Gravel/Sand	None	11
P-3747	6	CIBIT	1935	80	367	0	Gravel/Sand	None	44
P-3749	8	ACBIT	1981	100	574	0	Gravel/Sand	None	27
P-3750	8	PVC	1982	80	16	0	Gravel/Sand	None	14
P-3751	8	PVC	1982	80	209	0	Gravel/Sand	None	14
P-3752	6	PVC	1982	80	198	0	Gravel/Sand	None	19
P-3753	8	PVC	1982	100	1,426	0	Gravel/Sand	None	14
P-3754	8	PVC	1982	100	479	0	Gravel/Sand	None	14
P-3755	6	PVC	1982	80	218	0	Gravel/Sand	None	19

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3756	8	Asbestos Cement	1978	100	662	0	Gravel/Sand	None	29
P-3757	8	Asbestos Cement	1977	100	156	0	Gravel/Sand	None	29
P-3758	6	Asbestos Cement	1977	80	264	0	Gravel/Sand	None	34
P-3759	8	Asbestos Cement	1977	100	513	0	Gravel/Sand	None	29
P-3761	2	PVC	1978	80	198	0	Gravel/Sand	None	31
P-3762	8	DI	1984	100	281	0	Gravel/Sand	None	14
P-3763	8	DICL	1984	100	318	0	corrosive soil (wetlands or	None	18
P-3764	8	DICL	1984	80	564	0	Gravel/Sand	None	14
P-3765	8	Asbestos Cement	1979	100	1,106	0	Gravel/Sand	None	29
P-3767	8	Asbestos Cement	1979	80	133	0	Gravel/Sand	None	29
P-3768	8	Asbestos Cement	1979	100	291	0	Gravel/Sand	None	29
P-3769	8	Asbestos Cement	1979	100	1,283	0	Gravel/Sand	None	29
P-3770	8	Asbestos Cement	1979	80	71	0	Gravel/Sand	None	29
P-3771	8	CICL	1948	70	355	0	Gravel/Sand	None	38
P-3773	8	ACBIT	1980	80	625	0	Gravel/Sand	None	27
P-3774	6	ACBIT	1980	80	412	0	Gravel/Sand	None	32
P-3775	8	CICL	1948	70	453	0	Gravel/Sand	None	38
P-3776	8	CICL	1948	70	468	0	Gravel/Sand	None	38
P-3777	8	PVC	1993	80	415	0	Gravel/Sand	None	12
P-3778	8	DICL	2008	80	294	0	Gravel/Sand	None	11
P-3779	8	DICL	2001	80	142	0	Gravel/Sand	None	11
P-3780	8	Asbestos Cement	1976	125	194	0	Gravel/Sand	None	29
P-3782	8	Asbestos Cement	1976	80	96	0	Gravel/Sand	None	29
P-3783	6	Asbestos Cement	1976	80	218	0	Gravel/Sand	None	34
P-3784	8	ACBIT	1981	125	618	0	Gravel/Sand	None	27
P-3785(1)	8	ACBIT	1981	125	356	0	Gravel/Sand	None	27
P-3785(2)	8	PVC	1982	125	934	0	Gravel/Sand	None	14
P-3786	6	ACBIT	1981	80	397	0	Gravel/Sand	None	32

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3787	6	PVC	1982	80	210	0	Gravel/Sand	None	19
P-3788	12	Asbestos Cement	1957	120	33	0	/ corrosive soil (wetlands or	None	44
P-3789	12	Asbestos Cement	1954	120	322	0	Gravel/Sand	None	40
P-3790	6	Asbestos Cement	1957	100	513	0	Gravel/Sand	None	52
P-3791	6	Asbestos Cement	1964	100	284	0	Gravel/Sand	None	39
P-3792	6	Asbestos Cement	1964	80	30	0	Gravel/Sand	None	39
P-3793	6	Asbestos Cement	1983	80	383	0	Gravel/Sand	None	32
P-3794	6	Asbestos Cement	1964	80	234	0	Gravel/Sand	None	39
P-3795	8	PVC	1984	80	261	0	Gravel/Sand	None	14
P-3796	6	PVC	1983	100	502	0	Gravel/Sand	None	19
P-3797	6	PVC	1983	100	454	0	Gravel/Sand	None	19
P-3798	8	PVC	1984	80	178	0	Gravel/Sand	None	14
P-3799	8	PVC	1983	100	554	0	Gravel/Sand	None	14
P-3800	8	Asbestos Cement	1977	100	105	0	Gravel/Sand	None	29
P-3801	8	PVC	1983	100	428	0	Gravel/Sand	None	14
P-3803	8	PVC	1983	80	345	0	Gravel/Sand	None	14
P-3804	6	PVC	1983	80	134	0	Gravel/Sand	None	19
P-3805	12	Asbestos Cement	1954	120	17	0	Gravel/Sand	None	40
P-3807	12	Asbestos Cement	1954	100	533	1	/ corrosive soil (wetlands or	None	47
P-3809	16	Asbestos Cement	1954	125	10	0	/ corrosive soil (wetlands or	None	43
P-3810	16	Asbestos Cement	1954	125	559	0	/ corrosive soil (wetlands or	None	43
P-3811	6	CICL	1948	80	178	0	/ corrosive soil (wetlands or	None	47
P-3812	8	PVC	1983	100	913	0	Gravel/Sand	None	14
P-3813	8	PVC	1983	100	317	0	Gravel/Sand	None	14
P-3814	8	PVC	1983	80	342	0	Gravel/Sand	None	14
P-3815	6	PVC	1983	80	346	0	Gravel/Sand	None	19
P-3816	12	Asbestos Cement	1954	120	263	0	Gravel/Sand	None	40
P-3818(1)	8	Asbestos Cement	1977	80	599	0	Gravel/Sand	None	29

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3818(2)	8	PVC	1986	80	1,226	0	Gravel/Sand	None	14
P-3819	8	PVC	1986	80	211	0	Gravel/Sand	None	14
P-3820	8	PVC	1986	80	342	0	Gravel/Sand	None	14
P-3821	12	Asbestos Cement	1954	120	279	0	Gravel/Sand	None	40
P-3823	6	Asbestos Cement	1972	80	498	0	Gravel/Sand	None	34
P-3824	12	Asbestos Cement	1954	120	227	0	Gravel/Sand	None	40
P-3825	12	Asbestos Cement	1980	120	40	0	Gravel/Sand	None	20
P-3826	8	Asbestos Cement	1980	80	514	0	Gravel/Sand	None	27
P-3827	10	DICL	1999	80	160	0	Gravel/Sand	None	6
P-3828	10	DICL	1999	80	232	0	Gravel/Sand	None	6
P-3830	12	Asbestos Cement	1954	120	1,519	0	Gravel/Sand	None	40
P-3831	12	Asbestos Cement	1954	120	414	0	Gravel/Sand	None	40
P-3832	8	PVC	1987	80	675	0	Gravel/Sand	None	14
P-3833	6	Asbestos Cement	1974	80	103	0	Gravel/Sand	None	34
P-3835	12	CI	1912	70	13	0	Gravel/Sand	None	42
P-3836	12	DICL	2003	70	167	0	Gravel/Sand	None	4
P-3837	12	CI	1912	70	95	0	Gravel/Sand	None	42
P-3838	10	CI	1912	70	687	0	Gravel/Sand	None	43
P-3839	12	DICL	2003	70	80	0	Gravel/Sand	None	4
P-3840(1)	10	CI	1912	70	259	0	Gravel/Sand	None	43
P-3840(2)	10	CI	1912	70	543	0	Gravel/Sand	None	43
P-3841	10	CI	1912	70	539	0	Gravel/Sand	None	43
P-3842	1.5	Copper	1950	80	504	0	Gravel/Sand	None	64
P-3843	8	Asbestos Cement	1976	80	235	0	Gravel/Sand	None	29
P-3844	12	Asbestos Cement	1954	120	863	0	Gravel/Sand	None	40
P-3845	12	Asbestos Cement	1954	120	307	0	Gravel/Sand	None	40
P-3846	8	DI	2007	80	281	0	Gravel/Sand	None	11
P-3847	8	DICL	2007	80	605	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3848	8	DI	2007	80	456	0	Gravel/Sand	None	11
P-3849	12	Asbestos Cement	1954	120	228	0	Gravel/Sand	None	40
P-3851	2	WICL	1956	80	267	0	Gravel/Sand	None	66
P-3852	12	Asbestos Cement	1954	120	262	0	Gravel/Sand	None	40
P-3854	2	WICL	1959	80	220	0	Gravel/Sand	None	53
P-3855	8	Asbestos Cement	1976	80	221	0	Gravel/Sand	None	29
P-3856	12	Asbestos Cement	1954	120	353	0	Gravel/Sand	None	40
P-3857	12	Asbestos Cement	1954	120	237	0	Gravel/Sand	None	40
P-3858	8	Asbestos Cement	1973	80	312	0	Gravel/Sand	None	29
P-3859	6	Asbestos Cement	1973	80	148	0	Gravel/Sand	None	34
P-3860	8	Asbestos Cement	1973	80	331	0	Gravel/Sand	None	29
P-3861	8	Asbestos Cement	1973	80	302	0	Gravel/Sand	None	29
P-3862	6	Asbestos Cement	1973	80	218	0	Gravel/Sand	None	34
P-3863	2	PVC	1979	80	58	0	Gravel/Sand	None	31
P-3864	12	Asbestos Cement	1954	120	893	0	Gravel/Sand	None	40
P-3866	6	Asbestos Cement	1969	80	357	0	Gravel/Sand	None	39
P-3867	10	Asbestos Cement	1970	115	529	0	Gravel/Sand	None	23
P-3868	10	Asbestos Cement	1970	115	870	0	Gravel/Sand	None	23
P-3869	6	Asbestos Cement	1971	80	305	1	Gravel/Sand	None	37
P-3871	10	Asbestos Cement	1970	80	450	0	Gravel/Sand	None	23
P-3872	10	Asbestos Cement	1968	80	25	0	/ corrosive soil (wetlands or	None	32
P-3873	6	Asbestos Cement	1968	80	267	0	/ corrosive soil (wetlands or	None	44
P-3874	8	Asbestos Cement	1971	110	993	0	Gravel/Sand	None	29
P-3875	8	Asbestos Cement	1971	110	389	0	Gravel/Sand	None	29
P-3876	6	Asbestos Cement	1971	80	324	0	Gravel/Sand	None	34
P-3877	6	Asbestos Cement	1971	80	207	0	Gravel/Sand	None	34
P-3878	6	Asbestos Cement	1971	80	436	0	Gravel/Sand	None	34
P-3879	10	Asbestos Cement	1970	115	482	0	Gravel/Sand	None	23

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3880	10	Asbestos Cement	1970	115	518	0	Gravel/Sand	None	23
P-3881	6	Asbestos Cement	1970	80	42	0	Gravel/Sand	None	34
P-3882	8	CIBIT	1938	60	206	0	Gravel/Sand	None	39
P-3883	8	CIBIT	1938	60	651	0	Gravel/Sand	None	39
P-3884	2	WICL	1952	80	302	0	Gravel/Sand	None	66
P-3885	6	Asbestos Cement	1952	100	222	0	Gravel/Sand	None	52
P-3887	2	PVC	1979	80	129	0	Gravel/Sand	None	31
P-3888	6	Asbestos Cement	1952	100	4	0	Gravel/Sand	None	52
P-3889	6	Asbestos Cement	1952	100	936	0	Gravel/Sand	None	52
P-3890	2	WICL	1963	80	18	0	Gravel/Sand	None	53
P-3891	2	WICL	1950	80	107	0	Gravel/Sand	None	66
P-3892	8	Asbestos Cement	1965	80	67	0	Gravel/Sand	None	34
P-3895	6	CI	1927	80	334	0	Gravel/Sand	None	53
P-3896	1.5	Copper	1927	80	432	0	Gravel/Sand	None	59
P-3897	8	CI	1927	60	295	0	Gravel/Sand	None	48
P-3898	8	CI	1927	60	291	0	Gravel/Sand	None	48
P-3899	2	WICL	1959	80	762	0	Gravel/Sand	None	53
P-3900	6	CI	1927	80	313	0	Gravel/Sand	None	53
P-3902	6	CI	1927	80	131	0	Gravel/Sand	None	53
P-3903	2	PVC	1979	80	168	0	Gravel/Sand	None	31
P-3906	6	CI	1927	80	735	0	Gravel/Sand	None	53
P-3907	6	CI	1927	80	330	0	/ corrosive soil (wetlands or	None	57
P-3908	2	WICL	1963	80	272	0	/ corrosive soil (wetlands or	None	58
P-3909	8	CI	1927	60	301	0	Gravel/Sand	None	48
P-3910	8	CI	1927	60	430	0	Gravel/Sand	None	48
P-3911(1)	2	GS	1933	80	345	0	Gravel/Sand	None	66
P-3911(2)	2	GS	1933	80	300	0	/ corrosive soil (wetlands or	None	71
P-3913	8	CI	1927	60	225	0	/ corrosive soil (wetlands or	None	52

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3914	8	CI	1927	80	43	0	/ corrosive soil (wetlands or	None	52
P-3915	6	CI	1927	80	241	0	/ corrosive soil (wetlands or	None	57
P-3916	8	CI	1927	60	1,120	0	/ corrosive soil (wetlands or	None	52
P-3917	8	CI	1927	60	349	0	/ corrosive soil (wetlands or	None	52
P-3918	2	PVC	1980	80	375	0	/ corrosive soil (wetlands or	None	33
P-3922	10	Asbestos Cement	1954	115	1,287	0	Gravel/Sand	None	40
P-3923	8	CI	1927	60	221	0	Gravel/Sand	None	48
P-3924	8	CI	1927	60	16	0	Gravel/Sand	None	48
P-3925	8	DICL	2006	80	233	0	Gravel/Sand	None	11
P-3926	8	DICL	1997	100	324	0	Gravel/Sand	None	12
P-3927	8	DICL	1997	100	358	0	Gravel/Sand	None	12
P-3928	2	WICL	1951	80	136	0	Gravel/Sand	None	66
P-3929	8	CI	1927	60	208	0	Gravel/Sand	None	48
P-3931	1	Copper	1950	80	723	0	Gravel/Sand	None	64
P-3932	8	CI	1927	60	4	0	Gravel/Sand	None	48
P-3933	8	CI	1927	60	6	0	Gravel/Sand	None	48
P-3935	6	CI	1927	80	349	0	Gravel/Sand	None	53
P-3936	1	Copper	1950	80	69	0	Gravel/Sand	None	64
P-3937	1.3	Copper	1948	80	513	0	Gravel/Sand	None	65
P-3938	8	CI	1927	60	211	0	Gravel/Sand	None	48
P-3939	8	CI	1927	60	11	0	Gravel/Sand	None	48
P-3940	2	PE	1996	80	248	0	Gravel/Sand	None	27
P-3941	8	PVC	1988	100	216	0	Gravel/Sand	None	14
P-3943	8	CI	1927	60	239	0	Gravel/Sand	None	48
P-3945	2	WICL	1953	80	562	0	Gravel/Sand	None	66
P-3946	8	PVC	1988	100	9	0	Gravel/Sand	None	14
P-3948	2	WICL	1956	80	367	0	Gravel/Sand	None	66
P-3949	8	PVC	1988	100	194	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3950	8	PVC	1988	100	11	0	Gravel/Sand	None	14
P-3951	2	PVC	1988	80	37	0	Gravel/Sand	None	29
P-3952	8	DICL	2015	110	580	0	Gravel/Sand	None	11
P-3953	8	CI	1927	60	236	0	Gravel/Sand	None	48
P-3955	2	WICL	1950	80	485	0	Gravel/Sand	None	66
P-3956	2	WICL	1956	80	424	0	Gravel/Sand	None	66
P-3959	2	WICL	1956	80	357	0	Gravel/Sand	None	66
P-3960	8	CI	1927	60	254	0	Gravel/Sand	None	48
P-3961	8	CI	1927	60	8	0	Gravel/Sand	None	48
P-3962	6	Asbestos Cement	1971	80	656	0	Gravel/Sand	None	34
P-3964	8	CI	1927	25	498	0	Gravel/Sand	None	48
P-3965	2	PVC	1983	80	281	0	Gravel/Sand	None	29
P-3968	8	DI	2002	80	530	0	Gravel/Sand	None	11
P-3969	6	Asbestos Cement	1975	120	808	0	Gravel/Sand	None	34
P-3970	12	Asbestos Cement	1975	120	340	0	Gravel/Sand	Taste/Odor	22
P-3971	12	Asbestos Cement	1954	120	449	0	Gravel/Sand	Taste/Odor	40
P-3974(1)(1)(1	8	CI	1927	25	826	0	Gravel/Sand	None	48
P-3974(1)(1)(2	8	CI	1927	25	459	0	Gravel/Sand	None	48
P-3974(1)(2)	8	CI	1927	25	488	0	Gravel/Sand	None	48
P-3974(2)	8	CI	1927	25	290	0	Gravel/Sand	None	48
P-3975	12	Asbestos Cement	1954	120	12	0	Gravel/Sand	None	40
P-3976	12	Asbestos Cement	1954	120	231	0	Gravel/Sand	None	40
P-3977	8	CICL	1954	25	29	0	Gravel/Sand	None	37
P-3978	8	CI	1927	60	1,210	0	Gravel/Sand	None	48
P-3979(1)	8	CI	1927	60	1,126	2	Gravel/Sand	None	52
P-3979(2)	8	CI	1927	60	83	2	Gravel/Sand	None	52
P-3981	12	PVC	1989	130	965	0	Gravel/Sand	None	7
P-3982	12	PVC	1989	130	325	0	Gravel/Sand	None	7

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-3983	12	PVC	1989	130	9	0	Gravel/Sand	None	7
P-3984	12	PVC	1989	130	497	0	Gravel/Sand	None	7
P-3985	6	Asbestos Cement	1967	130	187	0	Gravel/Sand	None	39
P-3986	6	Asbestos Cement	1967	130	10	0	Gravel/Sand	None	39
P-3987	6	Asbestos Cement	1983	80	216	0	Gravel/Sand	None	32
P-3988	6	Asbestos Cement	1968	100	1,681	0	Gravel/Sand	None	39
P-3989	6	Asbestos Cement	1967	100	186	0	Gravel/Sand	None	39
P-3992	12	PVC	1989	130	564	0	Gravel/Sand	None	7
P-3993	8	Asbestos Cement	1967	80	586	0	Gravel/Sand	None	34
P-3994	6	Asbestos Cement	1968	80	18	0	Gravel/Sand	None	39
P-3995	6	Asbestos Cement	1967	80	37	0	Gravel/Sand	None	39
P-3996	6	Asbestos Cement	1979	100	70	0	Gravel/Sand	None	34
P-3997	8	Asbestos Cement	1979	100	479	0	Gravel/Sand	None	29
P-3998	6	Asbestos Cement	1979	80	256	0	Gravel/Sand	None	34
P-3999(1)	12	Asbestos Cement	1974	100	577	0	Gravel/Sand	None	22
P-3999(2)	12	Asbestos Cement	1974	100	895	0	/ corrosive soil (wetlands or	None	27
P-4000	8	Asbestos Cement	1975	120	53	0	Gravel/Sand	None	29
P-4001	8	CI	1927	60	265	0	Gravel/Sand	None	48
P-4002	8	CI	1927	60	43	0	Gravel/Sand	None	48
P-4003	8	CI	1927	60	128	1	Gravel/Sand	None	50
P-4004(1)	8	CI	1927	60	512	2	Gravel/Sand	None	52
P-4004(2)	8	CI	1927	60	943	2	/ corrosive soil (wetlands or	None	56
P-4005	6	CI	1930	20	504	0	Gravel/Sand	None	60
P-4006	6	CI	1930	20	148	0	Gravel/Sand	None	60
P-4008	6	CI	1930	20	988	0	Gravel/Sand	None	60
P-4009	6	CI	1930	20	29	0	Gravel/Sand	None	60
P-4010	6	Asbestos Cement	1950	100	217	0	Gravel/Sand	Taste/Odor	52
P-4012	1	Copper	1950	80	184	0	Gravel/Sand	Taste/Odor	64

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4014	6	Asbestos Cement	1950	100	48	0	Gravel/Sand	Taste/Odor	52
P-4015	2	STCLPC	1961	80	192	0	Gravel/Sand	Taste/Odor	51
P-4017	6	Asbestos Cement	1950	100	217	0	Gravel/Sand	Taste/Odor	52
P-4018	2	WICL	1956	80	475	0	Gravel/Sand	Taste/Odor	66
P-4019	6	CICL	1951	100	240	0	Gravel/Sand	Taste/Odor	42
P-4020	6	Asbestos Cement	1950	100	232	0	Gravel/Sand	Taste/Odor	52
P-4021	2	WICL	1956	80	332	0	Gravel/Sand	Taste/Odor	66
P-4022	6	Asbestos Cement	1950	100	263	0	Gravel/Sand	Taste/Odor	52
P-4023	6	Asbestos Cement	1950	100	353	0	Gravel/Sand	Taste/Odor	52
P-4024	2	WICL	1962	80	306	0	Gravel/Sand	Taste/Odor	53
P-4025	6	Asbestos Cement	1949	100	191	0	Gravel/Sand	Taste/Odor	53
P-4027	6	Asbestos Cement	1949	100	194	0	Gravel/Sand	Taste/Odor	53
P-4028	6	Asbestos Cement	1949	100	341	0	Gravel/Sand	Taste/Odor	53
P-4029	6	Asbestos Cement	1949	80	1,031	0	Gravel/Sand	Taste/Odor	53
P-4030	6	Asbestos Cement	1949	100	490	0	Gravel/Sand	Taste/Odor	53
P-4031	6	Asbestos Cement	1949	100	11	0	Gravel/Sand	Taste/Odor	53
P-4032	6	Asbestos Cement	1965	80	455	0	Gravel/Sand	Taste/Odor	39
P-4033	6	Asbestos Cement	1962	100	1,765	0	Gravel/Sand	None	39
P-4034	6	Asbestos Cement	1965	100	447	0	Gravel/Sand	None	39
P-4035	2	WICL	1965	80	208	0	Gravel/Sand	None	53
P-4036	6	Asbestos Cement	1965	100	309	0	Gravel/Sand	None	39
P-4037	6	Asbestos Cement	1965	100	326	0	Gravel/Sand	None	39
P-4038	8	Asbestos Cement	1976	80	268	0	Gravel/Sand	None	29
P-4039	2	PVC	1976	80	99	0	Gravel/Sand	None	31
P-4040	6	Asbestos Cement	1976	80	218	0	Gravel/Sand	None	34
P-4041	2	PVC	1976	80	167	0	Gravel/Sand	None	31
P-4042(1)	12	Asbestos Cement	1954	120	677	0	r corrosive soil (wetlands or	None	44
P-4042(2)	12	Asbestos Cement	1954	120	232	0	Gravel/Sand	None	40

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4043	12	Asbestos Cement	1954	120	606	0	Gravel/Sand	None	40
P-4044	8	PVC	1990	80	299	0	Gravel/Sand	None	12
P-4045	12	Asbestos Cement	1954	120	160	0	Gravel/Sand	None	40
P-4046	12	Asbestos Cement	1954	120	264	0	/ corrosive soil (wetlands or	None	44
P-4047	8	PVC	1983	80	275	0	Gravel/Sand	None	14
P-4048	8	PVC	1983	80	496	0	/ corrosive soil (wetlands or	None	18
P-4049	8	PVC	1983	80	266	0	/ corrosive soil (wetlands or	None	18
P-4050	6	PVC	1983	80	648	0	Gravel/Sand	None	19
P-4051	8	PVC	1988	80	154	0	Gravel/Sand	None	14
P-4052	8	PVC	1988	80	224	0	Gravel/Sand	None	14
P-4053	6	PVC	1988	80	148	0	Gravel/Sand	None	19
P-4054	6	PVC	1988	80	435	0	Gravel/Sand	None	19
P-4055	6	PVC	1983	80	201	0	/ corrosive soil (wetlands or	None	23
P-4056	1.5	PVC	1984	80	83	0	Gravel/Sand	None	29
P-4057	1.3	GS	1984	80	329	0	Gravel/Sand	None	44
P-4058	2	PVC	1984	80	270	0	Gravel/Sand	None	29
P-4059	6	CI	1912	80	15	0	Gravel/Sand	None	54
P-4060	6	CI	1913	80	888	0	Gravel/Sand	None	54
P-4061	6	CI	1913	80	127	0	Gravel/Sand	None	54
P-4062	8	CI	1913	80	255	0	/ corrosive soil (wetlands or	None	53
P-4063	6	CI	1913	80	286	0	/ corrosive soil (wetlands or	None	58
P-4064	6	CI	1913	80	135	0	/ corrosive soil (wetlands or	None	58
P-4065	6	CI	1913	80	147	0	/ corrosive soil (wetlands or	None	58
P-4066	4	CI	1913	80	368	0	/ corrosive soil (wetlands or	None	63
P-4067	2	PVC	1985	80	310	0	/ corrosive soil (wetlands or	None	33
P-4068	6	DI	2008	80	289	0	/ corrosive soil (wetlands or	None	21
P-4069	8	CI	1913	80	312	0	Gravel/Sand	None	49
P-4070	6	CI	1913	80	199	0	Gravel/Sand	None	54

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4071	2	PE	2006	80	176	0	Gravel/Sand	None	26
P-4072	6	CI	1913	80	171	0	Gravel/Sand	None	54
P-4074	8	CI	1912	70	1,038	1	Gravel/Sand	None	51
P-4075	6	CI	1913	80	351	0	Gravel/Sand	None	54
P-4077	8	Asbestos Cement	1979	80	131	0	Gravel/Sand	None	29
P-4078	8	CI	1913	80	712	0	Gravel/Sand	None	49
P-4079	8	Asbestos Cement	1979	80	209	0	Gravel/Sand	None	29
P-4080	10	CI	1913	70	5	0	Gravel/Sand	None	43
P-4081	10	CI	1912	70	1,147	0	Gravel/Sand	None	43
P-4082	8	CI	1912	70	25	1	Gravel/Sand	None	51
P-4083	8	CI	1912	70	134	1	Gravel/Sand	None	51
P-4084	8	CICL	1954	80	10	0	Gravel/Sand	None	37
P-4086	2	PVC	1986	80	111	0	Gravel/Sand	None	29
P-4087	6	Asbestos Cement	1954	80	340	0	Gravel/Sand	None	52
P-4088	8	Asbestos Cement	1979	80	321	0	Gravel/Sand	None	29
P-4089	8	CI	1913	80	181	0	Gravel/Sand	None	49
P-4091	8	CI	1913	80	306	0	Gravel/Sand	None	49
P-4092	8	CI	1913	80	9	0	Gravel/Sand	None	49
P-4093	6	CI	1913	80	219	0	Gravel/Sand	None	54
P-4095	2	Copper	1950	80	165	0	Gravel/Sand	None	64
P-4096	6	CI	1913	80	9	0	Gravel/Sand	None	54
P-4097	6	CI	1913	80	5	0	Gravel/Sand	None	54
P-4099	6	Asbestos Cement	1954	80	809	0	Gravel/Sand	None	52
P-4100	6	CI	1913	80	156	0	Gravel/Sand	None	54
P-4102	6	CI	1913	80	500	0	Gravel/Sand	None	54
P-4103	6	CI	1913	80	28	0	Gravel/Sand	None	54
P-4104	6	CI	1913	80	85	0	Gravel/Sand	None	54
P-4106	6	CIBIT	1939	80	234	0	Gravel/Sand	None	44

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4107	6	CI	1913	80	505	0	Gravel/Sand	None	54
P-4108(1)	6	CI	1913	80	292	0	Gravel/Sand	None	54
P-4108(2)(1)	6	CICL	1941	80	698	0	Gravel/Sand	None	43
P-4108(2)(2)	6	CICL	1941	80	310	0	r corrosive soil (wetlands or	None	47
P-4109	6	CI	1913	80	378	0	Gravel/Sand	None	54
P-4110	4	CI	1913	80	296	0	Gravel/Sand	None	59
P-4111	12	PVC	1985	130	270	0	Gravel/Sand	None	7
P-4112	12	PVC	1985	130	218	0	Gravel/Sand	None	7
P-4113	12	PVC	1985	130	766	0	Gravel/Sand	None	7
P-4114	8	Asbestos Cement	1978	80	432	0	Gravel/Sand	Other	29
P-4115	6	Asbestos Cement	1978	80	171	0	Gravel/Sand	Other	34
P-4117	8	Asbestos Cement	1978	80	688	0	Gravel/Sand	Other	29
P-4118	6	Asbestos Cement	1978	80	473	0	Gravel/Sand	Other	34
P-4119	6	PVC	1985	80	754	0	Gravel/Sand	None	19
P-4120	8	Asbestos Cement	1975	100	357	0	Gravel/Sand	None	29
P-4121	6	Asbestos Cement	1975	100	123	0	Gravel/Sand	None	34
P-4122	8	Asbestos Cement	1975	100	674	0	Gravel/Sand	None	29
P-4123	8	Asbestos Cement	1975	100	290	0	Gravel/Sand	None	29
P-4124	6	Asbestos Cement	1975	80	329	0	Gravel/Sand	None	34
P-4125	6	Asbestos Cement	1975	100	369	0	Gravel/Sand	None	34
P-4128	6	Asbestos Cement	1975	100	428	0	Gravel/Sand	None	34
P-4129	8	Asbestos Cement	1975	100	503	0	Gravel/Sand	None	29
P-4130	6	Asbestos Cement	1975	100	16	0	Gravel/Sand	None	34
P-4131	8	Asbestos Cement	1975	80	41	0	Gravel/Sand	None	29
P-4132	8	Asbestos Cement	1975	100	242	0	Gravel/Sand	None	29
P-4133	8	Asbestos Cement	1975	100	321	0	Gravel/Sand	None	29
P-4134	6	Asbestos Cement	1975	80	162	0	Gravel/Sand	Other	34
P-4135	8	DICL	1977	80	280	0	Gravel/Sand	None	16

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4136	8	DICL	1997	80	21	0	Gravel/Sand	None	12
P-4138	8	DICL	1997	100	257	0	Gravel/Sand	None	12
P-4139	6	DICL	1997	80	32	0	Gravel/Sand	None	17
P-4140	16	DICL	1997	130	12	0	Gravel/Sand	None	4
P-4142	6	DICL	1997	80	195	0	Gravel/Sand	None	17
P-4143	12	PVC	1988	115	40	0	Gravel/Sand	None	7
P-4145	10	PVC	1988	110	96	0	Gravel/Sand	None	7
P-4147	12	Asbestos Cement	1975	130	481	0	Gravel/Sand	None	22
P-4148	12	PVC	1988	130	425	0	Gravel/Sand	None	7
P-4150	6	Asbestos Cement	1975	80	159	0	Gravel/Sand	None	34
P-4151	8	PVC	1975	80	306	0	Gravel/Sand	None	16
P-4152	10	PVC	1988	110	425	0	Gravel/Sand	None	7
P-4153	6	CI	1927	80	52	0	Gravel/Sand	None	53
P-4154	10	CI	1912	80	196	0	Gravel/Sand	None	43
P-4155	12	CI	1912	80	25	0	Gravel/Sand	None	42
P-4156	6	CI	1912	80	962	0	Gravel/Sand	None	54
P-4157	10	PVC	1988	110	705	0	Gravel/Sand	None	7
P-4158	10	PVC	1988	110	412	0	Gravel/Sand	None	7
P-4159	8	DICL	2003	100	593	0	Gravel/Sand	None	11
P-4161	8	DI	2006	80	791	0	Gravel/Sand	None	11
P-4162	8	DICL	2003	100	659	0	Gravel/Sand	None	11
P-4164	8	Asbestos Cement	1967	80	170	0	Gravel/Sand	None	34
P-4165	8	DICL	2003	100	171	0	Gravel/Sand	None	11
P-4167	8	DICL	2003	80	17	0	Gravel/Sand	None	11
P-4168	8	DICL	2003	100	29	0	Gravel/Sand	None	11
P-4170	8	DICL	2003	80	19	0	Gravel/Sand	None	11
P-4171	8	DICL	2003	100	194	0	Gravel/Sand	None	11
P-4172	8	DICL	2003	100	26	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4173	8	DICL	2003	80	36	0	Gravel/Sand	None	11
P-4174	10	CI	1912	70	123	0	Gravel/Sand	None	43
P-4175	10	CI	1912	70	230	0	Gravel/Sand	None	43
P-4176	2	WICL	1956	80	516	0	Gravel/Sand	None	66
P-4177	2	WICL	1964	80	130	0	Gravel/Sand	None	53
P-4178	6	Asbestos Cement	1966	80	18	0	Gravel/Sand	None	39
P-4179	6	Asbestos Cement	1965	80	22	0	Gravel/Sand	None	39
P-4180	8	DICL	2005	80	577	0	Gravel/Sand	None	11
P-4181	12	DICL	2006	120	402	0	Gravel/Sand	None	4
P-4182	12	DI	2006	120	805	0	Gravel/Sand	None	4
P-4183	8	PVC	1990	80	518	0	Gravel/Sand	None	12
P-4185	6	Asbestos Cement	1968	80	20	0	Gravel/Sand	None	39
P-4186	12	DICL	2006	120	608	0	Gravel/Sand	None	4
P-4187	12	DI	2006	120	1,970	0	Gravel/Sand	None	4
P-4188	8	DICL	2001	80	528	0	Gravel/Sand	None	11
P-4190	16	DI	2006	130	1,813	0	Gravel/Sand	None	3
P-4191	8	DI	2001	80	633	0	Gravel/Sand	None	11
P-4192	16	DI	2006	130	463	0	Gravel/Sand	None	3
P-4193	16	DI	2006	130	974	0	Gravel/Sand	None	3
P-4194	8	PVC	1985	80	379	0	Gravel/Sand	None	14
P-4195	6	PVC	1985	80	391	0	Gravel/Sand	None	19
P-4196	8	Asbestos Cement	1969	110	317	0	Gravel/Sand	None	34
P-4197	8	Asbestos Cement	1969	110	41	0	Gravel/Sand	None	34
P-4198	6	Asbestos Cement	1971	80	256	0	Gravel/Sand	None	34
P-4199	10	CICL	1944	100	231	0	Gravel/Sand	None	32
P-4200	10	CICL	1944	100	461	0	Gravel/Sand	None	32
P-4201	8	DICL	2006	80	614	0	Gravel/Sand	None	11
P-4202(1)	12	Asbestos Cement	1954	120	191	0	Gravel/Sand	None	40

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4202(2)	8	DICL	2006	120	426	0	Gravel/Sand	None	11
P-4204	2	WICL	1961	80	276	0	Gravel/Sand	None	53
P-4205	2	WICL	1967	80	235	0	Gravel/Sand	None	53
P-4206(1)	8	DICL	2006	120	85	0	Gravel/Sand	None	11
P-4206(2)	12	Asbestos Cement	1965	120	236	0	Gravel/Sand	None	27
P-4207	12	Asbestos Cement	1965	120	694	0	Gravel/Sand	None	27
P-4208	10	CICL	1944	80	1,608	0	Gravel/Sand	None	32
P-4209	10	CICL	1944	80	87	1	Gravel/Sand	None	34
P-4210	6	Asbestos Cement	1964	100	397	0	Gravel/Sand	None	39
P-4211	6	Asbestos Cement	1964	100	67	0	Gravel/Sand	None	39
P-4212	2	WICL	1964	80	160	0	Gravel/Sand	None	53
P-4213	6	Asbestos Cement	1964	100	174	0	Gravel/Sand	None	39
P-4214	6	Asbestos Cement	1964	100	1,442	0	Gravel/Sand	None	39
P-4215	2	WICL	1966	80	510	0	Gravel/Sand	None	53
P-4216	6	Asbestos Cement	1964	80	186	0	Gravel/Sand	None	39
P-4217	6	CICL	1948	100	12	0	Gravel/Sand	None	43
P-4218	6	CICL	1948	100	738	0	Gravel/Sand	None	43
P-4219	6	PVC	1985	80	113	0	Gravel/Sand	None	19
P-4220	6	Asbestos Cement	1976	80	217	0	Gravel/Sand	None	34
P-4221	6	Asbestos Cement	1976	80	24	0	Gravel/Sand	None	34
P-4222	2	PVC	1976	80	214	0	Gravel/Sand	None	31
P-4223	8	Asbestos Cement	1970	100	291	0	Gravel/Sand	None	29
P-4224	8	Asbestos Cement	1970	100	1,254	0	Gravel/Sand	None	29
P-4225	6	Asbestos Cement	1966	100	648	0	Gravel/Sand	None	39
P-4226	6	Asbestos Cement	1966	100	525	0	Gravel/Sand	None	39
P-4227	8	PVC	1983	100	16	0	Gravel/Sand	None	14
P-4228	8	DICL	2006	100	406	0	Gravel/Sand	None	11
P-4229	12	PVC	1987	130	399	0	Gravel/Sand	None	7

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4230	12	PVC	1987	130	250	0	Gravel/Sand	None	7
P-4232	12	PVC	1987	130	609	0	Gravel/Sand	None	7
P-4233	8	DI	2006	100	1,442	0	Gravel/Sand	None	11
P-4234	8	DI	2006	100	886	0	Gravel/Sand	None	11
P-4236	8	CI	1914	70	293	0	Gravel/Sand	None	49
P-4237	8	CI	1914	70	883	0	Gravel/Sand	None	49
P-4238	8	CI	1914	70	898	0	Gravel/Sand	None	49
P-4241	8	CI	1914	90	514	0	Gravel/Sand	None	49
P-4242	8	CI	1914	90	450	0	Gravel/Sand	None	49
P-4244	8	CI	1914	100	157	0	Gravel/Sand	None	49
P-4246	8	CI	1914	100	469	0	Gravel/Sand	None	49
P-4247	8	CI	1914	100	124	0	Gravel/Sand	None	49
P-4248	8	CI	1914	100	158	0	Gravel/Sand	None	49
P-4249	8	CI	1914	40	923	0	Gravel/Sand	None	49
P-4250	8	CI	1914	40	1,112	0	Gravel/Sand	None	49
P-4251	10	CICL	1941	40	780	0	Gravel/Sand	None	32
P-4252	10	CICL	1941	40	344	0	Gravel/Sand	None	32
P-4254	8	CICL	1940	100	576	0	Gravel/Sand	None	38
P-4255	8	CICL	1940	100	482	0	Gravel/Sand	None	38
P-4256	8	CICL	1940	100	13	0	Gravel/Sand	None	38
P-4257	2	WICL	1966	80	110	0	Gravel/Sand	None	53
P-4258	6	Asbestos Cement	1972	80	378	0	Gravel/Sand	None	34
P-4259	6	Asbestos Cement	1963	80	525	0	Gravel/Sand	None	39
P-4260	6	Asbestos Cement	1964	80	421	0	Gravel/Sand	None	39
P-4261	2	WICL	1963	80	623	0	Gravel/Sand	None	53
P-4262	8	Asbestos Cement	1966	70	936	0	Gravel/Sand	None	34
P-4264	6	Asbestos Cement	1954	80	229	0	Gravel/Sand	None	52
P-4265	2	WICL	1954	80	838	0	Gravel/Sand	None	66

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4266	6	Asbestos Cement	1954	80	264	0	Gravel/Sand	None	52
P-4267	8	CI	1914	90	537	0	Gravel/Sand	None	49
P-4268	8	CI	1914	90	152	0	Gravel/Sand	None	49
P-4269	6	Asbestos Cement	1954	80	435	0	Gravel/Sand	None	52
P-4270(1)	2	WICL	1954	80	366	0	Gravel/Sand	None	66
P-4270(2)	1	Copper	1951	80	732	0	Gravel/Sand	None	64
P-4271	6	PVC	1988	80	23	0	Gravel/Sand	None	19
P-4272	8	PVC	1988	80	129	1	Gravel/Sand	None	16
P-4273	8	PVC	1988	80	55	0	Gravel/Sand	None	14
P-4275	8	PVC	1988	80	27	0	Gravel/Sand	None	14
P-4277	8	PVC	1988	80	559	0	Gravel/Sand	None	14
P-4278	6	Asbestos Cement	1966	80	233	0	Gravel/Sand	None	39
P-4279	8	PVC	1989	80	574	0	Gravel/Sand	None	14
P-4280	6	Asbestos Cement	1972	80	330	0	Gravel/Sand	None	34
P-4281	8	Asbestos Cement	1976	80	405	0	Gravel/Sand	None	29
P-4282	8	PVC	1983	80	407	0	Gravel/Sand	None	14
P-4283	8	PVC	1989	80	387	0	Gravel/Sand	None	14
P-4284	6	PVC	1989	80	145	0	Gravel/Sand	None	19
P-4285	8	PVC	1983	70	352	0	Gravel/Sand	None	14
P-4287	8	PVC	1985	70	55	0	Gravel/Sand	None	14
P-4289	8	PVC	1983	70	676	0	Gravel/Sand	None	14
P-4290	8	PVC	1984	70	1,493	0	Gravel/Sand	None	14
P-4291	8	Asbestos Cement	1971	70	476	0	Gravel/Sand	None	29
P-4292	8	Asbestos Cement	1974	70	472	0	Gravel/Sand	None	29
P-4293	8	PVC	1984	100	327	0	Gravel/Sand	None	14
P-4294	8	PVC	1984	100	252	0	Gravel/Sand	None	14
P-4295	8	PVC	1985	100	740	0	Gravel/Sand	None	14
P-4296	8	DICL	1985	100	39	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4297	10	CICL	1941	100	134	0	Gravel/Sand	None	32
P-4298	10	CICL	1941	100	360	0	Gravel/Sand	None	32
P-4299	10	CICL	1941	100	723	0	Gravel/Sand	None	32
P-4300	10	CICL	1941	100	400	0	Gravel/Sand	None	32
P-4302	10	CICL	1940	100	590	0	Gravel/Sand	None	32
P-4305	12	DI	2006	130	2,422	0	Gravel/Sand	None	4
P-4306	12	DICL	2006	130	309	0	Gravel/Sand	None	4
P-4309	8	CI	1923	80	1,590	0	Gravel/Sand	None	48
P-4310	8	CI	1923	80	276	0	Gravel/Sand	None	48
P-4312	16	Asbestos Cement	1974	120	2,471	0	Gravel/Sand	None	21
P-4313(1)	16	Asbestos Cement	1974	120	751	0	Gravel/Sand	None	21
P-4313(2)	16	Asbestos Cement	1974	120	959	0	Gravel/Sand	None	21
P-4314	16	Asbestos Cement	1974	120	1,501	0	Gravel/Sand	None	21
P-4316(1)	6	CI	1918	40	267	0	Gravel/Sand	None	54
P-4316(2)	6	CI	1918	40	13	0	Gravel/Sand	None	54
P-4318	6	CI	1918	40	367	0	Gravel/Sand	None	54
P-4320	6	CI	1918	40	12	0	Gravel/Sand	None	54
P-4322	6	CI	1920	40	304	0	Gravel/Sand	None	53
P-4323	6	CI	1921	40	766	0	Gravel/Sand	None	53
P-4326	6	CI	1926	40	278	0	Gravel/Sand	None	53
P-4327(1)(1)(1	6	CIBIT	1934	40	192	0	r corrosive soil (wetlands or	None	49
P-4327(1)(1)(2	6	CIBIT	1934	40	272	0	Gravel/Sand	None	44
P-4327(1)(2)	6	CIBIT	1934	40	314	0	r corrosive soil (wetlands or	None	49
P-4327(2)	6	CIBIT	1934	40	269	0	Gravel/Sand	None	44
P-4328	6	CI	1899	40	517	0	r corrosive soil (wetlands or	None	61
P-4329	6	CI	1912	40	271	0	Gravel/Sand	None	54
P-4330	1.5	Copper	1952	100	334	0	Gravel/Sand	None	64
P-4331	10	CI	1899	70	279	0	Gravel/Sand	None	45

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4335	10	CI	1899	70	13	0	Gravel/Sand	None	45
P-4338	10	CI	1899	70	83	0	Gravel/Sand	None	45
P-4339(1)	6	CI	1899	100	266	0	Gravel/Sand	None	56
P-4339(2)	8	DI	2018	110	79	0	Gravel/Sand	None	11
P-4341	8	CI	1899	80	360	0	Gravel/Sand	None	51
P-4343	8	CI	1899	80	292	0	Gravel/Sand	None	51
P-4347	6	CI	1899	50	561	0	Gravel/Sand	None	56
P-4348	6	CICL	1952	50	1,038	0	/ corrosive soil (wetlands or	None	46
P-4350	8	CI	1933	100	1,106	0	Gravel/Sand	None	55
P-4351	6	Asbestos Cement	1964	100	492	0	Gravel/Sand	None	39
P-4352	6	Asbestos Cement	1964	100	42	0	Gravel/Sand	None	39
P-4353	2	GS	1939	80	225	0	Gravel/Sand	None	66
P-4354	6	Asbestos Cement	1968	80	496	0	Gravel/Sand	None	39
P-4355	8	Asbestos Cement	1971	80	704	0	Gravel/Sand	None	29
P-4356	6	PVC	1983	80	439	0	Gravel/Sand	None	19
P-4357	8	PVC	1985	80	470	0	Gravel/Sand	None	14
P-4358	8	PVC	1983	80	1,186	0	Gravel/Sand	None	14
P-4359	8	PVC	1985	80	370	0	Gravel/Sand	None	14
P-4360	8	PVC	1985	80	196	0	Gravel/Sand	None	14
P-4361	8	PVC	1989	80	426	0	Gravel/Sand	None	14
P-4362	6	DICL	1970	80	162	0	Gravel/Sand	None	21
P-4363	6	Asbestos Cement	1962	80	725	0	Gravel/Sand	None	39
P-4364	6	Asbestos Cement	1977	80	226	0	Gravel/Sand	None	34
P-4365	2	WICL	1955	80	507	0	Gravel/Sand	None	66
P-4366	8	Asbestos Cement	1965	80	608	0	Gravel/Sand	None	34
P-4367	6	Asbestos Cement	1978	80	89	0	Gravel/Sand	None	34
P-4368(1)	6	DI	1997	80	470	0	Gravel/Sand	None	17
P-4368(2)	6	Asbestos Cement	1967	80	508	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4369	6	Asbestos Cement	1977	80	82	0	Gravel/Sand	None	34
P-4370	6	PVC	1985	80	365	0	Gravel/Sand	None	19
P-4371	8	DICL	2006	80	509	0	Gravel/Sand	None	11
P-4372	2	WICL	1954	80	610	0	Gravel/Sand	None	66
P-4373	6	Asbestos Cement	1967	80	649	0	Gravel/Sand	None	39
P-4374(1)	2	WICL	1957	80	163	0	Gravel/Sand	None	66
P-4374(2)	2	STCLPC	1960	80	310	0	Gravel/Sand	None	51
P-4375	6	DICL	1997	80	215	0	Gravel/Sand	None	17
P-4376	6	CI	1926	100	656	0	/ corrosive soil (wetlands or	None	57
P-4377	6	CI	1926	100	269	0	Gravel/Sand	None	53
P-4379	6	CI	1926	100	922	0	Gravel/Sand	Dirty Water	53
P-4380	6	CI	1926	100	657	0	Gravel/Sand	Dirty Water	53
P-4381	2	WICL	1962	80	564	0	Gravel/Sand	None	53
P-4382	8	Asbestos Cement	1981	80	115	0	Gravel/Sand	None	27
P-4383	6	Asbestos Cement	1981	100	114	0	Gravel/Sand	None	32
P-4384	6	Asbestos Cement	1981	100	123	0	Gravel/Sand	None	32
P-4385	6	Asbestos Cement	1964	80	734	0	Gravel/Sand	None	39
P-4386	8	DICL	2006	80	311	0	Gravel/Sand	None	11
P-4403	8	Asbestos Cement	1978	80	371	0	Gravel/Sand	None	29
P-4404(1)	8	Asbestos Cement	1959	100	265	0	Gravel/Sand	None	34
P-4404(2)	8	Asbestos Cement	1959	100	743	0	Gravel/Sand	None	34
P-4405(1)	8	Asbestos Cement	1976	100	914	0	/ corrosive soil (wetlands or	None	34
P-4405(2)	8	Asbestos Cement	1976	100	718	0	Gravel/Sand	None	29
P-4406	6	Asbestos Cement	1976	80	15	0	Gravel/Sand	None	34
P-4407	10	CICL	1940	100	32	0	Gravel/Sand	None	32
P-4409	16	Asbestos Cement	1974	60	44	0	Gravel/Sand	None	21
P-4411(1)	4	CI	1906	80	56	0	Gravel/Sand	None	60
P-4414	16	Asbestos Cement	1974	120	1,189	0	Gravel/Sand	None	21

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4415	16	Asbestos Cement	1974	120	617	0	Gravel/Sand	None	21
P-4416	8	PVC	1993	80	358	0	Gravel/Sand	None	12
P-4417	10	CICL	1940	100	495	0	Gravel/Sand	None	32
P-4419	6	Asbestos Cement	1968	80	445	0	Gravel/Sand	None	39
P-4420	10	CICL	1940	100	221	0	Gravel/Sand	None	32
P-4421	10	CICL	1940	100	738	0	Gravel/Sand	None	32
P-4423	6	Asbestos Cement	1966	80	352	0	Gravel/Sand	None	39
P-4424	2	WICL	1966	80	66	0	Gravel/Sand	None	53
P-4425	2	WICL	1966	80	79	0	Gravel/Sand	None	53
P-4426	10	CICL	1940	100	17	0	Gravel/Sand	None	32
P-4427	10	CICL	1941	100	1,276	0	Gravel/Sand	None	32
P-4428	8	Asbestos Cement	1976	80	168	0	Gravel/Sand	None	29
P-4429	6	Asbestos Cement	1976	80	207	0	Gravel/Sand	None	34
P-4430	8	Asbestos Cement	1977	80	650	0	Gravel/Sand	None	29
P-4431	6	Asbestos Cement	1977	80	145	0	Gravel/Sand	None	34
P-4432	8	CI	1923	100	463	0	Gravel/Sand	None	48
P-4433	8	CI	1923	100	469	0	Gravel/Sand	None	48
P-4435	6	DICL	2007	80	397	0	Gravel/Sand	None	16
P-4436(1)	8	DICL	2007	80	416	0	Gravel/Sand	None	11
P-4436(2)	8	DICL	2007	80	311	0	r corrosive soil (wetlands or	None	16
P-4437(1)	8	DICL	2011	80	48	0	Gravel/Sand	None	11
P-4437(2)	6	Asbestos Cement	1968	80	1,025	0	Gravel/Sand	None	39
P-4439	8	CI	1899	90	181	0	Gravel/Sand	None	51
P-4441	1.3	Copper	1934	80	349	0	Gravel/Sand	None	66
P-4442	4	CI	1923	80	407	0	Gravel/Sand	None	58
P-4443	4	CI	1923	80	392	0	Gravel/Sand	None	58
P-4445	8	CI	1899	40	318	0	Gravel/Sand	None	51
P-4447	2	WICL	1969	80	388	0	Gravel/Sand	None	53

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4448	8	CI	1899	40	24	0	Gravel/Sand	None	51
P-4449	8	CI	1899	40	382	0	Gravel/Sand	None	51
P-4451	6	CI	1899	40	356	0	Gravel/Sand	None	56
P-4452	6	CI	1899	40	734	0	Gravel/Sand	None	56
P-4453	2	PE	2006	80	148	0	Gravel/Sand	None	26
P-4454	16	Asbestos Cement	1963	120	881	0	Gravel/Sand	None	26
P-4455	16	Asbestos Cement	1963	120	31	0	Gravel/Sand	None	26
P-4456	12	CI	1926	60	6	0	Gravel/Sand	None	41
P-4458	12	CI	1926	60	205	0	Gravel/Sand	None	41
P-4459	12	CI	1926	60	501	0	Gravel/Sand	None	41
P-4460	4	CI	1926	80	172	0	Gravel/Sand	None	58
P-4462	8	CI	1899	40	341	0	Gravel/Sand	None	51
P-4464	8	CI	1899	40	78	0	Gravel/Sand	None	51
P-4465	1	Copper	1939	80	262	0	Gravel/Sand	None	66
P-4466	8	DICL	1985	80	316	0	Gravel/Sand	None	14
P-4467	2	PVC	1991	80	265	0	Gravel/Sand	None	27
P-4469	8	CI	1899	40	488	0	Gravel/Sand	None	51
P-4470	6	CI	1899	80	634	0	Gravel/Sand	None	56
P-4471	1.5	Copper	1931	80	214	0	Gravel/Sand	None	66
P-4472	6	Asbestos Cement	1977	40	11	0	Gravel/Sand	None	34
P-4473	6	CI	1899	40	543	0	Gravel/Sand	None	56
P-4474	6	CI	1899	80	718	1	Gravel/Sand	None	59
P-4475(1)	6	CICL	1948	80	264	0	Gravel/Sand	None	43
P-4475(2)	6	Asbestos Cement	1950	80	268	0	Gravel/Sand	None	52
P-4477	2	WICL	1950	80	220	0	Gravel/Sand	None	66
P-4479	10	CI	1899	70	275	0	Gravel/Sand	None	45
P-4481	12	DI	1977	70	123	0	/ corrosive soil (wetlands or	None	14
P-4482	10	CI	1899	70	194	0	Gravel/Sand	None	45

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4483	8	PVC	1991	80	106	0	Gravel/Sand	None	12
P-4484	12	Asbestos Cement	1977	125	308	0	Gravel/Sand	None	22
P-4485	12	Asbestos Cement	1977	125	342	0	Gravel/Sand	None	22
P-4486	8	Asbestos Cement	1983	80	105	0	Gravel/Sand	None	27
P-4488	12	Asbestos Cement	1977	125	6	0	Gravel/Sand	None	22
P-4489	12	Asbestos Cement	1977	125	17	0	Gravel/Sand	None	22
P-4490	12	Asbestos Cement	1977	125	263	0	Gravel/Sand	None	22
P-4491	8	Asbestos Cement	1977	80	640	0	Gravel/Sand	None	29
P-4492	8	CI	1899	80	38	0	Gravel/Sand	None	51
P-4493	6	CI	1899	80	252	0	Gravel/Sand	None	56
P-4494	8	CI	1899	80	228	0	Gravel/Sand	None	51
P-4495	6	CI	1899	40	19	0	Gravel/Sand	None	56
P-4496	6	CI	1899	80	18	0	Gravel/Sand	None	56
P-4497	12	Asbestos Cement	1963	125	463	0	Gravel/Sand	None	27
P-4498	12	Asbestos Cement	1963	125	203	0	Gravel/Sand	None	27
P-4499	6	CI	1912	80	320	0	Gravel/Sand	None	54
P-4500	6	CI	1902	80	512	0	Gravel/Sand	None	55
P-4501(1)	10	Asbestos Cement	1963	125	505	0	r corrosive soil (wetlands or	None	32
P-4501(2)	10	Asbestos Cement	1963	125	1,874	0	Gravel/Sand	None	28
P-4504	8	DI	2018	110	225	0	Gravel/Sand	None	11
P-4505(1)	8	DI	2018	110	80	0	Gravel/Sand	None	11
P-4505(2)	6	Asbestos Cement	1951	100	583	0	Gravel/Sand	None	52
P-4506	8	CI	1899	80	319	0	Gravel/Sand	None	51
P-4507	1	Copper	1915	80	237	0	Gravel/Sand	None	60
P-4508	8	Asbestos Cement	1951	80	8	0	Gravel/Sand	None	47
P-4509	6	DICL	2018	110	9	0	Gravel/Sand	None	16
P-4510(1)	8	Asbestos Cement	1951	80	54	0	Gravel/Sand	None	47
P-4510(2)	8	Asbestos Cement	1968	80	174	0	Gravel/Sand	None	34

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4511	6	DICL	2018	110	107	0	/ corrosive soil (wetlands or	None	21
P-4512	8	Asbestos Cement	1968	80	53	0	Gravel/Sand	None	34
P-4513	8	Asbestos Cement	1968	80	45	0	Gravel/Sand	None	34
P-4515	6	DICL	2018	110	25	0	Gravel/Sand	None	16
P-4516	8	DI	2018	110	199	0	Gravel/Sand	None	11
P-4517	8	DI	2018	110	42	0	Gravel/Sand	None	11
P-4518	6	Asbestos Cement	1954	80	227	0	Gravel/Sand	None	52
P-4519(1)	8	DI	2018	110	81	0	Gravel/Sand	None	11
P-4520	6	DI	2018	110	68	0	Gravel/Sand	None	16
P-4522	6	CI	1906	70	38	0	Gravel/Sand	None	55
P-4524	10	CI	1899	70	18	0	Gravel/Sand	None	45
P-4525	8	Asbestos Cement	1959	130	1,530	0	Gravel/Sand	None	34
P-4526	6	CICL	1949	80	216	0	Gravel/Sand	None	43
P-4527	1	Copper	1947	80	608	0	/ corrosive soil (wetlands or	None	69
P-4528	2	Copper	1949	80	601	0	Gravel/Sand	None	65
P-4529	8	PVC	1985	100	1,281	0	Gravel/Sand	None	14
P-4530	8	PVC	1985	100	15	0	Gravel/Sand	None	14
P-4531	2	PVC	1985	80	415	0	Gravel/Sand	None	29
P-4532	8	CI	1933	100	17	0	Gravel/Sand	None	55
P-4535	8	CI	1899	100	25	0	Gravel/Sand	None	51
P-4536	8	CI	1899	80	34	0	Gravel/Sand	None	51
P-4537	8	CI	1899	100	825	0	Gravel/Sand	None	51
P-4538	8	CI	1899	100	439	0	Gravel/Sand	None	51
P-4539	2	WICL	1964	80	705	0	Gravel/Sand	None	53
P-4540	8	CI	1899	70	610	0	Gravel/Sand	None	51
P-4541	8	CICL	1952	70	160	0	Gravel/Sand	None	37
P-4544	10	CI	1914	70	342	0	Gravel/Sand	None	43
P-4545	10	CI	1914	70	35	0	Gravel/Sand	None	43

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4546	10	CI	1914	70	265	0	Gravel/Sand	None	43
P-4547	6	Asbestos Cement	1974	100	909	0	Gravel/Sand	Dirty Water	34
P-4548	6	CICL	1948	100	276	0	Gravel/Sand	None	43
P-4549	6	Asbestos Cement	1952	100	675	0	Gravel/Sand	None	52
P-4550	6	Asbestos Cement	1952	100	151	0	Gravel/Sand	None	52
P-4551	6	Asbestos Cement	1961	80	513	0	Gravel/Sand	None	39
P-4552	2	WICL	1961	80	351	0	Gravel/Sand	None	53
P-4553	2	PVC	1974	80	120	0	Gravel/Sand	None	31
P-4554	8	DICL	2006	100	171	0	Gravel/Sand	None	11
P-4556	8	DICL	2006	80	82	0	Gravel/Sand	None	11
P-4557(1)	8	Asbestos Cement	1956	110	641	0	Gravel/Sand	None	47
P-4557(2)	8	Asbestos Cement	1950	110	683	0	Gravel/Sand	None	47
P-4558	8	Asbestos Cement	1950	110	337	0	Gravel/Sand	None	47
P-4559	6	Asbestos Cement	1950	80	455	0	Gravel/Sand	None	52
P-4560	2	WICL	1950	80	174	0	Gravel/Sand	None	66
P-4561	8	CI	1933	50	375	0	Gravel/Sand	None	55
P-4563	6	Asbestos Cement	1950	80	535	0	Gravel/Sand	None	52
P-4564(1)	8	CI	1933	100	92	0	Gravel/Sand	None	55
P-4564(2)	8	CI	1933	100	235	0	r corrosive soil (wetlands or	None	60
P-4565	8	CI	1933	100	886	0	Gravel/Sand	None	55
P-4567	6	Asbestos Cement	1959	80	137	0	Gravel/Sand	None	39
P-4568	2	WICL	1959	80	284	0	Gravel/Sand	None	53
P-4569	2	WICL	1959	80	301	0	Gravel/Sand	None	53
P-4570	6	Asbestos Cement	1959	80	514	0	Gravel/Sand	None	39
P-4571	2	WI	1928	80	151	0	Gravel/Sand	None	61
P-4572	6	Asbestos Cement	1956	80	273	0	Gravel/Sand	None	52
P-4573	2	WICL	1956	80	346	0	Gravel/Sand	None	66
P-4575	6	Asbestos Cement	1963	80	48	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4576	8	DICL	2002	80	115	0	Gravel/Sand	None	11
P-4577	1.3	GS	1925	80	521	0	Gravel/Sand	Dirty Water	59
P-4578	2	Copper	1948	80	128	0	Gravel/Sand	None	65
P-4579	2	Copper	1964	80	224	0	Gravel/Sand	None	51
P-4580(1)	1.5	Copper	1948	80	187	0	Gravel/Sand	None	65
P-4580(2)	1	Copper	1961	80	210	0	Gravel/Sand	None	51
P-4581	6	Asbestos Cement	1956	100	1,338	0	Gravel/Sand	None	52
P-4583	6	Asbestos Cement	1960	80	152	0	Gravel/Sand	None	39
P-4584	6	Asbestos Cement	1960	80	109	0	Gravel/Sand	None	39
P-4585	2	PVC	1974	80	215	0	Gravel/Sand	None	31
P-4586	6	Asbestos Cement	1960	100	80	0	Gravel/Sand	None	39
P-4587(1)	6	Asbestos Cement	1965	100	450	0	Gravel/Sand	None	39
P-4587(2)	6	Asbestos Cement	1975	100	593	0	Gravel/Sand	None	34
P-4588	2	PVC	1965	80	102	0	Gravel/Sand	None	36
P-4589	6	PVC	1986	80	208	0	Gravel/Sand	None	19
P-4590	8	PVC	1986	80	279	0	Gravel/Sand	None	14
P-4591	6	PVC	1986	80	126	0	Gravel/Sand	None	19
P-4592	6	PVC	1986	80	249	0	Gravel/Sand	None	19
P-4593	12	DICL	2006	130	619	0	Gravel/Sand	None	4
P-4594	12	DICL	2002	130	164	0	Gravel/Sand	None	4
P-4595	8	DICL	2002	80	121	0	Gravel/Sand	None	11
P-4598(1)	12	DICL	2012	130	535	0	Gravel/Sand	None	4
P-4598(2)	12	DICL	2012	130	177	0	Gravel/Sand	None	4
P-4599	12	DICL	2002	130	11	0	Gravel/Sand	None	4
P-4600	12	DICL	2004	130	100	0	Gravel/Sand	None	4
P-4601	8	Asbestos Cement	1976	80	232	0	Gravel/Sand	None	29
P-4602	6	DI	1982	80	216	0	Gravel/Sand	None	19
P-4603	6	Asbestos Cement	1978	80	119	0	Gravel/Sand	None	34

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4604	8	DICL	2005	80	102	0	Gravel/Sand	None	11
P-4605	12	PVC	2002	130	178	0	Gravel/Sand	None	4
P-4608	12	PVC	1989	130	11	0	Gravel/Sand	None	7
P-4611	8	CI	1933	60	18	0	Gravel/Sand	None	55
P-4614	8	CI	1933	40	1,149	0	Identified corrosive soil	None	60
P-4616	2	WICL	1954	80	265	0	Gravel/Sand	None	66
P-4617	8	CI	1933	40	334	0	Identified corrosive soil	None	60
P-4618	8	CI	1933	40	747	0	Identified corrosive soil	None	60
P-4619	1	Copper	1941	80	394	0	Gravel/Sand	None	65
P-4620	8	DICL	2006	80	25	0	Gravel/Sand	None	11
P-4621	2	PVC	2006	80	238	0	Gravel/Sand	None	26
P-4622	8	DICL	2006	80	783	0	Gravel/Sand	None	11
P-4623	8	CI	1933	65	381	0	Identified corrosive soil	None	60
P-4624	8	CI	1933	65	460	0	Identified corrosive soil	None	60
P-4626	6	CI	1933	80	239	0	Gravel/Sand	None	60
P-4627	8	ACBIT	1980	80	462	0	Gravel/Sand	None	27
P-4629	8	CI	1933	65	209	0	Gravel/Sand	None	55
P-4630	12	PVC	1989	130	342	0	Gravel/Sand	None	7
P-4631	12	PVC	1989	130	81	0	Gravel/Sand	None	7
P-4633	1.5	Copper	1947	80	2,003	0	Identified corrosive soil	None	70
P-4634	6	CI	1899	80	345	0	Identified corrosive soil	None	61
P-4635	6	CI	1899	80	434	0	Gravel/Sand	None	56
P-4636	2	WICL	1961	80	227	0	Gravel/Sand	None	53
P-4637	6	CI	1899	80	363	0	Gravel/Sand	None	56
P-4638	6	Asbestos Cement	1972	80	318	0	Gravel/Sand	None	34
P-4639	6	CI	1899	80	177	0	Gravel/Sand	None	56
P-4640	6	CI	1899	80	985	0	Gravel/Sand	None	56
P-4641	6	CI	1899	80	710	0	Gravel/Sand	None	56

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4642	6	CI	1899	80	455	0	Gravel/Sand	None	56
P-4643	6	CI	1899	80	368	0	Gravel/Sand	None	56
P-4644	6	CI	1899	80	226	0	Gravel/Sand	None	56
P-4645	1	Copper	1947	80	462	0	Gravel/Sand	None	65
P-4646	2	Copper	1940	80	319	0	Gravel/Sand	None	65
P-4647	2	Copper	1952	80	164	0	Gravel/Sand	None	64
P-4649	6	CIBIT	1939	100	313	0	Gravel/Sand	None	44
P-4650	6	CIBIT	1939	100	436	0	Gravel/Sand	None	44
P-4651	2	WICL	1952	80	163	0	Gravel/Sand	None	66
P-4652(1)	2	Copper	1940	80	556	0	Gravel/Sand	None	65
P-4652(2)	6	CIBIT	1939	80	334	0	Gravel/Sand	None	44
P-4653	1	Copper	1946	80	107	0	Gravel/Sand	None	65
P-4654	12	Asbestos Cement	1975	125	484	0	Gravel/Sand	None	22
P-4655	12	Asbestos Cement	1975	125	335	0	Gravel/Sand	None	22
P-4656	2	WICL	1961	80	252	0	Gravel/Sand	None	53
P-4657	2	WICL	1951	80	195	0	Gravel/Sand	None	66
P-4658	2	WICL	1951	80	265	0	Gravel/Sand	None	66
P-4659	2	WICL	1964	80	85	0	Gravel/Sand	None	53
P-4660	6	Asbestos Cement	1950	100	190	0	Gravel/Sand	None	52
P-4661	6	Asbestos Cement	1950	100	292	0	Gravel/Sand	None	52
P-4662(1)	2	WICL	1961	80	269	0	Gravel/Sand	None	53
P-4662(2)	2	PVC	1979	80	267	0	Gravel/Sand	None	31
P-4663	2	Copper	1940	80	208	0	Gravel/Sand	None	65
P-4664	8	CI	1899	60	544	0	Identified corrosive soil	None	56
P-4665	8	CI	1899	60	285	0	Identified corrosive soil	None	56
P-4666	2	Copper	1940	80	161	0	Gravel/Sand	None	65
P-4669	2	PVC	1986	80	273	0	Gravel/Sand	None	29
P-4670	8	CI	1899	60	324	0	Identified corrosive soil	None	56

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4671	8	CI	1899	60	515	1	Identified corrosive soil	None	59
P-4672	4	CI	1899	80	709	0	Gravel/Sand	None	61
P-4673	8	CI	1899	60	462	0	Gravel/Sand	None	51
P-4674	8	CI	1899	60	329	0	Gravel/Sand	None	51
P-4675	4	CI	1899	80	359	0	Gravel/Sand	None	61
P-4676	2	WICL	1963	80	213	0	Gravel/Sand	None	53
P-4677	2	WICL	1963	80	69	0	Gravel/Sand	None	53
P-4678	2	WICL	1963	80	141	0	Gravel/Sand	None	53
P-4679	2	WICL	1952	80	797	0	Gravel/Sand	None	66
P-4681	6	CI	1899	100	271	0	Gravel/Sand	None	56
P-4683	6	CI	1899	100	320	0	Gravel/Sand	None	56
P-4684	2	WICL	1954	80	714	0	Gravel/Sand	None	66
P-4685	6	CI	1899	100	239	0	Gravel/Sand	None	56
P-4686	6	CI	1899	100	237	0	Gravel/Sand	None	56
P-4687	2	WICL	1954	80	309	0	Gravel/Sand	None	66
P-4688	6	CI	1899	100	491	0	Gravel/Sand	None	56
P-4689	6	CI	1899	100	124	0	Gravel/Sand	None	56
P-4690(1)	6	Asbestos Cement	1973	80	258	0	Gravel/Sand	None	34
P-4690(2)	8	DICL	2006	80	513	0	Gravel/Sand	None	11
P-4692	6	CI	1899	100	275	0	Gravel/Sand	None	56
P-4693	2	WI	1929	80	198	0	Gravel/Sand	None	61
P-4694	6	CI	1899	100	19	0	Gravel/Sand	None	56
P-4695	6	CI	1899	100	320	0	Gravel/Sand	None	56
P-4696	6	Asbestos Cement	1972	80	283	0	Gravel/Sand	None	34
P-4697	6	CI	1899	100	150	0	Gravel/Sand	None	56
P-4698	6	CI	1899	100	353	0	Gravel/Sand	None	56
P-4699	2	WICL	1954	80	383	0	Gravel/Sand	None	66
P-4700	6	CI	1899	100	259	0	Gravel/Sand	None	56

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4701(1)	6	CI	1899	100	703	0	Gravel/Sand	None	56
P-4702	2	Copper	1936	80	299	0	Gravel/Sand	None	66
P-4703	6	CICL	1947	100	354	0	Gravel/Sand	None	43
P-4705	6	Asbestos Cement	1950	80	607	0	Gravel/Sand	None	52
P-4706	6	CICL	1947	100	267	0	Gravel/Sand	None	43
P-4709	2	WICL	1946	80	298	0	Gravel/Sand	None	67
P-4710	2	WICL	1946	80	583	0	Gravel/Sand	None	67
P-4711	6	CICL	1966	80	44	0	Gravel/Sand	None	29
P-4713	12	DICL	2009	60	111	0	Gravel/Sand	None	4
P-4714	6	DICL	2006	80	281	0	Gravel/Sand	None	19
P-4715	12	DICL	2000	130	188	0	Gravel/Sand	None	4
P-4717(1)	8	DI	2016	110	26	0	Gravel/Sand	None	11
P-4717(2)	2	GS	1923	80	274	0	Gravel/Sand	None	59
P-4718(1)	8	DI	2016	110	32	0	Gravel/Sand	None	11
P-4718(2)	2	Copper	1920	80	232	0	Gravel/Sand	None	59
P-4719	12	DICL	2000	130	190	0	Gravel/Sand	None	4
P-4721(1)	2	Copper	1923	80	279	0	Gravel/Sand	None	59
P-4721(2)	8	DI	2016	110	26	0	Gravel/Sand	None	11
P-4722(1)	8	DI	2016	110	37	0	Gravel/Sand	None	11
P-4722(2)	2	GS	1939	80	196	0	Gravel/Sand	None	66
P-4723	12	DICL	2000	130	172	0	Gravel/Sand	None	4
P-4725(1)	2	WICL	1956	80	300	0	Gravel/Sand	None	66
P-4725(2)	8	DI	2016	110	30	0	Gravel/Sand	None	11
P-4726(1)	8	DI	2016	110	24	0	Gravel/Sand	None	11
P-4726(2)	2	WICL	1961	80	313	0	Gravel/Sand	None	53
P-4727	12	DICL	2000	130	184	0	Gravel/Sand	None	4
P-4729(1)	2	GS	1924	80	291	1	Gravel/Sand	None	61
P-4729(2)	8	DI	2016	110	31	1	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4730(1)	8	DI	2016	110	21	0	Gravel/Sand	None	11
P-4730(2)	1.3	Copper	1950	80	330	0	Gravel/Sand	None	64
P-4731	12	DICL	2000	130	198	0	Gravel/Sand	None	4
P-4732	12	DICL	2001	130	196	0	Gravel/Sand	None	4
P-4733(1)	2	WICL	1956	80	281	1	Gravel/Sand	None	68
P-4733(2)	8	DI	2016	110	37	1	Gravel/Sand	None	14
P-4734(1)(1)	8	DI	2016	110	33	0	Gravel/Sand	None	11
P-4734(1)(2)	1.5	GS	1929	80	282	0	Gravel/Sand	None	59
P-4734(2)	2	PVC	1989	80	205	0	Gravel/Sand	None	29
P-4735(1)	2	WICL	1953	80	304	0	Gravel/Sand	None	66
P-4735(2)	8	DI	2016	110	29	0	Gravel/Sand	None	11
P-4736(1)	8	DI	2016	110	38	0	Gravel/Sand	None	11
P-4736(2)	2	GS	1926	80	408	0	Gravel/Sand	None	59
P-4737	12	DICL	2001	130	209	0	Gravel/Sand	None	4
P-4739(1)	2	Copper	1949	80	238	0	Gravel/Sand	None	65
P-4739(2)	8	DI	2016	110	27	0	Gravel/Sand	None	11
P-4740(1)	8	DI	2016	110	37	0	Gravel/Sand	None	11
P-4740(2)	2	GS	1923	80	343	0	Gravel/Sand	None	59
P-4741	12	DICL	2001	130	192	0	Gravel/Sand	None	4
P-4743(1)	2	Copper	1951	80	242	1	Gravel/Sand	None	66
P-4743(2)	8	DI	2016	110	30	1	Gravel/Sand	None	14
P-4744(1)	8	DI	2016	110	38	0	Gravel/Sand	None	11
P-4744(2)	2	GS	1930	80	322	0	Gravel/Sand	None	66
P-4745	12	DICL	2001	130	201	0	Gravel/Sand	None	4
P-4747(1)	2	Copper	1951	80	243	0	Gravel/Sand	None	64
P-4747(2)	8	DI	2016	110	25	0	Gravel/Sand	None	11
P-4748(1)	8	DI	2016	110	32	0	Gravel/Sand	None	11
P-4748(2)	2	GS	1922	80	326	0	Gravel/Sand	None	59

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4749	12	DICL	2001	130	201	0	Gravel/Sand	None	4
P-4751(1)	1.3	WICL	1964	80	89	0	Gravel/Sand	None	53
P-4751(2)(1)	2	Copper	1951	80	163	0	Gravel/Sand	None	64
P-4751(2)(2)	8	DI	2016	110	30	0	Gravel/Sand	None	11
P-4752(1)	8	DI	2016	110	23	0	Gravel/Sand	None	11
P-4752(2)(1)	2	WICL	1952	80	419	0	Gravel/Sand	None	66
P-4752(2)(2)	2	WICL	1952	80	91	0	Gravel/Sand	None	66
P-4753	8	CICL	1945	80	630	0	Identified corrosive soil	None	43
P-4755	6	CI	1926	80	302	0	Gravel/Sand	None	53
P-4756	8	CI	1926	80	804	2	Gravel/Sand	None	52
P-4758	4	CI	1926	50	575	0	Gravel/Sand	None	58
P-4759	8	CI	1925	80	437	0	Gravel/Sand	None	48
P-4760	8	CI	1925	80	375	0	Gravel/Sand	None	48
P-4761	4	CI	1925	50	413	0	Gravel/Sand	None	58
P-4762	2	Copper	1926	80	217	0	Gravel/Sand	None	59
P-4763(1)	6	CICL	1940	100	554	0	Gravel/Sand	None	43
P-4763(2)	6	Asbestos Cement	1953	100	645	0	Gravel/Sand	None	52
P-4764	6	Asbestos Cement	1953	100	24	0	Gravel/Sand	None	52
P-4765(1)	2	GS	1930	80	565	0	Gravel/Sand	None	66
P-4765(2)	2	PVC	1979	80	411	0	Gravel/Sand	None	31
P-4766	6	Asbestos Cement	1978	80	204	0	Gravel/Sand	None	34
P-4767	6	Asbestos Cement	1978	80	199	0	Gravel/Sand	None	34
P-4768	6	Asbestos Cement	1965	100	534	0	Gravel/Sand	None	39
P-4769	6	Asbestos Cement	1965	100	640	0	/ corrosive soil (wetlands or	None	44
P-4770	8	DICL	2005	80	398	0	Gravel/Sand	None	11
P-4771	2	WICL	1965	80	246	0	/ corrosive soil (wetlands or	None	58
P-4772	10	CICL	1940	80	141	0	Gravel/Sand	None	32
P-4774	8	PVC	1988	80	228	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4775	2	PVC	1988	80	166	0	Gravel/Sand	None	29
P-4776	2	PVC	1998	80	58	0	Gravel/Sand	None	27
P-4777	2	PVC	1998	80	62	0	Gravel/Sand	None	27
P-4778	8	PVC	1992	80	428	0	Gravel/Sand	None	12
P-4779	10	CICL	1940	80	401	0	Gravel/Sand	None	32
P-4780	10	CICL	1940	80	337	0	Gravel/Sand	None	32
P-4781	6	CI	1899	80	294	0	Gravel/Sand	None	56
P-4782	16	Asbestos Cement	1974	125	957	0	Gravel/Sand	None	21
P-4783	16	Asbestos Cement	1974	125	685	0	Gravel/Sand	None	21
P-4784	10	CICL	1940	70	77	0	Gravel/Sand	None	32
P-4786	8	DICL	2008	80	60	0	Gravel/Sand	None	11
P-4787	12	DICL	2008	70	68	0	Gravel/Sand	None	4
P-4788	12	CI	1899	60	1,571	0	Gravel/Sand	None	44
P-4789	16	Asbestos Cement	1968	125	120	0	Gravel/Sand	None	26
P-4790	16	Asbestos Cement	1968	125	2,435	0	Gravel/Sand	None	26
P-4791	8	DICL	2008	80	13	0	Gravel/Sand	None	11
P-4792	6	Asbestos Cement	1965	100	22	0	Gravel/Sand	None	39
P-4793	6	Asbestos Cement	1965	100	1,618	0	Gravel/Sand	None	39
P-4794	2	WICL	1965	80	266	0	Gravel/Sand	None	53
P-4795	8	Asbestos Cement	1961	100	739	0	Gravel/Sand	None	34
P-4796	8	Asbestos Cement	1961	100	4,737	0	Gravel/Sand	None	34
P-4798	6	Asbestos Cement	1978	80	169	0	Gravel/Sand	None	34
P-4799	8	Asbestos Cement	1964	80	199	0	Gravel/Sand	None	34
P-4800	2	WICL	1961	80	306	0	Gravel/Sand	None	53
P-4801	6	Asbestos Cement	1970	80	278	0	Gravel/Sand	None	34
P-4802	8	Asbestos Cement	1969	100	555	0	Gravel/Sand	None	34
P-4803	8	Asbestos Cement	1969	100	1,689	0	Gravel/Sand	None	34
P-4804	8	PVC	1988	80	371	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4806	6	CI	1926	100	90	0	Gravel/Sand	None	53
P-4807	6	Asbestos Cement	1957	100	165	0	Gravel/Sand	None	52
P-4809	2	WICL	1957	80	303	0	Gravel/Sand	None	66
P-4810	6	Asbestos Cement	1957	100	370	0	Gravel/Sand	None	52
P-4811	6	Asbestos Cement	1957	100	69	0	Gravel/Sand	None	52
P-4812	2	WICL	1957	80	254	0	Gravel/Sand	None	66
P-4813	6	Asbestos Cement	1953	100	830	0	Gravel/Sand	None	52
P-4814	6	Asbestos Cement	1956	100	511	0	Gravel/Sand	None	52
P-4815	2	WICL	1955	80	603	0	Gravel/Sand	None	66
P-4816	6	Asbestos Cement	1971	80	305	0	Gravel/Sand	None	34
P-4819	2	Copper	1938	80	432	0	Gravel/Sand	None	66
P-4820	8	Asbestos Cement	1951	110	283	0	Gravel/Sand	None	47
P-4821	8	Asbestos Cement	1951	110	581	1	Gravel/Sand	None	49
P-4822	2	WICL	1946	80	315	0	Gravel/Sand	None	67
P-4823	2	PVC	1987	80	7	0	Gravel/Sand	None	29
P-4824	1	Copper	1946	80	72	0	Gravel/Sand	None	65
P-4825	2	PVC	1987	80	99	0	Gravel/Sand	None	29
P-4826	2	PVC	1977	80	197	0	Gravel/Sand	None	31
P-4827	6	CI	1930	100	1,182	1	Gravel/Sand	Dirty Water	63
P-4830	8	DICL	2003	80	821	0	Gravel/Sand	None	11
P-4831	8	DICL	2003	80	24	0	Gravel/Sand	None	11
P-4832	8	DICL	2001	100	197	0	Gravel/Sand	None	11
P-4833	8	DICL	2001	100	382	0	Gravel/Sand	None	11
P-4834	8	DICL	2003	80	386	0	Gravel/Sand	None	11
P-4835	8	DICL	2003	80	88	0	Gravel/Sand	None	11
P-4837(2)	6	CI	1931	100	274	0	Gravel/Sand	None	60
P-4838	6	Asbestos Cement	1965	100	65	0	Gravel/Sand	None	39
P-4839	6	Asbestos Cement	1965	100	180	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4840(1)	6	Asbestos Cement	1965	100	159	0	Gravel/Sand	None	39
P-4840(2)(1)	6	CI	1931	100	370	0	Gravel/Sand	None	60
P-4842	2	PVC	1988	80	468	0	Gravel/Sand	None	29
P-4843	2	WICL	1959	80	404	0	Gravel/Sand	None	53
P-4844	2	WICL	1957	80	574	0	Gravel/Sand	None	66
P-4845	2	WICL	1957	80	497	0	Gravel/Sand	None	66
P-4846	12	DICL	2001	130	198	0	Gravel/Sand	None	4
P-4847	12	DICL	2001	130	199	0	Gravel/Sand	None	4
P-4848(1)	6	Asbestos Cement	1970	80	942	0	Gravel/Sand	None	34
P-4848(2)	8	DI	2016	110	39	0	Gravel/Sand	None	11
P-4849(1)	8	DI	2016	110	33	0	Gravel/Sand	None	11
P-4849(2)	2	WICL	1956	80	751	0	Gravel/Sand	None	66
P-4850	12	DI	2016	120	290	0	Gravel/Sand	None	4
P-4851	12	DI	2016	120	106	0	Gravel/Sand	None	4
P-4852	8	PVC	1987	80	163	0	Gravel/Sand	None	14
P-4853(1)(1)	12	DI	2016	120	29	0	Gravel/Sand	None	4
P-4853(1)(2)	8	DICL	2016	120	619	0	Gravel/Sand	None	11
P-4853(2)(1)(1	2	WICL	1960	80	262	0	Gravel/Sand	None	53
P-4853(2)(1)(2	2	WICL	1960	80	394	0	Gravel/Sand	None	53
P-4853(2)(2)(1	1.3	Copper	1950	80	163	0	Gravel/Sand	None	64
P-4853(2)(2)(2	8	DI	2016	110	29	0	Gravel/Sand	None	11
P-4854(1)	8	DI	2016	110	30	0	Gravel/Sand	None	11
P-4854(2)	2	WICL	1962	80	429	0	Gravel/Sand	None	53
P-4855(1)	8	DI	2016	110	40	0	Gravel/Sand	None	11
P-4855(2)	1.5	Copper	1994	80	591	0	Gravel/Sand	None	42
P-4857	12	DICL	2001	130	205	0	Gravel/Sand	None	4
P-4858(1)	8	DI	2016	110	42	0	Gravel/Sand	None	11
P-4858(2)	2	WI	1932	80	700	0	Gravel/Sand	None	68

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4860	12	DICL	2001	130	212	0	Gravel/Sand	None	4
P-4861(1)	8	DI	2016	110	23	0	Gravel/Sand	None	11
P-4861(2)	2	Copper	1927	80	623	0	Gravel/Sand	None	59
P-4863	12	DICL	2001	130	192	0	Gravel/Sand	None	4
P-4864(1)	2	WICL	1955	80	702	0	Gravel/Sand	None	66
P-4864(2)	8	DI	2016	110	26	0	Gravel/Sand	None	11
P-4865(1)	8	DI	2016	110	21	0	Gravel/Sand	None	11
P-4865(2)	2	Copper	1930	80	490	0	Gravel/Sand	None	66
P-4866	12	DICL	2001	130	201	0	Gravel/Sand	None	4
P-4867	12	DICL	2001	130	202	0	Gravel/Sand	None	4
P-4868(1)	2	WICL	1957	80	903	0	Gravel/Sand	None	66
P-4868(2)	8	DI	2016	110	26	0	Gravel/Sand	None	11
P-4869(1)	8	DI	2016	110	20	0	Gravel/Sand	None	11
P-4869(2)	2	Copper	1940	80	463	0	Gravel/Sand	None	65
P-4870(1)	8	DI	2016	110	27	0	Gravel/Sand	None	11
P-4870(2)	2	WICL	1955	80	476	0	Gravel/Sand	None	66
P-4871	2	PVC	1994	80	203	0	Gravel/Sand	None	27
P-4872(1)	6	Asbestos Cement	1970	80	521	0	Gravel/Sand	None	34
P-4872(2)(1)	2	WICL	1960	80	260	0	Gravel/Sand	None	53
P-4872(2)(2)	8	DI	2016	110	35	0	Gravel/Sand	None	11
P-4873(1)	8	DI	2016	110	37	0	Gravel/Sand	None	11
P-4873(2)(1)	2	WICL	1956	80	509	0	Gravel/Sand	None	66
P-4873(2)(2)	2	WICL	1956	80	117	0	Gravel/Sand	None	66
P-4875	12	DICL	2001	130	191	0	Gravel/Sand	None	4
P-4876(1)	2	WICL	1963	80	587	0	Gravel/Sand	None	53
P-4876(2)	8	DI	2016	110	32	0	Gravel/Sand	None	11
P-4877(1)	8	DI	2016	110	32	0	Gravel/Sand	None	11
P-4877(2)	2	WICL	1956	80	393	0	Gravel/Sand	None	66

Pipe Input Data
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Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4879	12	DICL	2001	130	203	0	Gravel/Sand	None	4
P-4880(1)	2	STCLPC	1960	80	279	0	Gravel/Sand	None	51
P-4880(2)(1)	2	WICL	1958	80	195	0	Gravel/Sand	None	66
P-4880(2)(2)	8	DI	2016	110	34	0	Gravel/Sand	None	11
P-4881(1)	8	DI	2016	110	33	0	Gravel/Sand	None	11
P-4881(2)	2	Copper	1937	80	340	0	Gravel/Sand	None	66
P-4882	12	DICL	2001	130	200	0	Gravel/Sand	None	4
P-4883	12	DICL	2001	130	207	0	Gravel/Sand	None	4
P-4884(1)	2	WICL	1955	80	406	0	Gravel/Sand	None	66
P-4884(2)	8	DI	2016	110	29	0	Gravel/Sand	None	11
P-4885(1)(1)	8	DI	2016	110	19	1	Gravel/Sand	None	14
P-4885(1)(2)	1.5	Copper	1947	80	225	1	Gravel/Sand	None	67
P-4885(2)(1)(1	1.3	Copper	1947	80	245	0	Gravel/Sand	None	65
P-4885(2)(1)(2	1.3	Copper	1947	80	98	0	Gravel/Sand	None	65
4885(2)(2)(1)(	2	WICL	1947	80	91	0	Gravel/Sand	None	67
4885(2)(2)(1)(	2	WICL	1947	80	538	0	Gravel/Sand	None	67
P-4885(2)(2)(2	8	DI	2016	110	17	0	Gravel/Sand	None	11
P-4886(1)(1)	8	DI	2016	110	31	0	Gravel/Sand	None	11
P-4886(1)(2)	2	WICL	1955	80	147	0	Gravel/Sand	None	66
P-4886(2)	2	STCLPC	1960	80	160	0	Gravel/Sand	None	51
P-4887	12	DICL	2001	130	203	0	Gravel/Sand	None	4
P-4888	12	DICL	2001	130	188	0	Gravel/Sand	None	4
P-4889(1)	2	WICL	1954	80	230	0	Gravel/Sand	None	66
P-4889(2)	8	DI	2016	110	21	0	Gravel/Sand	None	11
P-4890(1)	8	DI	2016	110	21	0	Gravel/Sand	None	11
P-4890(2)	2	WICL	1959	80	486	0	Gravel/Sand	None	53
P-4891(1)	8	DI	2016	110	26	0	Gravel/Sand	None	11
P-4891(2)	6	Asbestos Cement	1960	100	771	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4892	8	DICL	1998	100	311	0	Gravel/Sand	None	12
P-4894	8	Asbestos Cement	1971	100	28	0	Gravel/Sand	None	29
P-4895	8	Asbestos Cement	1971	100	428	0	Gravel/Sand	None	29
P-4896	6	Asbestos Cement	1971	80	36	0	Gravel/Sand	None	34
P-4899	2	GS	1936	80	341	0	Gravel/Sand	None	66
P-4900	8	DI	2011	100	144	0	Gravel/Sand	None	11
P-4902	6	DI	2011	100	158	0	Gravel/Sand	None	16
P-4903	6	CIBIT	1936	100	732	0	Gravel/Sand	None	44
P-4904	4	CIBIT	1936	80	130	0	Gravel/Sand	None	49
P-4905	8	DI	2011	100	596	0	Gravel/Sand	None	11
P-4906	8	DI	2011	100	306	0	Gravel/Sand	None	11
P-4907	2	PE	2011	80	232	0	Gravel/Sand	None	26
P-4908	12	CI	1898	60	438	0	Gravel/Sand	None	44
P-4910	6	CIBIT	1936	100	268	0	Gravel/Sand	None	44
P-4911	8	DICL	2007	100	26	0	Gravel/Sand	None	11
P-4912	12	CI	1898	60	1,072	0	Gravel/Sand	None	44
P-4914	2	Copper	1975	80	428	0	Gravel/Sand	None	46
P-4915	8	CIBIT	1937	90	455	0	Gravel/Sand	None	39
P-4916	8	CIBIT	1937	90	421	0	Gravel/Sand	None	39
P-4917	8	DICL	2003	80	477	0	Gravel/Sand	None	11
P-4918	6	Asbestos Cement	1950	100	237	0	Gravel/Sand	None	52
P-4920	2	WICL	1964	80	220	0	Gravel/Sand	None	53
P-4921	6	Asbestos Cement	1959	100	649	0	Gravel/Sand	None	39
P-4922	6	Asbestos Cement	1964	100	143	0	Gravel/Sand	None	39
P-4923	2	WICL	1962	80	146	0	Gravel/Sand	None	53
P-4924	2	Copper	1948	80	292	0	Gravel/Sand	None	65
P-4925	6	CICL	1941	100	168	0	Gravel/Sand	None	43
P-4926(1)	6	CICL	1941	100	442	0	Gravel/Sand	None	43

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4926(2)	6	CIBIT	1935	100	526	0	Gravel/Sand	None	44
P-4928	6	CICL	1945	100	186	0	Gravel/Sand	None	43
P-4929	6	CICL	1945	100	760	0	Gravel/Sand	None	43
P-4931	6	Asbestos Cement	1954	100	276	0	Gravel/Sand	None	52
P-4932	6	Asbestos Cement	1954	100	475	0	Gravel/Sand	None	52
P-4933	6	Asbestos Cement	1975	80	301	0	Gravel/Sand	None	34
P-4934	6	CICL	1941	100	262	0	Gravel/Sand	None	43
P-4935	2	WICL	1949	100	34	0	Gravel/Sand	None	67
P-4936	2	WICL	1949	80	127	0	Gravel/Sand	None	67
P-4937	2	WICL	1949	80	284	0	Gravel/Sand	None	67
P-4938	2	WICL	1949	80	132	0	Gravel/Sand	None	67
P-4940	2	Copper	1950	80	256	0	Gravel/Sand	None	64
P-4941	2	WICL	1950	80	255	0	Gravel/Sand	None	66
P-4942	2	WICL	1952	80	580	0	Gravel/Sand	None	66
P-4943	6	CIBIT	1935	100	8	0	Gravel/Sand	None	44
P-4944	6	CIBIT	1935	100	515	0	Gravel/Sand	None	44
P-4945	1.5	Copper	1939	80	559	0	Gravel/Sand	None	66
P-4946	8	CI	1899	60	399	0	Gravel/Sand	None	51
P-4947	8	CI	1899	60	18	0	Gravel/Sand	None	51
P-4948	2	WICL	1954	80	97	0	Gravel/Sand	None	66
P-4949	8	CI	1899	60	381	0	Gravel/Sand	None	51
P-4950	8	Asbestos Cement	1954	60	19	0	Gravel/Sand	None	47
P-4951	2	WICL	1956	80	193	0	Gravel/Sand	None	66
P-4952	6	CIBIT	1935	100	186	0	Gravel/Sand	None	44
P-4953	6	CICL	1941	100	680	0	Gravel/Sand	None	43
P-4954	6	CICL	1940	80	200	0	Gravel/Sand	None	43
P-4955(1)	2	WICL	1949	80	195	0	Gravel/Sand	None	67
P-4955(2)	2	PVC	1965	80	111	0	Gravel/Sand	None	36

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-4956	2	Copper	1940	80	481	0	Gravel/Sand	None	65
P-4959(2)	6	Asbestos Cement	1966	80	198	0	Gravel/Sand	None	39
P-4962(2)	2	WICL	1951	80	333	0	Gravel/Sand	None	66
P-4965(2)	4	CI	1899	80	227	0	Gravel/Sand	None	61
P-4966(2)	6	CIBIT	1935	100	231	0	Gravel/Sand	None	44
P-4967	6	CIBIT	1935	100	577	0	Gravel/Sand	None	44
P-4968	8	DICL	2013	110	136	0	Gravel/Sand	None	11
P-4969	8	DICL	2013	110	398	0	Gravel/Sand	None	11
P-4972(2)	6	Asbestos Cement	1967	80	276	0	Gravel/Sand	None	39
P-4975(2)	8	Asbestos Cement	1965	80	399	0	Gravel/Sand	None	34
P-4976(1)	16	Asbestos Cement	1968	125	8	0	Gravel/Sand	None	26
P-4976(2)	16	Asbestos Cement	1968	125	606	0	Gravel/Sand	None	26
P-4978	12	CI	1898	70	351	0	Gravel/Sand	None	44
P-4981	12	CI	1898	70	17	0	Gravel/Sand	None	44
P-4982	12	CI	1898	70	633	0	Gravel/Sand	None	44
P-4988	12	CI	1898	60	538	0	Gravel/Sand	None	44
P-4989	12	CI	1898	60	15	0	Gravel/Sand	None	44
P-4991	8	CI	1899	60	98	0	Gravel/Sand	None	51
P-4993	6	CI	1929	80	322	0	Gravel/Sand	None	53
P-4994	4	CI	1929	80	184	0	Gravel/Sand	None	58
P-4995	8	CI	1899	60	180	0	Gravel/Sand	None	51
P-4997	4	CI	1915	80	336	0	Gravel/Sand	None	59
P-4999	8	CI	1899	60	188	0	Gravel/Sand	None	51
P-5000	4	CI	1919	80	189	0	Gravel/Sand	None	59
P-5001	8	CI	1899	60	249	0	Gravel/Sand	None	51
P-5002	8	CI	1899	60	228	0	Gravel/Sand	None	51
P-5003	4	CI	1899	80	345	0	Gravel/Sand	None	61
P-5004	4	CI	1929	80	235	0	Gravel/Sand	None	58

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5005	4	CI	1919	80	191	0	Gravel/Sand	None	59
P-5006	4	CI	1899	80	193	0	Gravel/Sand	None	61
P-5007	4	CI	1915	80	272	0	Gravel/Sand	None	59
P-5009	2	WICL	1956	80	351	0	Gravel/Sand	None	66
P-5010	6	Asbestos Cement	1949	100	213	0	Gravel/Sand	None	53
P-5011	6	Asbestos Cement	1949	100	10	0	Gravel/Sand	None	53
P-5012	2	Copper	1950	80	127	0	Gravel/Sand	None	64
P-5013	6	Asbestos Cement	1950	100	306	0	Gravel/Sand	None	52
P-5015	6	CICL	1948	80	239	0	Gravel/Sand	None	43
P-5016	2	Copper	1948	80	347	0	Gravel/Sand	None	65
P-5017	6	Asbestos Cement	1957	100	372	0	Gravel/Sand	None	52
P-5018	6	DICL	2008	100	121	0	Gravel/Sand	None	16
P-5021	12	Asbestos Cement	1977	125	950	0	Gravel/Sand	None	22
P-5022	12	Asbestos Cement	1977	125	31	0	Gravel/Sand	None	22
P-5023	8	CI	1899	80	19	0	Gravel/Sand	None	51
P-5024	6	CI	1927	80	560	0	Gravel/Sand	None	53
P-5025	6	Asbestos Cement	1954	80	436	0	Gravel/Sand	None	52
P-5027	2	WI	1941	80	454	0	Gravel/Sand	None	67
P-5028	2	Copper	1950	80	103	0	Gravel/Sand	None	64
P-5029	6	CICL	1948	100	434	0	Gravel/Sand	None	43
P-5030(1)	6	CICL	1948	100	283	0	Gravel/Sand	None	43
P-5030(2)	6	Asbestos Cement	1954	100	450	0	Gravel/Sand	None	52
P-5031(1)	2	WI	1941	80	310	0	Gravel/Sand	None	67
P-5031(2)(1)	1.3	Copper	1950	80	600	0	Gravel/Sand	None	64
P-5031(2)(2)	2	WICL	1957	80	256	0	Gravel/Sand	None	66
P-5032	8	CI	1899	80	210	0	Gravel/Sand	None	51
P-5033	6	CI	1912	80	710	0	Gravel/Sand	None	54
P-5034	4	CI	1923	80	653	0	Gravel/Sand	None	58

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5035	4	CI	1942	80	336	0	Gravel/Sand	None	64
P-5036	6	CICL	1948	80	347	0	Gravel/Sand	None	43
P-5039	6	Asbestos Cement	1952	100	163	0	Gravel/Sand	None	52
P-5040	12	Asbestos Cement	1976	125	652	0	Gravel/Sand	None	22
P-5041	12	Asbestos Cement	1976	125	669	0	Gravel/Sand	None	22
P-5042	12	Asbestos Cement	1976	130	8	0	Gravel/Sand	None	22
P-5043	6	CICL	1941	80	663	0	Gravel/Sand	None	43
P-5044	8	PVC	1990	80	178	0	Gravel/Sand	None	12
P-5045	6	CICL	1941	80	352	0	Gravel/Sand	None	43
P-5046	6	CICL	1941	80	456	0	Gravel/Sand	None	43
P-5047	8	PVC	1990	80	213	0	Gravel/Sand	None	12
P-5048	6	CICL	1941	80	746	0	Gravel/Sand	None	43
P-5049	8	Asbestos Cement	1959	110	23	0	Gravel/Sand	None	34
P-5050	8	Asbestos Cement	1959	110	656	0	Stray current	None	37
P-5051	8	Asbestos Cement	1977	80	52	0	Gravel/Sand	None	29
P-5052(1)	6	CICL	1941	80	445	0	Gravel/Sand	None	43
P-5053	6	Asbestos Cement	1954	100	34	0	Gravel/Sand	None	52
P-5054	6	Asbestos Cement	1954	100	439	0	Gravel/Sand	None	52
P-5055	6	Asbestos Cement	1976	80	33	0	Gravel/Sand	None	34
P-5056	12	Asbestos Cement	1954	125	69	0	Gravel/Sand	None	40
P-5058	8	DICL	1997	80	610	0	Gravel/Sand	None	12
P-5059	12	Asbestos Cement	1976	125	213	0	Gravel/Sand	None	22
P-5061	6	DICL	1997	80	195	0	Gravel/Sand	None	17
P-5063	12	Asbestos Cement	1977	125	466	0	Gravel/Sand	None	22
P-5064	6	Asbestos Cement	1977	80	64	0	Gravel/Sand	None	34
P-5065	12	Asbestos Cement	1976	125	369	0	Gravel/Sand	None	22
P-5066	12	Asbestos Cement	1977	125	116	0	Gravel/Sand	None	22
P-5067	8	DI	1982	80	498	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5074(2)	8	DICL	2005	80	378	0	Gravel/Sand	None	11
P-5077(2)	8	DICL	2005	80	283	0	Gravel/Sand	None	11
P-5080(2)	4	PVC	1988	80	190	0	Stray current	None	26
P-5083(2)	6	PVC	1988	80	218	0	Stray current	None	21
P-5085(2)(2)	12	DICL	2009	120	181	0	Stray current	None	7
P-5089	12	DICL	2009	60	210	0	Stray current	None	7
P-5090	12	DICL	2009	60	142	0	Gravel/Sand	None	4
P-5091	6	DICL	2009	100	58	0	Gravel/Sand	None	16
P-5092	6	CICL	1945	100	265	0	Gravel/Sand	None	43
P-5093	6	Asbestos Cement	1949	80	682	0	Gravel/Sand	None	53
P-5094	2	WICL	1949	80	142	0	Gravel/Sand	None	67
P-5095	6	CICL	1948	100	9	0	Gravel/Sand	None	43
P-5098	8	CI	1908	60	586	0	Gravel/Sand	None	50
P-5099	8	PVC	1982	80	294	0	Gravel/Sand	None	14
P-5102	8	PVC	1985	80	239	0	Gravel/Sand	None	14
P-5103	8	CI	1908	60	139	1	Gravel/Sand	None	53
P-5104	8	CI	1908	60	41	0	Gravel/Sand	None	50
P-5105(1)	2	GS	1931	80	146	0	Gravel/Sand	None	66
P-5105(2)	1.5	Copper	1947	80	516	0	Gravel/Sand	None	65
P-5106	6	CICL	1946	100	629	0	Gravel/Sand	None	43
P-5107	8	DICL	2001	100	33	0	Gravel/Sand	None	11
P-5109	8	DICL	2001	100	478	0	Gravel/Sand	None	11
P-5110	6	Asbestos Cement	1952	80	197	0	Gravel/Sand	None	52
P-5111	6	Asbestos Cement	1952	80	7	0	Gravel/Sand	None	52
P-5112	2	WICL	1952	80	170	0	Gravel/Sand	None	66
P-5113	2	WICL	1952	80	117	0	Gravel/Sand	None	66
P-5114	6	Asbestos Cement	1972	80	227	0	Gravel/Sand	None	34
P-5115	2	PVC	1975	80	129	0	Gravel/Sand	None	31

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5116	2	WICL	1957	80	646	0	Gravel/Sand	None	66
P-5117	8	DICL	2001	100	176	0	Gravel/Sand	None	11
P-5118	8	DICL	2001	100	190	0	Gravel/Sand	None	11
P-5119	8	DICL	2001	80	60	0	Gravel/Sand	None	11
P-5120	4	CI	1921	80	509	0	Gravel/Sand	None	58
P-5121	2	Copper	1949	80	60	0	Gravel/Sand	None	65
P-5122	2	Copper	1949	80	27	0	Gravel/Sand	None	65
P-5123	8	CI	1904	60	98	0	Gravel/Sand	None	50
P-5125	6	CI	1908	60	238	0	Gravel/Sand	None	55
P-5127	6	CI	1908	60	173	1	Gravel/Sand	None	58
P-5129(1)	6	CI	1908	60	180	0	Gravel/Sand	None	55
P-5129(2)	6	CI	1908	60	175	0	Gravel/Sand	None	55
P-5130	6	CI	1908	60	177	0	Gravel/Sand	None	55
P-5131	6	CI	1908	60	137	0	Gravel/Sand	None	55
P-5133	8	DICL	2006	60	125	0	Gravel/Sand	None	11
P-5135	6	CI	1908	60	28	0	Gravel/Sand	None	55
P-5136	6	CI	1908	60	144	0	Gravel/Sand	None	55
P-5137(1)	8	Asbestos Cement	1963	60	211	0	Gravel/Sand	None	34
P-5137(2)	8	CI	1904	60	178	0	Gravel/Sand	None	50
P-5139	8	CI	1904	60	179	0	Gravel/Sand	None	50
P-5141	8	CI	1904	60	152	0	Gravel/Sand	None	50
P-5143	8	CI	1904	60	173	0	Gravel/Sand	None	50
P-5145	8	CI	1904	60	68	0	Gravel/Sand	None	50
P-5149	8	CI	1907	60	432	0	Gravel/Sand	None	50
P-5151	8	CI	1907	60	187	0	Gravel/Sand	None	50
P-5153(1)	8	CI	1910	60	104	0	Gravel/Sand	None	49
P-5153(2)	8	DI	2017	110	12	0	Gravel/Sand	None	11
P-5155	8	CI	1910	60	178	0	Gravel/Sand	None	49

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5157	8	CI	1910	60	179	0	Gravel/Sand	None	49
P-5159	8	CI	1910	60	177	0	Gravel/Sand	None	49
P-5161	8	CI	1910	60	180	0	Gravel/Sand	None	49
P-5163	8	CI	1914	60	105	0	Gravel/Sand	None	49
P-5164	8	CI	1910	60	14	0	Gravel/Sand	None	49
P-5165	6	CI	1924	100	57	0	Gravel/Sand	None	53
P-5167	6	CI	1924	100	695	0	Gravel/Sand	None	53
P-5169	6	CI	1924	100	240	0	Gravel/Sand	None	53
P-5171	6	CI	1924	100	272	1	Gravel/Sand	None	55
P-5173	6	CI	1924	100	175	0	Gravel/Sand	None	53
P-5175	6	CI	1924	100	12	0	Gravel/Sand	None	53
P-5177	6	CI	1924	100	156	0	Gravel/Sand	None	53
P-5179	6	CI	1924	100	14	0	Gravel/Sand	None	53
P-5181	6	CI	1924	100	161	0	Gravel/Sand	None	53
P-5183	6	CI	1924	100	15	0	Gravel/Sand	None	53
P-5185(1)	6	CI	1924	100	140	0	Gravel/Sand	None	53
P-5185(2)	6	CI	1924	100	35	0	Gravel/Sand	None	53
P-5188	8	CI	1907	60	531	0	Gravel/Sand	None	50
P-5190	8	CI	1907	60	174	0	Gravel/Sand	None	50
P-5192	8	CI	1907	60	172	0	Gravel/Sand	None	50
P-5193	4	CI	1906	80	1,000	0	Gravel/Sand	None	60
P-5194	2	WI	1926	80	455	0	Gravel/Sand	None	61
P-5195	1.5	WI	1929	80	346	0	Gravel/Sand	None	61
P-5196	6	Asbestos Cement	1971	80	308	0	Gravel/Sand	None	34
P-5197	6	CI	1904	80	18	0	Gravel/Sand	None	55
P-5198	4	CI	1904	80	135	0	Gravel/Sand	None	60
P-5199	6	CI	1904	80	16	0	Gravel/Sand	None	55
P-5200	4	CI	1910	80	183	0	Gravel/Sand	None	59

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5201	4	CI	1910	80	169	0	Gravel/Sand	None	59
P-5202	4	CI	1910	80	10	0	Gravel/Sand	None	59
P-5203	4	CI	1910	80	171	0	Gravel/Sand	None	59
P-5205	4	CI	1910	80	183	0	Gravel/Sand	None	59
P-5206	4	CI	1910	80	178	0	Gravel/Sand	None	59
P-5207	4	CI	1910	80	173	0	Gravel/Sand	None	59
P-5208	4	CI	1914	80	183	0	Gravel/Sand	None	59
P-5209	4	CI	1914	80	169	0	Gravel/Sand	None	59
P-5210	6	CI	1914	80	9	0	Gravel/Sand	None	54
P-5211	4	CI	1924	80	173	0	Gravel/Sand	None	58
P-5212	4	CI	1914	80	935	0	Gravel/Sand	None	59
P-5213	2	Copper	1946	80	97	0	Gravel/Sand	None	65
P-5214	6	CI	1924	80	28	0	Gravel/Sand	None	53
P-5215	2	Copper	1920	80	135	0	Gravel/Sand	None	59
P-5216	2	PVC	1997	80	425	0	Gravel/Sand	None	27
P-5217	2	Copper	1947	80	142	1	Gravel/Sand	None	67
P-5218	2	WICL	1927	80	595	0	Gravel/Sand	None	61
P-5219	2	Copper	1930	80	178	0	Gravel/Sand	None	66
P-5220	2	WICL	1965	80	503	0	Gravel/Sand	None	53
P-5221	2	Copper	1950	80	146	0	Gravel/Sand	None	64
P-5222	12	DI	2017	120	381	0	Gravel/Sand	None	4
P-5223	4	CI	1910	80	437	0	Gravel/Sand	None	59
P-5224	4	CI	1910	80	461	0	Gravel/Sand	None	59
P-5225	4	CI	1910	80	506	0	Gravel/Sand	None	59
P-5226	4	CI	1914	80	510	0	Gravel/Sand	None	59
P-5227	4	CI	1915	80	307	0	Gravel/Sand	None	59
P-5228	2	Copper	1932	80	177	0	Gravel/Sand	None	66
P-5229	2	GS	1933	80	191	0	Gravel/Sand	None	66

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5230	4	CI	1910	80	316	0	Gravel/Sand	None	59
P-5231	4	CI	1910	80	329	0	Gravel/Sand	None	59
P-5232	4	CI	1904	80	380	0	Gravel/Sand	None	60
P-5233	6	CI	1904	80	5	0	Gravel/Sand	None	55
P-5234	2	Copper	1949	80	70	0	Gravel/Sand	None	65
P-5235	6	Asbestos Cement	1972	80	238	0	Gravel/Sand	None	34
P-5236	2	Copper	1946	80	230	0	Gravel/Sand	None	34
P-5237	4	CI	1906	80	166	0	Gravel/Sand	None	60
P-5238	6	CI	1904	80	54	0	Gravel/Sand	None	55
P-5239	4	CI	1906	80	121	0	Gravel/Sand	None	60
P-5240	4	CI	1906	80	215	0	Gravel/Sand	None	60
P-5242	4	CI	1905	80	69	0	Gravel/Sand	None	60
P-5243	4	CI	1906	80	174	0	Gravel/Sand	None	60
P-5244	6	CI	1904	80	277	0	Gravel/Sand	None	55
P-5245	6	CI	1904	80	46	0	Gravel/Sand	None	55
P-5246	6	CIBIT	1938	80	448	0	Gravel/Sand	None	44
P-5247	8	CI	1907	60	184	0	Gravel/Sand	None	50
P-5248	8	CI	1907	60	360	0	Gravel/Sand	None	50
P-5249	4	CI	1927	80	139	0	Gravel/Sand	None	58
P-5250	4	CI	1905	80	201	0	Gravel/Sand	None	60
P-5251	1	Copper	1951	80	65	0	Gravel/Sand	None	64
P-5252	8	DICL	2006	80	23	0	Gravel/Sand	None	11
P-5253	8	DI	2006	80	413	0	Gravel/Sand	None	11
P-5255	2	GS	1935	80	414	0	Gravel/Sand	None	66
P-5256	8	CI	1904	60	59	0	Gravel/Sand	None	50
P-5257	8	CI	1904	60	12	0	Gravel/Sand	None	50
P-5258	6	CI	1904	80	174	0	Gravel/Sand	None	55
P-5259	6	CI	1904	80	356	0	Gravel/Sand	None	55

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5260	6	CI	1904	80	378	0	Gravel/Sand	None	55
P-5261	6	CI	1930	80	150	0	Gravel/Sand	None	60
P-5262	6	CI	1915	80	420	0	Gravel/Sand	None	54
P-5263	6	CI	1915	80	214	0	Gravel/Sand	None	54
P-5264	6	CI	1915	80	830	0	Gravel/Sand	None	54
P-5265	6	CI	1915	80	174	0	Gravel/Sand	None	54
P-5266	6	CI	1908	60	14	0	Gravel/Sand	None	55
P-5267	8	CI	1908	60	277	0	Gravel/Sand	None	50
P-5268	6	CI	1915	80	302	0	Gravel/Sand	None	54
P-5269	6	CI	1915	80	371	0	Gravel/Sand	None	54
P-5270	12	Asbestos Cement	1969	120	66	0	Gravel/Sand	None	27
P-5272	8	PVC	1989	80	460	0	Gravel/Sand	None	14
P-5273(1)	1.5	Copper	1937	80	308	0	Gravel/Sand	None	66
P-5273(2)	1	Copper	1947	80	164	0	Gravel/Sand	None	65
P-5274	2	Copper	1946	80	279	0	Gravel/Sand	None	65
P-5275	12	Asbestos Cement	1969	120	248	0	Gravel/Sand	None	27
P-5277	8	DICL	2006	80	508	0	Gravel/Sand	None	11
P-5278	12	Asbestos Cement	1969	120	57	0	Gravel/Sand	None	27
P-5279(1)	12	Asbestos Cement	1969	120	150	0	Gravel/Sand	None	27
P-5279(2)	12	Asbestos Cement	1969	120	151	0	Gravel/Sand	None	27
P-5280	8	CI	1912	60	652	0	/ corrosive soil (wetlands or	None	53
P-5282	12	Asbestos Cement	1964	60	134	0	/ corrosive soil (wetlands or	None	32
P-5283	8	CI	1912	60	696	0	/ corrosive soil (wetlands or	None	53
P-5284	2	Copper	1926	80	236	0	Gravel/Sand	None	59
P-5285	8	CI	1907	60	168	0	Gravel/Sand	None	50
P-5286	8	CI	1907	60	12	0	Gravel/Sand	None	50
P-5287	4	CI	1910	80	177	0	Gravel/Sand	None	59
P-5288	8	DI	2017	80	92	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5291	12	CI	1924	100	98	0	Gravel/Sand	None	41
P-5292	6	CI	1915	100	25	0	Gravel/Sand	None	54
P-5297(2)	6	CICL	1948	100	196	0	Gravel/Sand	None	43
P-5298	6	CICL	1947	100	251	0	Gravel/Sand	None	43
P-5299(1)	6	CICL	1952	100	46	0	Gravel/Sand	None	42
P-5303	12	DI	2017	80	282	0	Gravel/Sand	None	4
P-5308	6	CICL	1948	100	297	0	Gravel/Sand	None	43
P-5309(1)	6	Asbestos Cement	1959	100	589	0	Gravel/Sand	None	39
P-5309(2)	6	Asbestos Cement	1963	100	1,410	0	Gravel/Sand	None	39
P-5310	2	WICL	1945	80	355	0	Gravel/Sand	None	67
P-5311	6	Asbestos Cement	1964	80	246	0	Gravel/Sand	None	39
P-5312	2	GS	1932	80	141	0	Gravel/Sand	None	66
P-5313	6	Asbestos Cement	1963	100	1,092	0	Gravel/Sand	None	39
P-5314	6	Asbestos Cement	1963	100	234	0	Gravel/Sand	None	39
P-5315	2	WICL	1963	80	208	0	Gravel/Sand	None	53
P-5316	12	Asbestos Cement	1954	120	1,057	0	Gravel/Sand	None	40
P-5317	12	Asbestos Cement	1954	120	16	0	Gravel/Sand	None	40
P-5318	12	Asbestos Cement	1954	120	204	0	Gravel/Sand	None	40
P-5320	12	Asbestos Cement	1954	120	22	0	Gravel/Sand	None	40
P-5322	12	Asbestos Cement	1954	120	454	0	Gravel/Sand	None	40
P-5323	8	Asbestos Cement	1966	120	302	0	Gravel/Sand	None	34
P-5326(2)	4	CICL	1961	80	986	0	Gravel/Sand	None	34
P-5327(2)	8	CICL	1961	80	364	0	Gravel/Sand	None	24
P-5328	8	CICL	1961	80	78	0	Gravel/Sand	None	24
P-5329	8	CICL	1961	80	57	0	Gravel/Sand	None	24
P-5332(2)	2	Copper	1939	80	406	0	Gravel/Sand	None	66
P-5333	12	Asbestos Cement	1977	125	375	0	Gravel/Sand	None	22
P-5335	8	PVC	1988	80	206	1	Gravel/Sand	None	16

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5337	16	DICL	2015	120	601	0	Gravel/Sand	None	3
P-5339	6	Asbestos Cement	1970	80	498	0	Gravel/Sand	None	34
P-5340(2)	8	Asbestos Cement	1970	100	228	0	Gravel/Sand	None	29
P-5341	8	Asbestos Cement	1970	100	90	0	Gravel/Sand	None	29
P-5342	8	PVC	1986	80	334	0	Gravel/Sand	None	14
P-5343	8	DICL	1999	80	376	0	Gravel/Sand	None	12
P-5344	8	Asbestos Cement	1962	80	262	0	Gravel/Sand	None	34
P-5345	6	Asbestos Cement	1962	80	107	0	Gravel/Sand	None	39
P-5346	8	DICL	1999	80	379	0	Gravel/Sand	None	12
P-5348	16	DI	2019	120	104	0	Gravel/Sand	None	3
P-5352	16	DICL	2015	120	64	0	Gravel/Sand	None	3
P-5353	12	Asbestos Cement	1977	125	1,291	0	Gravel/Sand	None	22
P-5354	12	DICL	2015	125	23	0	Gravel/Sand	None	4
P-5355(2)	6	DICL	2001	100	202	0	Gravel/Sand	None	16
P-5356	6	CI	1899	100	433	0	Gravel/Sand	None	56
P-5357	8	DICL	2001	80	119	0	Gravel/Sand	None	11
P-5358	8	DICL	2001	80	104	0	Gravel/Sand	None	11
P-5359	6	DICL	2001	80	41	0	Gravel/Sand	None	16
P-5372(2)	12	Asbestos Cement	1954	120	291	0	Gravel/Sand	None	40
P-5374	12	Asbestos Cement	1954	120	299	1	Gravel/Sand	None	42
P-5376(2)	8	DICL	2007	80	517	0	Gravel/Sand	None	11
P-5377(2)	8	DICL	2000	80	404	0	Gravel/Sand	None	11
P-5378(2)	6	Asbestos Cement	1963	100	716	0	Gravel/Sand	None	39
P-5379	6	Asbestos Cement	1963	100	14	0	Gravel/Sand	None	39
P-5380	2	PVC	1982	80	203	0	Gravel/Sand	None	29
P-5381	8	Asbestos Cement	1962	80	55	0	Gravel/Sand	None	34
P-5382	8	Asbestos Cement	1962	80	105	0	Gravel/Sand	None	34
P-5383	12	Asbestos Cement	1977	125	199	0	Gravel/Sand	None	22

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5386	8	DICL	1998	100	78	0	Gravel/Sand	None	12
P-5387	8	DICL	1998	80	181	0	Gravel/Sand	None	12
P-5388	2	Copper	1948	80	612	0	Gravel/Sand	None	65
P-5389(1)	12	Asbestos Cement	1977	125	205	0	Gravel/Sand	None	22
P-5389(2)(1)	12	Asbestos Cement	1977	125	99	1	Gravel/Sand	None	25
P-5389(2)(2)	12	Asbestos Cement	1977	125	782	0	Gravel/Sand	None	22
P-5391	12	Asbestos Cement	1977	125	54	0	Gravel/Sand	None	22
P-5393(2)	6	CI	1902	80	341	0	Gravel/Sand	None	55
P-5395	6	Asbestos Cement	1977	80	17	0	Gravel/Sand	None	34
P-5397	8	DICL	1998	100	485	0	Gravel/Sand	None	12
P-5400	8	DICL	1998	100	216	0	Gravel/Sand	None	12
P-5402	8	DICL	1998	100	102	0	Gravel/Sand	None	12
P-5403	8	DICL	1998	100	10	0	Gravel/Sand	None	12
P-5405	8	DICL	1998	80	244	0	Gravel/Sand	None	12
P-5406	6	DICL	1998	80	31	0	Gravel/Sand	None	17
P-5407	8	Asbestos Cement	1968	100	1,931	0	Gravel/Sand	None	34
P-5408	8	Asbestos Cement	1965	100	325	0	Gravel/Sand	None	34
P-5409	6	PVC	1985	80	184	0	Gravel/Sand	None	19
P-5410	8	PVC	1988	80	953	0	Gravel/Sand	None	14
P-5411	6	CI	1902	80	356	0	Gravel/Sand	None	55
P-5412	6	CI	1902	80	153	0	Gravel/Sand	None	55
P-5413	8	Asbestos Cement	1962	80	478	0	Gravel/Sand	None	34
P-5414	6	CI	1902	80	1,048	0	Gravel/Sand	None	55
P-5416	2	WICL	1953	80	495	0	Gravel/Sand	None	66
P-5418	12	Asbestos Cement	1975	130	35	0	Gravel/Sand	None	22
P-5423	12	Asbestos Cement	1954	120	521	0	Gravel/Sand	None	40
P-5424	12	Asbestos Cement	1954	120	17	0	Gravel/Sand	None	40
P-5426	12	Asbestos Cement	1975	130	322	0	Gravel/Sand	None	22

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5427	6	CI	1925	80	1,075	0	Gravel/Sand	None	53
P-5429	6	CI	1925	80	225	0	Gravel/Sand	None	53
P-5430	6	CI	1925	80	1,549	0	Gravel/Sand	None	53
P-5431	16	DICL	2006	130	79	0	Gravel/Sand	None	3
P-5432	12	Asbestos Cement	1975	130	2,201	1	Gravel/Sand	None	25
P-5433	2	SCL	1944	80	589	0	Gravel/Sand	None	65
P-5434	8	PVC	1986	80	573	0	Gravel/Sand	None	14
P-5435	6	DICL	2004	80	44	0	Gravel/Sand	None	16
P-5436	6	DICL	2004	80	27	0	Gravel/Sand	None	16
P-5437	6	DICL	2004	80	157	0	Gravel/Sand	None	16
P-5438	8	PVC	1995	80	288	0	Gravel/Sand	None	12
P-5439	12	Asbestos Cement	1954	120	256	0	Gravel/Sand	None	40
P-5441	8	Asbestos Cement	1979	80	324	0	Gravel/Sand	None	29
P-5443	12	Asbestos Cement	1954	120	429	0	Gravel/Sand	None	40
P-5445	6	Asbestos Cement	1969	80	279	0	Gravel/Sand	None	39
P-5446	12	Asbestos Cement	1954	120	567	1	Gravel/Sand	None	42
P-5447	12	Asbestos Cement	1954	120	483	0	Gravel/Sand	None	40
P-5448	8	Asbestos Cement	1966	80	240	0	Gravel/Sand	None	34
P-5449	8	Asbestos Cement	1979	80	66	0	Gravel/Sand	None	29
P-5450	6	Asbestos Cement	1979	80	228	0	Gravel/Sand	None	34
P-5451	10	CICL	1947	100	454	0	Gravel/Sand	None	32
P-5452	10	CICL	1947	100	653	0	Gravel/Sand	None	32
P-5453	6	Asbestos Cement	1966	80	364	0	Gravel/Sand	None	39
P-5454	8	DICL	2001	80	44	0	Gravel/Sand	None	11
P-5455	2	WICL	1969	80	209	0	Gravel/Sand	None	53
P-5456	12	Asbestos Cement	1954	120	427	0	Gravel/Sand	None	40
P-5458	6	CI	1930	100	494	0	Gravel/Sand	None	60
P-5459	8	DICL	2009	110	56	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5460	8	DICL	2019	110	519	0	Gravel/Sand	None	11
P-5461	12	Asbestos Cement	1954	120	227	0	Gravel/Sand	None	40
P-5463	2	Copper	1938	80	268	0	Gravel/Sand	None	66
P-5466	2	Copper	1941	80	382	0	Gravel/Sand	None	65
P-5468	12	DICL	2005	120	5	0	Gravel/Sand	None	4
P-5469	4	DICL	2005	80	589	0	Gravel/Sand	None	21
P-5470	12	Asbestos Cement	1954	120	175	0	Gravel/Sand	None	40
P-5471	12	DICL	2005	120	8	0	Gravel/Sand	None	4
P-5472	8	DICL	2005	80	504	0	Gravel/Sand	None	11
P-5473	8	DICL	2005	80	327	0	Gravel/Sand	None	11
P-5474	8	DICL	2005	80	67	0	Gravel/Sand	None	11
P-5475	8	CIBIT	1937	90	1,099	0	Gravel/Sand	None	39
P-5477	8	CI	1937	80	601	0	Gravel/Sand	None	55
P-5478	8	CIBIT	1937	90	242	0	Gravel/Sand	None	39
P-5480	8	Asbestos Cement	1976	80	527	0	Gravel/Sand	None	29
P-5481	8	DICL	2003	80	102	0	Gravel/Sand	None	11
P-5482	8	CIBIT	1937	90	158	0	Gravel/Sand	None	39
P-5483	8	DICL	2005	90	36	0	Gravel/Sand	None	11
P-5484	12	PVC	1988	130	1,095	0	Gravel/Sand	None	7
P-5485	12	PVC	1988	130	967	0	Gravel/Sand	None	7
P-5486	8	PVC	1988	80	244	0	Gravel/Sand	None	14
P-5487	8	PVC	1988	80	33	0	Gravel/Sand	None	14
P-5488	8	PVC	1988	80	79	0	Gravel/Sand	None	14
P-5489	8	PVC	1989	80	472	0	Gravel/Sand	None	14
P-5491	8	PVC	1989	100	186	0	Gravel/Sand	None	14
P-5492	8	Asbestos Cement	1975	80	45	0	Gravel/Sand	None	29
P-5495	6	Asbestos Cement	1975	80	49	0	Gravel/Sand	None	34
P-5496	8	DI	1995	80	745	0	Gravel/Sand	None	12

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5497	8	DICL	1995	80	20	0	Gravel/Sand	None	12
P-5498	8	Asbestos Cement	1975	100	551	0	Gravel/Sand	None	29
P-5499(1)	8	Asbestos Cement	1975	100	128	0	Gravel/Sand	None	29
P-5499(2)	8	Asbestos Cement	1975	100	408	0	Gravel/Sand	None	29
P-5500(1)	8	DICL	1995	80	190	0	Gravel/Sand	None	12
P-5500(2)	8	PVC	1993	80	291	0	Gravel/Sand	None	12
P-5501	2	WICL	1995	80	79	0	Gravel/Sand	None	44
P-5502	2	WICL	1995	80	86	0	Gravel/Sand	None	44
P-5503	8	Asbestos Cement	1975	100	10	0	Gravel/Sand	None	29
P-5504	8	Asbestos Cement	1975	100	494	0	Gravel/Sand	None	29
P-5506	8	Asbestos Cement	1974	125	181	0	Gravel/Sand	None	29
P-5508	16	Asbestos Cement	1961	125	143	0	Gravel/Sand	None	26
P-5510	16	Asbestos Cement	1961	125	133	0	Gravel/Sand	None	26
P-5511(1)	16	DICL	2006	125	135	0	Gravel/Sand	None	3
P-5511(2)	16	Asbestos Cement	1961	125	565	0	Gravel/Sand	None	26
P-5512	16	Asbestos Cement	1961	125	243	0	Gravel/Sand	None	26
P-5513	12	PVC	1981	80	185	0	Gravel/Sand	None	7
P-5515	12	PVC	1981	80	89	0	Gravel/Sand	None	7
P-5516	8	Asbestos Cement	1962	80	286	0	Gravel/Sand	None	34
P-5517	6	Asbestos Cement	1962	80	308	0	Gravel/Sand	None	39
P-5518	8	DICL	2005	80	268	0	Gravel/Sand	None	11
P-5519	8	DICL	2005	80	31	0	Gravel/Sand	None	11
P-5520	8	DI	2005	80	456	0	Gravel/Sand	None	11
P-5521	8	DICL	2005	80	40	0	Gravel/Sand	None	11
P-5522	8	DI	1995	80	523	0	Gravel/Sand	None	12
P-5524	8	ACBIT	1981	100	452	0	Gravel/Sand	None	27
P-5525	8	PVC	1989	80	584	0	Gravel/Sand	None	14
P-5526	8	PVC	1989	100	1,383	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5527	8	ACBIT	1981	100	364	0	Gravel/Sand	None	27
P-5528	8	PVC	1981	80	283	0	Gravel/Sand	None	14
P-5529	24	DICL	2006	110	259	0	Gravel/Sand	None	2
P-5530	24	DICL	2006	110	534	0	Gravel/Sand	None	2
P-5531	8	DICL	2007	80	29	0	Gravel/Sand	None	11
P-5532	16	Asbestos Cement	1967	125	1,407	0	Gravel/Sand	None	26
P-5533	16	Asbestos Cement	1967	125	69	0	Gravel/Sand	None	26
P-5534	8	PVC	1989	80	167	0	Gravel/Sand	None	14
P-5535	12	CI	1898	80	17	0	Gravel/Sand	None	44
P-5536	12	CI	1898	80	932	0	Gravel/Sand	None	44
P-5538(1)	18	CI	1913	90	1,273	0	Gravel/Sand	None	40
P-5538(2)	20	CICL	1959	90	32	0	Gravel/Sand	None	15
P-5539	8	PVC	1988	100	295	0	Gravel/Sand	None	14
P-5541	6	DICL	1997	80	175	0	Gravel/Sand	None	17
P-5542	8	PVC	1988	100	170	0	Gravel/Sand	None	14
P-5544	6	PVC	1998	80	42	0	Gravel/Sand	None	17
P-5545	8	PVC	1988	100	313	0	Gravel/Sand	None	14
P-5547	2	PVC	1988	80	48	0	Gravel/Sand	None	29
P-5548	8	PVC	1988	100	12	0	Gravel/Sand	None	14
P-5550	8	PVC	1993	100	106	0	Gravel/Sand	None	12
P-5551	8	PVC	1988	100	86	0	Gravel/Sand	None	14
P-5553	2	PVC	1988	80	118	0	Gravel/Sand	None	29
P-5554	6	PVC	1988	80	147	0	Gravel/Sand	None	19
P-5555	6	PVC	1988	80	105	0	Gravel/Sand	None	19
P-5556	2	PVC	1988	80	114	0	Gravel/Sand	None	29
P-5557	6	Asbestos Cement	1977	80	177	0	Gravel/Sand	Other	34
P-5558	8	Asbestos Cement	1973	100	327	0	Gravel/Sand	None	29
P-5560	6	Asbestos Cement	1973	80	131	0	Gravel/Sand	None	34

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5561	8	Asbestos Cement	1973	100	485	0	Gravel/Sand	None	29
P-5562	8	Asbestos Cement	1973	100	534	0	Gravel/Sand	None	29
P-5563	6	Asbestos Cement	1973	80	124	0	Gravel/Sand	None	34
P-5566	16	DI	1988	130	584	0	Gravel/Sand	None	6
P-5567	16	DI	1988	130	559	0	Gravel/Sand	None	6
P-5568	16	DICL	2001	130	452	0	Gravel/Sand	None	3
P-5569	16	DICL	2001	130	423	0	Gravel/Sand	None	3
P-5571	8	DICL	2001	80	382	0	Gravel/Sand	None	11
P-5572	16	DICL	2001	130	26	0	Gravel/Sand	None	3
P-5573	16	DICL	2001	130	79	0	Gravel/Sand	None	3
P-5575	8	PVC	1987	100	252	0	Gravel/Sand	None	14
P-5576	8	PVC	1987	80	75	0	Gravel/Sand	None	14
P-5578	8	PVC	1987	100	117	0	Gravel/Sand	None	14
P-5579	8	PVC	1987	80	15	0	Gravel/Sand	None	14
P-5581	8	PVC	1987	100	984	0	Gravel/Sand	None	14
P-5582	8	PVC	1987	80	173	0	Gravel/Sand	None	14
P-5583	8	PVC	1987	100	485	0	Gravel/Sand	None	14
P-5584	8	PVC	1987	100	212	0	Gravel/Sand	None	14
P-5585	8	PVC	1987	80	401	0	Gravel/Sand	None	14
P-5586	12	ACBIT	1980	130	510	0	Gravel/Sand	None	20
P-5587	12	ACBIT	1980	130	164	0	Gravel/Sand	None	20
P-5588	8	DICL	2000	100	647	0	Gravel/Sand	None	11
P-5589	8	DICL	2000	100	444	0	Gravel/Sand	None	11
P-5590	8	DICL	2000	80	316	0	Gravel/Sand	None	11
P-5591	12	ACBIT	1980	130	343	0	Gravel/Sand	None	20
P-5592	12	ACBIT	1980	130	19	0	Gravel/Sand	None	20
P-5593	8	DICL	2000	100	483	0	Gravel/Sand	None	11
P-5594	8	DICL	2000	100	478	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5595	8	DICL	2000	80	272	0	Gravel/Sand	None	11
P-5596	6	ACBIT	1980	100	768	0	Gravel/Sand	None	32
P-5597	6	ACBIT	1980	100	59	0	Gravel/Sand	None	32
P-5598	6	ACBIT	1980	80	190	0	Gravel/Sand	None	32
P-5599	12	Asbestos Cement	1979	130	9	0	Gravel/Sand	None	22
P-5600	12	ACBIT	1980	130	340	0	Gravel/Sand	None	20
P-5601	12	Asbestos Cement	1979	130	88	0	Gravel/Sand	None	22
P-5602	12	Asbestos Cement	1979	130	573	0	Gravel/Sand	None	22
P-5603	6	Asbestos Cement	1977	100	1,729	0	Gravel/Sand	None	34
P-5604	6	DICL	2006	100	543	0	Gravel/Sand	None	16
P-5605	8	DICL	1996	80	225	0	Gravel/Sand	None	12
P-5606	8	Asbestos Cement	1977	100	647	0	Gravel/Sand	None	29
P-5607	8	Asbestos Cement	1977	100	310	0	Gravel/Sand	None	29
P-5608	6	Asbestos Cement	1977	80	300	0	Gravel/Sand	None	34
P-5609	8	ACBIT	1980	100	840	1	Gravel/Sand	None	29
P-5611	8	Asbestos Cement	1979	100	664	0	Gravel/Sand	None	29
P-5612	8	Asbestos Cement	1979	100	317	0	Gravel/Sand	None	29
P-5614	6	Asbestos Cement	1979	80	445	0	Gravel/Sand	None	34
P-5615	8	Asbestos Cement	1979	80	274	0	Gravel/Sand	None	29
P-5616	8	Asbestos Cement	1970	100	1,248	0	Gravel/Sand	None	29
P-5618	8	Asbestos Cement	1972	120	489	0	Gravel/Sand	None	29
P-5619	8	Asbestos Cement	1972	120	859	0	Gravel/Sand	None	29
P-5620	2	GSCL	1972	80	294	0	Gravel/Sand	None	46
P-5621	6	Asbestos Cement	1964	100	679	0	Gravel/Sand	None	39
P-5622	6	Asbestos Cement	1956	100	474	0	Gravel/Sand	None	52
P-5623	6	Asbestos Cement	1969	80	462	0	Gravel/Sand	Other	39
P-5624	6	CI	1905	60	260	0	Gravel/Sand	None	55
P-5625	6	CI	1905	60	331	0	Gravel/Sand	None	55

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5626	2	WICL	1955	80	306	0	Gravel/Sand	None	66
P-5627	6	PVC	1984	80	138	0	Gravel/Sand	None	19
P-5628	8	DICL	2000	100	259	0	Gravel/Sand	None	11
P-5630	8	DICL	2006	80	438	0	Gravel/Sand	None	11
P-5631	8	DICL	2006	100	162	0	Gravel/Sand	None	11
P-5632	8	DICL	2000	100	108	0	Gravel/Sand	None	11
P-5633	8	DICL	2006	80	34	0	Gravel/Sand	None	11
P-5634	8	DI	2006	140	891	0	Gravel/Sand	Taste/Odor	11
P-5635	8	DI	2006	140	985	0	Gravel/Sand	None	11
P-5636	6	DICL	2006	80	20	0	Gravel/Sand	None	16
P-5637	8	Asbestos Cement	1972	100	397	0	Gravel/Sand	None	29
P-5638	8	DICL	1995	100	103	0	Gravel/Sand	None	12
P-5639	8	DICL	2000	80	145	0	Gravel/Sand	None	11
P-5640	8	Asbestos Cement	1973	100	24	0	Gravel/Sand	None	29
P-5641	8	Asbestos Cement	1973	100	1,758	0	Gravel/Sand	None	29
P-5642	8	Asbestos Cement	1973	100	1,657	0	Gravel/Sand	None	29
P-5643	8	DICL	1998	100	333	0	Gravel/Sand	None	12
P-5644	8	Asbestos Cement	1973	80	128	0	Gravel/Sand	None	29
P-5645	8	Asbestos Cement	1973	80	77	0	Gravel/Sand	None	29
P-5647	12	CI	1926	75	2,599	0	Gravel/Sand	None	41
P-5648(1)	20	CICL	1959	110	68	0	Gravel/Sand	None	15
P-5648(2)	20	CICL	1959	110	80	0	Gravel/Sand	None	15
P-5649	24	CICL	1959	110	2,024	0	Gravel/Sand	None	15
P-5650	12	DICL	2018	130	27	0	Gravel/Sand	None	4
P-5651	12	CICL	1947	75	18	0	Gravel/Sand	None	31
P-5655	8	Asbestos Cement	1972	80	1,124	0	Gravel/Sand	None	29
P-5657	20	CICL	1959	90	564	0	Gravel/Sand	None	15
P-5659	20	CICL	1959	90	376	0	Gravel/Sand	None	15

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5660	8	DI	2001	80	1,010	0	Gravel/Sand	None	11
P-5661	20	CICL	1959	90	420	0	Gravel/Sand	None	15
P-5662	20	CICL	1959	90	388	0	Gravel/Sand	None	15
P-5664(1)	6	CICL	1945	120	1,509	0	Gravel/Sand	None	43
P-5664(2)	6	Asbestos Cement	1964	120	510	0	Gravel/Sand	None	39
P-5665	8	DI	2006	80	1,302	0	Gravel/Sand	None	11
P-5667	6	CICL	1945	120	361	0	Gravel/Sand	None	43
P-5668	8	Asbestos Cement	1974	80	242	0	Gravel/Sand	Other	29
P-5669	6	Asbestos Cement	1974	80	241	0	Gravel/Sand	Other	34
P-5670	8	Asbestos Cement	1974	80	305	0	Gravel/Sand	Other	29
P-5672(1)	6	Asbestos Cement	1938	120	1,202	0	Gravel/Sand	None	54
P-5672(2)	6	CICL	1945	120	768	0	Gravel/Sand	None	43
P-5673	8	PVC	1987	80	408	0	Gravel/Sand	None	14
P-5674	20	CICL	1959	90	1,394	0	Gravel/Sand	None	15
P-5675	20	CICL	1959	90	141	0	Gravel/Sand	None	15
P-5676	8	PVC	1987	80	1,577	0	Gravel/Sand	None	14
P-5677	6	Asbestos Cement	1938	120	231	1	Gravel/Sand	None	57
P-5678	6	Asbestos Cement	1938	120	1,524	1	Gravel/Sand	None	57
P-5679	8	DICL	2002	80	357	0	Gravel/Sand	None	11
P-5680	16	DI	2019	120	607	0	Gravel/Sand	None	3
P-5681	16	DI	2019	120	508	0	Gravel/Sand	None	3
P-5682	2	WICL	1979	80	827	0	Gravel/Sand	None	48
P-5683	16	DI	2019	120	45	0	Gravel/Sand	None	3
P-5684	16	DI	2019	120	181	0	Gravel/Sand	None	3
P-5685	2	WICL	1954	80	217	0	Gravel/Sand	None	66
P-5686	8	CI	1931	50	1,310	2	Gravel/Sand	None	59
P-5687	8	CI	1931	50	705	0	Gravel/Sand	None	55
P-5688	2	PE	2008	80	481	0	Gravel/Sand	None	26

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5689	6	Asbestos Cement	1971	100	10	0	Gravel/Sand	None	34
P-5690(1)	6	Asbestos Cement	1965	100	658	0	Gravel/Sand	None	39
P-5690(2)	6	Asbestos Cement	1957	100	948	0	Gravel/Sand	None	52
P-5691	2	WICL	1965	80	181	0	Gravel/Sand	None	53
P-5692(1)	6	Asbestos Cement	1962	80	291	0	Gravel/Sand	None	39
P-5692(2)	6	DICL	2011	80	225	0	Gravel/Sand	None	16
P-5693	2	WICL	1952	80	247	0	Gravel/Sand	None	66
P-5694	8	Asbestos Cement	1952	100	207	0	Gravel/Sand	None	47
P-5695	8	Asbestos Cement	1952	100	77	0	Gravel/Sand	None	47
P-5696	4	CI	1952	80	103	0	Gravel/Sand	None	63
P-5697(1)	2	WICL	1954	80	316	0	Gravel/Sand	None	66
P-5697(2)	2	PVC	1985	80	324	0	Gravel/Sand	None	29
P-5698	12	Asbestos Cement	1954	120	622	0	Gravel/Sand	None	40
P-5699	12	Asbestos Cement	1954	120	495	0	Gravel/Sand	None	40
P-5700	6	Asbestos Cement	1949	80	209	0	Gravel/Sand	None	53
P-5702(1)	16	Asbestos Cement	1968	125	369	0	Gravel/Sand	None	26
P-5702(2)	24	DICL	2006	125	96	0	Gravel/Sand	None	2
P-5704	12	CI	1926	75	2,043	0	Gravel/Sand	None	41
P-5706	2	WICL	1966	80	378	0	Gravel/Sand	None	53
P-5707	12	CI	1926	75	1,112	0	Gravel/Sand	None	41
P-5708	12	CI	1926	75	257	0	Gravel/Sand	None	41
P-5709	8	DICL	1983	80	141	0	Gravel/Sand	None	14
P-5710	8	DICL	1983	80	490	0	Gravel/Sand	None	14
P-5711	8	DICL	1983	80	239	0	Gravel/Sand	None	14
P-5712	8	DICL	1983	80	341	0	Gravel/Sand	None	14
P-5713	8	DI	2010	80	308	0	Gravel/Sand	None	11
P-5714	10	Asbestos Cement	1972	125	896	0	Gravel/Sand	None	23
P-5715	10	Asbestos Cement	1972	125	93	0	Gravel/Sand	None	23

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5716	8	Asbestos Cement	1972	80	396	0	Gravel/Sand	None	29
P-5717	6	Asbestos Cement	1980	80	271	0	Gravel/Sand	None	32
P-5718	6	Asbestos Cement	1980	80	21	0	Gravel/Sand	None	32
P-5719	8	Asbestos Cement	1964	110	175	0	Gravel/Sand	None	34
P-5720	8	Asbestos Cement	1968	110	91	0	Gravel/Sand	None	34
P-5721(1)	8	DI	2016	110	29	0	Gravel/Sand	None	11
P-5721(2)	8	ACBIT	1980	80	363	0	Gravel/Sand	None	27
P-5722	6	ACBIT	1980	80	204	0	Gravel/Sand	None	32
P-5723	8	Asbestos Cement	1968	100	45	0	Gravel/Sand	None	34
P-5724	8	PVC	1994	100	281	0	Gravel/Sand	None	12
P-5725	8	Asbestos Cement	1966	110	24	0	Gravel/Sand	None	34
P-5726	8	Asbestos Cement	1964	110	546	0	Gravel/Sand	None	34
P-5727	8	PVC	1993	100	355	0	Gravel/Sand	None	12
P-5728	8	Asbestos Cement	1966	100	152	0	Gravel/Sand	None	34
P-5729	6	Asbestos Cement	1966	80	144	0	Gravel/Sand	None	39
P-5730	6	Asbestos Cement	1966	80	140	0	Gravel/Sand	None	39
P-5731	6	Asbestos Cement	1966	80	72	0	Gravel/Sand	None	39
P-5732	6	Asbestos Cement	1966	80	87	0	Gravel/Sand	None	39
P-5733	6	Asbestos Cement	1966	80	494	0	Gravel/Sand	None	39
P-5734	8	Asbestos Cement	1974	130	736	0	Gravel/Sand	None	29
P-5735	8	Asbestos Cement	1975	130	27	0	Gravel/Sand	None	29
P-5736	6	Asbestos Cement	1964	120	248	0	Gravel/Sand	None	39
P-5737	6	Asbestos Cement	1960	120	261	0	Gravel/Sand	None	39
P-5738	6	Asbestos Cement	1964	120	299	0	Gravel/Sand	None	39
P-5739	6	Asbestos Cement	1964	120	247	0	Gravel/Sand	None	39
P-5740	6	Asbestos Cement	1977	120	277	0	Gravel/Sand	None	34
P-5741	6	Asbestos Cement	1965	120	279	0	Gravel/Sand	None	39
P-5742	12	DICL	2004	130	469	0	Gravel/Sand	None	4

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5743	12	DICL	2004	130	106	0	Gravel/Sand	None	4
P-5744	8	DICL	2011	80	359	0	Gravel/Sand	None	11
P-5745	8	DICL	1999	100	316	0	Gravel/Sand	None	12
P-5746	8	DICL	1999	100	234	0	Gravel/Sand	None	12
P-5747	6	DICL	2000	80	71	0	Gravel/Sand	None	16
P-5748	8	PVC	1992	80	403	0	Gravel/Sand	None	12
P-5749	8	PVC	1992	80	358	0	Gravel/Sand	None	12
P-5750	8	DICL	2000	80	196	0	Gravel/Sand	None	11
P-5751	8	PVC	1986	100	21	0	Gravel/Sand	None	14
P-5752	8	PVC	1986	100	822	0	Gravel/Sand	None	14
P-5753	8	PVC	1986	80	32	0	Gravel/Sand	None	14
P-5754	8	Asbestos Cement	1977	80	150	0	Gravel/Sand	Other	29
P-5755	8	DI	2005	150	2,372	0	Gravel/Sand	None	11
P-5756	8	DICL	2006	150	415	0	Gravel/Sand	None	11
P-5757	8	DICL	2006	80	399	0	Gravel/Sand	None	11
P-5758	8	PVC	1986	100	811	0	Gravel/Sand	None	14
P-5759	8	PVC	1986	100	410	0	Gravel/Sand	None	14
P-5760	8	PVC	1986	80	61	0	Gravel/Sand	None	14
P-5761	16	DI	2019	120	1,449	0	Gravel/Sand	None	3
P-5762	16	DI	2019	120	68	0	Gravel/Sand	None	3
P-5763	16	DI	2019	120	44	0	Gravel/Sand	None	3
P-5764	16	DI	2019	120	534	0	Gravel/Sand	None	3
P-5765	16	DI	2019	120	17	0	Gravel/Sand	None	3
P-5767	16	DI	2019	120	271	0	Gravel/Sand	None	3
P-5768	16	DI	2019	120	1,144	0	Gravel/Sand	None	3
P-5769	8	DICL	2005	80	491	0	Gravel/Sand	None	11
P-5770	8	DICL	2005	80	238	0	Gravel/Sand	None	11
P-5771	8	DICL	2005	80	159	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5772	16	DI	2019	120	505	0	Gravel/Sand	None	3
P-5773	16	DI	2019	120	409	0	Gravel/Sand	None	3
P-5774	8	PVC	1990	80	379	0	Gravel/Sand	None	12
P-5775	8	PVC	1990	80	79	0	Gravel/Sand	None	12
P-5776	16	DI	2019	120	217	0	Gravel/Sand	None	3
P-5778	8	DICL	2003	80	346	0	Gravel/Sand	None	11
P-5779	8	DICL	2003	80	298	0	Gravel/Sand	None	11
P-5780	8	DI	2003	80	529	0	Gravel/Sand	None	11
P-5781	16	DI	2019	120	651	0	Gravel/Sand	None	3
P-5783	8	DICL	2003	80	359	0	Gravel/Sand	None	11
P-5784	16	DI	2019	120	108	0	Gravel/Sand	None	3
P-5786	6	Asbestos Cement	1970	80	377	0	Gravel/Sand	None	34
P-5787	16	DI	2019	120	104	0	Gravel/Sand	None	3
P-5788	16	DI	2019	120	335	0	Gravel/Sand	None	3
P-5789	8	CICL	1953	80	98	0	Gravel/Sand	None	37
P-5790	2	WICL	1953	80	120	0	Gravel/Sand	None	66
P-5793	8	Asbestos Cement	1978	120	1,650	0	Gravel/Sand	None	29
P-5794	6	Asbestos Cement	1973	80	209	0	Gravel/Sand	None	34
P-5796	8	Asbestos Cement	1973	120	20	0	Gravel/Sand	None	29
P-5797	8	Asbestos Cement	1974	80	227	0	Gravel/Sand	None	29
P-5798	8	Asbestos Cement	1974	80	20	0	Gravel/Sand	None	29
P-5799	6	Asbestos Cement	1974	80	154	0	Gravel/Sand	None	34
P-5800	8	Asbestos Cement	1974	80	131	0	Gravel/Sand	None	29
P-5801	8	Asbestos Cement	1974	80	612	0	Gravel/Sand	None	29
P-5802	6	Asbestos Cement	1974	80	235	0	Gravel/Sand	None	34
P-5804	8	Asbestos Cement	1973	120	407	0	Gravel/Sand	None	29
P-5805	6	Asbestos Cement	1976	80	212	0	Gravel/Sand	None	34
P-5807	8	Asbestos Cement	1973	120	189	0	Gravel/Sand	None	29

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5808	6	Asbestos Cement	1973	80	143	0	Gravel/Sand	None	34
P-5809	6	Asbestos Cement	1973	80	137	0	Gravel/Sand	None	34
P-5810	6	Asbestos Cement	1973	80	326	0	Gravel/Sand	None	34
P-5812	8	Asbestos Cement	1973	120	326	0	Gravel/Sand	None	29
P-5813	6	Asbestos Cement	1978	80	321	0	Gravel/Sand	None	34
P-5815	8	Asbestos Cement	1973	120	190	0	Gravel/Sand	None	29
P-5817	8	Asbestos Cement	1973	120	457	0	Gravel/Sand	None	29
P-5818	8	Asbestos Cement	1973	120	10	0	Gravel/Sand	None	29
P-5820	8	Asbestos Cement	1969	120	501	0	Gravel/Sand	None	34
P-5821	8	Asbestos Cement	1969	120	10	0	Gravel/Sand	None	34
P-5822	6	PVC	1991	80	141	0	Gravel/Sand	None	17
P-5823	8	Asbestos Cement	1969	120	253	0	Gravel/Sand	None	34
P-5824	8	Asbestos Cement	1969	120	303	0	Gravel/Sand	None	34
P-5825	6	Asbestos Cement	1973	80	377	0	Gravel/Sand	None	34
P-5826	6	Asbestos Cement	1970	100	961	0	Gravel/Sand	None	34
P-5827	6	Asbestos Cement	1979	100	60	0	Gravel/Sand	None	34
P-5828	8	PVC	1986	100	629	0	Gravel/Sand	None	14
P-5830	8	DICL	1997	80	128	0	Gravel/Sand	None	12
P-5831	8	DICL	1997	80	122	0	Gravel/Sand	None	12
P-5832	8	DICL	1997	100	214	0	Gravel/Sand	None	12
P-5834	8	DICL	1997	80	284	0	Gravel/Sand	None	12
P-5835	8	PVC	1987	100	434	0	Gravel/Sand	None	14
P-5836	8	PVC	1987	100	1,323	0	Gravel/Sand	None	14
P-5837	6	PVC	1987	80	377	0	Gravel/Sand	None	19
P-5838	8	Asbestos Cement	1973	110	625	0	Gravel/Sand	None	29
P-5839	8	Asbestos Cement	1973	110	111	0	Gravel/Sand	None	29
P-5840	8	PVC	1993	80	193	0	Gravel/Sand	None	12
P-5842	8	ACBIT	1986	120	635	0	Gravel/Sand	None	27

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5843	8	ACBIT	1986	120	26	0	Gravel/Sand	None	27
P-5844	8	ACBIT	1986	120	178	0	Gravel/Sand	None	27
P-5845	2	PVC	1996	80	353	0	Gravel/Sand	None	27
P-5846	6	Asbestos Cement	1979	80	209	0	Gravel/Sand	None	34
P-5847	6	PVC	1986	80	229	0	Gravel/Sand	None	19
P-5848	2	PVC	1982	80	147	0	Gravel/Sand	None	29
P-5849	10	Asbestos Cement	1974	80	29	0	Gravel/Sand	None	23
P-5850	10	Asbestos Cement	1974	80	408	0	Gravel/Sand	None	23
P-5851	8	DICL	1997	100	408	0	Gravel/Sand	None	12
P-5853	6	ACBIT	1980	80	249	0	Gravel/Sand	None	32
P-5854	8	Asbestos Cement	1973	100	56	0	Gravel/Sand	None	29
P-5855(1)	8	DICL	1996	100	855	0	Gravel/Sand	None	12
P-5855(2)(1)	8	PVC	1988	100	324	0	Gravel/Sand	None	14
P-5855(2)(2)	8	ACBIT	1982	100	439	0	Gravel/Sand	None	27
P-5856	16	DICL	1986	120	503	0	Gravel/Sand	None	6
P-5857	16	DI	1986	120	882	0	Gravel/Sand	None	6
P-5858	6	PVC	1986	80	98	0	Gravel/Sand	None	19
P-5859	16	DICL	1988	130	655	0	Gravel/Sand	None	6
P-5860	8	PVC	1988	100	1,397	0	Gravel/Sand	None	14
P-5861	8	PVC	1988	100	273	0	Gravel/Sand	None	14
P-5862	8	PVC	1988	100	389	0	Gravel/Sand	None	14
P-5863	8	PVC	1988	100	1,543	0	Gravel/Sand	None	14
P-5864	8	PVC	1988	80	279	0	Gravel/Sand	None	14
P-5865	12	PVC	1988	100	73	0	Gravel/Sand	None	7
P-5866	12	PVC	1988	100	1,273	0	Gravel/Sand	None	7
P-5867	12	PVC	1983	100	628	0	Gravel/Sand	None	7
P-5868	8	PVC	1983	100	392	0	Gravel/Sand	None	14
P-5869	12	PVC	1983	130	73	0	Gravel/Sand	None	7

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5870	12	PVC	1987	100	2,522	0	Gravel/Sand	None	7
P-5871	12	PVC	1987	100	385	0	Gravel/Sand	None	7
P-5872	12	PVC	1987	130	21	0	Gravel/Sand	None	7
P-5873	8	DICL	2006	80	131	0	Gravel/Sand	None	11
P-5875	8	ACBIT	1981	100	595	0	Gravel/Sand	None	27
P-5876	8	ACBIT	1981	80	159	0	Gravel/Sand	None	27
P-5877	8	ACBIT	1981	100	517	0	Gravel/Sand	None	27
P-5878	8	ACBIT	1981	100	793	0	Gravel/Sand	None	27
P-5879	6	ACBIT	1981	80	330	0	Gravel/Sand	None	32
P-5880	8	ACBIT	1981	100	351	0	Gravel/Sand	None	27
P-5881	8	ACBIT	1981	100	655	0	Gravel/Sand	None	27
P-5882	6	ACBIT	1981	80	309	0	Gravel/Sand	None	32
P-5883	2	WICL	1945	80	160	0	r corrosive soil (wetlands or	None	71
P-5884	8	CICL	1945	80	66	0	Gravel/Sand	None	38
P-5885	8	CICL	1945	80	438	0	Gravel/Sand	None	38
P-5886	2	WICL	1945	80	232	0	Gravel/Sand	None	67
P-5887	8	CICL	1945	80	525	0	Gravel/Sand	None	38
P-5888	8	CICL	1945	80	66	0	Gravel/Sand	None	38
P-5889	2	WICL	1945	80	204	0	Gravel/Sand	None	67
P-5890	6	CICL	1945	100	379	0	Gravel/Sand	None	43
P-5891	6	CICL	1945	100	219	0	Gravel/Sand	None	43
P-5892	2	PE	1996	80	202	0	Gravel/Sand	None	27
P-5894	8	CICL	1945	80	182	0	Gravel/Sand	None	38
P-5895	8	CICL	1945	80	186	0	Gravel/Sand	None	38
P-5896	8	DICL	2001	80	183	0	Gravel/Sand	None	11
P-5897	8	CICL	1945	80	637	0	Gravel/Sand	None	38
P-5898	8	CICL	1945	80	700	0	Gravel/Sand	None	38
P-5899	6	Asbestos Cement	1964	80	295	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5900	8	Asbestos Cement	1978	80	227	0	Gravel/Sand	None	29
P-5902	8	Asbestos Cement	1972	100	333	0	Gravel/Sand	None	29
P-5903	8	Asbestos Cement	1972	100	239	0	Gravel/Sand	Other	29
P-5905	8	Asbestos Cement	1980	100	498	0	Gravel/Sand	None	27
P-5906	8	Asbestos Cement	1980	100	85	0	Gravel/Sand	None	27
P-5907	6	Asbestos Cement	1980	80	354	0	Gravel/Sand	Other	32
P-5908	12	Asbestos Cement	1968	130	672	0	Gravel/Sand	None	27
P-5909	12	Asbestos Cement	1968	130	1,609	0	Gravel/Sand	None	27
P-5910	8	DICL	2004	80	248	0	Gravel/Sand	None	11
P-5911	8	Asbestos Cement	1952	110	171	0	Gravel/Sand	None	47
P-5912	8	Asbestos Cement	1952	110	791	0	Gravel/Sand	None	47
P-5913	8	DI	2004	80	928	0	Gravel/Sand	None	11
P-5915	6	PVC	1988	80	95	0	Gravel/Sand	None	19
P-5916	2	PVC	1988	80	246	0	Gravel/Sand	None	29
P-5917	8	DICL	2005	80	676	0	Gravel/Sand	None	11
P-5919	12	PVC	1987	130	1,174	0	Gravel/Sand	None	7
P-5920	8	DICL	1996	80	548	0	Gravel/Sand	None	12
P-5921	8	DICL	1996	80	44	0	Gravel/Sand	None	12
P-5922	8	DICL	1996	80	201	0	Gravel/Sand	None	12
P-5924	12	PVC	1987	130	134	0	Gravel/Sand	None	7
P-5925	8	DICL	2004	80	657	0	Gravel/Sand	None	11
P-5926	8	DICL	2004	80	79	0	Gravel/Sand	None	11
P-5927	8	DICL	2004	80	20	0	Gravel/Sand	None	11
P-5928	12	PVC	1987	130	665	0	Gravel/Sand	None	7
P-5929	12	PVC	1987	130	181	0	Gravel/Sand	None	7
P-5930	8	DICL	1999	80	529	0	Gravel/Sand	None	12
P-5931	8	Asbestos Cement	1972	80	187	0	Gravel/Sand	None	29
P-5932	12	PVC	1987	130	694	0	Gravel/Sand	None	7

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5933	12	Asbestos Cement	1979	130	59	0	Gravel/Sand	None	22
P-5934	8	DI	2003	100	897	0	Gravel/Sand	None	11
P-5935	8	DICL	2003	100	22	0	Gravel/Sand	None	11
P-5936	8	DICL	2003	80	52	0	Gravel/Sand	None	11
P-5937	12	Asbestos Cement	1962	130	46	0	Gravel/Sand	None	27
P-5941	12	Asbestos Cement	1968	130	140	0	Gravel/Sand	None	27
P-5942	12	DICL	1993	130	171	0	Gravel/Sand	None	5
P-5943	2	WICL	1957	80	603	0	Gravel/Sand	None	66
P-5944	6	CICL	1948	80	61	0	Gravel/Sand	None	43
P-5945(1)	6	CICL	1948	80	470	0	Gravel/Sand	None	43
P-5945(2)	8	Asbestos Cement	1962	80	349	0	Gravel/Sand	None	34
P-5946(1)	6	Asbestos Cement	1962	100	659	0	Gravel/Sand	None	39
P-5946(2)	6	ACBIT	1981	100	1,131	0	Gravel/Sand	None	32
P-5947(1)	6	PVC	1985	100	877	0	Gravel/Sand	None	19
P-5947(2)	6	Asbestos Cement	1958	100	593	0	Gravel/Sand	None	52
P-5948	6	ACBIT	1981	80	98	0	Gravel/Sand	None	32
P-5949	8	DICL	2002	80	47	0	Gravel/Sand	None	11
P-5951	8	DICL	2006	70	58	0	Gravel/Sand	None	11
P-5952	2	WICL	1956	80	360	0	Gravel/Sand	None	66
P-5953	6	Asbestos Cement	1957	100	294	0	Gravel/Sand	None	52
P-5954	6	Asbestos Cement	1957	100	159	0	Gravel/Sand	None	52
P-5955	2	WICL	1955	80	726	1	Gravel/Sand	None	68
P-5956	8	DICL	2006	100	406	0	Gravel/Sand	None	11
P-5957	8	DICL	2006	100	422	0	Gravel/Sand	None	11
P-5958	2	WICL	1953	80	504	0	Gravel/Sand	None	66
P-5961	6	Asbestos Cement	1953	80	604	0	Gravel/Sand	None	52
P-5962	2	WICL	1954	80	569	0	Gravel/Sand	None	66
P-5963	2	WICL	1954	80	54	0	Gravel/Sand	None	66

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5964	2	WICL	1955	80	290	0	Gravel/Sand	None	66
P-5965	6	CICL	1948	70	46	0	Gravel/Sand	None	43
P-5966	6	CICL	1948	70	827	1	Gravel/Sand	None	45
P-5967	6	Asbestos Cement	1970	80	566	0	Gravel/Sand	None	34
P-5968	2	WICL	1954	80	206	0	Gravel/Sand	None	66
P-5969	6	CICL	1948	70	401	0	Gravel/Sand	None	43
P-5970	6	CICL	1948	70	641	0	Gravel/Sand	None	43
P-5971	6	Asbestos Cement	1954	80	286	0	Gravel/Sand	None	52
P-5972	6	Asbestos Cement	1957	100	367	0	Gravel/Sand	None	52
P-5973	6	Asbestos Cement	1957	100	33	0	Gravel/Sand	None	52
P-5974	2	WICL	1955	80	576	0	Gravel/Sand	None	66
P-5975	2	WICL	1955	80	656	0	Gravel/Sand	None	66
P-5976	8	DICL	2006	80	38	0	Gravel/Sand	None	11
P-5977	8	DICL	2010	100	30	0	Gravel/Sand	None	11
P-5978	6	Asbestos Cement	1958	100	2,325	0	Gravel/Sand	None	52
P-5979	12	Asbestos Cement	1962	125	757	0	Gravel/Sand	None	27
P-5980	12	Asbestos Cement	1962	125	42	0	Gravel/Sand	None	27
P-5981	8	PVC	1987	100	21	0	Gravel/Sand	None	14
P-5982	8	PVC	1987	100	193	0	Gravel/Sand	None	14
P-5983	8	PVC	1987	80	23	0	Gravel/Sand	None	14
P-5984	6	PVC	1985	80	179	0	Gravel/Sand	None	19
P-5985	12	DI	1993	130	431	0	Gravel/Sand	None	5
P-5986	12	PVC	1987	130	241	0	Gravel/Sand	None	7
P-5987	8	PVC	1987	80	419	0	Gravel/Sand	None	14
P-5988	12	DI	1989	130	1,276	0	Gravel/Sand	None	7
P-5990	8	DICL	1989	80	504	0	Gravel/Sand	None	14
P-5991	12	DICL	1989	130	517	0	Gravel/Sand	None	7
P-5992	12	Asbestos Cement	1970	130	114	0	Gravel/Sand	None	22

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-5993	8	DICL	2005	80	458	0	Gravel/Sand	None	11
P-5994	12	Asbestos Cement	1970	140	687	0	Gravel/Sand	None	22
P-5995	12	Asbestos Cement	1970	140	338	0	Gravel/Sand	None	22
P-5996	8	DICL	2002	80	282	0	Gravel/Sand	None	11
P-5997	12	Asbestos Cement	1970	140	133	0	Gravel/Sand	None	22
P-5998	12	Asbestos Cement	1970	140	436	0	Gravel/Sand	None	22
P-5999	8	DICL	2004	80	522	0	Gravel/Sand	None	11
P-6000	8	Asbestos Cement	1971	100	341	0	Gravel/Sand	None	29
P-6001	8	DICL	2010	100	219	0	Gravel/Sand	None	11
P-6002	8	PVC	1985	80	518	0	Gravel/Sand	None	14
P-6003	6	PVC	1985	80	235	0	Gravel/Sand	None	19
P-6004	6	PVC	1985	80	289	0	Gravel/Sand	None	19
P-6006	6	CIBIT	1937	100	388	0	Gravel/Sand	None	44
P-6007	2	WICL	1957	80	467	0	Gravel/Sand	None	66
P-6008	6	CIBIT	1937	100	825	0	Gravel/Sand	None	44
P-6009	6	CIBIT	1937	100	763	0	Gravel/Sand	None	44
P-6010	1	Copper	1949	80	368	0	Gravel/Sand	None	65
P-6011	2	WICL	1960	80	63	0	Gravel/Sand	None	53
P-6012	2	WICL	1960	80	232	0	Gravel/Sand	None	53
P-6013	8	Asbestos Cement	1972	100	216	0	Gravel/Sand	None	29
P-6014	8	PVC	1987	100	67	0	Gravel/Sand	None	14
P-6015	12	Asbestos Cement	1954	120	20	0	Gravel/Sand	None	40
P-6016(1)	12	Asbestos Cement	1954	120	521	0	/ corrosive soil (wetlands or	None	44
P-6016(2)(1)	12	STCLPC	1954	120	292	1	/ corrosive soil (wetlands or	None	49
P-6016(2)(2)	12	Asbestos Cement	1954	120	661	3	/ corrosive soil (wetlands or	None	49
P-6019	6	Asbestos Cement	1955	90	1,144	0	Gravel/Sand	None	52
P-6020	6	Asbestos Cement	1958	90	990	0	Gravel/Sand	None	52
P-6021	6	Asbestos Cement	1976	80	206	0	Gravel/Sand	None	34

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6022	6	Asbestos Cement	1968	90	1,016	0	Gravel/Sand	None	39
P-6024	6	Asbestos Cement	1974	80	161	0	Gravel/Sand	None	34
P-6025	6	Asbestos Cement	1974	80	277	0	Gravel/Sand	None	34
P-6026	6	Asbestos Cement	1974	90	247	0	Gravel/Sand	None	34
P-6027	6	Asbestos Cement	1969	90	1,112	0	Gravel/Sand	None	39
P-6028	6	Asbestos Cement	1974	80	168	0	Gravel/Sand	None	34
P-6029	6	Asbestos Cement	1974	80	19	0	Gravel/Sand	None	34
P-6030	8	Asbestos Cement	1969	125	106	0	Gravel/Sand	None	34
P-6031	8	Asbestos Cement	1961	125	139	0	Gravel/Sand	None	34
P-6032	8	Asbestos Cement	1973	125	188	0	Gravel/Sand	None	29
P-6033(1)	8	Asbestos Cement	1970	100	508	0	Gravel/Sand	None	29
P-6033(2)	8	Asbestos Cement	1970	100	258	0	Gravel/Sand	None	29
P-6034	8	DICL	1998	80	204	0	Gravel/Sand	None	12
P-6035	8	Asbestos Cement	1965	125	116	0	Gravel/Sand	None	34
P-6036	8	Asbestos Cement	1965	125	129	0	Gravel/Sand	None	34
P-6037	6	Asbestos Cement	1978	80	243	0	Gravel/Sand	Other	34
P-6038	6	Asbestos Cement	1959	100	123	0	r corrosive soil (wetlands or	None	44
P-6039	6	Asbestos Cement	1968	100	1,429	0	Gravel/Sand	None	39
P-6040	8	DICL	1999	80	201	0	r corrosive soil (wetlands or	None	17
P-6041	8	Asbestos Cement	1977	100	1,010	0	Gravel/Sand	Other	29
P-6043	8	Asbestos Cement	1977	100	287	0	Gravel/Sand	Other	29
P-6044(1)	8	DICL	1997	100	522	0	Gravel/Sand	None	12
P-6044(2)	8	Asbestos Cement	1978	100	1,093	0	Gravel/Sand	Other	29
P-6045	8	Asbestos Cement	1974	100	809	0	Gravel/Sand	None	29
P-6046	8	Asbestos Cement	1974	100	172	0	Gravel/Sand	None	29
P-6049	8	DICL	1996	80	14	0	Gravel/Sand	None	12
P-6050	8	Asbestos Cement	1971	100	172	0	Gravel/Sand	None	29
P-6051	8	DICL	1996	100	31	0	Gravel/Sand	None	12

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6052	8	DI	1996	100	1,287	0	Gravel/Sand	None	12
P-6053	8	PVC	1984	100	115	0	Gravel/Sand	None	14
P-6054	6	PVC	1984	80	67	0	Gravel/Sand	None	19
P-6055	8	Asbestos Cement	1974	100	523	0	Gravel/Sand	None	29
P-6056	6	Asbestos Cement	1974	100	276	0	Gravel/Sand	None	34
P-6057	8	Asbestos Cement	1976	100	486	0	Gravel/Sand	None	29
P-6058	6	Asbestos Cement	1976	100	321	0	Gravel/Sand	None	34
P-6059	8	Asbestos Cement	1978	100	280	0	Gravel/Sand	None	29
P-6060	6	Asbestos Cement	1978	100	221	0	Gravel/Sand	None	34
P-6061	12	Asbestos Cement	1965	125	740	0	Gravel/Sand	None	27
P-6062	12	Asbestos Cement	1965	125	1,348	0	Gravel/Sand	None	27
P-6063	2	PVC	1969	80	160	0	Gravel/Sand	None	36
P-6065	12	Asbestos Cement	1957	125	338	0	Gravel/Sand	None	40
P-6066	8	PVC	1986	80	436	0	Gravel/Sand	None	14
P-6068	12	Asbestos Cement	1957	125	394	0	Gravel/Sand	None	40
P-6069	8	PVC	1993	80	331	0	Gravel/Sand	None	12
P-6070	12	Asbestos Cement	1964	125	160	0	Gravel/Sand	None	27
P-6071	12	Asbestos Cement	1964	125	364	0	Gravel/Sand	None	27
P-6072	6	Asbestos Cement	1973	80	227	0	Gravel/Sand	None	34
P-6073	6	Asbestos Cement	1983	80	333	0	Gravel/Sand	None	32
P-6074	8	DICL	2001	80	102	0	Gravel/Sand	None	11
P-6075	12	Asbestos Cement	1964	125	227	0	Gravel/Sand	None	27
P-6076	12	Asbestos Cement	1964	125	285	0	Gravel/Sand	None	27
P-6077	2	WICL	1964	80	159	0	Gravel/Sand	None	53
P-6078	8	Asbestos Cement	1974	100	690	0	Gravel/Sand	None	29
P-6079	8	PVC	1994	100	550	0	Gravel/Sand	None	12
P-6080	8	PVC	1994	80	37	0	Gravel/Sand	None	12
P-6081	6	CI	1905	60	584	0	Gravel/Sand	None	55

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6082	6	CI	1905	60	641	0	Gravel/Sand	None	55
P-6083	2	WICL	1963	80	182	0	Gravel/Sand	None	53
P-6084	12	ACBIT	1981	130	169	0	Gravel/Sand	None	20
P-6085	8	PVC	1991	130	29	0	Gravel/Sand	None	12
P-6087	12	Asbestos Cement	1980	130	40	0	Gravel/Sand	None	20
P-6088	8	Asbestos Cement	1952	100	63	0	Gravel/Sand	None	47
P-6089	8	Asbestos Cement	1952	100	1,194	0	Gravel/Sand	None	47
P-6090	8	PVC	1991	100	28	0	Gravel/Sand	None	12
P-6091	8	PVC	1991	100	357	0	Gravel/Sand	None	12
P-6092	8	DICL	2005	80	871	0	Gravel/Sand	None	11
P-6093	12	Asbestos Cement	1980	130	1,217	0	Gravel/Sand	None	20
P-6095	12	Asbestos Cement	1980	130	51	0	Gravel/Sand	None	20
P-6097	12	Asbestos Cement	1980	130	92	0	Gravel/Sand	None	20
P-6098	12	Asbestos Cement	1980	130	823	0	Gravel/Sand	None	20
P-6099	2	WICL	1955	80	748	0	Gravel/Sand	None	66
P-6100	12	Asbestos Cement	1980	130	41	0	Gravel/Sand	None	20
P-6101	12	Asbestos Cement	1980	130	1,138	0	Gravel/Sand	None	20
P-6102	8	PVC	1987	100	1,099	0	Gravel/Sand	None	14
P-6103	8	PVC	1987	100	554	0	Gravel/Sand	None	14
P-6104	8	PVC	1987	80	331	0	Gravel/Sand	None	14
P-6105	8	DI	2002	100	219	0	Gravel/Sand	None	11
P-6106	8	DI	2002	100	281	0	Gravel/Sand	None	11
P-6107	8	DI	2002	80	236	0	Gravel/Sand	None	11
P-6108	8	DICL	2002	80	143	0	Gravel/Sand	None	11
P-6109	8	DICL	2002	80	320	0	Gravel/Sand	None	11
P-6110	8	DI	2002	80	305	0	Gravel/Sand	None	11
P-6111	6	PVC	1985	80	242	0	Gravel/Sand	None	19
P-6112	8	PVC	1985	100	833	0	Gravel/Sand	None	14

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6113	8	PVC	1985	100	156	0	Gravel/Sand	None	14
P-6114	8	PVC	1985	80	245	0	Gravel/Sand	None	14
P-6115	6	PVC	1985	80	257	0	Gravel/Sand	None	19
P-6116	12	PVC	1989	130	1,137	0	Gravel/Sand	None	7
P-6117	12	DICL	2006	130	70	0	Gravel/Sand	None	4
P-6118	8	Asbestos Cement	1969	120	687	0	Gravel/Sand	None	34
P-6119	8	Asbestos Cement	1969	100	14	0	Gravel/Sand	None	34
P-6120	8	DICL	2000	80	463	0	Gravel/Sand	None	11
P-6121	12	Asbestos Cement	1959	125	721	0	Gravel/Sand	None	27
P-6123	2	WICL	1955	80	529	0	Gravel/Sand	None	66
P-6124	2	WICL	1955	80	297	0	Gravel/Sand	None	66
P-6125	2	PVC	1989	80	803	0	Gravel/Sand	None	29
P-6126	12	Asbestos Cement	1959	125	288	0	Gravel/Sand	None	27
P-6128(1)	8	DI	2006	80	82	0	Gravel/Sand	None	11
P-6128(2)	8	Asbestos Cement	1976	80	536	0	Gravel/Sand	None	29
P-6129	12	Asbestos Cement	1959	125	23	0	Gravel/Sand	None	27
P-6130	12	Asbestos Cement	1959	125	131	0	Gravel/Sand	None	27
P-6131	8	Asbestos Cement	1976	80	164	0	Gravel/Sand	None	29
P-6132	12	Asbestos Cement	1962	125	254	0	Gravel/Sand	None	27
P-6133	12	Asbestos Cement	1962	125	298	0	Gravel/Sand	None	27
P-6134	8	Asbestos Cement	1974	80	179	0	Gravel/Sand	Other	29
P-6135	6	Asbestos Cement	1974	80	416	0	Gravel/Sand	Other	34
P-6136	6	Asbestos Cement	1958	100	304	0	Gravel/Sand	None	52
P-6137	6	Asbestos Cement	1958	100	13	0	Gravel/Sand	None	52
P-6138	6	Asbestos Cement	1958	100	285	0	Gravel/Sand	None	52
P-6139	6	Asbestos Cement	1958	100	120	0	Gravel/Sand	None	52
P-6140	1.5	WICL	1958	80	36	0	Gravel/Sand	None	66
P-6141	8	Asbestos Cement	1976	100	1,696	0	Gravel/Sand	None	29

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6142	8	Asbestos Cement	1976	100	52	0	Gravel/Sand	None	29
P-6143	2	PVC	1976	80	180	0	Gravel/Sand	None	31
P-6144(1)	6	Asbestos Cement	1969	80	52	0	Gravel/Sand	Other	39
P-6144(2)	6	Asbestos Cement	1969	80	1,190	0	Gravel/Sand	Other	39
P-6145	2	WICL	1969	80	258	0	Gravel/Sand	None	53
P-6146(1)	12	Asbestos Cement	1962	125	459	0	/ corrosive soil (wetlands or	None	32
P-6146(2)	12	Asbestos Cement	1962	125	652	0	Gravel/Sand	None	27
P-6148	8	DI	2003	80	1,012	0	Gravel/Sand	None	11
P-6149	12	Asbestos Cement	1962	125	310	0	Gravel/Sand	None	27
P-6150	12	Asbestos Cement	1962	125	264	0	Gravel/Sand	None	27
P-6151	8	DICL	2000	80	709	0	Gravel/Sand	None	11
P-6152	12	Asbestos Cement	1962	125	821	0	Gravel/Sand	None	27
P-6153	12	Asbestos Cement	1962	125	471	0	Gravel/Sand	None	27
P-6154	6	Asbestos Cement	1972	80	899	0	Gravel/Sand	None	34
P-6155	6	Asbestos Cement	1974	110	232	0	Gravel/Sand	Other	34
P-6156	6	Asbestos Cement	1970	110	609	0	Gravel/Sand	Other	34
P-6157	2	WICL	1963	80	539	0	Gravel/Sand	None	53
P-6158	2	WICL	1964	80	394	0	Gravel/Sand	None	53
P-6159	8	DICL	2006	120	575	0	Gravel/Sand	None	11
P-6160	8	Asbestos Cement	1963	120	534	0	Gravel/Sand	None	34
P-6161	6	Asbestos Cement	1963	80	226	0	Gravel/Sand	None	39
P-6162	8	DICL	2004	100	230	0	Gravel/Sand	None	11
P-6163	8	Asbestos Cement	1970	100	243	0	Gravel/Sand	None	29
P-6164	6	Asbestos Cement	1973	80	232	0	Gravel/Sand	None	34
P-6165	8	Asbestos Cement	1972	100	611	0	Gravel/Sand	None	29
P-6166	8	Asbestos Cement	1972	100	434	0	Gravel/Sand	None	29
P-6167	6	Asbestos Cement	1972	80	101	0	Gravel/Sand	None	34
P-6168	8	Asbestos Cement	1972	100	143	0	Gravel/Sand	None	29

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6169	8	PVC	1987	100	99	0	Gravel/Sand	None	14
P-6170	8	Asbestos Cement	1973	80	258	0	Gravel/Sand	None	29
P-6171	2	PVC	1989	80	172	0	Gravel/Sand	None	29
P-6172	8	CICL	1945	80	1,044	0	Gravel/Sand	None	38
P-6173	8	CICL	1945	80	78	0	Gravel/Sand	None	38
P-6174	8	Asbestos Cement	1972	80	52	0	Gravel/Sand	Dirty Water	29
P-6175	6	Asbestos Cement	1972	80	426	0	Gravel/Sand	Dirty Water	34
P-6176	8	CICL	1945	80	560	0	Gravel/Sand	None	38
P-6177	8	CICL	1945	80	117	0	Gravel/Sand	None	38
P-6178	6	CICL	1945	80	38	0	Gravel/Sand	None	43
P-6179	2	WICL	1945	80	358	0	Gravel/Sand	None	67
P-6180	2	WICL	1945	80	199	0	Gravel/Sand	None	67
P-6181	2	WICL	1945	80	188	0	Gravel/Sand	None	67
P-6182	2	WICL	1945	80	399	0	Gravel/Sand	None	67
P-6183	2	WICL	1945	80	384	0	Gravel/Sand	None	67
P-6185	2	WICL	1945	80	584	0	Gravel/Sand	None	67
P-6186	6	CICL	1945	80	22	0	Gravel/Sand	None	43
P-6187	2	WICL	1945	80	422	0	Gravel/Sand	None	67
P-6188	6	CICL	1945	100	306	0	Gravel/Sand	Dirty Water	43
P-6189	6	CICL	1945	100	331	0	Gravel/Sand	Dirty Water	43
P-6190	6	CI	1922	100	535	0	Gravel/Sand	None	53
P-6191	6	CI	1922	100	383	0	Gravel/Sand	None	53
P-6192	2	Copper	1931	80	162	0	Gravel/Sand	None	66
P-6193	8	Asbestos Cement	1977	100	653	0	Gravel/Sand	None	29
P-6194	8	Asbestos Cement	1977	100	197	0	Gravel/Sand	None	29
P-6195	8	Asbestos Cement	1977	100	485	0	Gravel/Sand	None	29
P-6196	8	Asbestos Cement	1977	100	190	0	Gravel/Sand	None	29
P-6197	6	Asbestos Cement	1971	100	253	0	Gravel/Sand	None	34

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6198	8	DICL	2008	100	181	0	Gravel/Sand	None	11
P-6199	12	Asbestos Cement	1976	125	41	0	Gravel/Sand	None	22
P-6201	2	Copper	1926	80	381	0	Gravel/Sand	None	59
P-6202	12	Asbestos Cement	1976	125	256	0	Gravel/Sand	None	22
P-6203	12	Asbestos Cement	1976	125	21	0	Gravel/Sand	None	22
P-6204	8	DICL	1999	80	220	0	Gravel/Sand	None	12
P-6205	12	Asbestos Cement	1976	125	363	0	Gravel/Sand	None	22
P-6206	12	Asbestos Cement	1976	125	309	0	Gravel/Sand	None	22
P-6207(1)	8	PVC	1983	130	189	0	Gravel/Sand	None	14
P-6207(2)(1)	8	PVC	1983	130	626	0	Gravel/Sand	None	14
P-6207(2)(2)	8	PVC	1983	130	756	0	Gravel/Sand	None	14
P-6208	8	Asbestos Cement	1978	100	15	0	Gravel/Sand	None	29
P-6209	8	Asbestos Cement	1978	100	223	0	Gravel/Sand	None	29
P-6210	12	Asbestos Cement	1962	125	148	0	Gravel/Sand	None	27
P-6211(1)	12	Asbestos Cement	1962	125	251	0	Gravel/Sand	None	27
P-6211(2)	12	DICL	1962	125	439	0	Gravel/Sand	None	14
P-6212	8	DICL	2007	80	37	0	Gravel/Sand	None	11
P-6213	8	Asbestos Cement	1976	100	905	0	Gravel/Sand	Other	29
P-6214	8	Asbestos Cement	1977	100	896	0	Gravel/Sand	Other	29
P-6215	8	Asbestos Cement	1976	80	107	0	Gravel/Sand	None	29
P-6216	12	Asbestos Cement	1975	140	258	0	Gravel/Sand	None	22
P-6217	12	Asbestos Cement	1975	140	287	0	Gravel/Sand	None	22
P-6218	6	ACBIT	1981	120	86	0	Gravel/Sand	None	32
P-6219	6	Asbestos Cement	1964	120	232	0	Gravel/Sand	None	39
P-6220	6	Asbestos Cement	1972	120	282	0	Gravel/Sand	None	34
P-6221	6	DICL	2003	120	258	0	Gravel/Sand	None	16
P-6222	2	WICL	1965	80	510	0	Gravel/Sand	None	53
P-6223	12	Asbestos Cement	1975	140	260	0	Gravel/Sand	None	22

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6225	2	WICL	1961	80	513	0	Gravel/Sand	None	53
P-6226	6	Asbestos Cement	1968	120	268	0	Gravel/Sand	None	39
P-6227	6	Asbestos Cement	1982	120	271	0	Gravel/Sand	None	32
P-6228	2	WICL	1967	80	582	0	Gravel/Sand	None	53
P-6229	12	Asbestos Cement	1975	140	272	0	Gravel/Sand	None	22
P-6233	12	Asbestos Cement	1975	140	485	0	Gravel/Sand	None	22
P-6234	12	Asbestos Cement	1975	140	10	0	Gravel/Sand	None	22
P-6235	12	Asbestos Cement	1975	140	263	0	Gravel/Sand	None	22
P-6237	8	ACBIT	1981	120	277	0	Gravel/Sand	None	27
P-6238	8	Asbestos Cement	1978	120	259	0	Gravel/Sand	None	29
P-6239	2	WICL	1961	80	375	0	Gravel/Sand	None	53
P-6242	12	Asbestos Cement	1975	140	272	0	Gravel/Sand	None	22
P-6243	12	Asbestos Cement	1982	140	5	0	Gravel/Sand	None	20
P-6244	12	Asbestos Cement	1975	140	588	0	Gravel/Sand	None	22
P-6246	8	PVC	1992	120	67	0	Gravel/Sand	None	12
P-6247	12	Asbestos Cement	1975	140	784	0	Gravel/Sand	None	22
P-6249	6	Asbestos Cement	1981	120	217	0	Gravel/Sand	None	32
P-6250	6	Asbestos Cement	1975	120	157	0	Gravel/Sand	None	34
P-6251	6	Asbestos Cement	1975	120	169	0	Gravel/Sand	None	34
P-6252	12	Asbestos Cement	1975	140	280	0	Gravel/Sand	None	22
P-6254	12	Asbestos Cement	1975	140	260	0	Gravel/Sand	None	22
P-6256	2	WICL	1959	80	564	0	Gravel/Sand	None	53
P-6257	8	DICL	2006	120	116	0	Gravel/Sand	None	11
P-6258	8	Asbestos Cement	1968	120	158	0	Gravel/Sand	None	34
P-6259	12	Asbestos Cement	1975	140	290	0	Gravel/Sand	None	22
P-6261	2	WICL	1960	80	568	0	Gravel/Sand	None	53
P-6262	2	WICL	1959	80	500	0	Gravel/Sand	None	53
P-6263	12	Asbestos Cement	1975	140	277	0	Gravel/Sand	None	22

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6265	2	WICL	1963	80	332	0	Gravel/Sand	None	53
P-6266	12	Asbestos Cement	1975	140	278	0	Gravel/Sand	None	22
P-6268	2	WICL	1962	80	497	0	Gravel/Sand	None	53
P-6269	6	Asbestos Cement	1970	120	239	0	Gravel/Sand	None	34
P-6271	2	WICL	1965	80	485	0	Gravel/Sand	None	53
P-6272	12	Asbestos Cement	1975	140	270	0	Gravel/Sand	None	22
P-6274	6	Asbestos Cement	1957	120	248	0	Gravel/Sand	None	52
P-6275	6	Asbestos Cement	1957	120	253	0	Gravel/Sand	None	52
P-6276	2	WICL	1957	80	464	0	Gravel/Sand	None	66
P-6277	8	Asbestos Cement	1969	130	109	0	Gravel/Sand	None	34
P-6278	8	Asbestos Cement	1975	130	450	0	Gravel/Sand	None	29
P-6279	12	Asbestos Cement	1975	140	245	0	Gravel/Sand	None	22
P-6281	6	Asbestos Cement	1980	120	360	0	Gravel/Sand	None	32
P-6282	12	Asbestos Cement	1975	140	48	0	Gravel/Sand	None	22
P-6284	2	WICL	1962	80	410	0	Gravel/Sand	None	53
P-6285	12	Asbestos Cement	1975	140	233	0	Gravel/Sand	None	22
P-6286	12	Asbestos Cement	1974	140	16	0	Gravel/Sand	None	22
P-6287	8	Asbestos Cement	1978	130	319	0	Gravel/Sand	None	29
P-6288	8	Asbestos Cement	1977	130	284	0	Gravel/Sand	None	29
P-6289	12	Asbestos Cement	1974	140	234	0	Gravel/Sand	None	22
P-6290	8	Asbestos Cement	1974	110	11	0	Gravel/Sand	None	29
P-6291	2	WICL	1963	80	486	0	Gravel/Sand	None	53
P-6292	8	Asbestos Cement	1974	120	231	0	Gravel/Sand	None	29
P-6294	8	Asbestos Cement	1981	120	381	0	Gravel/Sand	None	27
P-6295	8	Asbestos Cement	1981	110	17	0	Gravel/Sand	None	27
P-6296	8	Asbestos Cement	1974	110	245	0	Gravel/Sand	None	29
P-6297	6	Asbestos Cement	1965	130	250	0	Gravel/Sand	None	39
P-6298	6	Asbestos Cement	1965	130	350	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6299	2	WICL	1962	80	614	0	Gravel/Sand	None	53
P-6300	6	PVC	1981	120	50	0	Gravel/Sand	None	19
P-6301	8	Asbestos Cement	1974	130	251	0	Gravel/Sand	None	29
P-6302	8	Asbestos Cement	1974	130	245	0	Gravel/Sand	None	29
P-6303	2	WICL	1952	80	853	0	Gravel/Sand	None	66
P-6304	2	WICL	1963	80	291	0	Gravel/Sand	None	53
P-6305	8	Asbestos Cement	1974	130	19	0	Gravel/Sand	None	29
P-6306	8	Asbestos Cement	1974	130	227	0	Gravel/Sand	None	29
P-6307	2	PVC	1979	80	433	0	Gravel/Sand	None	31
P-6308	8	Asbestos Cement	1974	130	260	0	Gravel/Sand	None	29
P-6309	8	Asbestos Cement	1974	130	6	0	Gravel/Sand	None	29
P-6310	8	Asbestos Cement	1975	130	876	0	Gravel/Sand	None	29
P-6311	8	Asbestos Cement	1975	130	247	0	Gravel/Sand	None	29
P-6312	2	PVC	1984	80	153	0	Gravel/Sand	None	29
P-6313	8	PVC	1988	120	202	0	Gravel/Sand	None	14
P-6314	6	Asbestos Cement	1979	120	429	0	Gravel/Sand	None	34
P-6315	8	ACBIT	1982	120	80	0	Gravel/Sand	None	27
P-6316	2	PVC	1987	80	189	0	Gravel/Sand	None	29
P-6317	6	Asbestos Cement	1974	130	219	0	Gravel/Sand	None	34
P-6318	6	Asbestos Cement	1966	130	416	0	Gravel/Sand	None	39
P-6319	8	Asbestos Cement	1974	130	234	0	Gravel/Sand	None	29
P-6323	8	Asbestos Cement	1974	130	381	0	Gravel/Sand	None	29
P-6324	8	PVC	1993	130	545	0	Gravel/Sand	None	12
P-6326	2	PE	2014	80	236	0	Gravel/Sand	None	26
P-6327	8	Asbestos Cement	1979	100	393	0	Gravel/Sand	None	29
P-6328	8	Asbestos Cement	1979	100	43	0	Gravel/Sand	None	29
P-6329	8	Asbestos Cement	1979	100	497	0	Gravel/Sand	None	29
P-6330	8	Asbestos Cement	1978	100	20	0	Gravel/Sand	None	29

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6331(1)	2	WICL	1958	80	662	0	Gravel/Sand	None	66
P-6331(2)	2	PVC	1994	80	489	0	Gravel/Sand	None	27
P-6332	8	Asbestos Cement	1979	100	453	0	Gravel/Sand	None	29
P-6334	6	PVC	1979	80	226	0	Gravel/Sand	None	21
P-6335	8	Asbestos Cement	1979	100	233	0	Gravel/Sand	None	29
P-6337	8	Asbestos Cement	1979	100	369	0	Gravel/Sand	None	29
P-6338(1)	8	Asbestos Cement	1979	100	759	0	Gravel/Sand	None	29
P-6338(2)	8	DI	2006	100	423	0	Gravel/Sand	None	11
P-6339(1)	2	WICL	1957	80	324	0	Gravel/Sand	None	66
P-6339(2)	1	Copper	1939	80	324	0	Gravel/Sand	None	66
P-6342	8	DICL	2005	80	1,512	0	Gravel/Sand	None	11
P-6343(1)	6	CIBIT	1934	80	647	0	Gravel/Sand	None	44
P-6343(2)	6	Asbestos Cement	1970	80	524	0	Gravel/Sand	None	34
P-6344	2	PVC	1979	80	101	0	Gravel/Sand	None	31
P-6345	2	PVC	1987	80	179	0	Gravel/Sand	None	29
P-6346	6	PVC	1983	80	128	0	Gravel/Sand	None	19
P-6347	8	CI	1899	80	98	0	Gravel/Sand	None	51
P-6349	16	DI	2005	130	3,181	0	Gravel/Sand	None	3
P-6350	16	DI	1986	130	2,948	0	Gravel/Sand	None	6
P-6351	16	DI	1986	130	606	0	Gravel/Sand	None	6
P-6352	16	DICL	2005	130	43	0	Gravel/Sand	None	3
P-6354	2	PVC	1992	80	828	0	Gravel/Sand	None	27
P-6355	1.3	Copper	1934	100	265	0	Gravel/Sand	None	66
P-6356	1.3	Copper	1934	100	191	0	Gravel/Sand	None	66
P-6358	6	Asbestos Cement	1950	80	453	0	Gravel/Sand	None	52
P-6359	2	WICL	1955	80	153	0	Gravel/Sand	None	66
P-6360	6	Asbestos Cement	1965	100	8	0	Gravel/Sand	None	39
P-6361	6	DI	1996	100	736	0	Gravel/Sand	None	17

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6366	12	Asbestos Cement	1976	100	17	0	Gravel/Sand	None	22
P-6367	12	Asbestos Cement	1974	100	872	0	Gravel/Sand	None	22
P-6370	18	CI	1913	90	15	0	Gravel/Sand	None	40
P-6371	18	CI	1913	90	16	0	Gravel/Sand	None	40
P-6372	12	DICL	2016	130	104	0	Gravel/Sand	None	4
P-6373	12	DICL	2016	130	118	0	Gravel/Sand	None	4
P-6374	20	DI	2018	120	322	0	Gravel/Sand	None	2
P-6380	8	DICL	2006	100	631	0	Gravel/Sand	None	11
P-6381	8	DICL	2006	100	376	0	Gravel/Sand	None	11
P-6386	10	CI	1899	70	295	0	Gravel/Sand	None	45
P-6387	10	CI	1899	70	347	0	Gravel/Sand	None	45
P-6388	10	CI	1899	70	669	0	Gravel/Sand	None	45
P-6389	16	Asbestos Cement	1968	125	732	0	Gravel/Sand	None	26
P-6390	16	Asbestos Cement	1968	125	1,362	0	Gravel/Sand	None	26
P-6391	10	Asbestos Cement	1963	125	949	1	Gravel/Sand	None	30
P-6392	10	Asbestos Cement	1963	125	962	0	Gravel/Sand	None	28
P-6403	24	DI	2018	120	135	0	Gravel/Sand	None	2
P-6404	24	DI	2018	120	1,068	0	Gravel/Sand	None	2
P-6405	8	DI	2018	110	197	0	Gravel/Sand	None	11
P-6406	8	DI	2018	110	207	0	Gravel/Sand	None	11
P-6407	8	Asbestos Cement	1968	80	128	0	Gravel/Sand	None	34
P-6408	8	Asbestos Cement	1968	80	48	0	Gravel/Sand	None	34
P-6411	8	DI	2018	130	189	0	Gravel/Sand	None	11
P-6412	10	CI	1899	70	73	0	Gravel/Sand	None	45
P-6413	10	CI	1899	70	353	0	Gravel/Sand	None	45
P-6415	16	Asbestos Cement	1974	120	1,297	0	Gravel/Sand	None	21
P-6416	16	Asbestos Cement	1974	125	904	0	Gravel/Sand	None	21
P-6417	6	Asbestos Cement	1963	80	66	0	Gravel/Sand	None	39

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6418	6	Asbestos Cement	1963	80	545	0	Gravel/Sand	None	39
P-6419	8	CI	1925	60	694	0	Gravel/Sand	None	48
P-6420	8	CI	1925	40	1,089	0	Gravel/Sand	None	48
P-6423	8	CI	1925	80	458	0	Gravel/Sand	None	48
P-6424	8	CI	1925	60	32	0	Gravel/Sand	None	48
P-6427	8	CI	1925	80	44	0	Gravel/Sand	None	48
P-6428	8	CI	1925	80	967	0	Gravel/Sand	None	48
P-6430	8	CI	1933	65	663	0	Gravel/Sand	None	55
P-6431	12	PVC	1989	130	51	0	Gravel/Sand	None	7
P-6432(1)	12	PVC	1989	100	202	0	Gravel/Sand	None	7
P-6432(2)	12	PVC	1989	100	509	0	Gravel/Sand	None	7
P-6433	6	CI	1906	60	1,467	0	Gravel/Sand	None	55
P-6434	6	CI	1906	60	33	0	Gravel/Sand	None	55
P-6435	12	DICL	2006	130	40	0	Gravel/Sand	None	4
P-6437	10	CICL	1940	80	855	0	Gravel/Sand	None	32
P-6438	8	DICL	2006	110	43	0	Gravel/Sand	None	11
P-6439	10	CICL	1940	80	228	0	Gravel/Sand	None	32
P-6440	12	DICL	2006	110	68	0	Gravel/Sand	None	4
P-6441	12	DICL	2006	120	60	0	Gravel/Sand	None	4
P-6442	8	CI	1931	45	1,771	0	Gravel/Sand	None	55
P-6443	12	DICL	2006	120	246	0	Gravel/Sand	None	4
P-6444	12	DICL	2006	110	619	0	Gravel/Sand	None	4
P-6445	8	DICL	2006	110	147	0	Gravel/Sand	None	11
P-6446	12	CI	1926	60	21	0	Gravel/Sand	None	41
P-6447	12	Asbestos Cement	1963	125	13	0	Gravel/Sand	None	27
P-6449	12	Asbestos Cement	1963	125	723	0	Gravel/Sand	None	27
P-6450	12	Asbestos Cement	1963	120	622	0	Gravel/Sand	None	27
P-6451(1)	1	Copper	1942	80	273	1	Gravel/Sand	None	67

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6451(2)	2	WICL	1950	80	278	0	Gravel/Sand	None	66
P-6452	6	CI	1918	60	243	0	Gravel/Sand	None	54
P-6453	8	CI	1899	40	239	0	Gravel/Sand	None	51
P-6454	8	CI	1899	90	474	0	Gravel/Sand	None	51
P-6455	8	CI	1899	80	299	0	/ corrosive soil (wetlands or	None	56
P-6456	8	CI	1899	40	348	0	Gravel/Sand	None	51
P-6457	6	CI	1920	40	83	0	Gravel/Sand	None	53
P-6458	6	CI	1920	40	224	0	Gravel/Sand	None	53
P-6459(1)	6	CI	1921	40	127	0	Gravel/Sand	None	53
P-6459(2)	6	CI	1921	40	581	0	Gravel/Sand	None	53
P-6460	6	CI	1926	40	745	0	Gravel/Sand	None	53
P-6461	8	CI	1933	50	555	0	Gravel/Sand	None	55
P-6462	8	CI	1933	40	471	0	Gravel/Sand	None	55
P-6464	16	DICL	2015	120	594	0	Gravel/Sand	None	3
P-6465	16	DI	2019	120	946	0	Gravel/Sand	None	3
P-6466	20	DI	2018	130	294	0	Gravel/Sand	None	2
P-6467	24	DI	2018	130	171	0	Gravel/Sand	None	2
P-6468	20	DI	2018	130	312	0	Gravel/Sand	None	2
P-6469	24	DI	2018	130	229	0	Gravel/Sand	None	2
P-6470	8	DICL	2015	110	211	0	Gravel/Sand	None	11
P-6471	10	CI	1899	70	145	0	Gravel/Sand	None	45
P-6472	8	DICL	2018	130	96	0	Gravel/Sand	None	11
P-6473(1)	8	DICL	2018	130	132	0	/ corrosive soil (wetlands or	None	16
P-6473(2)	8	DICL	2018	130	154	0	/ corrosive soil (wetlands or	None	16
P-6474	4	DICL	2018	130	143	0	Gravel/Sand	None	21
P-6475	4	DICL	2018	130	108	0	/ corrosive soil (wetlands or	None	26
P-6476	4	DICL	2018	130	102	0	/ corrosive soil (wetlands or	None	26
P-6477	12	DI	2016	130	1,449	0	Gravel/Sand	None	4

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6478	8	DICL	2016	110	522	0	Gravel/Sand	None	11
P-6479(1)	8	DICL	2017	130	61	0	Gravel/Sand	None	11
P-6479(2)(1)	8	DICL	2017	130	494	0	Gravel/Sand	None	11
P-6479(2)(2)	8	DICL	2017	130	118	0	Gravel/Sand	None	11
P-6480	8	DICL	2017	130	1,346	0	Gravel/Sand	None	11
P-6481	8	DICL	2007	130	107	0	Gravel/Sand	None	11
P-6482	8	DICL	2017	130	1,067	0	Gravel/Sand	None	11
P-6483(1)(1)	8	DICL	2012	130	422	0	Gravel/Sand	None	11
P-6483(1)(2)	8	DICL	2012	130	145	0	Gravel/Sand	None	11
P-6483(2)	8	DICL	2012	130	545	0	Gravel/Sand	None	11
P-6484	8	DICL	2012	130	170	0	Gravel/Sand	None	11
P-6486	8	DICL	2005	130	159	0	Gravel/Sand	None	11
P-6487	8	PVC	1989	130	309	0	Gravel/Sand	None	14
P-6488	2	STCLPC	1961	130	348	0	Gravel/Sand	None	51
P-6489	8	DI	2016	130	742	0	Gravel/Sand	None	11
P-6491(2)	4	CI	1910	130	32	0	Gravel/Sand	None	59
P-6493	12	DI	2017	120	143	0	Gravel/Sand	None	4
P-6494	6	DI	2017	110	34	0	Gravel/Sand	None	16
P-6495	12	DI	2017	120	1,022	0	Gravel/Sand	None	4
P-6496	8	DI	2017	110	83	0	Gravel/Sand	None	11
P-6497	8	DI	2017	110	58	0	Gravel/Sand	None	11
P-6499	12	DI	2017	120	953	0	Gravel/Sand	None	4
P-6500	8	DI	2017	110	58	0	Gravel/Sand	None	11
P-6501	6	DI	2017	110	62	0	Gravel/Sand	None	16
P-6502	12	DI	2017	120	87	0	Gravel/Sand	None	4
P-6515	4	CI	1899	70	309	0	Gravel/Sand	None	61
P-6516(1)	16	Ductile Iron	2019	130	449	0	Gravel/Sand	None	3
P-6516(2)(1)	16	Ductile Iron	2019	130	500	0	Gravel/Sand	None	3

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6516(2)(2)(1	16	Ductile Iron	2019	130	538	0	Gravel/Sand	None	3
6516(2)(2)(2)(	16	Ductile Iron	2019	130	170	0	Gravel/Sand	None	3
516(2)(2)(2)(2	16	Ductile Iron	2019	130	52	0	Gravel/Sand	None	3
16(2)(2)(2)(2)(	16	Ductile Iron	2019	130	154	0	Gravel/Sand	None	3
5(2)(2)(2)(2)(2	16	Ductile Iron	2019	130	240	0	Gravel/Sand	None	3
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	241	0	Gravel/Sand	None	3
)(2)(2)(2)(2)(2	16	Ductile Iron	2019	130	204	0	Gravel/Sand	None	3
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	160	0	Gravel/Sand	None	3
)(2)(2)(2)(2)(2	16	Ductile Iron	2019	130	230	0	Gravel/Sand	None	3
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	336	0	Gravel/Sand	None	3
)(2)(2)(2)(2)(2	16	Ductile Iron	2019	130	84	0	Gravel/Sand	None	3
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	313	0	Gravel/Sand	None	3
)(2)(2)(2)(2)(2	16	Ductile Iron	2019	130	387	0	Gravel/Sand	None	3
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	257	0	Gravel/Sand	None	3
)(2)(2)(2)(2)(2	16	Ductile Iron	2019	130	180	0	Gravel/Sand	None	3
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	193	0	Gravel/Sand	None	3
)(2)(2)(2)(2)(2	16	Ductile Iron	2019	130	403	0	Gravel/Sand	None	3
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	532	0	Gravel/Sand	None	3
)(2)(2)(2)(2)(2)	16	Ductile Iron	2019	130	308	0	Stray current	None	6
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	26	0	Stray current	None	6
)(2)(2)(2)(2)(2)	16	Ductile Iron	2019	130	528	0	Stray current	None	6
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	388	0	Stray current	None	6
)(2)(2)(2)(2)(2)	16	Ductile Iron	2019	130	95	0	Gravel/Sand	None	3
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	413	0	Gravel/Sand	None	3
)(2)(2)(2)(2)(2)	16	Ductile Iron	2019	130	29	0	Gravel/Sand	None	3
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	420	0	Gravel/Sand	None	3
2)(2)(2)(2)(2)(	16	Ductile Iron	2019	130	263	0	Gravel/Sand	None	3
P-6517	8	Ductile Iron	2019	110	14	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6518	8	Ductile Iron	2019	110	1,242	0	Gravel/Sand	None	11
P-6519	8	Ductile Iron	2019	110	47	0	Gravel/Sand	None	11
P-6521	8	Ductile Iron	2019	110	50	0	Gravel/Sand	None	11
P-6522	8	Ductile Iron	2019	110	44	0	Gravel/Sand	None	11
P-6523	8	Ductile Iron	2019	110	44	0	Gravel/Sand	None	11
P-6524	8	Ductile Iron	2019	110	45	0	Gravel/Sand	None	11
P-6525	8	Ductile Iron	2019	110	35	0	Gravel/Sand	None	11
P-6526	8	Ductile Iron	2019	110	35	0	Gravel/Sand	None	11
P-6527	8	Ductile Iron	2019	110	54	0	Gravel/Sand	None	11
P-6528	8	Ductile Iron	2019	110	39	0	Gravel/Sand	None	11
P-6529	12	Ductile Iron	2019	120	44	0	Gravel/Sand	None	4
P-6530	8	Ductile Iron	2019	110	51	0	Gravel/Sand	None	11
P-6531	8	Ductile Iron	2019	110	40	0	Gravel/Sand	None	11
P-6532	8	Ductile Iron	2019	110	38	0	Gravel/Sand	None	11
P-6533	8	Ductile Iron	2019	110	39	0	Gravel/Sand	None	11
P-6534	8	Ductile Iron	2019	110	39	0	Gravel/Sand	None	11
P-6535	8	Ductile Iron	2019	110	26	0	Gravel/Sand	None	11
P-6536	8	Ductile Iron	2019	110	51	0	Gravel/Sand	None	11
P-6537	12	Ductile Iron	2019	120	53	0	Gravel/Sand	None	4
P-6538	12	Ductile Iron	2019	120	33	0	Gravel/Sand	None	4
P-6539	6	Ductile Iron	2019	110	49	0	Stray current	None	19
P-6540	6	Ductile Iron	2019	110	37	0	Stray current	None	19
P-6541	12	Ductile Iron	2019	120	76	0	Stray current	None	7
P-6542	8	Ductile Iron	2019	110	35	0	Gravel/Sand	None	11
P-6543	8	Ductile Iron	2019	110	34	0	Gravel/Sand	None	11
P-6544	8	Ductile Iron	2019	110	82	0	Gravel/Sand	None	11
P-6545	8	Ductile Iron	2019	110	339	0	Gravel/Sand	None	11
P-6546	8	Ductile Iron	2019	110	34	0	Gravel/Sand	None	11

Label	Diameter (in)	Material	Installation Year	Hazen-Williams C	Length (ft)	Breaks	Soil Code	Water Quality	Asset Management Score
P-6581	16	Asbestos Cement	1954	125	15	0	Gravel/Sand	None	0

Junction Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2	111	1.37	29.8
J-4	89	0	39.7
J-7	104	0.81	65.4
J-8	130	0	28.2
J-9	80	0.21	75.8
J-11	94	0	69.6
J-12	64	0.19	82.7
J-13	88	0.79	72.3
J-16	118	1.43	59.8
J-18	70.4	1.61	50.8
J-19	60.6	0.55	53.6
J-20	57.4	2.11	60.5
J-21	68.9	0	54.5
J-22	120	1.8	27.5
J-23	150	0	20.7
J-24	98	0.04	68
J-26	113	0	29.4
J-27	148	0	46.1
J-28	138	18.23	50.5
J-29	160	14.91	41
J-30	96.9	7.4	39.8
J-31	108	0	64.6
J-32	34.8	1.69	59.7
J-33	100.5	1.64	32.9
J-34	49	3.01	55.1
J-35	59	6.42	50.8
J-36	45.7	2.61	56.5
J-37	63.1	4.16	49
J-38	46.2	4.03	56.3
J-39	65.8	3.14	47.8
J-40	69.5	0.89	46.3
J-41	59.1	3.8	50.7
J-42	66.6	1.59	47.5
J-43	67.7	2.62	47
J-44	68	3.79	46.9
J-45	66	0.86	47.7
J-46	78	3.01	42.9
J-47	89.3	0.77	38
J-48	69.1	0.39	46.8
J-49	59	3.21	52.3
J-50	55.8	2.76	53.7
J-51	59.1	2.07	52.3

Junction Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-52	66.1	2.65	49.3
J-53	59	1.66	52.3
J-54	83	3.5	42.1
J-55	61	4.46	51.6
J-56	44	3.71	59
J-57	62	1.41	51.2
J-58	42	0.69	59.9
J-59	52	2.87	55.5
J-60	47	1.11	57.6
J-61	28.8	1.01	65.5
J-63	28.5	1.83	65.6
J-65	56	0.79	53.6
J-66	12	1.21	72.7
J-67	60	4.73	51.9
J-68	150	1.63	13
J-69	83	3.29	42
J-70	82	1.25	42.4
J-71	120	1.72	25.9
J-72	134	0.62	19.9
J-74	66	2.45	49.3
J-75	118	0.46	26.8
J-76	68	0.9	48.4
J-77	38.3	0.95	61.3
J-78	67	0.37	48.9
J-79	36	3.65	62.1
J-80	44.2	0.95	58.5
J-81	43.6	1.35	58.7
J-82	40.3	3.43	60.2
J-83	41.8	3.33	59.5
J-84	34.7	3.22	62.5
J-85	41.7	1.49	59.4
J-86	44.8	0	58.1
J-87	45	1.71	58
J-88	73	1.43	45.1
J-89	81	1.57	41.7
J-90	77.6	5.19	44.3
J-91	130	4.55	21.7
J-92	67.3	4.35	47.2
J-93	43.4	4.06	56.6
J-94	38.7	3.61	58.6
J-95	46.4	0.39	55.3
J-96	103.5	1.7	31.9

Junction Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-97	42.4	1.61	57
J-98	32.7	1.04	61.1
J-99	34.6	3.71	60.3
J-100	41	2.37	58.6
J-101	41	6.55	58.6
J-102	49	1.49	55.1
J-103	50	0.85	54.7
J-104	48	2.52	55.5
J-105	32	1.7	62.5
J-106	26	3.67	65.1
J-107	27	0	64.6
J-108	40	0.81	59
J-109	20	0.97	67.6
J-110	43	1.99	57.7
J-112	31.5	9.54	62.7
J-113	15.6	0.49	69.6
J-114	24	0.77	66
J-115	29.2	0.89	63.7
J-116	41	1.89	58.8
J-117	38	1.83	60.2
J-118	34	0.62	61.9
J-119	44	2.82	57.6
J-120	77	0.97	43.4
J-121	26	0.89	65
J-122	15.4	2.21	69.9
J-123	18	0.75	68.1
J-124	13	0.59	70.5
J-125	19	0.8	68
J-126	13	1.28	70.6
J-127	5	1.58	73.8
J-128	11	7.8	71.8
J-129	23	1.37	66.6
J-130	11	3.1	71.8
J-131	17	2.49	69.2
J-132	15	0.8	70.1
J-133	44	2.11	57.8
J-134	42	3.89	58.7
J-135	41	1.18	59.3
J-136	34	3.14	62.7
J-137	16	3.01	69.8
J-138	41	2.38	60.1
J-139	53	2.56	54

Junction Input Data
Capital Efficiency Plan™
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Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-140	9	14.59	72.7
J-141	15.8	2.2	70.5
J-142	20.3	0.24	68.5
J-143	37	1.65	61.1
J-145	38.1	2.21	58.8
J-146	38	2.5	61.1
J-147	37.1	0.87	61.1
J-148	30	1.44	63.3
J-149	20.4	1.86	67.5
J-150	44.4	2.02	57.1
J-151	42	1.56	58.1
J-153	80	2.87	42.1
J-154	31	1.37	62.9
J-155	92	0	42
J-156	87	4.87	72.5
J-157	65	0.96	82
J-158	34.1	0.73	60.5
J-159	51.8	0	53.1
J-160	56.6	0	51.5
J-162	18	8.13	70.1
J-163	20	1.44	69.2
J-200	50	12.79	60.1
J-201	72	3.85	50.6
J-202	54	11.44	58.4
J-203	75	3.54	49.3
J-204	63	1.02	57.3
J-205	87	4.53	46.4
J-206	63	4.4	56.8
J-207	83	0.85	48.1
J-208	83.6	6.05	47.8
J-209	81.2	2.25	48.8
J-210	82	7.82	48.5
J-211	80	5.99	49.4
J-212	73	3.82	52.4
J-213	66	0	56.7
J-214	67	4.1	52.8
J-300	11	0.19	72.6
J-301	33	0.69	63.1
J-302	22.5	0.26	67.8
J-303	13	2.15	72
J-304	18	1.78	69.8
J-305	27	0.98	66

Junction Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-306	15	2.84	71.1
J-307	26.8	2.8	66.1
J-308	23	1.44	68.2
J-309	42	3.19	60.6
J-310	92	0.08	42.1
J-311	130	4.13	27
J-312	25	2.36	67.2
J-313	23	3.84	68
J-314	72	1.29	50.8
J-315	57	1.65	57.1
J-316	55	0.54	57.8
J-317	16	0.81	71
J-318	12.6	1.12	72.4
J-319	19	0.35	69.6
J-320	16	9.71	70.9
J-321	13.7	2.35	71.9
J-322	7.7	0	74.5
J-323	84	1.43	43.1
J-324	137	2.23	19.9
J-325	77	1.03	46.9
J-326	44	1.16	62.4
J-327	27	1.24	69.9
J-328	41	2.37	63.9
J-329	57	3.24	57
J-330	13	0.16	72.2
J-331	10	2.48	73.3
J-332	10	7.83	73.3
J-333	51	1.09	57
J-334	48	5.2	60.9
J-335	54	2.48	58.3
J-336	53.7	1.49	58.5
J-337	47	0.43	61.4
J-338	53.4	2.53	58.6
J-339	50.8	2.07	58.5
J-340	47	1.41	59.1
J-341	48	1.94	58.4
J-342	46	1.66	59.3
J-343	41	7.42	61.3
J-344	47	3.18	58.8
J-345	66	2.3	50.6
J-346	59	1.57	53.7
J-347	47	4.19	58.8

Junction Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-348	51	2.58	57.1
J-349	46	0.23	59.1
J-351	32.7	1.04	63.4
J-352	20	1.04	69
J-353	22	1.62	68.2
J-354	10.7	0.64	73.1
J-356	12	2.35	72.6
J-357	19	0.58	69.6
J-358	13	0.3	70.8
J-359	52	0.78	59.3
J-360	89	0.92	38
J-361	89	0	38
J-362	130	0.46	22.5
J-363	131	0.93	22.3
J-364	140	0	24.3
J-365	51	2.78	59.8
J-366	29.5	1.93	66
J-398	41.1	3.49	59.7
J-399	27.1	0.31	65.7
J-400	54	2.07	60.3
J-401	63	0	56.4
J-402	65	4.39	55.6
J-403	74	2.35	50.1
J-404	71	0.91	51.3
J-405	77	0	50.6
J-406	81	2.73	48.9
J-407	69	7.62	54
J-408	68	5.76	54.4
J-409	70	0.35	53.6
J-410	74	2.9	51.7
J-411	66	2.81	55
J-412	61	5.79	57.1
J-413	60	1.04	57.5
J-414	64	5.6	55.8
J-415	58.9	0.32	57.9
J-416	44.5	1.71	62.4
J-417	53	6.19	58.4
J-418	53	0.81	54
J-419	52	0.32	54.4
J-420	50	0	54.2
J-421	19	0	73.2
J-422	19	0.36	73

Junction Input Data
Capital Efficiency Plan™
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Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-423	31	1.86	67.7
J-424	41.7	2.58	60.2
J-425	24	3.49	65
J-426	23	2.67	65.3
J-427	40.6	3.68	57.7
J-428	19	1.08	66.9
J-429	39	0.39	58.3
J-430	66	0.64	53.3
J-431	64	1.98	54.1
J-432	57	2.49	57.1
J-433	61.5	2.63	55.1
J-434	34	23.62	67.1
J-435	25.3	1.66	70.8
J-436	30	0.65	68.7
J-437	18	1.16	70.5
J-438	16.5	0.08	74
J-439	78	0.23	50.2
J-440	56.3	6.94	57.9
J-441	81.7	2.69	48.6
J-443	48.5	1.48	60.2
J-444	42.5	0.32	62.8
J-445	40.2	0	63.2
J-446	30	5.31	68.3
J-447	44.3	1.79	62.6
J-448	62	0.65	54.9
J-449	61	0.48	55.4
J-450	63	2	54.5
J-451	28	2.86	66.8
J-452	40	3.39	61
J-453	28	2.09	63.4
J-454	23	2.1	65.6
J-455	30	0.92	62.1
J-456	42	0.92	56.9
J-457	38	4.03	58.6
J-458	36	1.91	59.4
J-459	40	5.71	57.7
J-460	34	3.15	60.3
J-461	15	1.02	68.5
J-498	11	3.78	70.3
J-499	39	0.56	58.2
J-500	41	1.37	57.7
J-501	57	2.96	50.4

Junction Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-502	51	1.34	52.7
J-503	18	2.38	66.9
J-504	100	1.91	32
J-505	31.5	0.99	61
J-506	9	0.5	70.7
J-507	30	0.79	61.6
J-508	47	2.14	54.2
J-509	46	3.91	54.7
J-510	68	0	45.3
J-511	50	0.21	52.9
J-512	54	0	51.2
J-514	47	0.34	56.1
J-515	45	0.8	56.9
J-516	36.5	2.88	60.5
J-517	39.5	2.52	59.3
J-518	39.5	1.68	59.3
J-519	43	0	57.8
J-520	42	0	58.8
J-521	40	0	59.6
J-522	95	0	34.7
J-523	33	0.09	61.6
J-525	25	2.32	64.8
J-526	35.5	0	60.4
J-527	33	1.94	61.4
J-528	24.5	1.81	64.9
J-529	22.5	1.08	65.7
J-530	44	0	56.6
J-531	18	0	68.3
J-532	32.4	3.93	60.9
J-533	44	0.3	56
J-534	19.5	0	66.7
J-535	19.5	1.77	66.6
J-539	10.5	1.2	70.1
J-540	6.5	0.13	72.6
J-541	5	0.05	72.6
J-542	6	0.42	72.9
J-543	17	5.47	68.9
J-544	32.4	0	62.4
J-545	22	7.95	67
J-546	37	0.85	60.9
J-547	28	0.17	65.1
J-548	38.5	1.46	61

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-549	43	2.64	59.8
J-550	31	0.14	63.5
J-551	31	7.48	62.7
J-552	26	1.71	64.7
J-553	28.5	1.82	63.5
J-554	23	1.55	65.7
J-555	14	0	69.9
J-556	13	0	70
J-560	18.5	1.89	67.6
J-561	22	2.22	66.1
J-562	17	0.92	68.3
J-563	19	0.99	67.3
J-564	10	11.43	71.2
J-565	8	0	72.1
J-566	10	0	71.2
J-567	20	3.19	66.9
J-568	46.5	0	55.4
J-569	8.5	0	71.9
J-570	4	2.23	73.8
J-571	5.5	0.31	73.2
J-573	7	5.97	73.5
J-574	21	0.35	67.7
J-576	19	1.22	68
J-577	21	0	67.7
J-578	11	2.24	70.8
J-579	32	4	62
J-581	22	3.72	65.1
J-582	78	0	41.1
J-583	34	1.23	61
J-598	6	0.12	72.3
J-599	8	0.61	71.5
J-600	20	2.77	68.4
J-601	7	1.89	73.9
J-602	26	1.46	65.5
J-603	34	0.32	61.9
J-604	35.5	7.77	61.3
J-605	36.5	1.28	60.5
J-606	37.5	1.28	59.8
J-607	30	1.06	62.8
J-608	30	2.92	62.8
J-609	33.5	1.01	61.3
J-610	31	2.78	62.4

Junction Input Data
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Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-611	29	1.6	63.2
J-612	8	3.3	72.4
J-613	13	2.94	70.1
J-614	28	6.45	63.6
J-615	28	0.77	63.5
J-616	31	0.11	62.9
J-617	16.5	1.95	68.9
J-618	31.5	2.01	61.7
J-619	19	0.88	67.7
J-620	13	3.52	70.2
J-621	25.2	3.56	64.9
J-622	18	2.4	67.9
J-623	26	3.18	64.3
J-624	25	2.01	64.8
J-625	23.5	0.48	65.4
J-626	19.5	0.31	67.1
J-627	17.5	1.52	68
J-628	12	2.01	70.4
J-629	14	1.75	69.5
J-630	13.5	0.15	69.7
J-631	12	0.32	70.4
J-632	13	0.85	70
J-633	9	4.72	71.7
J-634	5.5	1.92	73.1
J-635	13	0.11	69.4
J-636	18	1.81	67.2
J-637	25	0.41	64.2
J-638	25	0.69	64.5
J-639	29.3	2.91	62.6
J-640	20	0.58	66.6
J-641	7	2.29	72.3
J-642	26	3.84	64
J-643	36	1.15	59.8
J-645	35	2.08	60.1
J-646	16	0.6	68.3
J-647	34	1.4	60.4
J-648	27	1.21	63.4
J-649	14	2.03	69
J-650	19	6.3	66.8
J-651	34	1.88	60.4
J-652	20	0	66.6
J-653	26	4.12	64

Junction Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-655	26	1.09	65.5
J-656	19	14.52	67.9
J-657	24	3.87	65.5
J-658	13.5	0.93	69.4
J-659	6	0.81	72.4
J-699	21	4.72	66.5
J-700	87.5	0	36.6
J-701	8	0.88	70.8
J-702	15	0	67.8
J-703	21	1.72	65.3
J-704	8	1.91	70.8
J-705	49.5	0.26	52.9
J-706	13	2.15	68.6
J-707	9	0	70.4
J-708	8	10.31	70.8
J-709	47	0.23	54.2
J-710	76	1.03	41.6
J-711	59	1.33	48.9
J-712	20	0.38	65.7
J-713	11	0.23	69.8
J-714	23	1.23	64.6
J-715	7.5	0.02	71.5
J-716	15	3.27	67.7
J-717	51	2.26	52.2
J-718	67	1.41	45.3
J-719	96	0.54	32.8
J-720	108	0.24	27.6
J-721	10	4.62	69.9
J-722	10	0	69.9
J-723	25	0.29	63.6
J-724	22.5	0.72	64.6
J-725	28	4.51	62.2
J-798	27	0	62.8
J-799	45	8.48	55
J-801	30	3.01	63.3
J-802	30	1.51	63.8
J-803	31	1.89	63.3
J-804	31.5	1	62.8
J-805	59.2	1.32	50.9
J-806	20	4.86	68.4
J-807	24	8	67.2
J-808	65	0	53.7

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-809	62	1.87	55
J-810	75	2.43	49.3
J-811	88	4.98	43.7
J-812	85	0.04	45
J-813	90	0	42.8
J-814	87	0.22	44.1
J-815	43	1.5	62.5
J-816	108	0.42	35.6
J-817	140	0	50.8
J-819	25	0.47	69.5
J-820	48	1.15	60.6
J-821	52	0.71	58.8
J-822	50	0	59.7
J-823	33	0.42	66.7
J-824	20	1.59	67.3
J-825	32	0.23	62.4
J-826	114	4.63	60.8
J-827	130	2.25	53.9
J-828	152	12.43	44.4
J-829	122	0	57.3
J-830	80	24.61	75.5
J-831	98	0	39.4
J-832	130	1.5	25.5
J-833	42	2.96	63.6
J-834	70	2.36	51.5
J-837	38.5	1.43	59.7
J-838	59	1.03	50.8
J-839	76.9	2.24	43.1
J-842	49	1.22	55.1
J-843	57.7	4.68	51.4
J-844	73.4	1.3	44.5
J-845	39	3.61	59.4
J-846	50.2	0.12	54.6
J-847	57.8	8.16	51.3
J-848	39	0.99	59.5
J-849	39	1.17	59.5
J-850	40.4	3.24	58.8
J-851	38.9	0.93	59.5
J-852	42.1	0.69	58.1
J-853	55	0	52.5
J-854	46	0	56.5
J-855	55	3.85	52.6

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-856	53.4	1.38	53.3
J-857	46.5	4.41	56.3
J-858	88	0	38.5
J-860	39	2.86	59.6
J-861	29.8	3.9	63.6
J-862	22	0.59	67
J-863	27.2	1.53	64.7
J-864	29	2.04	63.9
J-868	31.4	1.89	62.9
J-869	39	2.41	59.7
J-870	53.9	4.68	53.7
J-871	60.2	4.2	51
J-872	46.8	1.58	56.8
J-873	68	4.95	47.6
J-874	34.7	1.62	61.7
J-875	54.6	2.16	53.1
J-876	40.2	1.37	59.4
J-877	40.1	4.01	59.5
J-878	39.2	1.4	60.5
J-879	42.3	3.56	59.1
J-880	31	1.24	64
J-881	41.6	3.19	59.4
J-882	52.5	1.16	54.7
J-883	52.9	1.24	54.5
J-884	78	3.11	43.7
J-885	78	5.64	43.7
J-887	60.9	3.24	51.2
J-889	31.1	4.37	64.3
J-890	25.1	6.01	66.9
J-891	19.2	3.07	68.2
J-892	19.2	0.34	68.2
J-893	19.6	1.82	68
J-894	19	5.72	69.6
J-895	57	4.96	53.2
J-896	43.9	2.78	58.4
J-897	35.8	0.91	61
J-898	44.9	0.96	57.3
J-899	46.6	1.1	56.6
J-900	48.7	3.64	55.1
J-901	46.7	5.33	55.9
J-902	43.8	6.1	57.2
J-903	43.9	0	57.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-904	46.6	1.93	55.8
J-905	44.2	5.58	56.8
J-906	48.2	2.56	55.1
J-907	42.6	9.18	57.4
J-908	41.9	1.03	57.7
J-909	39.1	1.77	58.8
J-910	43.3	4.22	57
J-911	37.4	1.03	59.6
J-912	39.7	2.32	58.6
J-914	35.4	4.67	60.4
J-915	31.9	1.83	61.9
J-916	34	1.04	61
J-917	34.1	2.51	60.9
J-918	33.5	3.12	61.2
J-919	28.1	4.81	63.5
J-920	26.5	2.53	64.1
J-921	27.6	2.54	63.6
J-922	32.6	2.9	61.6
J-923	31.3	3.66	62.1
J-924	28.7	3.41	63.2
J-925	51.8	4.74	54
J-926	57	3.6	51.7
J-927	61.6	1.36	49.7
J-928	59.4	2.63	50.8
J-929	62.6	8.62	49.4
J-930	53.1	1.97	53.1
J-931	52.3	1.77	53.5
J-932	47	5.18	55.8
J-934	56.8	0.57	51.8
J-935	62.6	0.51	49.3
J-936	62.5	1.53	49.3
J-937	58.7	0	51
J-938	61.7	3.74	49.7
J-939	59.4	4.25	50.7
J-940	57.8	3.65	51.1
J-941	55.1	3.05	52.3
J-942	56.3	2.48	51.7
J-943	55.5	1.71	52.1
J-944	52.6	2.16	53.1
J-945	51.3	4.14	53.6
J-946	46.6	1.7	55.6
J-947	33	4.89	61.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-948	52	5.22	53.3
J-949	31.2	3.29	62.2
J-950	51	2.81	53.6
J-951	44.1	0.98	56.6
J-952	50	7.13	54.1
J-953	44	0.25	56.6
J-954	23.6	0.5	65.5
J-955	28.8	4.59	63.2
J-956	25.7	0	64.5
J-957	18.5	0	67.7
J-958	27.7	0	63.7
J-959	30.9	3.06	62.3
J-960	26.1	0.36	64.3
J-962	19	3.32	67.3
J-963	9.9	0	71.2
J-966	10.1	0.92	70.6
J-967	13	1.39	69.3
J-968	14.3	2.51	68.8
J-969	12.7	2.59	69.4
J-971	11.1	0.46	70
J-972	11.2	0.86	70
J-973	9	1.87	70.9
J-974	9	0.09	70.8
J-975	9	1.87	70.8
J-976	9	3.17	70.8
J-977	9	2.73	70.5
J-978	9	2.5	70.5
J-979	9	351.69	69.4
J-980	9	0.85	69.4
J-981	9	3.72	69.8
J-982	9	2.09	69.8
J-984	9	0.03	70
J-985	9	1.45	70
J-987	9	0.07	70
J-988	9	0.57	69.9
J-989	9	1.6	69.9
J-990	9	6.01	69.9
J-991	46.5	1.7	54.9
J-992	38	4.2	58.6
J-993	47.9	0.62	54.2
J-994	46	6.8	55.1
J-995	44.9	0.68	55.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-996	43.9	0.5	55.9
J-997	47.1	1.03	54.5
J-998	42.6	4.53	56.4
J-999	9	0.36	71.1
J-1000	9	2.64	71.1
J-1001	11.4	3.52	70
J-1002	41.9	2.4	56.9
J-1003	9	0.88	71.1
J-1004	43.8	4.67	55.9
J-1005	10.6	1.91	70.2
J-1006	49	2.21	53.7
J-1007	47.4	0.69	54.4
J-1008	45.5	3.7	55.2
J-1009	43.8	0.58	55.9
J-1011	36.3	0	59.1
J-1012	42	0	56.6
J-1013	42.9	1.13	56.3
J-1014	37.8	0.56	58.3
J-1015	66	1.49	53.1
J-1017	72.2	1.75	47.9
J-1018	78.2	3.4	45.4
J-1019	75.9	3.42	46.4
J-1020	78.2	7.45	45.3
J-1021	74.3	9.04	47
J-1022	68	5.11	49.8
J-1024	79.6	4.75	44.8
J-1025	77.4	1.79	45.7
J-1026	79.3	3.13	44.9
J-1027	67.2	2.88	50.4
J-1028	42.3	1.05	60
J-1029	33.4	13.02	62
J-1030	35.3	7.49	61.2
J-1032	19	0.21	66.8
J-1033	29	0.75	62.5
J-1034	26.1	1.34	63.8
J-1035	23.5	1.25	64.9
J-1036	19	1.23	66.8
J-1037	43.1	0	56.4
J-1038	39.5	0.32	58
J-1039	44.9	3.91	55.7
J-1040	47.8	1.42	54.4
J-1041	29.4	3.53	62.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1042	29	1.78	62.5
J-1043	40.7	4.1	57.4
J-1044	47.9	3.44	54.3
J-1045	39.5	4.85	57.9
J-1046	41.6	2.11	57
J-1047	39	0.01	58.1
J-1048	36.5	0.1	59.2
J-1049	41.3	5.45	57.2
J-1050	49	1.9	53.8
J-1051	39	1.38	58.1
J-1052	39	0.7	58.1
J-1053	39	0.66	58.1
J-1054	36.6	1.04	59.2
J-1055	9	4.66	71.1
J-1056	41.9	5.51	56.9
J-1057	39	3.24	58.1
J-1058	39	3.08	58.1
J-1061	39	1.54	58.1
J-1062	32	7.8	61.2
J-1063	30.6	3.07	61.8
J-1064	9.8	3.94	70.8
J-1065	30.8	1.39	61.7
J-1066	34.4	3.72	60.1
J-1067	9	3.33	71.1
J-1068	19	1.5	66.8
J-1069	19	2.35	66.8
J-1070	28.1	2.61	62.8
J-1071	28.4	4.49	62.7
J-1072	19	3.47	66.8
J-1073	16.7	4.57	67.8
J-1074	17	2.59	67.6
J-1075	26.1	6.35	63.7
J-1076	27.3	2.74	63.3
J-1077	19	1.2	66.9
J-1078	29	5.28	62.6
J-1079	36.5	0.78	59.4
J-1080	31.6	3.61	61.5
J-1081	39	2.78	58.3
J-1082	34.1	1.41	60.4
J-1083	28.8	2.56	62.7
J-1084	41.8	2.07	57.2
J-1085	41.5	0.85	57.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1086	39.3	1.11	58.2
J-1087	27	2.23	63.5
J-1088	41.6	0.73	57.2
J-1089	44	1.23	56.2
J-1090	43.4	0.63	56.5
J-1091	43	1.8	56.7
J-1092	40.2	3.82	58
J-1093	39	3.09	58.3
J-1096	27	0.05	63.6
J-1097	39	3.83	58.5
J-1098	19	0.9	67
J-1099	36.3	1.31	59.5
J-1101	36	2.1	59.7
J-1102	39	1.12	58.4
J-1103	39	3.98	58.4
J-1104	39	2.51	58.4
J-1105	37.5	3.21	59.1
J-1106	43.2	5.63	56.7
J-1107	43.1	4.48	56.7
J-1108	45.7	5.03	55.6
J-1109	42.6	4.12	56.9
J-1110	45.3	2.16	55.8
J-1111	42.1	3.48	57.2
J-1112	68	1.64	54.1
J-1113	67.3	5.17	54.4
J-1114	59	6.67	58
J-1116	65.4	2.61	55.2
J-1118	65.8	4.92	55
J-1119	63	3.38	56.2
J-1120	59.5	8.2	57.7
J-1121	61	7.83	57.1
J-1122	56.1	4.25	59.2
J-1123	68	2.31	54.2
J-1124	76.3	5.52	50.7
J-1125	74.4	1.14	51.6
J-1126	68	5.11	54.4
J-1127	63.5	2.61	56
J-1128	63.5	1.54	56
J-1129	62.2	2.67	56.6
J-1130	68	3.35	54.1
J-1131	65.8	0.14	55.5
J-1132	86	2.57	44.6

Junction Input Data
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Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1133	140	3.65	49.6
J-1134	132	6.36	53.1
J-1135	14.5	0.18	69.9
J-1136	12.2	0.31	70.8
J-1137	18.9	3.61	68
J-1138	19.1	0.6	67.9
J-1139	9	5.26	72.2
J-1140	16.9	9.02	68.8
J-1141	17.8	0.06	68.6
J-1142	37.3	1.38	60.1
J-1143	37.2	0.93	60.2
J-1144	29	4.69	63.7
J-1145	23.1	2.9	66.3
J-1146	23.7	0.26	66
J-1147	27.8	0.14	64.2
J-1148	13.9	0.48	70.2
J-1149	19	1.35	67.7
J-1151	19	3.09	67.6
J-1152	19	4.61	67.6
J-1153	19	1.42	67.6
J-1154	19	5.69	67.6
J-1155	16.5	9.96	68.7
J-1156	16.7	5.23	68.6
J-1157	19	1.25	67.6
J-1158	19	10.85	67.6
J-1159	19	1.86	67.6
J-1161	15.2	1.78	69.5
J-1162	15.7	5	69
J-1163	13.4	4.06	70
J-1164	12	3.65	70.6
J-1165	11.2	1.93	70.9
J-1166	9	0	71.9
J-1168	29	5.24	63.2
J-1169	27.5	0.68	63.9
J-1171	13.1	2.32	70.1
J-1172	16.9	3.04	68.5
J-1176	19	2.54	67.5
J-1177	18.1	16.21	66.6
J-1178	39	1.12	59.9
J-1179	9	4.51	73.1
J-1180	9	1.06	73.1
J-1181	9	0	73.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1182	9	3.02	73.1
J-1183	9	1.25	73.1
J-1184	9	2.47	73.1
J-1185	9	1.77	73.2
J-1186	9.9	1.7	72.9
J-1187	9.2	6.55	73.2
J-1188	9	5.18	73.2
J-1189	22.2	0.92	67.5
J-1190	22	2.41	67.6
J-1191	10	8.41	73
J-1192	9.8	0	73.1
J-1195	34	0.36	62.7
J-1196	28.7	0.5	65.4
J-1197	22.1	2.06	68.3
J-1199	26.4	0.6	66.5
J-1200	18.4	3.36	69.9
J-1201	17.7	18.98	70.1
J-1202	17.2	1.37	70.3
J-1204	11.7	0.51	72.4
J-1205	17.7	3.72	69.8
J-1206	26	8	66.1
J-1207	25.5	2.17	66.3
J-1209	15.7	2.37	70.8
J-1210	14.5	0	71.4
J-1211	14.9	1.95	71
J-1212	15.4	0.29	70.8
J-1213	15.3	3.03	70.8
J-1214	30.9	2.72	61.2
J-1215	31.5	3.12	60.9
J-1216	31.5	1.16	60.9
J-1217	31.3	4.72	61
J-1218	32.3	2.29	60.6
J-1219	31.6	5.31	60.9
J-1220	33.4	5.4	60.1
J-1221	32.8	2.57	60.4
J-1222	32	7.89	60.7
J-1223	32.4	2.1	60.5
J-1224	32.8	1.33	60.4
J-1225	34.9	0.5	59.5
J-1226	37.4	0.77	58.4
J-1228	35.1	0.71	59.3
J-1229	32.4	5.39	60.5

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1230	33.5	6.61	60
J-1231	34.6	8.28	59.6
J-1232	35.1	2.44	59.4
J-1233	35.2	5.53	59.3
J-1234	35.2	10.52	59.4
J-1235	38.7	44.46	57.7
J-1236	39	0	57.6
J-1238	39	0	57.6
J-1239	27.2	0	62.6
J-1240	28.8	0	61.9
J-1241	27.7	0	62.4
J-1242	42.9	1.55	55.8
J-1243	25.6	0.64	63.3
J-1244	90.4	0.64	35.2
J-1245	73.6	2.86	42.5
J-1246	58.1	1.33	49.2
J-1247	32.5	0.5	60.3
J-1248	39	0	57.5
J-1249	39	1.49	57.4
J-1250	11	0.57	69.4
J-1251	9	0.81	70.3
J-1252	68.3	0.65	44.8
J-1253	48.7	0.9	53.3
J-1254	39	2.14	57.5
J-1255	98	0	32
J-1256	90.8	0.98	35.1
J-1258	9.9	0	70
J-1259	9	0	70.3
J-1260	9	0.71	70.4
J-1261	39	3.12	57.3
J-1262	74.3	0.06	42.2
J-1263	39	1.18	57.4
J-1264	28	3.36	62.1
J-1266	13	5.46	68.2
J-1267	37.8	2.32	57.9
J-1269	45.9	4.14	55.4
J-1270	46.1	0.48	55.2
J-1271	12.3	2.23	69.9
J-1272	43.3	5.53	56.5
J-1273	9	2.54	71.1
J-1274	9	2.37	71.2
J-1275	18.2	0.25	67.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1276	12.9	0	69.9
J-1277	15.7	1.75	68.6
J-1278	18.9	2.95	67.1
J-1279	14.6	2.03	68.9
J-1280	12.9	0.3	69.6
J-1281	9.1	0.33	71.3
J-1282	10.9	1.62	70.5
J-1283	12.9	3.11	69.6
J-1284	16.1	1.46	68.5
J-1285	9	1.85	71.5
J-1287	20.3	0.12	66.7
J-1288	15.6	1.5	68.8
J-1289	19	3.94	67.3
J-1292	21	3.24	66.6
J-1296	29	3.27	63.1
J-1297	29	4.88	63.1
J-1298	29	1.95	63.1
J-1299	29	5.74	63.1
J-1300	22.4	7.13	66
J-1301	101	0	32
J-1302	54.9	0	51.9
J-1304	9.8	0.6	71.3
J-1305	19	2.64	67.4
J-1307	19	2.86	67.3
J-1308	19	3.73	67.3
J-1310	19	1.56	67.4
J-1311	12.7	0.7	70
J-1313	10.8	1.31	70.9
J-1314	19	4.51	67.3
J-1315	14	5.18	69.5
J-1316	11.6	7.93	70.5
J-1317	9	6.52	71.7
J-1318	9	2.76	71.6
J-1319	9	0.59	71.6
J-1320	9	2.98	71.6
J-1321	9	4.89	71.6
J-1322	9	0.92	71.6
J-1323	9	0.37	71.6
J-1325	9	0.91	71.6
J-1326	39	0	58.7
J-1327	9	2.25	71.6
J-1328	80.6	0.64	46.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1329	78.3	3.04	47.5
J-1330	76	2.24	48.5
J-1331	78.2	1.41	47.6
J-1332	76	1.74	48.5
J-1333	74.6	3.52	49.1
J-1334	75.9	1.17	48.6
J-1335	71.6	3.05	50.7
J-1336	66.2	0.65	53.1
J-1337	68.7	6.51	51.9
J-1338	66.6	3.03	52.9
J-1339	67.4	6.77	52.5
J-1340	68.5	4.95	52.1
J-1341	76.1	2.5	48.6
J-1342	75.8	7.51	48.7
J-1343	75.5	3.51	48.9
J-1344	70.6	5.01	51.1
J-1345	70.5	1.73	51.2
J-1346	68	4.56	52.3
J-1347	68.3	1.12	52.1
J-1348	69.7	4.23	51.5
J-1349	61.2	0	55.2
J-1350	58.9	0	56.2
J-1351	52.7	0.84	58.6
J-1352	56.7	7.87	56.9
J-1353	65.5	1.71	53.4
J-1354	63	4.08	54.4
J-1355	58.2	4.46	56.5
J-1356	61.7	0.79	53.7
J-1357	59.2	3.36	54.8
J-1358	61.1	3.56	53.9
J-1359	62.3	2.4	53.4
J-1360	53.6	5.42	58.3
J-1361	53.5	2.03	58.3
J-1362	49	0.32	58
J-1363	40.5	1.27	61.6
J-1364	49	8.24	58
J-1365	49	4.85	58
J-1366	48.4	1.37	57.8
J-1367	43.3	4.55	60
J-1368	48.3	3.32	57.8
J-1369	44.7	3.5	59.3
J-1370	48.5	3.91	57.7

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1371	43.3	3.81	59.8
J-1372	50.4	6.69	56.9
J-1374	41	5.36	60.4
J-1375	36.1	5.47	61.4
J-1376	37.2	8.04	61
J-1377	19	3.19	68.5
J-1378	29	1.55	64.2
J-1379	9	1.31	72.9
J-1380	20.8	5.68	67.7
J-1381	32.8	13.77	62.4
J-1382	21.9	1.26	67.1
J-1383	29	0.97	64.3
J-1384	29	1.37	64.3
J-1385	23.6	0.89	66.6
J-1386	29	1.39	64.3
J-1387	20.6	5.15	67.9
J-1388	11.3	0.74	71.9
J-1389	29	2.08	64.3
J-1391	19	0.03	68.6
J-1392	20.4	3.74	67.9
J-1393	19.3	5.3	68.4
J-1394	21.3	3.15	67.5
J-1395	29	1.64	63.7
J-1396	29	1.72	63.7
J-1398	21	4.55	67.2
J-1399	24.8	1.33	65.2
J-1400	19	1.96	67.7
J-1401	27.2	3.31	64.2
J-1402	29	1.13	63.4
J-1403	19.5	4.28	67.5
J-1404	29	2.62	63.4
J-1405	17.5	2.66	68.3
J-1406	29	1.1	63.3
J-1407	12.1	0.62	70.6
J-1408	29	3.58	63.2
J-1409	14.7	1.41	69.4
J-1410	27.4	0.87	63.9
J-1411	21.7	0.54	66.3
J-1412	27.9	3.43	63.6
J-1413	11.4	2.07	70.8
J-1414	12.7	2.55	70.2
J-1416	21.3	0.66	66.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1417	12.5	1.33	70.3
J-1418	9	0.87	71.7
J-1420	17.5	0.31	68.1
J-1421	14	2.07	69.5
J-1422	9	0.37	71.7
J-1423	9	0.11	71.6
J-1424	9	2.49	71.7
J-1425	9	2.2	71.7
J-1426	9	2.33	71.7
J-1427	9	1.12	71.7
J-1428	9	1.84	71.7
J-1429	9	1.01	71.6
J-1430	9	3.66	71.7
J-1431	9	1.84	71.7
J-1432	10.2	1.08	71.2
J-1433	9	0.76	71.7
J-1434	9	1.75	71.7
J-1435	9	0.98	71.7
J-1436	9	0.26	71.8
J-1437	12.6	2.17	70.2
J-1438	15.1	2.5	69.2
J-1439	19	3.54	67.5
J-1440	9	2.97	71.8
J-1441	9	1.91	71.8
J-1442	9	3.28	71.8
J-1443	19	4.77	67.5
J-1444	9	5.84	71.9
J-1445	19	10.34	67.5
J-1446	12	1.33	70.6
J-1447	14.1	5.39	69.8
J-1448	24.8	4.21	65.3
J-1449	24.2	0.82	65.6
J-1450	26.2	15.38	64.8
J-1451	29.1	6.36	63.7
J-1452	12.4	1.29	70.9
J-1453	39.8	3.36	61.1
J-1454	39	2.87	59.9
J-1455	41.8	3.27	59.9
J-1457	40.9	6.16	60.3
J-1458	39	2.35	63.4
J-1459	37.1	2.07	65.1
J-1460	32.2	4.23	67.2

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Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1461	27	0.81	69.5
J-1463	35.7	1.03	65.7
J-1464	45.7	2.89	61.4
J-1465	44.7	1.74	61.8
J-1466	49	2.11	60
J-1467	44	0.22	62.1
J-1468	48.4	3.79	60.2
J-1469	45.7	5.31	61.4
J-1470	39.3	1.55	64.1
J-1471	49	0	60
J-1472	49	4.52	60
J-1473	49	52.56	60.1
J-1474	39	0.36	59.3
J-1475	35.4	4.56	60.8
J-1476	21	2.69	67
J-1477	13	1.54	70.2
J-1478	31	4.91	62.4
J-1479	29.9	3.78	62.8
J-1480	39	3.89	59
J-1481	36.6	1.41	60
J-1482	38.1	2.48	59.5
J-1484	35.6	0.35	60.5
J-1485	33.4	3.95	61.4
J-1486	29	2.09	63.2
J-1487	31.1	1.72	62.3
J-1488	29	3.3	63.2
J-1489	29	6.79	63.2
J-1490	29	4.68	63.2
J-1491	29	1.44	63.1
J-1492	23.7	0.02	65.4
J-1493	24.1	3.64	65.3
J-1494	29	4.31	63.2
J-1495	29	0.43	63.2
J-1496	19	2.36	67.1
J-1497	16.7	4.13	68.1
J-1498	29	2.7	62.7
J-1499	31.8	4.94	61.5
J-1500	34.1	1.2	60.5
J-1501	25.6	4.54	64.2
J-1502	33.9	4.91	60.6
J-1503	28.4	2.16	63
J-1504	18.9	4	67.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1505	25.8	2.43	64.1
J-1506	47.7	2.9	54.6
J-1507	29	1.24	62.8
J-1508	37.5	1.57	59.1
J-1510	12.8	3.07	69.7
J-1511	10.7	2.53	70.6
J-1512	21.3	2.71	66.1
J-1514	23.9	4.45	64.9
J-1515	28.5	1.38	62.9
J-1518	19	3.96	67
J-1520	19	2.66	67
J-1521	15.9	2.66	68.4
J-1522	20	7.19	66.6
J-1523	18	1.08	67.5
J-1524	9	4.39	71.4
J-1525	18.7	4.72	67.2
J-1526	9	8.74	71.4
J-1527	9	1.75	71.4
J-1528	9	1.11	71.4
J-1529	9	2.73	71.4
J-1530	9	0	71.5
J-1531	9	1.41	71.5
J-1532	9	2.18	71.4
J-1533	9	1.56	71.4
J-1534	9	4.56	71.4
J-1535	9	0.91	71.4
J-1536	9	0.94	71.6
J-1537	23.2	2.38	65
J-1538	29	0.79	62.5
J-1539	9	4.93	71.8
J-1540	9	1.96	71.8
J-1541	10.2	4.34	71.3
J-1542	9	5.98	71.8
J-1543	9	4.23	71.8
J-1544	9	2.23	71.8
J-1545	12.7	3.01	69.8
J-1546	18	2.76	67.5
J-1547	37.6	3.72	58.9
J-1548	29	2.69	62.6
J-1549	23	0.99	65.1
J-1550	21	2.84	66
J-1551	29	2.73	62.5

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1552	21.5	1.12	65.8
J-1553	24.6	2.03	64.5
J-1555	25.7	4.82	64
J-1557	24.6	2.2	64.4
J-1558	21.3	1.18	65.9
J-1559	29	0.78	62.5
J-1560	21.9	1.31	65.6
J-1561	19.6	1.04	66.6
J-1562	19	0.96	66.8
J-1563	10.1	0.5	70.7
J-1564	19	1.83	66.8
J-1565	19	1.73	66.8
J-1566	17.5	1.19	67.4
J-1567	15.3	3.03	68.4
J-1568	19	0.52	66.8
J-1569	19	1.99	66.8
J-1570	16.6	2.63	67.9
J-1571	19	1.57	66.8
J-1572	18.6	0.81	67
J-1573	13	1.75	69.4
J-1574	17.2	0.9	67.6
J-1576	22.5	1.99	65.3
J-1577	13.4	1.06	69.3
J-1578	25.3	2.86	64.1
J-1579	18.4	1.17	67.1
J-1580	29	1.95	62.5
J-1581	21.5	0.74	65.8
J-1583	24.5	1.18	64.5
J-1584	21.6	2.08	65.7
J-1585	29	1.24	62.5
J-1586	19	1.49	66.8
J-1588	11.1	1.4	70.2
J-1589	15.9	3.4	68.1
J-1590	11.6	2.12	70
J-1591	9	0.85	71.1
J-1592	12.7	0.93	69.5
J-1593	11.4	2.86	70.1
J-1594	19	2.24	66.8
J-1595	19	2.72	66.8
J-1597	19	0.67	66.8
J-1598	18	3.7	67.2
J-1599	9	5.34	71.1

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Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1600	9	2.38	71.1
J-1601	12.5	0.57	69.6
J-1602	9.2	1.98	71
J-1603	9.3	1.94	71
J-1604	10.4	0.7	70.5
J-1605	11.2	3.88	70.1
J-1606	19	0.84	66.8
J-1607	11.7	1.2	69.9
J-1609	16.2	1.22	68
J-1610	19	1.82	66.8
J-1611	11.9	0.9	69.9
J-1612	9	0.26	71.1
J-1613	19	1.81	66.8
J-1614	19	0.47	66.8
J-1615	19	2.24	66.8
J-1616	33.4	1.93	60.7
J-1617	36.4	3.4	59.4
J-1618	27.2	2.05	63.3
J-1619	19	1.65	66.8
J-1622	16	0.74	68.1
J-1623	9	1.31	71.1
J-1625	36.4	0.08	59.4
J-1626	30	0	62.1
J-1627	29	0.31	62.7
J-1628	22.7	0.71	65.5
J-1629	15.8	2.5	68.5
J-1631	14.8	1.57	68.9
J-1632	14.6	2.88	69.3
J-1633	19	0.17	67.4
J-1634	27.6	1.52	63.7
J-1635	29	0	63.1
J-1636	12.6	2.25	70.1
J-1637	19	0	67.4
J-1638	17	8.38	68.2
J-1639	19	9.71	67.3
J-1640	19	4.81	67.3
J-1641	13.6	6.92	69.7
J-1642	12.1	6.83	70.3
J-1643	17.6	2.46	67.9
J-1644	9	2.88	71.7
J-1645	12.2	3.98	70.3
J-1646	15	2.82	69.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1647	23.2	0.76	65.6
J-1648	10.3	1.62	71.2
J-1650	18.5	0	67.7
J-1651	13.5	1.62	69.9
J-1652	9.9	0.84	71.4
J-1653	29	1.4	63.5
J-1654	19	5.03	67.8
J-1655	29	66.44	63.4
J-1656	20.1	3.91	67.3
J-1657	27.3	2.11	64.2
J-1658	23.4	0.23	65.8
J-1659	19.9	2.11	67.3
J-1660	25.2	0.95	65.1
J-1661	18.3	51.72	68
J-1662	19	5.55	67.7
J-1663	14	6.12	69.8
J-1664	19	5.42	67.9
J-1665	29	2.79	63.6
J-1666	23.8	6.98	65.3
J-1667	21.9	3.6	66.1
J-1668	38.4	0.77	59.8
J-1669	32.5	3.98	62.4
J-1670	29	1.15	62.7
J-1671	29	3.32	62.7
J-1672	31.4	2.65	61.7
J-1673	33	7.39	61
J-1674	30	1.58	62.3
J-1675	29	1.06	62.7
J-1676	29	2.65	62.7
J-1677	29	1.52	63.2
J-1678	29	6.38	63.2
J-1679	20.3	5.28	67.4
J-1680	29	100.26	63.3
J-1681	16.6	2.51	69
J-1682	29	0.9	63.6
J-1683	26.6	0.83	64.7
J-1684	29	0.31	63.6
J-1685	29	1.3	63.7
J-1686	29	0.47	63.7
J-1687	19	1.97	67.5
J-1688	19	2.15	67.5
J-1689	10	1.77	71.5

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1690	10.4	7.02	71.3
J-1691	9	0.83	71.8
J-1692	9	2.69	71.7
J-1693	9	0.6	71.7
J-1694	9	0.06	71.7
J-1695	9	6.42	71.7
J-1696	9	6.57	71.7
J-1697	9	1.46	71.7
J-1698	9	1.97	71.7
J-1699	15.2	0.47	69
J-1700	11.5	1.01	70.6
J-1701	19	1.28	67.4
J-1702	9	0.48	71.7
J-1703	19.7	1.91	67.1
J-1704	11.2	1.33	70.8
J-1705	29	1.05	63.2
J-1706	21.9	3.69	66.3
J-1707	25.2	0	65.1
J-1708	9	0	72.1
J-1709	29	2.15	63.3
J-1710	29	0.92	63.3
J-1711	29	2.1	63.3
J-1712	29	1.67	63.3
J-1713	29	1.34	63.3
J-1714	29	0.3	63.5
J-1715	29	9.65	63.5
J-1716	29	1.78	63.4
J-1717	15	0.73	69.4
J-1718	27.8	3.15	63.6
J-1719	29	1.03	63.1
J-1720	29	2.49	63.1
J-1721	26.6	2.55	64.1
J-1723	9	1.56	71
J-1724	9	8.59	71
J-1725	13.1	1.41	69.4
J-1726	10.1	1.53	70.6
J-1729	40.3	3.04	63.4
J-1730	20.9	0.13	72.1
J-1731	39.2	2.2	61.4
J-1732	41.4	2.82	60.5
J-1733	22.5	0.78	71.4
J-1734	39	2.08	64.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1735	34.5	0.79	66.3
J-1736	45	1.37	61.8
J-1737	49	1.83	60
J-1738	30.6	8.3	68
J-1739	41.7	1.37	63.2
J-1740	59	0.31	56
J-1741	45	0	62
J-1742	25	0.11	70.7
J-1743	24	0	71.1
J-1744	56.9	0.25	57
J-1745	59	4.13	56.1
J-1746	59.6	3.72	55.9
J-1747	56	2.48	57.5
J-1748	59.6	3.42	55.9
J-1749	61.1	8.09	55.2
J-1750	55.9	0.95	57.5
J-1751	64.1	1.74	54
J-1752	72.8	2.72	50.4
J-1753	73.3	1.62	50.3
J-1754	77.5	4.56	48.6
J-1755	79.3	3.02	47.8
J-1756	87.6	2.97	43.9
J-1757	85.4	0.83	44.8
J-1758	90.6	1.19	42.6
J-1759	74.1	1.23	49.7
J-1760	74.2	1.13	49.7
J-1761	70.3	1.04	51.4
J-1763	75.4	0.62	49.1
J-1764	80	1.14	47.1
J-1765	84.6	2.35	45.2
J-1766	82	4.06	46.3
J-1767	84.2	4.47	45.3
J-1768	87	2.22	44.1
J-1769	91.9	0.64	42
J-1770	94.5	2.98	40.9
J-1771	90.5	1.24	42.6
J-1772	74	1.99	49.7
J-1774	95.9	5.31	40.3
J-1775	97.1	4.13	39.7
J-1776	98	3.39	39.4
J-1777	98.1	3.26	39.3
J-1778	88.7	6.4	43.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1779	95.5	3.04	40.4
J-1780	81.2	1.34	46.6
J-1781	73	2.34	50.2
J-1782	83	2.43	45.8
J-1783	81	2.56	46.7
J-1784	85.9	3.45	44.6
J-1785	106	3.59	35.9
J-1786	103.7	2.33	36.9
J-1787	146	5.09	47
J-1788	133.4	4.22	52.4
J-1789	146.2	6.48	46.9
J-1790	127.4	8.28	55
J-1791	114	17.32	60.8
J-1792	108	4.8	63.4
J-1793	116.2	6.55	59.9
J-1794	122	9.56	57.3
J-1795	152	5.55	44.4
J-1796	156	9.54	42.6
J-1797	174	0.33	34.8
J-1798	96.2	3	40.1
J-1799	91.9	1.32	42
J-1800	91	2.32	42.4
J-1801	87.9	4.49	43.7
J-1802	93.8	2.7	41.2
J-1803	92.7	3.06	41.7
J-1804	69.6	1.75	51.6
J-1805	70.8	4.37	51.1
J-1806	71.8	3.13	50.7
J-1807	71.3	2.86	50.9
J-1808	68	0.98	52.3
J-1809	81.7	0.09	46.5
J-1810	78.6	0.49	47.8
J-1811	82.2	3	46.2
J-1812	87.2	0.81	44.1
J-1813	59	0.39	56.2
J-1814	53.8	3.27	58.5
J-1815	59	1.59	56
J-1816	59	0.54	56
J-1817	59	0.69	56.2
J-1818	38.9	1.78	65.8
J-1819	57.8	2.08	53.9
J-1820	59	2.96	53.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1821	54.7	1.07	53.3
J-1822	59	0	51.4
J-1823	59	0.3	51.4
J-1824	56.3	0.57	52.6
J-1825	29	0.14	62.5
J-1826	31.5	2.81	62.3
J-1827	43	1	57
J-1828	15	2.04	67.9
J-1829	6.5	5.68	71.5
J-1830	5	0	72.6
J-1831	5	0.12	72.6
J-1832	4	1.19	73.8
J-1833	8	1.18	72.1
J-1834	19	7.4	67.5
J-1835	13	8.42	70.1
J-1836	24	4.8	65.5
J-1837	22	5.8	66.2
J-1838	21	3.12	66.5
J-1840	10.3	2.76	71.1
J-1841	39	1.61	58.2
J-1842	16	1.4	68.1
J-1843	5	1.36	72.8
J-1845	28	0.69	62.9
J-1846	45	0.98	61.7
J-1847	30	3.11	68.2
J-1848	61	0.39	57
J-1849	61	2.27	57.1
J-1850	86	3.15	46.9
J-1851	87	2.53	46.4
J-1853	138	0	50.4
J-1854	134	0	52.2
J-1855	46	0	56.5
J-1856	41.2	0.28	58.7
J-1857	36	2.12	61.8
J-1858	19	0.75	69.7
J-1859	21	0.74	68.8
J-1860	29	0	66.2
J-1861	32	2.03	61.5
J-1862	166	7.75	38.3
J-1863	164	9.54	39.2
J-1864	156	15.37	42.7
J-1865	142	7.56	48.7

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1867	168	10.64	37.5
J-1868	164	9.73	39.2
J-1869	173	4.78	35.3
J-1870	172	3.29	35.7
J-1871	173	2.7	35.3
J-1874	114	8.57	60.8
J-1875	102	13.05	66
J-1877	92	0	70.6
J-1878	84	0.8	43.1
J-1879	79.6	0	44.8
J-1880	130	1.62	22.5
J-1881	132	4.97	21.6
J-1882	30	0.14	62.7
J-1883	-21	1.83	90.8
J-1885	47.1	3.49	58.7
J-1886	38.5	3.29	59.5
J-1887	29	5.59	63
J-1889	37.1	0.63	59.8
J-1890	33.5	2.67	61.4
J-1891	29	1.28	63.2
J-1892	29	0	63.1
J-1893	25.8	2.19	64.5
J-1894	22.5	1.36	66
J-1895	29	0	63.1
J-1896	29	2.26	63.1
J-1897	29	0.2	63.1
J-1898	19.9	7.31	67.1
J-1899	27.5	0.22	63.8
J-1900	28.1	1.09	63.3
J-1901	15.4	4.44	68.8
J-1902	29	0	63
J-1903	27.6	0	63.6
J-1904	26.4	2.76	64.1
J-1905	25.1	1.29	64.6
J-1906	19	0.81	67.4
J-1907	19	0.53	67.4
J-1908	19	0.52	67.4
J-1909	26	0.65	64.4
J-1910	21.9	1.15	66.1
J-1911	23.3	2.37	65.5
J-1912	19	1.22	67.4
J-1913	21.2	0.79	66.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1914	19	9.55	67.3
J-1915	19	1.94	67.3
J-1916	19.1	0.66	67.3
J-1918	19.4	0.29	67.2
J-1919	22	1.33	66.1
J-1920	19	1.46	67.3
J-1921	9.7	3.17	71.4
J-1922	22.5	1.57	65.8
J-1923	15.6	0.53	68.8
J-1924	18.8	2.06	67.4
J-1925	19	6.23	67.3
J-1926	17.3	0.2	68.1
J-1927	20.9	1.28	66.5
J-1929	9.6	3.84	71.4
J-1930	17.5	1.9	68
J-1931	12.6	2.37	70.1
J-1932	13.5	0	69.7
J-1933	13.4	0.04	69.7
J-1934	13.5	0	69.7
J-1936	9	0.38	71.7
J-1937	9	0.83	71.7
J-1938	9	7.54	70.7
J-1939	9	0.28	71.7
J-1940	9	4.25	71.6
J-1941	10.2	2.18	71.1
J-1942	9	2.36	71.7
J-1943	9	4.14	71.7
J-1944	32.2	3.95	61.2
J-1945	28	0.7	63
J-1946	24.3	2.2	64.5
J-1947	29	0.03	62.5
J-1948	22	0.64	65.5
J-1949	29	0.37	62.5
J-1950	19.6	1.55	66.6
J-1951	29	0.96	62.5
J-1952	29.7	1.09	62.3
J-1953	36.1	0	59.5
J-1954	37.7	0	58.8
J-1955	39	0.34	58.3
J-1956	16.2	0.44	68.1
J-1957	39	0.52	58.2
J-1958	35.4	1.23	61.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-1959	29.9	8.73	63.5
J-1960	34.5	1.32	61.6
J-1961	39	0	59.6
J-1962	9	82.14	72.6
J-1964	35.6	3.27	61.2
J-1965	37.5	2.24	60.2
J-1966	38.3	0.08	59.9
J-1967	31.5	1.67	62.8
J-1968	30.1	3.82	63.7
J-1969	32.3	2.85	62.7
J-1970	31.9	4.99	62.1
J-1971	26.1	1.59	65.4
J-1972	28.2	0.63	64.9
J-1976	29	0	66.2
J-1977	39.2	1.25	60.8
J-1978	39	2.84	60.9
J-1979	42.6	4.2	59.9
J-1980	41.8	5.84	60.3
J-1981	38.9	4.39	61.7
J-1982	44.9	2.66	59.8
J-1983	49	0.63	58
J-1984	44	4.48	60.2
J-1985	49	1.3	58
J-1986	49	2.47	58
J-1987	48.4	0.69	58.3
J-1988	49	2.6	58
J-1990	9	1.87	74.4
J-1991	40.2	5.21	60.9
J-1992	29	0	66.2
J-1994	29	2.43	66.2
J-1995	26.9	2.01	67.2
J-1996	48.2	1.09	58
J-1997	45.5	0.75	59.3
J-1998	44.5	3.47	59.7
J-1999	30.2	1.67	65.9
J-2000	39.2	0.95	62
J-2001	53.8	0	55.8
J-2003	59	2.07	53.5
J-2004	59	0.8	53.5
J-2005	56.3	2.87	54.7
J-2006	59	0.67	53.5
J-2007	53.8	0.41	55.7

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2008	61.2	0.49	52.6
J-2009	51	0	57
J-2010	71	0.23	47.3
J-2011	79.7	1.14	43.6
J-2012	67	1.77	48.9
J-2013	67	0.51	48.8
J-2014	116	1.74	27.7
J-2015	145.8	0.54	15.9
J-2016	134.3	0.98	21
J-2017	109.2	2.16	31.8
J-2025	154.4	5.08	12.4
J-2026	134.1	0	21.2
J-2027	59	0	53.6
J-2028	63	0	51.9
J-2029	44.6	6.63	59.8
J-2030	53.4	0	56
J-2031	65.5	0	50.8
J-2032	64	0	54.2
J-2033	47.8	0.17	61.3
J-2034	56.1	1.8	57.3
J-2035	63.9	2.54	53.9
J-2036	68	2.77	52.1
J-2037	80.2	5.17	45.5
J-2038	77.6	1.33	46.6
J-2039	69.7	0.72	50
J-2040	58.4	1.29	55.6
J-2041	71.1	1.09	50.1
J-2042	73.5	3.79	47.4
J-2043	54.1	0.79	55.8
J-2044	69.4	0.55	49.2
J-2045	53.2	0	56.2
J-2046	65.1	2.53	51
J-2047	57.2	3.02	54.4
J-2048	48.3	1.22	59.4
J-2049	49	2.53	59.1
J-2050	53.5	0.6	58.6
J-2051	52.9	4.99	58.6
J-2052	48.4	1.44	60.5
J-2053	59	1.26	55.8
J-2054	41.5	1.4	60.8
J-2055	52.6	4.02	56
J-2056	50.5	0.32	56.9

Junction Input Data
Capital Efficiency Plan™
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Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2057	54	2.74	58.3
J-2059	66.3	1.2	53
J-2060	59	0	56.2
J-2061	59	0.57	56.2
J-2062	59	0	56.2
J-2063	54.6	0	58.1
J-2064	55.9	0	57.5
J-2065	53.6	2.11	58.5
J-2066	54.8	2.11	58
J-2067	54.5	1.98	58.1
J-2068	66.1	2.51	53.1
J-2069	59	5.58	56
J-2070	67.7	1.22	52.4
J-2071	68.3	1.37	52.1
J-2072	52.8	0.46	58.8
J-2073	53.2	1.78	58.7
J-2074	39.7	0.51	64.4
J-2075	43.2	1.1	62.9
J-2076	35.5	1.37	66.3
J-2077	51.6	1.04	59.3
J-2078	34.8	1.37	66.7
J-2079	29	0	69.2
J-2080	57.7	1.71	56.8
J-2081	59	1.79	56.2
J-2083	60.8	2.27	55.4
J-2084	54.4	0.69	58.2
J-2085	39.8	2.97	64.5
J-2086	40.7	5.84	64.2
J-2087	41	0.93	64
J-2088	38.5	1.31	65.1
J-2089	48	1.2	61
J-2090	32.5	2.28	67.7
J-2091	64.7	0	53.8
J-2092	67.3	0	52.7
J-2093	67.5	2.02	52.6
J-2094	66.5	0	53.1
J-2096	66.2	0	53.2
J-2097	57.8	2.2	56.8
J-2098	61.9	0.7	55
J-2099	79.2	0.25	47.9
J-2100	68	2	52.7
J-2101	53.8	0	60.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2102	49.6	0	62.2
J-2103	78	0.33	50
J-2104	78	2.38	50.2
J-2105	81.9	52.23	48.6
J-2106	81.1	3.94	48.9
J-2107	80	0.43	49.7
J-2108	88.9	6.96	45.8
J-2109	69.3	0	55.3
J-2110	71.6	0	54.3
J-2111	69	-720	55.5
J-2112	71.3	0	54.4
J-2113	65.3	3.73	55.8
J-2114	64.4	2.83	56.2
J-2115	74.4	3.1	51.8
J-2116	75.2	5.94	51.5
J-2117	78	1.37	50.2
J-2118	78	5.19	50.2
J-2119	69.8	0	53.8
J-2120	52.1	0	61.4
J-2121	77.9	0.89	50.2
J-2122	78	0.31	50.2
J-2123	78.7	1.8	49.9
J-2124	79.8	1.65	49.4
J-2126	81.2	1.64	48.8
J-2127	61.2	2.92	55.4
J-2128	40.1	2.08	64.5
J-2129	130	0	28.1
J-2130	130.9	0.37	27.7
J-2131	108.1	1.97	36
J-2132	99.4	0	39.8
J-2133	128.8	1.96	55.6
J-2134	137	0.21	52.1
J-2135	133.7	0	53.5
J-2136	134.4	1.41	53.2
J-2137	138.6	0	51.4
J-2138	153.7	0	44.8
J-2139	148.3	0	47.2
J-2140	156	0	43.8
J-2141	157	0.37	43.4
J-2142	129.1	0	55.2
J-2143	140	0	50.8
J-2144	90.8	0.17	71.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2145	85.6	0.12	73.4
J-2146	91.7	0	70.7
J-2147	91.9	8.45	70.7
J-2148	91.5	0	70.8
J-2149	91	0	71.1
J-2150	50.2	1	60.1
J-2151	45.6	2.66	62.1
J-2152	37.5	1.9	65.6
J-2153	69	3.51	51.9
J-2154	50.1	1.7	60.2
J-2155	71.6	0.29	50.8
J-2156	60.9	0.36	55.5
J-2157	84.6	1.47	45.2
J-2158	41.7	0.13	63.7
J-2159	41.4	0.7	63.9
J-2160	89.5	0	43
J-2161	88	0	43.7
J-2162	99.3	0.1	38.8
J-2163	98.3	0.67	39.2
J-2164	102	0	37.6
J-2165	103	0	37.2
J-2166	87.2	6.55	44
J-2167	83.3	4.3	45.7
J-2168	85.5	1.36	44.8
J-2169	77.2	1.34	48.4
J-2170	46.9	0.6	61.5
J-2171	70.2	2.06	51.4
J-2172	80	1.75	47.2
J-2173	49.6	1.34	60.3
J-2174	23.3	0	71.7
J-2175	88	0.22	43.7
J-2176	4.2	0.56	108.3
J-2177	88	2.38	72.1
J-2178	92.2	0.83	41.9
J-2179	88	0	43.7
J-2180	70	1.07	79.8
J-2181	83.9	0.71	73.8
J-2182	173.2	3.72	35.2
J-2183	122.6	3.61	57.1
J-2185	157.7	0	41.9
J-2186	151.5	0	44.6
J-2187	154.4	5.31	43.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2188	144.1	0	47.8
J-2189	125.8	0	55.7
J-2190	119.5	1.19	58.4
J-2191	123.5	0	56.7
J-2192	127	0	55.2
J-2193	130.5	0	53.7
J-2194	153.4	1.74	11.5
J-2195	122	0.51	25.1
J-2196	111	0	29.8
J-2197	19.6	2.19	68
J-2198	9	0.14	72.6
J-2199	14.9	2.71	71.4
J-2200	16.1	0.7	70.9
J-2201	17.4	2.15	70.2
J-2202	9	0.91	73.8
J-2203	9.1	0.48	73.8
J-2204	17.3	2.34	70.2
J-2205	9	1.41	73.2
J-2206	10	0	73.5
J-2207	9	0	73.9
J-2208	19.9	0.44	69.2
J-2209	12.5	5.26	72.4
J-2210	19	5.43	68.3
J-2211	25.2	4.05	67
J-2212	18.6	5.83	67.1
J-2213	14	4.2	71.8
J-2214	27	1.05	66.2
J-2215	67.7	0.26	48.6
J-2216	10	0.62	73.6
J-2217	19	1.29	69.5
J-2218	13.8	0.08	71.8
J-2219	17.8	1.57	70.1
J-2220	10.4	0.17	73.3
J-2221	9	1.1	73.8
J-2222	9	1.89	73.8
J-2223	9	0.48	73.8
J-2224	11.7	2.56	72.6
J-2225	19	4.63	69.5
J-2226	14.1	1.12	71.6
J-2227	9	0.44	73.8
J-2229	14.6	3.13	71.3
J-2230	22.6	0.17	67.9

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2231	19	1.11	69.5
J-2232	19	0.79	69.5
J-2233	19	0	69.5
J-2234	19	2.18	69.5
J-2235	19	0.46	69.5
J-2236	27	0.49	66
J-2237	27	3.63	66
J-2238	29	0.47	65
J-2239	26.8	1.01	66
J-2240	9	3.09	73.7
J-2241	32.3	2.81	63.6
J-2242	9	2.39	73.7
J-2243	29.2	1.46	64.9
J-2244	19	4.07	69.3
J-2245	27.8	1.03	65.5
J-2246	19	0.76	69.3
J-2247	24.2	3.69	66.6
J-2248	13.9	1.35	71.5
J-2249	13.3	1.09	71.1
J-2250	10.4	0.11	72.3
J-2251	20.9	1.16	68.4
J-2252	15.2	3.83	69.8
J-2253	14.3	0.51	71.3
J-2254	23.5	0.3	67.3
J-2255	22.8	0.04	67.6
J-2256	59	1.4	51.9
J-2257	59	1.17	51.9
J-2258	59	0.87	51.9
J-2259	46.8	4.13	57.1
J-2261	68	0.26	48
J-2262	59	0.55	51.9
J-2263	59	0.33	51.9
J-2264	48.8	0.34	56.3
J-2265	25.4	6.08	66.4
J-2266	16.7	0	70.1
J-2267	16.1	3.29	70.4
J-2268	18.9	0.84	69.2
J-2269	20.9	0.68	68.3
J-2270	20.2	1	69
J-2271	19	0.88	69.5
J-2272	24.1	0.24	67.3
J-2273	19.3	0.12	69.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2274	18.4	1.8	69.7
J-2275	19	1.59	69.5
J-2276	20.4	2.15	68.8
J-2277	18.5	3.37	69.6
J-2278	25.6	1.13	66.9
J-2279	17.6	3.7	70.3
J-2280	27.1	0.38	66.2
J-2281	15.6	1.9	71.2
J-2282	25.8	3.02	66.2
J-2283	36.7	1.92	61.5
J-2284	25.8	3.42	66.2
J-2285	39	1.13	60.5
J-2286	27.2	2.48	65.7
J-2287	32.1	4.48	63.5
J-2288	19	2.81	69.2
J-2289	18.8	0.92	69.2
J-2290	19	0.57	69.2
J-2291	19	1.11	69.2
J-2292	21.6	2.42	68
J-2293	13.3	0.84	71.6
J-2294	23.7	0.53	67.1
J-2295	29	0.65	64.8
J-2296	20.8	2.77	68.4
J-2297	34.6	1.38	62.4
J-2298	42.3	1.69	59.1
J-2299	19.7	0.96	68.7
J-2300	30.3	0.36	64.1
J-2301	36.9	1.49	61.2
J-2302	33.4	3.36	62.7
J-2303	29	3.35	64.6
J-2304	22.2	0.89	67.6
J-2305	29.4	2.1	64.4
J-2306	17.6	1.33	69.5
J-2307	34.5	3.78	62.2
J-2308	33.4	2.42	62.6
J-2309	59	4.64	51.6
J-2310	56.8	3.54	52.5
J-2311	37.4	2.08	60.9
J-2312	10.1	0	72.9
J-2313	14.1	0	71.2
J-2314	9	0	73.4
J-2315	25	3.8	66.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2316	47.5	2.85	56.6
J-2317	36.8	4.25	61.2
J-2318	42.8	0.73	58.6
J-2319	54.5	2.64	53.5
J-2320	52.9	4.23	54.2
J-2321	28.7	0.82	64.7
J-2322	48.5	1.2	56.1
J-2323	44.9	1.12	57.6
J-2324	52.7	0.03	54.2
J-2325	42.2	1.43	58.7
J-2326	9	1.76	73.1
J-2328	21.3	1.36	67.5
J-2329	58	6.27	51.7
J-2330	32.1	0.69	62.9
J-2331	40.1	0	59.4
J-2332	39.7	0	59.6
J-2333	38.6	0.24	60.1
J-2334	34.4	1.55	61.8
J-2335	35.4	2.57	60.8
J-2336	66.7	1.73	47.9
J-2337	21.9	0.57	67
J-2338	19	0.71	68.2
J-2339	19	4.19	68.2
J-2340	19	2.57	68.2
J-2341	22.3	0.62	66.7
J-2342	19	1.47	68.2
J-2343	20.2	0.68	67.7
J-2344	19	0.87	68.2
J-2345	19	0.13	68.2
J-2346	17.2	0.37	68.9
J-2347	21.1	0.92	67.2
J-2348	19	0.88	68.1
J-2349	19	1.2	68.1
J-2350	21.3	0.65	67.2
J-2351	19	0	68.1
J-2352	19	1.19	68.1
J-2353	15.2	3.13	69.7
J-2354	36.1	1.19	60.7
J-2355	18.7	4.47	68.5
J-2356	26.9	4.36	65
J-2357	11.8	3.01	71.5
J-2358	12	1.74	71.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2359	11	8.14	71.8
J-2360	14.4	2.89	70.4
J-2361	18.2	3.65	68.7
J-2362	17.5	2.78	69
J-2363	13.3	7.06	70.8
J-2364	17.2	1.94	69.1
J-2365	19.6	1.95	68.1
J-2366	26.6	0.49	64.8
J-2367	23.5	1.49	66.1
J-2368	18	0.73	68.4
J-2369	23.6	0.66	66.1
J-2370	18	0	68.5
J-2371	21.3	1.35	67
J-2372	11.4	2.65	71.3
J-2373	12.1	0.28	71
J-2374	17	1.36	68.6
J-2375	9.2	1.23	72
J-2376	9	0.74	72
J-2377	17.5	3.37	68.3
J-2378	9.7	1.28	71.6
J-2379	9.2	0.96	72
J-2380	9	0.29	72.1
J-2382	9	0.35	72.1
J-2383	15.7	0.52	69.2
J-2384	9	2.03	72.1
J-2385	9	0.49	72.1
J-2386	16.2	4.22	68.9
J-2387	9	0.53	72.1
J-2388	15.4	0.57	69.3
J-2389	9	0.13	72.1
J-2390	9	0.12	72.1
J-2391	14.9	2.14	69.6
J-2392	9	0.86	72.2
J-2393	21.4	2.08	67
J-2394	18.2	0.36	68.4
J-2395	9.5	0	72.1
J-2396	27.1	2.12	64.5
J-2397	35.5	0.65	60.9
J-2398	29.2	0.9	63.6
J-2399	21.3	0.68	67
J-2400	21.3	0	67
J-2401	12.9	0.64	70.6

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2402	13	0.16	70.6
J-2403	24.6	1.4	65.2
J-2404	23.6	0.76	66.1
J-2405	17.3	0.64	68.8
J-2406	32.4	0.29	62.2
J-2407	16.6	0.37	69
J-2408	32.2	0.43	62.3
J-2409	22.9	1.05	66.3
J-2410	27.9	0.7	64.2
J-2411	27.6	1.16	64.3
J-2412	22.7	0.1	66.4
J-2413	15.5	0.94	69.5
J-2414	9	0.33	72.3
J-2415	9	1.24	72.3
J-2416	14.3	0.68	70
J-2417	14.3	0.25	70
J-2418	24.6	1.97	65.6
J-2419	28.3	1.77	64.1
J-2420	39	3.68	59.3
J-2421	15.7	0.78	69.5
J-2422	19	0.71	68.1
J-2423	14.8	2.16	69.9
J-2424	15	0.9	69.8
J-2425	15.1	0.23	69.8
J-2426	15	0.31	69.8
J-2427	14	0	70.1
J-2429	9	0	72.2
J-2430	15.7	3.93	69.4
J-2431	18.9	0.06	67.9
J-2432	19.1	0.62	67.9
J-2433	19.7	3.17	67.6
J-2434	19.1	1.41	67.9
J-2435	25.6	1.16	65.1
J-2437	9	0.58	72.2
J-2438	12.9	0.05	70.6
J-2439	12.9	4.4	70.6
J-2440	12.5	4.98	70.7
J-2441	13.2	2.84	70.4
J-2442	13.2	0.32	70.4
J-2443	19	1.05	67.9
J-2444	19	0.88	67.6
J-2445	15.4	0.66	69.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2446	8.7	0	72.2
J-2447	24.5	1.96	65.2
J-2448	21.8	4.83	61.7
J-2449	26.4	1.93	64.4
J-2450	21.1	2.16	66.6
J-2451	22.9	0.93	65.9
J-2452	19.9	2.42	67
J-2453	19.2	1.31	67.5
J-2454	20.5	3.13	66.8
J-2455	15.4	3.42	69.1
J-2456	19	3.51	67.4
J-2457	21.6	3.22	66.4
J-2458	18.5	6.47	67.7
J-2459	11.2	1.16	70.9
J-2460	19	1.14	67.6
J-2461	17	8.16	68.4
J-2462	12.9	0.35	70.2
J-2463	19	3.19	67.6
J-2464	16.9	1.98	68.5
J-2465	16.3	0.45	68.8
J-2466	12.7	1.34	70.3
J-2467	11.1	0.99	71
J-2468	18.5	2.48	68.3
J-2469	20.6	5.53	67.4
J-2470	23.5	0.13	66.1
J-2471	18.2	0.6	68.4
J-2472	14.8	2.88	69.9
J-2473	17.3	4.3	68.8
J-2474	25.2	0.05	65.4
J-2475	11.8	0.83	71.2
J-2476	10.6	2.22	71.7
J-2477	15.9	1.03	69.4
J-2478	21.8	0.18	66.8
J-2479	16.3	0.64	68.5
J-2480	17.2	7.28	62.2
J-2481	10.9	0.22	70.8
J-2482	29	0.11	63.7
J-2483	29	0.17	63.7
J-2484	25.4	0.3	65.3
J-2485	27.9	0	64.2
J-2486	14.2	2.65	70.1
J-2487	9.6	0.57	72.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2488	10.5	1.03	71.7
J-2489	9	0.4	72.4
J-2490	9	4.13	72.3
J-2491	5	0.96	74.1
J-2492	9	0.62	72.3
J-2493	31.6	39.15	62.6
J-2494	44.2	2.89	57.1
J-2495	39	0.95	59.4
J-2496	38.8	3.91	59.5
J-2497	29.6	1.71	63.5
J-2498	48.2	0.27	55.4
J-2499	44.1	1.99	57.2
J-2500	27	1.17	64.6
J-2501	30	0	63.3
J-2503	18	2.63	68.5
J-2504	49	1.24	55.1
J-2505	49	0.93	55.1
J-2507	41.2	0.7	58.5
J-2508	49	1.47	55.1
J-2509	24.5	1.06	65.7
J-2510	14.2	2.2	70.1
J-2511	25.1	0	65.4
J-2512	25.2	0.13	65.4
J-2514	49	2.31	55.1
J-2516	36.4	0.81	60.5
J-2517	37.3	0	60.1
J-2518	37.9	0.35	59.9
J-2520	31.4	0.51	62.7
J-2521	9	0.21	72.4
J-2522	39	1.15	59.4
J-2523	42.1	0.7	58.1
J-2524	49	0.47	55.1
J-2525	49	2.66	55.1
J-2526	49	0.7	55.1
J-2527	44.2	1.11	57.2
J-2528	48.7	1.12	55.3
J-2529	78	3.31	42.6
J-2530	46.3	0.76	56.3
J-2531	53.2	1.72	53.3
J-2532	59	1.25	50.8
J-2533	69.9	0.98	46.1
J-2534	69	0.66	46.5

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2535	68.7	0.5	46.6
J-2536	67.6	0.29	47.1
J-2537	65.2	0	48.1
J-2538	59	2.48	50.8
J-2539	71.9	3.36	45.2
J-2540	74.8	0.6	44
J-2541	52.3	1.83	53.7
J-2542	52.5	0.36	53.6
J-2543	50.4	0.29	54.5
J-2544	29.8	0	63.4
J-2545	31.3	0	62.8
J-2546	30.5	4.23	63.1
J-2547	31	1.86	62.9
J-2548	37.9	0.39	59.9
J-2549	26.4	0.33	64.9
J-2550	42.8	0	58
J-2551	59.7	0.56	50.7
J-2552	77	0	43.2
J-2553	88	0	38.5
J-2554	81.5	0	41.3
J-2555	88	0	38.5
J-2556	82.2	0	40.9
J-2557	88	0	38.5
J-2558	87.3	0	38.7
J-2559	87.6	0	38.6
J-2560	36.4	0.61	60.8
J-2561	38.2	0.96	60
J-2562	24.8	0	65.7
J-2563	25.2	0.85	65.6
J-2564	86.9	0.05	39.1
J-2565	42.7	2.09	58.7
J-2566	24	1.81	66.8
J-2568	98	0.34	35
J-2569	41.8	3.6	60.5
J-2570	31.5	6.79	65
J-2571	31.5	3.05	64.8
J-2572	30.4	1.52	65.3
J-2573	25.7	2.74	67.1
J-2574	24.3	2.72	67.8
J-2575	17.5	0.76	70.7
J-2576	42	0.12	59.9
J-2577	127	4.04	23

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2578	44.4	0.44	57.3
J-2579	15	2.93	70.8
J-2580	41	0.07	59.5
J-2581	92.2	0.54	37.5
J-2582	83.1	0.05	40.8
J-2583	39	2.59	60.5
J-2584	86.8	0.69	38.9
J-2585	44.1	2.05	57
J-2586	63.9	0.52	48.5
J-2587	47.6	4.16	55.3
J-2588	93.5	3.3	35.2
J-2589	38.5	2.22	59.1
J-2590	39	1.86	58.8
J-2591	22	0.34	66.2
J-2592	19.2	0	67.4
J-2593	19	1.16	67.5
J-2594	14.7	2.1	69.3
J-2595	51.3	2.93	53.9
J-2596	54.7	3.54	52.7
J-2597	45.1	0.21	62.1
J-2598	50.2	0.47	59.9
J-2599	56.8	1.73	56.9
J-2600	46.5	0	62.1
J-2601	43.2	0.31	56.7
J-2602	49.9	1.01	53.6
J-2603	54.6	3.65	51.3
J-2604	53	2.9	51.9
J-2605	20.3	0.11	65.9
J-2606	27.5	0.9	62.8
J-2607	29.8	0.36	61.7
J-2608	26.3	9.82	63.2
J-2609	17.8	2.95	66.9
J-2610	19.5	0.81	66.2
J-2611	19.1	0.54	66.3
J-2612	58.6	1.66	51
J-2613	38.2	1.62	59.6
J-2614	14.7	1.78	69
J-2615	9	0.24	71.4
J-2616	22.3	3.09	65.5
J-2617	43.8	1.74	56.4
J-2618	18.4	1.12	67.2
J-2619	42.1	7.19	56.7

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2620	32.3	2.34	61
J-2621	56.5	2.29	50.6
J-2622	29	1.01	62.2
J-2623	28.8	4.14	62.3
J-2624	29	0	62.2
J-2625	29	0	62.2
J-2627	29	0.03	62.2
J-2629	29	0	62.2
J-2630	33.5	2.52	60.4
J-2631	55.1	1.29	50.8
J-2632	74.6	0.53	42.4
J-2633	70.6	0.87	44.1
J-2634	73.1	0.71	43.1
J-2635	62.8	1.84	47.9
J-2636	63.5	2.6	47.6
J-2637	74.7	5.06	42.8
J-2638	44.8	0.98	56
J-2639	68.1	4.7	45.8
J-2640	34.2	0.17	60.5
J-2641	61.7	0.15	47.9
J-2642	63	0.54	47.4
J-2643	37.1	0.68	58.5
J-2644	31.9	0.24	60.7
J-2645	46.7	1.15	54.4
J-2646	49.2	2.62	53.3
J-2647	59.3	1.07	48.9
J-2648	61.3	0	48
J-2649	49.9	0.22	52.9
J-2650	36.8	0	58.5
J-2651	49.7	0	52.9
J-2652	49.6	0	52.9
J-2653	70.2	1.27	44
J-2654	59	0	48.7
J-2655	58.6	0.21	48.9
J-2656	49.5	0.23	52.8
J-2657	52	0.58	51.5
J-2658	38.7	0.99	57.1
J-2659	21.9	4.59	64.7
J-2660	9	1.58	70.3
J-2661	10	0	69.9
J-2662	10.9	0	69.5
J-2663	11	3.06	69.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2664	14.5	14.67	67.9
J-2665	9	2.79	70.3
J-2666	10.6	0.21	69.6
J-2667	20.8	1.7	65.2
J-2668	23.8	0.24	63.9
J-2669	10.1	0	69.8
J-2670	19	2.75	66.1
J-2671	35.1	0	59.1
J-2672	21.8	0.19	64.9
J-2673	25	3.85	63.5
J-2674	26.2	2.93	63
J-2675	26.8	0	62.8
J-2676	29.2	1.14	61.7
J-2677	29	0.55	61.8
J-2678	28.6	0	62
J-2679	29.9	0	61.4
J-2680	13.8	1.65	69.6
J-2682	37.1	1.62	59.3
J-2683	70.3	1.83	45
J-2684	83.7	1.79	38.9
J-2685	75	2.55	42.6
J-2686	99.1	1.49	32.2
J-2687	101.1	1.21	31.6
J-2688	82.3	2.64	39.7
J-2689	109.5	2.23	27.9
J-2690	33.6	0.76	60.1
J-2691	94.6	1.2	33.7
J-2692	28.6	2.81	62.1
J-2693	37.8	0.41	58.2
J-2694	79	1.56	40.4
J-2695	102.6	0.01	30.2
J-2696	35	2.02	59.4
J-2697	29.2	0.93	61.9
J-2699	31.8	2.66	60.8
J-2700	33	3.23	60.3
J-2701	41.8	0	56.5
J-2702	35	0.26	59.4
J-2703	48.1	1.83	53.8
J-2704	19.3	5.43	66.2
J-2720	63.4	2.21	47.1
J-2721	62.6	0.41	47.5
J-2722	10	0.2	70.2

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2723	12.1	2.8	69.3
J-2724	50.8	0.66	52.6
J-2725	50.4	0.17	52.8
J-2726	49	0	53.4
J-2730	17.6	1.5	66.9
J-2731	43.7	4.93	55.7
J-2732	47.7	1.16	53.9
J-2733	25.3	0.91	63.6
J-2734	48.1	0.64	53.7
J-2735	19	0.91	66.3
J-2736	7.6	0	71.2
J-2737	19	0.31	66.3
J-2738	32.4	0.56	60.5
J-2739	46.1	2.71	54.6
J-2740	19	7.02	66.3
J-2741	23.6	0	64.3
J-2742	36.7	0	58.6
J-2744	39	2.89	57.6
J-2745	16.5	1.11	67.3
J-2746	90.3	1.91	35.3
J-2747	84.8	0	37.7
J-2749	85.1	0.77	37.4
J-2750	80.9	0.51	39.3
J-2751	53.3	2.36	51.1
J-2752	65	0.29	46.3
J-2753	67.8	1.63	44.6
J-2754	53.7	0.48	51.1
J-2756	48.5	1.62	53.3
J-2757	52.3	2.19	51.7
J-2758	48.1	0.33	53.5
J-2759	51.7	0	52
J-2760	19.2	0.46	66.1
J-2761	32	0.27	60.5
J-2762	38.1	1.34	57.8
J-2763	13.5	0.49	68.4
J-2764	9	0.83	70.3
J-2765	9	0.44	70.3
J-2766	32.5	3.09	60.2
J-2767	9	2.08	70.4
J-2768	9	0.46	70.4
J-2769	14.3	0.83	68.1
J-2770	43.8	0	55.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2772	45.2	0.25	54.7
J-2774	12.7	4.82	68.7
J-2775	13.4	4.24	68.4
J-2776	9	29.65	70.3
J-2777	9	0	70.3
J-2778	11.2	5.52	69.4
J-2779	9	0.19	70.4
J-2780	14.9	0.09	67.8
J-2781	13.1	0.37	68.6
J-2782	9	23.84	70.3
J-2783	9	25.53	70.3
J-2784	9	0.66	70.3
J-2785	9	1.91	70.3
J-2786	13.2	0.6	68.6
J-2787	9	0.68	70.3
J-2788	9	0.48	70.4
J-2789	8.9	37.53	70.4
J-2791	9.8	0	69.9
J-2792	15.8	1.48	66.7
J-2793	9	0	70.3
J-2794	9	0	70.3
J-2795	9	0	70.3
J-2796	1	0	73.8
J-2797	9	0	70.3
J-2798	9	0.24	70.3
J-2799	14.8	0.55	67.8
J-2800	9	0	70.3
J-2801	23.3	0.04	64.1
J-2802	20.4	0	65.4
J-2803	29	0.76	61.7
J-2804	22.2	0.82	64.6
J-2805	9	19.11	70.3
J-2806	39.3	0	57.2
J-2807	51.4	0	52
J-2808	26	5.11	62.5
J-2809	38.9	1.1	57.5
J-2810	39	2.75	57.3
J-2811	22.5	0.28	64.6
J-2812	23.4	0.98	64.2
J-2813	38.6	1.36	57.6
J-2814	59.6	3.81	48.2
J-2815	54.8	4.05	50.6

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2817	81.4	0.38	39.1
J-2818	92.9	0.18	34.1
J-2819	88.8	0	35.9
J-2820	56.6	1.13	49.9
J-2821	38.6	2.88	57.6
J-2822	50.6	0.87	52.4
J-2823	102.9	0.58	29.8
J-2824	97.1	0.15	32.3
J-2825	106.9	0.29	28.1
J-2826	24.7	0.75	63.7
J-2827	57.3	0.51	49.6
J-2828	69.4	0.3	44.4
J-2829	28.1	1.75	62.3
J-2830	23.1	1.55	64.3
J-2832	26.5	0	62.9
J-2833	45.7	0	54.6
J-2834	54.1	1.32	50.9
J-2835	54.1	0.47	51
J-2836	54.2	1.53	50.8
J-2837	46	0.23	54.5
J-2839	51	0.95	52.3
J-2840	66	0.8	45.6
J-2841	51.3	1.25	52.1
J-2842	46.1	1.54	54.3
J-2843	33.5	0.54	59.7
J-2844	33.6	0.05	59.9
J-2845	64.1	0.79	46.7
J-2846	68.8	1.38	44.6
J-2847	63.9	2.02	46.7
J-2848	33	0.67	60.1
J-2849	47.3	0.43	53.9
J-2850	46.5	0.41	54.4
J-2851	55.9	0	50.3
J-2852	38.8	0	57.7
J-2853	38.8	0	57.7
J-2854	68.2	0	45
J-2855	78.3	0	40.6
J-2856	78	0	40.7
J-2857	81.6	0	39.1
J-2858	78	0	40.7
J-2859	38.9	0	57.6
J-2861	38.9	0	57.6

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2863	38.8	0	57.7
J-2865	23.9	0.89	64.2
J-2866	22.7	0.46	64.7
J-2867	19.8	2.72	66
J-2868	35.8	2.36	56.5
J-2869	26.5	0.71	63.1
J-2870	25.6	0.56	63.4
J-2871	59	2.71	49
J-2872	17	0.58	67.2
J-2874	27.7	1.48	62.6
J-2875	29	1.33	62
J-2876	25.5	0.16	63.6
J-2877	58.6	0.34	49.2
J-2878	59.9	1.45	48.7
J-2880	5	0	72.8
J-2881	5	0.32	72.8
J-2882	9	0.16	71
J-2883	9	0.55	71
J-2884	9	0.41	71
J-2885	9	0.53	71
J-2886	9	3.24	71
J-2887	9	1.19	71
J-2888	9	1.78	71.1
J-2889	12	0.26	69.8
J-2890	9	2.46	71.1
J-2891	14.2	1.87	68.9
J-2892	18.9	0.09	66.9
J-2893	12.6	0.99	69
J-2894	11.6	0.35	70
J-2895	11.2	0.77	70.1
J-2896	9.9	1.88	70.3
J-2897	11.8	1.99	69.9
J-2898	10.3	2.1	70.5
J-2899	8.4	0.72	71.3
J-2900	9	3.96	70.9
J-2901	9	0.99	70.9
J-2902	9	0.99	70.9
J-2903	9	1.19	70.9
J-2904	9	53.15	69.9
J-2905	9	1.66	69.6
J-2906	9	0	69.6
J-2907	9	3.65	69.9

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2908	9	0.26	69.9
J-2909	9	7.94	69.6
J-2910	9	1.9	70
J-2911	9	2.11	70.2
J-2912	9	0.11	70
J-2913	9	0.88	70
J-2914	9	0.38	70
J-2915	10	3.08	70.7
J-2916	11.2	1.18	70.2
J-2917	12.1	0.93	69.9
J-2918	10	3.32	70.7
J-2919	15.5	1.79	68.5
J-2920	17.6	2.11	67.6
J-2921	18.6	2.31	67.3
J-2922	17.8	4.3	67.5
J-2923	18.2	0.52	67.4
J-2924	19	2.14	67.1
J-2925	16.4	3.6	68.3
J-2926	14.6	1.6	69
J-2927	15.5	2.75	68.7
J-2928	17.8	2.01	67.7
J-2929	9.5	1.53	71.4
J-2930	13.7	2.03	69.6
J-2931	9.9	2.52	71.3
J-2932	16.5	2.94	68.4
J-2933	18.2	0.07	67.7
J-2934	13.3	3.26	69.8
J-2935	10.2	0.66	71.2
J-2936	11.8	1.46	70.5
J-2937	4	0.71	73.8
J-2938	9	2.79	71.6
J-2939	9	0.46	71.7
J-2940	9	0.25	71.7
J-2941	4	0.4	73.8
J-2942	9	1.82	71.7
J-2943	9	0.56	71.7
J-2944	4	0.67	73.8
J-2945	9	1.06	71.7
J-2946	9	0.6	71.7
J-2947	4	1.4	73.8
J-2948	9	2.35	70.9
J-2949	9	0.95	71.7

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2950	4	1.72	73.8
J-2951	9	0	71.6
J-2952	9	0.49	71.7
J-2953	9	1.32	71.7
J-2954	9	49.54	56.5
J-2955	4.7	1.62	73.5
J-2956	9	0.71	71.7
J-2957	9	1.21	71.7
J-2958	5.3	1.04	73.3
J-2959	9	0.26	71.7
J-2960	9	2.61	71.6
J-2961	6	0.62	73
J-2962	9	1.12	71.7
J-2963	9	0.05	71.7
J-2964	6.6	0.61	72.7
J-2965	9	1.18	71.7
J-2966	17.7	0.85	67.1
J-2967	9	5.62	70.9
J-2968	30.4	2.46	61.6
J-2969	14.1	0.52	68.7
J-2970	37.3	1.66	58.7
J-2971	14.8	3.52	68.3
J-2972	37.8	0.37	58.3
J-2973	14.8	0.83	68.2
J-2974	39	0	57.9
J-2975	44.8	0	55.4
J-2976	18.2	0.04	67
J-2977	42.6	0.43	56.3
J-2978	58.9	2.27	49.2
J-2979	58.1	0	49.5
J-2980	62.1	1.72	47.8
J-2981	54.1	0	51.2
J-2982	83.8	1.02	38.4
J-2983	58.7	0.39	49.3
J-2984	56.7	0.37	50.2
J-2985	72.8	3.56	43.2
J-2986	59.7	0	48.9
J-2987	78	0.23	41.1
J-2988	78	0	41.1
J-2989	78	0	41.1
J-2990	78	0	41.1
J-2991	76.3	1.35	41.8

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-2992	47.4	2.36	54.4
J-2993	48.9	0.52	53.7
J-2994	45.5	2.25	55.3
J-2995	62.9	0.28	47.8
J-2996	95.1	1.12	33.8
J-2997	27.6	0.8	63.1
J-2998	92.1	11.65	35.1
J-2999	44.5	5.63	55.8
J-3000	39	5.23	58.1
J-3001	44	0.64	55.8
J-3002	45.5	0.91	55.2
J-3003	39	1.35	57.9
J-3004	46.9	1.72	54.6
J-3005	53.9	0.42	51.5
J-3006	39.6	3.18	57.7
J-3007	34.4	1.35	59.9
J-3008	9	2.28	71.1
J-3010	20.1	3.13	66.6
J-3011	24.5	2.04	65
J-3012	29	0.42	62.2
J-3013	29	0	62.2
J-3014	29	4.81	60.4
J-3015	27.9	2.78	62.6
J-3016	23.5	1.32	64.5
J-3017	27.7	1.17	63.6
J-3018	19	0	67.3
J-3019	19	0	67.3
J-3020	15.6	0.22	68.7
J-3021	19	0.54	67.3
J-3023	19	0.46	67.3
J-3024	19	0	67.3
J-3026	14.9	3.66	68.8
J-3027	14	0.9	69.8
J-3028	12.1	0.72	70.6
J-3029	18.1	0.56	68
J-3030	10.4	0.71	71.2
J-3031	25.4	4.63	64.7
J-3032	20.5	51.5	15.4
J-3033	9	0	71.8
J-3034	14	5.31	69.6
J-3035	9	0	71.8
J-3036	19.4	1.57	67.2

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3037	9.7	1.45	71.2
J-3038	19.5	1.58	67.2
J-3039	19	0.58	67.4
J-3040	19.4	1.66	67.2
J-3041	19	0.7	67.4
J-3042	11.3	2.05	70.6
J-3043	19.3	1.49	67.3
J-3044	19	1.97	67.3
J-3045	9.4	0.5	71.5
J-3046	19.1	1.53	67.3
J-3047	19	1.99	67.3
J-3048	19	1.93	67.3
J-3049	11	0.31	70.9
J-3050	9	0.21	71.6
J-3051	9.9	0.34	71.3
J-3052	9	1.34	71.7
J-3053	12.6	0.79	70.2
J-3054	11.5	0.94	70.6
J-3055	9	0.81	71.7
J-3056	11	0.73	70.9
J-3057	14.1	1.2	69.5
J-3058	9	1.28	71.7
J-3059	9.3	0.89	71.6
J-3060	9	0.26	71.7
J-3061	9	1.11	71.7
J-3062	7.3	0.84	72.4
J-3063	9	1.48	71.6
J-3064	27.8	2.34	63.7
J-3066	9	0	71.1
J-3067	37.5	2.96	59
J-3068	12.9	0.6	69.6
J-3069	15	3.79	68.7
J-3070	19	0.57	67
J-3071	18.4	0.42	67.3
J-3072	22.9	3.76	65.3
J-3073	19	7.97	66.5
J-3074	45.3	0.63	55.6
J-3075	15.1	2.12	68.8
J-3076	28.9	0.37	62.8
J-3077	34.8	1.08	60.5
J-3078	27.1	0.17	63.8
J-3079	19.8	1.26	66.9

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3080	9	0.4	69.9
J-3081	9	0.52	69.9
J-3082	9	0.37	69.9
J-3083	9	0.32	69.9
J-3084	9	1.76	69.8
J-3085	9	2.13	70.1
J-3086	9	0.83	70.1
J-3087	9	1.66	70
J-3089	9	0.7	70.8
J-3090	9.8	2.65	70.5
J-3091	11.2	0.3	70
J-3092	12.1	0.69	69.6
J-3093	11.2	1.76	69.9
J-3094	10.5	2.2	70.2
J-3095	13.3	2.25	69.1
J-3096	6.5	0.57	72.1
J-3097	9	0.46	70.9
J-3098	9	2.28	70.4
J-3099	10.4	1.79	70.2
J-3100	9	0.99	70.8
J-3101	9.1	0.06	70.8
J-3102	9	2.63	70.8
J-3103	13.2	2.03	69.2
J-3104	15.7	1.73	68.1
J-3105	18.1	0.69	67.1
J-3106	18.5	0.81	66.9
J-3108	19	0.11	67.2
J-3110	18.2	16.08	64.9
J-3112	13.6	2.61	69.5
J-3113	13.5	0.95	69.5
J-3114	9	1.7	71.4
J-3116	11.6	2.29	70.5
J-3118	9	2.84	71.6
J-3119	24.3	1.63	65
J-3120	24.7	14.9	64.9
J-3121	24.7	0.6	64.9
J-3125	20	1.8	66.8
J-3126	8.7	1.03	71.4
J-3127	9	0.17	71.3
J-3128	9	0.82	71.3
J-3129	8.3	1.62	71.6
J-3130	7	1.06	72.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3131	9	2.98	71.4
J-3132	7.6	25.69	71.9
J-3133	9	0.53	71.3
J-3134	9	4.47	71.3
J-3135	9	1.55	71.3
J-3136	9	1.2	71.3
J-3138	9	3.45	71.1
J-3139	12.8	0.85	69.7
J-3140	12.6	1.41	69.7
J-3141	12.4	1.54	69.8
J-3142	5.3	0.8	71.7
J-3144	6.8	1.05	72.3
J-3145	9.1	1.94	71.5
J-3148	9	0.21	71.5
J-3149	9	0.45	71.5
J-3150	9	2.39	70.6
J-3151	9	4.33	70.5
J-3152	13.5	1.66	69.6
J-3153	9	1.39	71.5
J-3154	9	5.02	71.5
J-3155	9.4	0.08	71.4
J-3156	12.1	1.57	70.2
J-3157	9	2.83	71.5
J-3159	15.3	0.04	68.8
J-3160	10.9	0	70.7
J-3161	10.2	5.08	71
J-3162	9.1	36.87	71.5
J-3163	13	0.36	69.8
J-3164	14.5	0	69.2
J-3165	10.1	3.96	71.1
J-3166	17.2	0	68.1
J-3167	17	29.3	68.2
J-3169	13	0	69.8
J-3170	13.3	0	69.7
J-3171	14.3	0	69.3
J-3172	16.8	10.57	68.2
J-3173	16.7	3.36	68.3
J-3174	15	4.31	69
J-3175	16.1	0	68.5
J-3176	19	7.16	67.3
J-3179	19	9.81	67.3
J-3181	19	0.03	67.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3183	19	0	67.3
J-3185	19	12.41	67.3
J-3189	10.5	1.65	71
J-3190	10.3	42.75	71.1
J-3191	16	2.66	68.6
J-3192	9	1.26	71.6
J-3193	8.5	0.44	71.9
J-3194	9	7.64	71.6
J-3195	8.3	0.71	71.9
J-3196	9	0.3	71.6
J-3197	8.4	0	71.9
J-3198	9	0.37	71.6
J-3199	9	0.08	71.6
J-3200	9	1.24	71.6
J-3201	9	0.46	71.6
J-3202	9	0.2	71.6
J-3203	9	0.47	71.6
J-3204	9	2.12	71.6
J-3205	9	1.56	71.6
J-3206	9	0.63	71.6
J-3207	9	0.2	71.6
J-3208	9	1.41	71.6
J-3209	9	0	71.6
J-3210	9	2.58	71.6
J-3211	9	1.88	71.6
J-3212	18.5	0.68	67.5
J-3213	15.1	0.67	69
J-3214	12.5	0.92	70.1
J-3215	7.4	2.6	72.3
J-3216	6.7	0	72.6
J-3217	7.3	0.04	72.4
J-3218	7.4	0	72.3
J-3219	30.8	0.89	62.2
J-3220	35.8	2.18	60
J-3221	39.9	1.38	58.2
J-3222	44.2	0.25	56.4
J-3223	46.1	0.66	55.6
J-3224	18.1	7.87	67.7
J-3225	14.7	1.07	69.2
J-3226	10.9	0.64	70.8
J-3227	8.6	0.33	71.8
J-3228	8.7	0.99	71.8

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3229	8.8	0.86	71.8
J-3230	8.8	1.3	71.7
J-3231	8.9	1.32	71.7
J-3232	9	1.87	71.7
J-3233	9.1	1.14	71.6
J-3234	9.7	1.22	71.3
J-3235	9.9	0.23	71.2
J-3236	10.2	0.02	71.1
J-3237	10.3	0.13	71.1
J-3238	10.4	0.41	71.1
J-3239	10.5	0.13	71
J-3240	10.5	0.39	71
J-3241	10.7	2.05	70.9
J-3242	10.7	0.39	70.9
J-3243	10.8	0	70.8
J-3244	28.9	1.45	63
J-3245	32.4	0	61.5
J-3246	36.1	0	59.9
J-3247	21.5	0.79	66.2
J-3248	9	0.23	71.6
J-3249	9	0.17	71.6
J-3250	9	0	71.6
J-3251	9	0	71.6
J-3252	9	0.67	71.6
J-3253	9	0.39	71.6
J-3254	9	0.86	71.6
J-3255	9	6.92	71.6
J-3256	9	1.11	71.6
J-3257	9	1.32	71.6
J-3258	9	1.04	71.6
J-3259	9	1.34	71.6
J-3260	9	1.84	71.6
J-3261	9	0.45	71.6
J-3262	9	1.05	71.6
J-3263	9	0.09	71.6
J-3264	9	0	71.6
J-3265	9	0.83	71.6
J-3266	9.4	1.74	71.4
J-3267	9	0.72	71.6
J-3268	9.7	0.72	71.3
J-3269	9	0.83	71.6
J-3270	9	2.78	71.5

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3271	9	1.06	71.6
J-3272	9	1.28	71.6
J-3273	9	0.54	71.6
J-3274	14.6	0	69.2
J-3275	14.5	0	69.3
J-3276	15.3	0.11	68.9
J-3277	39	1.16	58.6
J-3278	39	0.33	58.6
J-3279	39	0.78	58.6
J-3280	39	0.69	58.6
J-3281	32.1	0.69	61.6
J-3282	14.2	0.18	69.4
J-3283	32.8	1.16	61.3
J-3284	29.8	1.07	62.7
J-3285	15.6	0.12	68.8
J-3286	42.9	0.33	56.9
J-3287	33.3	1.98	61.1
J-3288	17.5	0.33	67.9
J-3289	9	0	71.6
J-3290	9	0	71.6
J-3292	12.4	0.83	70.2
J-3293	46.4	0.06	55.4
J-3294	39	0.25	58.7
J-3295	29.6	0.43	62.7
J-3296	9	3.06	71.6
J-3297	9	0.29	71.6
J-3298	9	0.47	71.6
J-3299	9	1.58	71.6
J-3300	8	0	72.1
J-3301	35.2	1.18	60.3
J-3302	20.7	1.08	66.6
J-3303	9	0.45	71.6
J-3304	15.9	0.83	68.7
J-3305	6.7	0	72.6
J-3306	6.3	0	72.8
J-3307	9	1.1	71.6
J-3308	8.7	0	71.8
J-3309	9	0.48	71.6
J-3310	11	0	70.8
J-3313	10.3	0.5	71.1
J-3317	11.9	0.46	70.4
J-3318	9.8	1.1	71.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3319	9	0.75	71.6
J-3320	14.9	5.22	69.1
J-3321	17.7	1.2	67.8
J-3322	18.4	1.86	67.6
J-3323	19.2	0.15	67.3
J-3324	19.2	0.74	67.3
J-3325	20.6	4.4	66.7
J-3327	19	0	67.4
J-3328	19	0	67.4
J-3329	19	1.02	67.4
J-3330	19	6.75	67.4
J-3332	19	3.97	67.4
J-3333	20	3.01	67
J-3334	13.1	3.14	70.1
J-3336	12.9	8.69	70.1
J-3337	17.2	3.38	68.3
J-3338	15.4	4.58	69.1
J-3339	17.6	0	68.1
J-3340	29	4.31	63.1
J-3341	29	0	63.1
J-3342	29	0	63.1
J-3343	26.3	0	64.3
J-3344	30.5	2.77	62.9
J-3345	13.4	0	70.1
J-3346	13.1	3.84	70.2
J-3347	13.1	0.09	70
J-3348	19.6	1.53	66.9
J-3349	19	0.95	67.2
J-3350	19	2.14	67.2
J-3351	19	0	67.2
J-3359	21.6	2.76	66.2
J-3360	23.1	2.78	65.6
J-3361	16	0.18	68.6
J-3362	14.9	3.6	69.1
J-3363	15.6	0.7	68.8
J-3364	19	0.76	67.3
J-3365	24.8	0	64.8
J-3366	19	0.64	67.3
J-3367	15.3	3.57	69.1
J-3368	15.8	0	68.8
J-3369	22.1	1.28	66.1
J-3370	19	1.9	67.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3371	27.6	0.72	63.8
J-3372	28.2	0	63.5
J-3373	29	0.2	63.2
J-3374	18.9	0	67.5
J-3375	25.6	0	64.6
J-3376	20.3	0.57	66.9
J-3378	20.3	0	66.9
J-3380	25	0	64.9
J-3381	29	1.63	63.1
J-3382	19	0.61	67.5
J-3383	20.2	2.6	67
J-3384	32.2	1.55	61.8
J-3385	35.2	9.65	60.5
J-3386	26.3	0.71	64.3
J-3387	35.5	0.23	60.4
J-3389	35.4	0.04	60.4
J-3390	35.2	0.22	60.6
J-3392	34.5	2.58	60.9
J-3393	34.7	3.38	60.8
J-3394	33.1	3.87	61.6
J-3395	47	6.12	54.7
J-3396	38.9	0.35	59
J-3397	38	0	59.3
J-3398	37.5	0	59.5
J-3399	41.7	2.11	57.7
J-3400	38.4	0	59.2
J-3401	32.9	0.74	61.6
J-3402	28.5	0.79	63.5
J-3403	32.1	25.34	62
J-3404	22.8	26.32	66.1
J-3405	42.2	1.69	57.7
J-3406	39	6.81	58.9
J-3407	30.9	0	63.2
J-3408	19	0	68.3
J-3409	13.2	0.22	69.8
J-3410	26.3	1.4	64.2
J-3411	26.8	0	64
J-3412	29	2.09	63
J-3413	27.1	0.91	63.9
J-3414	29	4.46	62.8
J-3415	27.9	1.91	63.5
J-3416	27.9	0	63.6

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3417	26.6	0	64.1
J-3418	27.8	0.22	63.6
J-3419	25	0	64.8
J-3420	29	1.69	63.1
J-3421	24.6	0	65
J-3422	51.8	3.67	53.2
J-3423	124.3	0	21.9
J-3424	53.5	0	52.5
J-3425	133.5	0	17.9
J-3426	114.5	0	26.1
J-3427	115.1	5.17	25.8
J-3429	71.2	3.23	44.8
J-3430	100.2	0	32.3
J-3431	98	4.07	33.2
J-3432	98	0	33.2
J-3433	46.4	0	55.6
J-3434	100.3	0	32.3
J-3435	99.1	0	32.8
J-3436	98.6	0	33.1
J-3437	115	0	26
J-3438	117.4	0	24.9
J-3439	121.1	0	23.4
J-3440	120.5	0	23.6
J-3441	96.9	0	33.9
J-3442	122.6	13.29	22.3
J-3443	122.6	0	22.7
J-3444	87.4	32.88	38.1
J-3445	82.2	0	40.3
J-3446	75.1	0	43.4
J-3447	63.8	2.34	48.3
J-3448	96.1	0	34.3
J-3449	108	0	29.1
J-3450	109.7	0	28.4
J-3451	104.8	0	30.5
J-3452	87.3	0	38.1
J-3454	96.6	5.14	34.1
J-3455	109.8	0	28.3
J-3456	95.2	0	34.6
J-3457	86.1	0	38.5
J-3458	106.5	27.53	29.6
J-3459	79	0.18	41.5
J-3460	104.5	8.81	30.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3461	48.9	0	54.8
J-3462	39	0.49	59.1
J-3463	56	0	51.7
J-3464	49	1.41	54.8
J-3465	44.2	0	57.3
J-3466	43.3	1	57.7
J-3467	42.5	0.55	58
J-3468	60.9	0	50
J-3469	50	0	54.8
J-3470	60.5	2.03	50.2
J-3471	46.2	0	56.4
J-3472	59.8	0	50.5
J-3473	55.5	0	52.4
J-3474	59.8	0	50.5
J-3475	59.6	0	50.6
J-3477	56.7	0	51.8
J-3478	56.6	0	51.9
J-3479	53.6	0.44	53.2
J-3480	57.3	0	51.6
J-3481	116.8	0.69	25.8
J-3482	61.6	0	49.7
J-3483	69.1	0	46.5
J-3484	60.3	0	50.3
J-3485	68	0	46.9
J-3487	72.1	1.03	50.6
J-3488	95	0.93	40.6
J-3489	92.1	2.35	41.9
J-3490	68	0.2	52.3
J-3491	71.8	0.21	50.7
J-3492	76.5	0	48.1
J-3493	68	0.55	51.8
J-3494	75.6	0	48.5
J-3495	68	0.25	51.8
J-3496	60	0.67	55.3
J-3497	59	0.99	55.8
J-3498	56.7	1.05	56.8
J-3499	52	2.4	58.8
J-3500	52.2	2.89	58.8
J-3501	78.3	1.58	47.5
J-3502	64	2.05	53.7
J-3503	76	1.74	48.5
J-3504	77.1	2.28	48.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3505	39	2.65	64.6
J-3506	75.8	0.66	48.7
J-3507	40.8	1.41	63.8
J-3508	76.1	0.71	48.6
J-3509	33.5	3.82	67
J-3510	66.3	2.94	53
J-3511	59	3.07	56.1
J-3512	53.7	1.46	58.4
J-3513	29	0.79	69.1
J-3514	61.9	8.12	54.9
J-3515	56.3	2.47	57.3
J-3516	58.3	1.43	56.5
J-3517	73.3	5.63	50.1
J-3518	67.3	5.32	52.8
J-3519	66.8	1.59	52.9
J-3520	29.2	1.86	67.1
J-3521	40.9	4.56	62
J-3522	32.9	1.07	64.4
J-3523	39	1.22	61.8
J-3524	38.6	2.74	61.7
J-3525	53.5	0.54	58.3
J-3526	30.3	1.6	68.3
J-3527	53.5	0.67	58.3
J-3528	49	1.07	60.2
J-3529	17.4	1.28	67.5
J-3530	29	0.13	62.5
J-3531	49	2.36	58
J-3532	49	1.02	58
J-3533	48	3.8	58.4
J-3534	47.1	0.85	58.4
J-3535	48.8	1.29	57.7
J-3536	48.6	1.54	57.7
J-3537	22	1.74	67.3
J-3538	22.5	0	67.1
J-3539	39.9	0.08	59.6
J-3540	44.4	0	58.7
J-3541	26.9	13.89	66.3
J-3542	45.2	5.4	58.7
J-3543	45.8	0.24	58.7
J-3544	46.4	0	58.7
J-3545	36.1	3.34	63
J-3546	34.6	0.98	63.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3547	39	1.16	61.5
J-3548	39	3.24	61.5
J-3549	39	0.56	61.5
J-3550	26.2	4.66	65.8
J-3551	39	3.4	60.3
J-3552	42.2	0	58.8
J-3553	38.1	0	60.6
J-3554	19.9	6.8	67.7
J-3555	32.6	0.54	62.2
J-3556	24.5	2.75	65.6
J-3557	35.6	2.66	60.5
J-3558	18.6	0.49	68.2
J-3559	19	5.65	67.8
J-3560	19	1.97	68.6
J-3561	29.7	1.06	63.9
J-3562	46.5	1.78	55.7
J-3563	35	2.21	60.6
J-3564	29	0.78	63.1
J-3565	27.1	0	63.9
J-3566	28.5	0	63.3
J-3567	23.9	16.73	65.3
J-3568	30.7	1.01	62.5
J-3570	34.6	1.6	61.4
J-3571	21.7	2.75	66.9
J-3572	31.7	1.6	62.4
J-3573	29.5	0	63.4
J-3574	29.3	0.32	63.5
J-3575	29	0.28	63.6
J-3576	29	0	63.6
J-3577	22.9	3.95	66.2
J-3578	15.1	6.1	69.5
J-3579	15.1	0	69.4
J-3580	17	14.22	68.6
J-3581	14.9	0	69.5
J-3582	29	0.76	63.4
J-3583	29	3.22	63.4
J-3584	29	1.62	63.4
J-3585	21.3	1.31	66.8
J-3586	32	1.4	62.4
J-3587	31.1	0.5	62.7
J-3588	29	0.33	63.6
J-3589	25.8	0.56	65

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3590	29	0	63.6
J-3591	27.8	0	64.2
J-3592	29	3.75	63.6
J-3593	12.9	0.95	69.4
J-3594	15.6	1.57	68.3
J-3595	16.4	2.25	67.9
J-3596	18.8	1.53	66.9
J-3597	39	0.88	58.1
J-3598	39	0.15	58.1
J-3599	37.9	0.39	58.6
J-3600	39	0.3	58.1
J-3601	43	3.26	56.4
J-3602	36.9	2.78	59
J-3603	39	0.85	58.2
J-3604	39.6	0.11	57.9
J-3605	39.8	0.4	57.8
J-3606	31	0	61.6
J-3607	42.9	0	56.5
J-3608	46.8	0.62	54.8
J-3609	49	2.06	53.9
J-3610	32	1.51	62.6
J-3611	31.6	1.41	62.8
J-3612	21.8	0.46	67.1
J-3613	21.3	2.95	67.4
J-3614	37.2	2.73	60.5
J-3615	39	0.66	59.7
J-3616	39	1	59.7
J-3617	29.9	3.4	63.9
J-3618	33.1	0	62.5
J-3619	35.5	0.95	61.5
J-3620	35.4	0.97	61.6
J-3621	39	10.58	60.1
J-3622	39	0.58	60.1
J-3623	39	0	60.1
J-3624	31.4	0.78	63.5
J-3625	39	1.14	60.2
J-3626	30.8	0	63.7
J-3627	19	2.46	68.9
J-3628	30.1	0.7	64.1
J-3629	39	0.24	60.2
J-3630	39	0.48	60.2
J-3632	19	0	68.7

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3633	30.4	0	63.7
J-3634	19.2	0	68.6
J-3635	32.9	0	62.6
J-3636	33.3	0	62.5
J-3637	31.1	0	63.5
J-3638	35.6	0	61.5
J-3639	39	0.24	60
J-3640	22.3	0	67.2
J-3641	32.3	0	62.9
J-3642	23.4	0	66.8
J-3643	32.3	0	62.9
J-3644	31.1	0	63.4
J-3645	34.2	0	62.1
J-3646	25.7	0	65.7
J-3647	29	2.9	64.3
J-3648	27.2	0	65.1
J-3650	27.3	0	65.1
J-3652	31.1	0.16	63.4
J-3653	32.6	1.11	62.8
J-3654	29.9	0.18	63.9
J-3655	34.5	2.22	61.9
J-3656	28.5	7.39	64.5
J-3657	23.6	0.12	66.6
J-3658	12.3	0	71.4
J-3659	17	0.04	69.4
J-3660	25.2	0.16	65.8
J-3661	27	3.05	65.1
J-3662	35.2	1.64	61.5
J-3663	20.8	0.2	67.8
J-3664	9	2.9	72.9
J-3665	13.7	4.05	70.8
J-3666	11.5	1.43	71.8
J-3667	23.9	0.25	66.4
J-3668	9	0	72.9
J-3669	16	0.22	69.9
J-3670	19.1	2.36	68.5
J-3671	28.8	0.62	64.3
J-3672	22.2	1.86	67.2
J-3673	20.9	1.45	67.7
J-3674	71.9	0	52.8
J-3675	65.4	0	55.6
J-3676	74.3	0	51.7

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3677	69.4	5.67	53.6
J-3678	69.7	3.13	53.5
J-3679	60.5	4.08	57.4
J-3680	69.5	3.31	53.5
J-3681	59	1.46	57.9
J-3682	58.7	0.03	58.3
J-3683	51.7	2.21	61.3
J-3684	59	1.86	56.8
J-3685	57.7	2.22	52
J-3686	59	0.84	51.4
J-3687	55.8	6.05	52.8
J-3688	59	0.8	51.4
J-3689	58.1	1.83	51.8
J-3690	57.4	0	52.1
J-3692	5	0.46	73.3
J-3693	8.5	1.8	71.7
J-3694	9	2.38	71.5
J-3695	9	1.04	71.5
J-3696	9	3.69	71.4
J-3697	9	2.66	71.4
J-3698	9	1.36	71.4
J-3699	9	2.89	71.3
J-3700	11.8	1.97	70.2
J-3701	9	1.07	71.4
J-3702	17.1	2.07	67.9
J-3703	9	1.76	71.4
J-3704	19	1.67	67
J-3705	11.7	0.57	70.2
J-3706	22.5	0.76	65.6
J-3707	9	0.04	71.4
J-3708	29	1.61	63.2
J-3709	28.8	1.81	63.3
J-3710	54.7	1.44	58.1
J-3711	59	1.22	56.2
J-3712	56.8	0.56	54
J-3713	52.2	0.42	56
J-3714	50.9	2.99	59.5
J-3715	36.2	0.08	65.9
J-3716	49	0	60.3
J-3717	52.7	1.59	58.6
J-3718	49	1.18	60.2
J-3719	49	1.88	60.2

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3720	49	1.57	60.2
J-3721	52.2	0	58.8
J-3722	51.2	0	59.2
J-3723	49.6	0	59.9
J-3724	51.1	0	59.2
J-3725	51.5	1.37	59
J-3726	50.4	1.57	59.5
J-3727	37.2	7.64	65.1
J-3728	48.5	1.09	60.2
J-3729	49	0	60
J-3730	49	0.12	60
J-3731	40.8	0.84	63.5
J-3732	28.8	1.97	68.4
J-3733	34.5	1.03	66.2
J-3734	40.2	2.64	63.2
J-3735	39.6	6.48	63.3
J-3736	35.8	0.5	64.9
J-3737	36.1	3.02	64.8
J-3738	37.5	358.89	59.7
J-3739	22.7	1.73	68.7
J-3740	24.5	0.95	70.3
J-3741	37.3	15.22	60
J-3742	39	3.94	60.8
J-3743	38.2	1.54	61.1
J-3744	39	1.15	62
J-3745	39	1.77	62
J-3746	38.2	3.26	61
J-3747	39	3.85	60.7
J-3748	39	1.34	62.3
J-3749	38.7	0.45	62.5
J-3750	39.2	0.85	63.7
J-3751	39	2.96	59.3
J-3752	39.8	1.14	61.1
J-3753	41.6	3.63	60.3
J-3754	42.7	0	62.6
J-3755	39.3	1.71	64.1
J-3756	49	0.98	60
J-3757	43.7	0.26	62.2
J-3758	42.9	3.48	62.5
J-3759	49.3	1.21	60.1
J-3760	49.3	0.75	60.1
J-3761	57.3	0	56.7

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3762	52.7	0.28	58.7
J-3763	57.6	0.75	56.6
J-3764	59	2.26	56
J-3765	57.6	1.69	56.7
J-3766	49	0.21	60.4
J-3767	9	2.27	71.7
J-3768	9	0.7	71.7
J-3769	9	0.28	71.7
J-3770	9	1.54	71.7
J-3771	9	9.78	71.7
J-3772	9	3.97	71.4
J-3773	9	4.77	71.7
J-3774	9	0.7	71.6
J-3775	9	2.09	71.6
J-3776	9	0.11	71.7
J-3777	12	13.53	70.5
J-3778	9	3.66	71.7
J-3779	9	3.3	71.7
J-3780	9	0.15	71.7
J-3781	13.6	3.15	69.8
J-3782	9	0.27	71.8
J-3783	9	0.7	71.8
J-3784	13.9	1.48	69.7
J-3785	9	0.13	71.8
J-3786	9	2.63	71.8
J-3787	16.3	1.26	68.6
J-3788	15.8	1.54	68.9
J-3789	17.6	1.3	68.1
J-3790	9.9	2.94	71.6
J-3791	20	5.12	67.2
J-3792	9.1	2.84	71.6
J-3793	1	3.27	75.1
J-3794	17.5	4.29	68
J-3795	17.5	0.84	68
J-3796	24.9	1.67	64.9
J-3797	24.8	0	65.4
J-3798	26.8	0	64.5
J-3799	24.8	2.93	65.4
J-3800	24.3	0.44	65.6
J-3801	23.7	5.34	65.8
J-3802	25.4	4.78	65.1
J-3803	26.9	6.02	64.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3804	27.6	2.18	64.3
J-3805	22.3	3.96	66.7
J-3806	29.4	2.24	63.6
J-3807	35.7	3.37	60.9
J-3808	31.1	3.8	63
J-3809	33.7	0.98	61.8
J-3810	26.9	0.81	64.7
J-3811	31.8	2.05	62.5
J-3812	30	1.6	63.3
J-3813	29	0.98	63.7
J-3814	29	0.66	63.7
J-3815	30	0	63.3
J-3816	29	5.55	63.5
J-3817	23.1	0.15	66.2
J-3818	28.9	0.48	63.6
J-3819	27.1	1.88	66
J-3820	16.8	1.58	70.4
J-3821	57.1	2.05	52.2
J-3822	49.8	0.04	54.1
J-3823	49	0.35	54.5
J-3824	49.8	0.39	54.2
J-3825	49.2	0.21	54.4
J-3826	50.9	0.49	53.8
J-3827	35.3	0.09	60.2
J-3828	29.1	0.2	62.9
J-3830	34.2	2.36	60.7
J-3831	44.4	2.79	56
J-3832	22.9	0	65.4
J-3833	39.3	7.8	58.3
J-3834	42	2.03	57.2
J-3835	31.8	3.42	61.5
J-3836	26.5	1.23	63.8
J-3837	19	2.31	67
J-3838	33.1	2.24	60.9
J-3839	33.3	2.16	60.8
J-3840	31.7	4.54	61.4
J-3841	35.3	0.95	59.9
J-3842	36.6	0.57	59.3
J-3843	39	2.81	58.3
J-3844	40.2	4.55	57.9
J-3845	41.5	1.27	57.3
J-3846	39	4.06	58.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3847	38.4	1.41	59.3
J-3848	39	1.74	58.2
J-3849	39	2.16	58.2
J-3850	39	2.68	58
J-3851	38.8	0.42	59.1
J-3852	39	1.52	59
J-3853	39	0.66	59
J-3854	38.8	1.57	59.1
J-3855	34.4	0.11	60.9
J-3856	35.1	4.33	60.6
J-3857	32.8	5.34	61.6
J-3858	38.9	0	59
J-3859	36.9	0.64	59.9
J-3860	38.4	0.31	59.2
J-3861	19.2	0.9	67.3
J-3862	20.1	0.16	66.9
J-3863	25	6.24	64.7
J-3864	28.1	0.91	63.3
J-3865	29.3	0	62.8
J-3866	32.4	7.73	61.4
J-3867	22	3.92	66
J-3868	33.5	4.59	60.9
J-3869	9	3.32	71.5
J-3870	25.7	1.05	64.2
J-3871	28.2	3.2	63.1
J-3872	30.6	2.6	62
J-3873	30.6	3.57	62
J-3874	29.2	1.6	62.7
J-3875	24.9	1.94	64.5
J-3876	21.6	2.43	65.9
J-3877	10.3	2.11	70.8
J-3878	23.4	1.49	65.2
J-3879	7.4	1.23	72
J-3880	25.6	0.33	64.2
J-3881	20	2.73	66.6
J-3882	26.4	4.97	63.8
J-3883	8.1	1.81	71.8
J-3884	9	1.64	71.3
J-3885	9	2.94	71.3
J-3887	9	0.06	71.5
J-3888	5	1.67	73.2
J-3889	9	4.94	71.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3890	10.9	0.39	70.9
J-3891	9	1.95	71.6
J-3892	9	0.5	71.7
J-3893	9.8	0.86	71.3
J-3894	9	0	71.6
J-3895	9.4	0.5	71.5
J-3896	9	0.26	71.7
J-3897	11.8	0.33	70.4
J-3898	9	2.21	71.6
J-3899	9	0.96	71.6
J-3900	10.6	2.24	70.9
J-3901	20.6	0.25	66.4
J-3902	19.3	0.04	66.9
J-3903	31.3	9.59	61.7
J-3904	15.5	4.52	68.6
J-3905	9	0.04	71.4
J-3906	28.2	1.98	62.9
J-3907	19	1.05	66.8
J-3908	23.9	1.62	64.8
J-3909	33.4	3.12	60.6
J-3910	23	1.43	65.1
J-3911	29	1.04	62.5
J-3912	25.2	4.39	64.2
J-3913	27	1.07	63.4
J-3914	13.7	1.04	69.1
J-3915	21.9	0.56	65.6
J-3916	14.7	1.38	68.7
J-3917	16.3	1.13	68
J-3918	20.1	2.09	66.4
J-3919	19	0.41	66.8
J-3920	15.4	1.35	68.3
J-3921	19	2.77	66.7
J-3922	20.4	1.46	66.2
J-3923	16.8	2.14	67.7
J-3924	16.1	0.74	68.1
J-3925	16	1.49	68.1
J-3926	19	2.92	66.8
J-3927	19.9	0.89	66.4
J-3928	24.7	0.71	64.3
J-3929	19	1.56	66.8
J-3930	19	3.85	66.8
J-3931	19	0.92	66.8

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3932	19	0.89	66.8
J-3933	12.2	2.85	69.7
J-3934	9	0.86	71.1
J-3935	19	0.73	66.8
J-3936	18.9	1.41	66.8
J-3937	18.9	1.16	66.8
J-3938	11.5	2.38	70
J-3939	12.8	1.99	69.4
J-3940	9.7	0.46	70.8
J-3941	9	1.09	71.1
J-3942	9	0.7	71.1
J-3943	9	3.52	71
J-3944	11.6	4.64	70
J-3946	6	3.44	72.4
J-3947	9	0.7	71.1
J-3948	28.5	0.76	62.7
J-3949	29	0.79	62.5
J-3950	27	0.53	63.4
J-3951	13.1	0.81	69.4
J-3952	25.9	0.83	63.8
J-3953	24.3	1.53	64.5
J-3955	39	0.08	64.9
J-3956	68	0.67	48
J-3957	29	2.71	64.8
J-3958	25.4	2.66	66.1
J-3959	9	7.78	70.4
J-3960	94.8	0	41.6
J-3961	94.5	0	69.4
J-3962	59	0.08	84.8
J-3963	7.3	1.4	74
J-3964	9	0.75	71.9
J-3965	17.1	1.83	68.4
J-3969	13.5	0.83	69.7
J-3971	70	1.09	44.1
J-3972	20	0.34	65.6
J-3973	40.4	5.26	56.7
J-3974	26.6	2.26	64.1
J-3975	8.5	2.51	70.6
J-3976	39	0	62.3
J-3977	10.4	0.65	69.7
J-3978	12.8	0	68.7
J-3979	11.7	0.25	69.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-3980	46	0.86	54.8
J-3981	48	0.73	53.8
J-3982	25	1.52	64.1
J-3984	27	5.13	63.2
J-3986	35	6.02	59.7
J-3987	39	2.05	57.7
J-3988	42	0	56.3
J-3989	46	1.56	54.3
J-3990	59.1	0	49
J-3991	53.1	0	51.6
J-3992	53.2	1.78	51.6
J-3993	53.5	1.47	51.4
J-3994	42	1.17	56.4
J-3995	96.3	0.31	32.7
J-3996	15.1	1.22	67.8
J-3997	9	2.7	70.4
J-3998	75	1.01	41.8
J-3999	86	0.1	37.2
J-4000	6	1.42	71.6
J-4001	19	0.96	66
J-4002	42	9.88	55.7
J-4003	49	0.24	53.2
J-4004	20	7.11	67.3
J-4005	21.7	0	67.4
J-4006	26.4	3.82	64.9
J-4007	14.4	1.24	69.9
J-4008	40.5	0.33	59.8
J-4009	43.7	0.21	57.9
J-4010	46.8	1.08	54.3
J-4011	9	0	70.3
J-4012	3	0	72.9
J-4013	1	0.37	73.8
J-4014	1	14.02	73.8
J-4015	1	0	73.8
J-4016	1	0	73.8
J-4017	1	0	73.8
J-4018	17.6	1.27	68.1
J-4019	18.7	1.17	67.6
J-4020	25.8	2.19	64.5
J-4021	97.3	0	33.7
J-4022	21.5	0	67.5
J-4023	10.7	2.19	69.6

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-4024	11.9	0.16	69
J-4025	9.7	0.23	70
J-4026	20.5	3.97	66.8
J-4027	34.1	2.75	61.8
J-4028	19	0	68.4
J-4029	36	0	59.9
J-4030	36	0	59.9
J-4031	24.2	0	65.1
J-4032	14.3	1.25	69.4
J-4033	17.5	2.34	68
J-4034	27.6	2.1	63.7
J-4035	29	1.28	63.1
J-4036	25.2	1.28	64.2
J-4037	31.7	4.93	62.1
J-4039	49.5	3.46	55.3
J-4040	24.2	3.14	65.8
J-4041	46.6	0.66	56.9
J-4042	25	1.64	66.6
J-4043	59	1.08	51.9
J-4044	58.6	3.74	52
J-4045	18.3	2.56	69.7
J-4046	11.9	1.58	72.6
J-4047	42.9	3.03	59.1
J-4048	47.8	0.69	54.8
J-4049	111.2	0	27.7
J-4050	40.9	1.49	58
J-4051	45.1	5.5	56.2
J-4052	36.9	0.82	59.8
J-4053	46.2	4.86	55.7
J-4054	45.2	2.89	56.1
J-4055	19	1.1	67.3
J-4056	22.3	1.21	65.9
J-4057	16.2	1.45	68.2
J-4058	10	1.91	71
J-4059	17.2	1.9	67.4
J-4060	11.2	1.99	70
J-4061	9	1.42	70.4
J-4062	9	6.72	69.6
J-4063	8.7	2.96	71.2
J-4064	10.7	1.94	70.4
J-4065	34.1	1.24	59.6
J-4066	29.8	0.99	61.5

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-4067	42.9	0.28	55.7
J-4068	32.2	0.49	60.3
J-4069	69.9	1.1	44
J-4070	51.4	0	52.2
J-4071	16	0.61	67.7
J-4072	49.6	0.73	53.2
J-4073	31.2	1.09	61.4
J-4074	56.7	1.78	51.4
J-4075	38.9	0.71	59
J-4077	10.2	2.95	70
J-4078	12.5	1.2	69.9
J-4079	11.8	2.96	70.3
J-4080	8.6	0.47	71.8
J-4082	14	8.38	69.5
J-4083	23.1	3.52	65.7
J-4084	23.1	1.95	65.6
J-4085	16	1.84	68.7
J-4086	10.7	0.93	71
J-4087	13.8	2.8	69.6
J-4088	13	2.76	69.9
J-4089	10.1	1.53	71.2
J-4090	9.1	1.3	71.6
J-4091	8.7	0.78	71.8
J-4092	8.5	0.95	71.9
J-4093	8.3	0.7	72
J-4094	7	1.41	72.4
J-4095	5	17.34	73.4
J-4096	5.3	0	73.3
J-4097	7.1	6.64	72.5
J-4098	12.5	1.6	70.2
J-4099	21.2	3.58	66.8
J-4100	23.3	0.81	65.8
J-4101	32.2	4.59	62
J-4102	19.9	2.74	68.1
J-4103	19.6	1.75	68.3
J-4104	35	3.22	61.4
J-4105	26	2.81	65
J-4106	38.8	0	57.7
J-4107	41.1	0	56.7
J-4108	40	0	57.2
J-4109	52	0	52
J-4111	39.7	0	57.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-4112	49.1	3.56	53.4
J-4113	24.5	0.37	64
J-4114	29.1	0.44	62.9
J-4115	25.8	1.45	64.3
J-4117	10.9	0	70.9
J-4118	10.3	0	71.1
J-4119	17.6	1.24	68
J-4120	20.8	2.3	66.6
J-4121	27.9	0.9	63.6
J-4122	34.1	0.31	61.1
J-4123	7	0.12	72.5
J-4124	12.9	3.6	69.4
J-4125	18.1	2.25	67.4
J-4126	24.5	2.6	64.7
J-4127	20.9	1.71	66
J-4128	25.1	1.03	64.2
J-4129	21.1	1.78	65.9
J-4130	28.8	2.92	62.5
J-4131	29	0	62.5
J-4132	24.5	0.5	64.4
J-4133	25.6	7.12	63.9
J-4134	40.5	1.32	63.5
J-4135	39.2	3.29	63.4
J-4136	40	3.09	63.3
J-4137	31.3	2.27	64.3
J-4138	42.4	3.27	60.5
J-4139	130.7	1	22.3
J-4140	130.4	1.09	22.4
J-4141	52.8	0.5	56.7
J-4142	45	2.03	60.1
J-4143	38.6	1.57	63.9
J-4144	68.6	2.01	52.2
J-4145	48.3	1.93	55.4
J-4146	39	1.75	59.5
J-4147	36	1.88	59.4
J-4148	128.2	0	55.5
J-4149	130	0	54.8
J-4153	6.6	0	72.7
J-4154	8.6	0	71.8
J-4155	11	1.08	70.8
J-4156	0	0	75.5
J-4157	10.8	0.66	70.9

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-4158	0	0.19	75.6
J-4159	10.5	0.63	71
J-4160	10.3	0	71.1
J-4163	0	0.29	75.6
J-4164	18.4	0.53	67.6
J-4165	18.5	1.05	67.6
J-4166	17	0.4	69
J-4167	16	2.66	69.4
J-4168	10	0.57	72
J-4169	54	5.18	50.6
J-4170	46	1.44	54.7
J-4171	14	4.19	69.8
J-4172	22.1	2.78	66.3
J-4173	14	2.15	69.6
J-4175	9.2	1.85	71.6
J-4176	7	3.67	72.5
J-4177	16.4	2.45	68.2
J-4178	20	3.2	66.3
J-4179	41.9	3.46	57.2
J-4180	31	0.88	61.9
J-4181	40	1.09	63.9
J-4182	39	0	64.6
J-4183	54	0	60.6
J-4185	92	0.13	42
J-4186	89	0.35	43.3
J-4187	88	0.77	43.7
J-4188	5	5.17	73.5
J-4189	15	4.48	68.8
J-4190	13	0.85	72
J-4191	11	2.61	72.7
J-4192	73	1.87	50.2
J-4193	20.6	0	66.6
J-4194	15.8	0	68.7
J-4195	22.8	0	65.7
J-4196	17.3	0	68.1
J-4197	23.3	0	65.5
J-4198	21.2	0	66.4
J-4199	22.9	0	65.7
J-4200	21.9	0	66.1
J-4201	26.3	0	64.1
J-4202	26.5	0	64.1
J-4203	27.9	0	63.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-4204	28.4	0	63.4
J-4205	27.9	0	63.7
J-4206	29	0	63.3
J-4207	28.6	0	63.4
J-4208	28.6	0	63.4
J-4209	29	0	63.2
J-4210	27.4	0	63.9
J-4211	27.7	0	63.7
J-4212	24.8	0	65
J-4213	25.2	0	64.8
J-4215	22.7	0	65.9
J-4216	23	0	65.7
J-4217	22.8	0	65.8
J-4218	23.2	0	65.6
J-4219	21	0	66.6
J-4220	21.2	0	66.5
J-4221	19.2	0	67.3
J-4222	19.1	0	67.4
J-4223	19.5	0	67.2
J-4224	19.4	0	67.2
J-4225	19.3	0	67.3
J-4226	19	0	67.4
J-4227	18.9	0	67.5
J-4228	19.1	0	67.3
J-4229	18.6	0	67.6
J-4230	19	0	67.4
J-4231	16.6	0	68.4
J-4232	17	0	68.3
J-4233	14.9	0	69.2
J-4234	14.9	0	69.1
J-4235	13.8	0	69.6
J-4236	13.8	0	69.6
J-4237	12.4	0	70.3
J-4238	12.5	0	70.2
J-4239	10.8	0	70.9
J-4240	11.2	0	70.7
J-4241	9.3	0	71.6
J-4243	9.3	0	71.6
J-4244	8.1	0	72.1
J-4245	8	0	72.1
J-4246	7.4	0	72.4
J-4247	7.4	0	72.4

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-4248	6.9	0	72.6
J-4249	6.7	0	72.7
J-4250	6.2	0	72.9
J-4251	6.2	0	72.9
J-4252	5.7	0	73.1
J-4253	5.7	0	73.1
J-4254	5.1	0	73.4
J-4255	5.1	0	73.4
J-4257	4.4	0	73.7
J-4258	4.4	0	73.7
J-4259	4.6	0	73.6
J-4261	4.3	0	73.7
J-4262	4.5	0	73.6
J-4263	4.3	0	73.7
J-4264	4.5	0	73.6
J-4265	4.4	0	73.7
J-4266	4.4	0	73.7
J-4267	4.8	0	73.5
J-4268	4.6	0	73.6
J-4269	4.4	0	73.7
J-4270	28.5	0	63.5
J-4271	29	0	63.3
J-4272	28.5	0	63.6
J-4273	29	0	63.4
J-4274	28.7	0	63.5
J-4275	20.2	0	67.2
J-4277	21.5	0	66.7
J-4278	29	0	63.5
J-4279	31.6	0	62.5
J-4280	31.5	0	62.6
J-4282	15	0	69.8
J-4283	15.5	0	69.8
J-4284	26.7	0	64.9
J-4285	21.2	0	67.3
J-4286	14.3	0	70.1
J-4287	34.3	0	61.4
J-4288	20.2	0	67.5
J-4289	17.8	0	68.6
J-4290	16.9	0	68.7
J-4291	16.7	0	68.9
J-4294	12.4	0	70.6
J-4295	27	0	65.3

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-4296	21.3	0	67.8
J-4297	15.1	0	70.4
J-4298	9.1	0	73.2
J-4299	9.1	0	73.2
J-4300	9	0	73.2
J-4301	9	0	73.2
J-4302	13.9	0	68.6
J-4303	17.4	0	67
J-4304	31	0	61.1
J-4305	31.4	0	61
J-4306	31.5	0	60.9
J-4307	31.5	0	60.9
J-4308	31.8	0	60.8
J-4309	33.2	0	60.2
J-4310	24.1	0	64.1
J-4311	30.7	0	61.2
J-4312	18.6	0	66.2
J-4313	14.7	0	67.8
J-4314	11.4	0	69.3
J-4315	9.8	0	70
J-4316	22.7	0	64.5
J-4317	5.3	0	72.5
J-4318	15.1	0	69
J-4319	12.8	0	69.8
J-4320	11.9	0	70.2
J-4321	19.3	0	67.3
J-4322	30.4	0	62
J-4323	29.5	0	62.4
J-4324	12.4	0	69.6
J-4325	36.4	0	65.9
J-4326	22.5	0	65.7
J-4327	28.1	0	65
J-4328	29	0	64.6
J-4329	22	0	65.9
J-4330	0	0	75.4
J-4331	21.4	0	66.2
J-4332	20.8	0	66.5
J-4333	14.3	0	69.3
J-4336	20.6	0	66.5
J-4337	14.3	0	69.3
J-4338	20.5	0	66.6
J-4339	14.8	0	69.1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-4340	20.4	0	66.6
J-4341	14.9	0	69
J-4342	20.1	0	66.8
J-4343	16.8	0	68.2
J-4344	19.8	0	66.9
J-4345	18	0	67.7
J-4346	19.6	0	67
J-4347	19	0	67.3
J-4348	19.4	0	67.1
J-4349	20.2	0	66.7
J-4350	19.1	0	67.2
J-4351	19	0	67.3
J-4352	18.7	0	67.4
J-4353	20.1	0	66.8
J-4354	18.6	0	67.4
J-4355	20	0	66.9
J-4356	18.3	0	67.6
J-4357	19.3	0	67.1
J-4358	17.8	0	67.8
J-4359	18.8	0	67.4
J-4360	17.5	0	67.9
J-4361	18.8	0	67.4
J-4362	17.3	0	68
J-4363	15	0	69
J-4364	17.1	0	68.1
J-4365	15.5	0	68.8
J-4366	16.6	0	68.3
J-4367	17.1	0	68.1
J-4368	16	0	68.6
J-4369	19	0	67.3
J-4370	18.8	0	67.4
J-4371	15.6	0	68.8
J-4372	17	0	68.2
J-4373	15.6	0	68.8
J-4374	16.8	0	68.3
J-4375	15	0	69.1
J-4376	12.3	9.81	70.3
J-4377	14.5	0	69.3
J-4378	12.7	0	70.2
J-4379	14.4	0	69.4
J-4380	13.3	0	69.9
J-4381	14	0	69.7

Junction Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)
J-4382	13.6	0	69.8
J-4383	13.9	0	69.7
J-4384	13.4	0	69.9
J-4385	13.8	0	69.7
J-4386	23.1	0	65.7
J-4389	10.6	0	71
J-4390	8.8	0	71.7
J-4391	8.6	0	71.8
J-4393	8.6	0	71.8
J-4396	4.3	0	73.7
J-4397	9.9	0	71.2
J-4398	12.5	0	70.1
J-4399	38.8	0	59.1
J-4400	83.3	0	40.5
J-4401	46.4	0	54.4
J-4402	132.1	0	20.7
J-4403	141.8	0	16.5
J-4405	12.5	0	70.3
J-4406	74.1	0	42.3
J-4407	48.8	0	53.3

Tank Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Diameter (ft)	Elevation (Base) (ft)	Elevation (Maximum) (ft)	Elevation (Initial) (ft)
Technology Park Tank	98	150	205	200
Hayway Road Tank	100	165	205	200
Mares Pond	100	165	205	200
Technology Park HS Tank	70	225	260	255

Pump Input Data
Capital Efficiency Plan™
Falmouth, Massachusetts

Label	Elevation (ft)	Hydraulic Grade (Discharge) (ft)	Head (Design) (ft)	Flow (Design) (gpm)	Pump Head (ft)	Flow (Absolute) (gpm)
FRESH POND PUMP	-30	174.9	256	700	0	0
MARES POND PUMP	-23	190.3	240	350	175.35	210
BALLYMEADE BOOSTER	0	254.5	290	400	0	0
TECH PARK BOOSTER	150	257.3	90	850	0	0
TECH PARK BOOSTER 2	150	257.6	90	850	59.92	850
CROOKED POND PUMP	75	189	250	1,200.00	0	0
COONAMESSETT PUMP	75	189	251	690	0	0
Long Pond 1	39	183.2	(N/A)	(N/A)	144.47	2,100.00
Long Pond 2	39	183.1	(N/A)	(N/A)	0	0
Long Pond 3	39	183.1	(N/A)	(N/A)	0	0

Appendix C

TATA & HOWARD

10. County Road, Pine Bank Road and Riverway
New 8-inch water main

13. Homer Avenue
New 8-inch water main

Emergency Interconnection with Bourne Water District

1. Nathan Ellis Highway
New 16-inch water main

5. Wild Harbor Road and Point Road
New 8-inch water main

4. Cliff Road, Naushon N, Uncatena N, Naushon Road S, and Naushon Circle
New 8-inch water main

6. Little Island Road
New 8-inch water main

29. Black Beach Hills Road

27. Indian Ridge Road

3. Saconesset Road, Arnold Gifford Road, Peace Pipe Road, Wigwam Road, Indian Ridge Road, and Salt Works Way
New 8-inch water main

18. Cape Codder Road

28. Langley Road

30. Greengate Road

23. Ransom Road

33. Onawa Lane

7. Whitman Road, Gardiner Road, and Gansett Road
New 8-inch water main

9. Nobska Road
New 8-inch water main

2. Falmouth Heights Road and Grand Avenue
New 12-inch water main

32. Virtue Circle

Long Pond WFF

Crooked Pond WTP

Crooked Pond Well

Technology Park High Service Tank
Capacity: 1.0 MG
Overflow Elevation: 260 feet

Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet

Technology Park Booster Pump Station

Mares Pond Well

Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet

25. Figuerido Way

31. Pina Lane

8. Thatcher's Lane
New 8-inch water main

Coonamessett Well

MMR Metering Station & Chemical Feed Facility

Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet

Emergency Interconnection with Mashpee Water District

Fresh Pond Well

Emergency Interconnection with Mashpee Water District

22. Pires Way

11. Waquoit Landing Road
New 8-inch water main

12. Captains Lane
New 8-inch water main

12. Connect Captains Lane and Shaker Lane to 12-inch water main on Davisville Road

24. English Street

17. Cypress Street

20. Philadelphia Street

21. Bourne Street

15. Providence Street, Great Bay Street, and Hiawatha Street

19. Hamilton Street

16. Brockton Street

14. Longfellow Road
New 8-inch water main

26. Edgewater Drive West

BOURNE

SANDWICH

FALMOUTH

MASHPEE

Wild Harbor

West Falmouth Harbor

Quissett Harbor

Great Harbor

Cedar Lake

Wings Pond

Crooked Pond

Deep Pond

Coonamessett Pond

Ashumet Pond

Round Pond

Jenkins Pond

Mares Pond

Long Pond

Green Pond

Flume Pond

Grews Pond

Jones Pond

Morse Pond

Sidney Pond

Little Pond

Great Pond

Salt Pond

Oyster Pond

Bournes Pond

Eel Pond

Fresh Pond

Hamblin Pond

Waquoit Bay

Legend

- Priority 1 Deficiency
- Priority 2A Deficiency
- Priority 2B Deficiency

Water Main Diameter

- 4-inch and smaller
- 6-inch
- 8-inch
- 10-inch
- 12-inch
- 16-inch
- 18-inch
- 20-inch
- 24-inch
- Raw Water
- High Service Area

Priority 1 and Priority 2 Hydraulic Deficiencies

Falmouth Water Department
Falmouth, Massachusetts

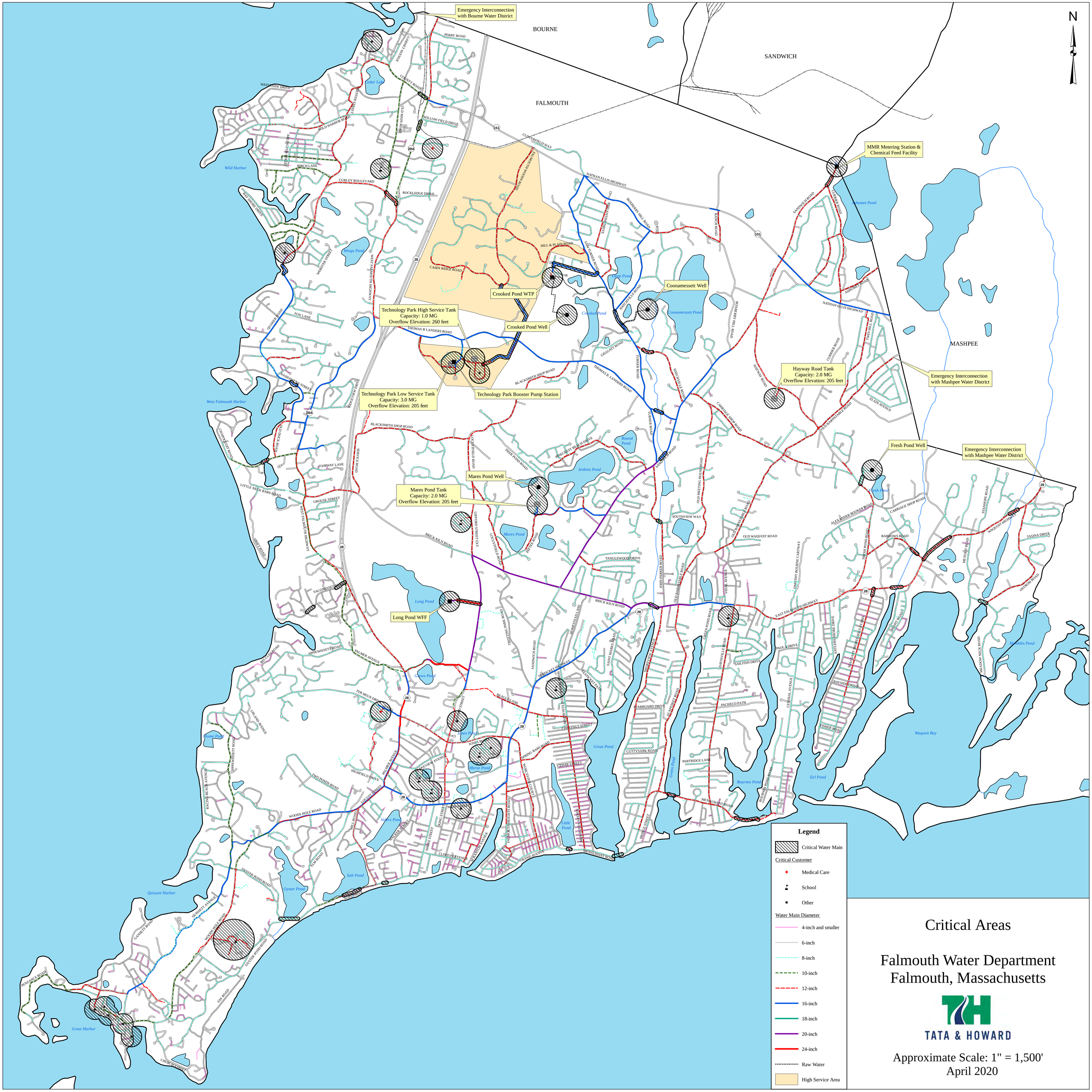
TATA & HOWARD

Approximate Scale: 1" = 1,500'
April 2020

N
Emergency Interconnection with Bourne Water District
BOURNE
SANDWICH
FALMOUTH
MASHPEE
MMR Metering Station & Chemical Feed Facility
Anchorage Road New 8-inch water main
Wild Harbor Road New 12-inch water main
Downer Road New 8-inch water main
Hillside Avenue & Norma Road New 8-inch water main
Nauset Avenue E New 8-inch water main
Crooked Pond WTP
Coonamessett Well
Technology Park High Service Tank Capacity: 1.0 MG Overflow Elevation: 260 feet
Crooked Pond Well
Technology Park Low Service Tank Capacity: 3.0 MG Overflow Elevation: 205 feet
Technology Park Booster Pump Station
Twin Hill Road to Doran Drive and Doran Drive to Edmar Road New 8-inch water main
Hayway Road Tank Capacity: 2.0 MG Overflow Elevation: 205 feet
Emergency Interconnection with Mashpee Water District
Hayway Road New 12-inch water main
Lakewood Drive New 8-inch water main
Fresh Pond Well
Emergency Interconnection with Mashpee Water District
Carriage Shop Road New 8-inch water main
Mares Pond Well
Parker Mills Road New 8-inch water main
Mares Pond Tank Capacity: 2.0 MG Overflow Elevation: 205 feet
Owls Nest Road New 8-inch water main
Brick Kiln Road New 8-inch water main
Old Barnstable Road New 12-inch water main
Edgewater Drive West New 12-inch water main
Long Pond WFF
Thatcher's Lane New 8-inch water main
Theroux Drive New 8-inch water main
Childs River Road New 8-inch water main
Standish Avenue New 8-inch water main
Woodrise Road New 8-inch water main
Sandpiper Circle New 8-inch water main
Spring Bars Road New 8-inch water main
Riddle Hill Road New 8-inch water main
Depot Avenue New 12-inch water main
Dillingham Avenue New 8-inch water main
Shoreview Avenue New 8-inch water main
Ipswich Drive New 8-inch water main
Gosnold Road New 8-inch water main
Wild Harbor
West Falmouth Harbor
Quissett Harbor
Great Harbor
Cedar Lake
Wings Pond
Ashumet Pond
Deep Pond
Coonamessett Pond
Crooked Pond
Round Pond
Jenkins Pond
Fresh Pond
Mares Pond
Long Pond
Gaws Pond
Jones Pond
Morse Pond
Hamblin Pond
Waquoit Bay
Eel Pond
Bournes Pond
Great Pond
Green Pond
Little Pond
Sidney Pond
Salt Pond
Oyster Pond
Hume Pond
PERRY ROAD
COUNTY ROAD
WILLOW FIELD DRIVE
CLOVERFIELD WAY
NATHAN ELLIS HIGHWAY
BOXBERRY HILL ROAD
SANDWICH ROAD
CURRIER ROAD
ASHUMET ROAD
TWIN HILL ROAD
HILL & PLAIN ROAD
SAM TURNER ROAD
HATCH HILL ROAD
CAIRN RIDGE ROAD
ROCKLEDGE DRIVE
CURLEY BOULEVARD
BIRCH LANE
WILD HARBOR ROAD
WATERSIDE DRIVE
BAY SHORE DRIVE
WEBSTER STREET
WEST FALMOUTH HIGHWAY
QUAKER ROAD
FOX LANE
THOMAS B LANDERS ROAD
GEGGATT ROAD
TURNER ROAD
BLACKSMITH SHOP ROAD
NASHAWENA STREET
RIDGE VIEW DRIVE
SERVICE ROAD
CHAPOQUOIT ROAD
FAIRWAY LANE
LITTLE NECK BARS ROAD
GROUSE STREET
BRIEF ROAD
DEER POND ROAD
HENCHEST BEACH DRIVE
OLD MEETING HOUSE ROAD
OLD BARNSTABLE ROAD
SOUTHVIEW WAY
CARRIAGE SHOP ROAD
ALEX WATER BOOKER ROAD
BARROWS ROAD
STANDPIPE ROAD
WAQUOIT HIGHWAY
TASINA DRIVE
OSTRUM ROAD
MEADOW NECK ROAD
FRESH POND ROAD
TIMOTHY BOURNE CARTWAY
EAST FALMOUTH HIGHWAY
OLD WAQUOIT ROAD
MENAUHANT ROAD
BRICK KILN ROAD
GIFFORD STREET
GIFFORD STREET EXT.
LOCUSTFIELD ROAD
WATER ROAD
TANGLEWOOD DRIVE
SANDWICH ROAD
TRACTICKET HIGHWAY
BEACH PLANE
JONES ROAD
CHESTNUT STREET
CEDAR STREET
WORCESTER COURT
CUTTYSARK ROAD
STARBOARD DRIVE
CAPECOD ROAD
PACHECO PATH
PARTRIDGE LANE
NEWVILLE ROAD
BAYSIDE DRIVE
CENTRAL AVENUE
FISHER ROAD
SCRANTON AVENUE
CLINTON AVENUE
GRAND AVENUE
MAIN STREET
KING STREET
SPRING STREET
MILL STREET
HIGHFIELD DRIVE
PALMER AVENUE
LAKEVIEW AVENUE
TWO PONDS ROAD
WOODS HOLE ROAD
OYSTER POND ROAD
QUISSETT AVENUE
GANNETT ROAD
SURF DRIVE
SACONNESSET ROAD
SIPPEWISSETT ROAD
RACING BEACH AVENUE
BECCO ROAD
PALMER AVENUE
TER HEUN DRIVE
PENZANCE ROAD
WATER STREET
FAY ROAD
CHURCH STREET
ELAIN AVENUE
HATHAWAY ROAD
CARRIAGE SHOP ROAD
OLD BARNSTABLE ROAD
JOHN PARKER ROAD
VIOLET AVENUE
GREEN POND ROAD
PAOLA DRIVE
CASTLES MORE DRIVE
MASHPEE ROAD
EDGEWATER DRIVE
TIMOTHY BOURNE CARTWAY
BOXBERRY HILL ROAD
RANDI ROAD
Legend
Priority 3 Deficiency
Water Main Diameter
4-inch and smaller
6-inch
8-inch
10-inch
12-inch
16-inch
18-inch
20-inch
24-inch
Raw Water
High Service Area
Priority 3
Hydraulic Deficiencies
Falmouth Water Department
Falmouth, Massachusetts
TATA & HOWARD
Approximate Scale: 1" = 1,500'
April 2020

Appendix D

TATA & HOWARD


N
BOURNE
SANDWICH
FALMOUTH
MASHPEE
Emergency Interconnection with Bourne Water District
MMR Metering Station & Chemical Feed Facility
Coonamessett Well
Crooked Pond WTP
Crooked Pond Well
Technology Park High Service Tank
Capacity: 1.0 MG
Overflow Elevation: 260 feet
Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet
Technology Park Booster Pump Station
Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Emergency Interconnection with Mashpee Water District
Fresh Pond Well
Emergency Interconnection with Mashpee Water District
Mares Pond Well
Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Long Pond WFF
Cedar Lake
Wild Harbor
Wings Pond
Crooked Pond
Coonamessett Pond
Ashumet Pond
Round Pond
Jenkins Pond
Fresh Pond
Mares Pond
Long Pond
Green Pond
Hamblin Pond
Waquoit Bay
Eel Pond
Bournes Pond
Great Pond
Morse Pond
Jones Pond
Ames Pond
Snows Pond
Little Pond
Sluice Pond
Salt Pond
Oyster Pond
Quissett Harbor
West Falmouth Harbor
Great Harbor
Legend
Critical Water Main
Critical Customer
Medical Care
School
Other
Water Main Diameter
4-inch and smaller
6-inch
8-inch
10-inch
12-inch
16-inch
18-inch
20-inch
24-inch
Raw Water
High Service Area
Critical Areas
Falmouth Water Department
Falmouth, Massachusetts
TATA & HOWARD
Approximate Scale: 1" = 1,500'
April 2020

Appendix E

TATA & HOWARD

Emergency Interconnection with Bourne Water District

BOURNE

SANDWICH

FALMOUTH

MASHPEE

UCRWSC Interconnection (MMR Metering Station & Chemical Feed Facility)

Ashumet Pond

Coonamessett Well

Crooked Pond WTP

Crooked Pond Well

Technology Park High Service Tank
Capacity: 1.0 MG
Overflow Elevation: 260 feet

Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet

Technology Park Booster Pump Station

Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet

Emergency Interconnection with Mashpee Water District

Fresh Pond Well

Emergency Interconnection with Mashpee Water District

Mares Pond Well

Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet

Long Pond WFF

Wild Harbor

West Falmouth Harbor

Quissett Harbor

Great Harbor

Waquoit Bay

Eel Pond

Bournes Pond

Green Pond

Great Pond

Morse Pond

Jones Pond

Gunns Pond

Long Pond

Mares Pond

Jenkins Pond

Round Pond

Fresh Pond

Coonamessett Pond

Crooked Pond

Deep Pond

Wings Pond

Cedar Lake

Hamblin Pond

Flume Pond

Sides Pond

Salt Pond

Oyster Pond

Little Pond

Legend

Asset Management Rating

- Good - Excellent
- Fair - Good
- Poor - Fair
- Raw Water
- High Service Area

Asset Management Rating

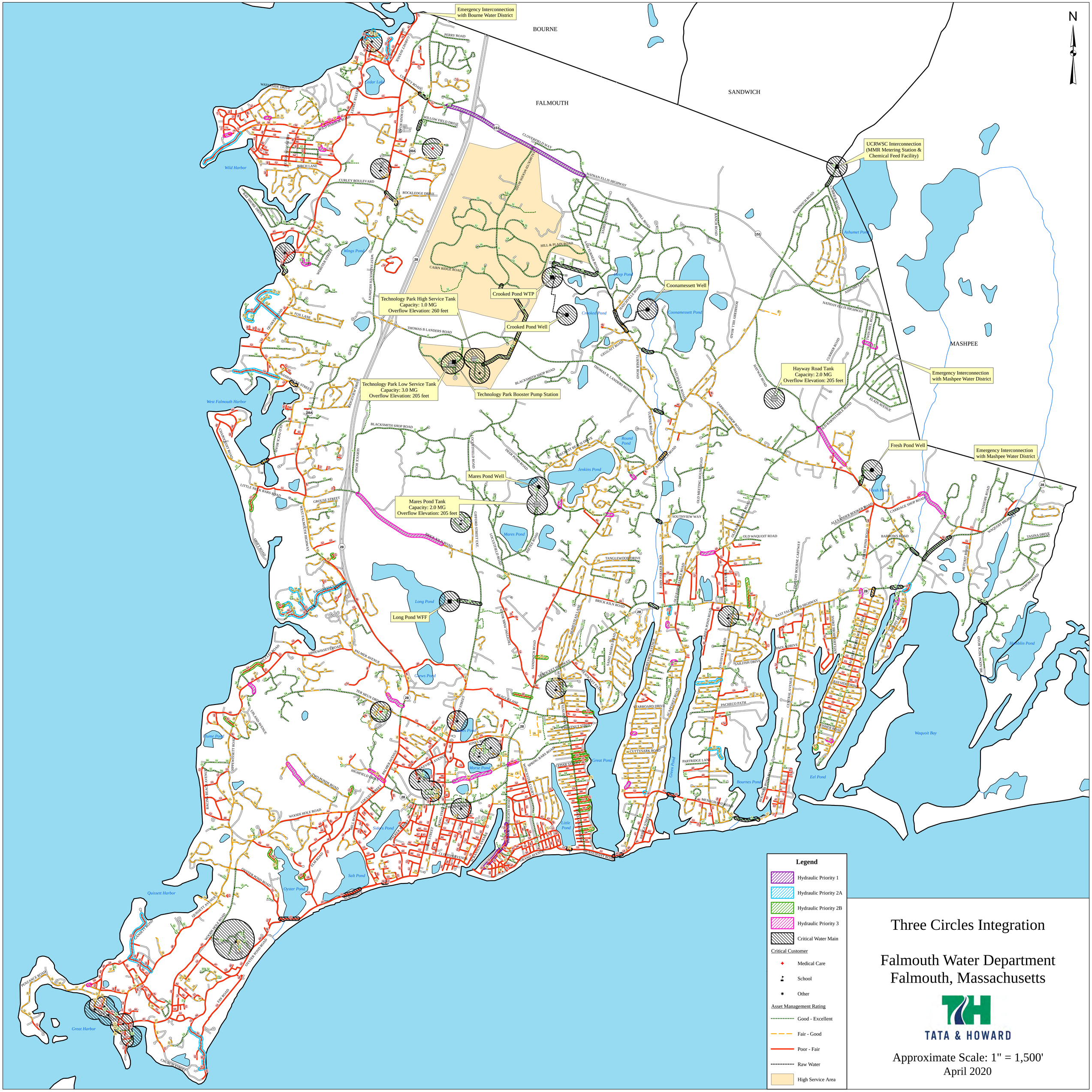
Falmouth Water Department
Falmouth, Massachusetts

TATA & HOWARD

Approximate Scale: 1" = 1,500'
April 2020

Appendix F

TATA & HOWARD


Emergency Interconnection with Bourne Water District
BOURNE
SANDWICH
FALMOUTH
MASHPEE
UCRWSC Interconnection (MMR Metering Station & Chemical Feed Facility)
Coonamessett Well
Crooked Pond WTP
Crooked Pond Well
Technology Park High Service Tank Capacity: 1.0 MG Overflow Elevation: 260 feet
Technology Park Low Service Tank Capacity: 3.0 MG Overflow Elevation: 205 feet
Technology Park Booster Pump Station
Hayway Road Tank Capacity: 2.0 MG Overflow Elevation: 205 feet
Emergency Interconnection with Mashpee Water District
Fresh Pond Well
Emergency Interconnection with Mashpee Water District
Mares Pond Well
Mares Pond Tank Capacity: 2.0 MG Overflow Elevation: 205 feet
Long Pond WFF
Wild Harbor
West Falmouth Harbor
Great Harbor
Quissett Harbor
Cedar Lake
Wings Pond
Deep Pond
Coonamessett Pond
Ashumet Pond
Round Pond
Jenkins Pond
Fresh Pond
Mares Pond
Long Pond
Green Pond
Flume Pond
Morse Pond
Sides Pond
Salt Pond
Oyster Pond
Little Pond
Great Pond
Bournes Pond
Eel Pond
Waquoit Bay
Hamblin Pond
WATERSIDE DRIVE
PERRY ROAD
COUNTY ROAD
OLD MAIN ROAD
WILLOW FIELD DRIVE
WILD HARBOR ROAD
BIRCH LANE
CURLEY BOULEVARD
ROCKLEDGE DRIVE
WEBSTER STREET
WEST FALMOUTH HIGHWAY
CAIRN RIDGE ROAD
CLOVERFIELD WAY
NATHAN ELLIS HIGHWAY
HILL & PLAIN ROAD
SAM TURNER ROAD
HATCHVILLE ROAD
BOXBERRY HILL ROAD
TUNNEL ROAD
SANDWICH ROAD
CORNHILL ROAD
ASHUMET ROAD
TWIN PONDS ROAD
CURRIER ROAD
HAYWAY ROAD
OLD BARNSTABLE ROAD
ELAIN AVENUE
FOX LANE
OAKRIDGE ROAD
THOMAS B LANDERS ROAD
GEGGATT ROAD
TURNER ROAD
BLACKSMITH SHOP ROAD
RIDGE VIEW DRIVE
SERVICE ROAD
CARRIAGE SHOP ROAD
OLD MEETING HOUSE ROAD
SOUTHVIEW WAY
DEER POND ROAD
BRICK KILN ROAD
LOUSTEAU FIELD ROAD
GIFFORD STREET EXT.
MATTEE ROAD
TANGLEWOOD DRIVE
SANDWICH ROAD
SAINT MARKS ROAD
JOHN PARKER ROAD
OLD PARKER RIDGE ROAD
GREEN POND ROAD
DAWSVILLE ROAD
SAILFISH DRIVE
PAOLA DRIVE
CENTRAL AVENUE
BAYSIDE DRIVE
FISHER ROAD
EAST FALMOUTH HIGHWAY
ALEX SNIDER BOOKER ROAD
FRESH POND ROAD
BARROWS ROAD
STANDISH ROAD
WAQUOIT HIGHWAY
TASINA DRIVE
METOXIT ROAD
OSTROM ROAD
MEADOW NECK ROAD
SOUTH DRIVE
SIPPEWISSETT ROAD
PALMER AVENUE
TER HEUN DRIVE
BEAGLE LANE
HIGHFIELD DRIVE
LOCUST STREET
WOODS HOLE ROAD
MILL ROAD
ELMROAD
OYSTER POND ROAD
QUISSETT AVENUE
GANNETT ROAD
WOODS HOLE ROAD
FAY ROAD
CHURCH STREET
PENZANCE ROAD
RACING BEACH AVENUE
UPLAND AVENUE
TWO PONDS ROAD
SPRING BARS ROAD
CEDAR STREET
CHESTNUT STREET
CUTTYSARK ROAD
STARBOARD DRIVE
ACAPESKET ROAD
PACHECO PATH
PARTRIDGE LANE
MENAUHANT ROAD
GRAND AVENUE
CLIFTON AVENUE
KING STREET
SQUIRE STREET
PALMER AVENUE
HIGHLAND AVENUE
SUNSET AVENUE
WORM OYSTER COURT
SUNSET AVENUE
SCRANTON AVENUE
GROVE STREET
JONES ROAD
SUNSET AVENUE
HIGHLAND PATH
SUNSET AVENUE
SUNSET AVENUE
SUNSET AVENUE

Appendix G

TATA & HOWARD

2. County Road, Pine Bank Road, Riverway, and Circle Drive
New 8-inch water main
Emergency Interconnection with Bourne Water District
9. Homer Avenue
New 8-inch water main
BOURNE
SANDWICH
FALMOUTH
MASHPEE
7. Wild Harbor Road and Point Road
New 8-inch and 12-inch water main
Abandon parallel water main
4. Nathan Ellis Highway
New 16-inch water main
39. Old Main Road
New 8-inch and
12-inch water main
31. Loren Road and Downer Road
New 8-inch water main
MMR Metering Station & Chemical Feed Facility
Ashumet Pond
Wild Harbor
Cedar Lake
Wings Pond
Deep Pond
Crooked Pond
Coonamessett Pond
Jenkins Pond
Round Pond
Mares Pond
Long Pond
Green Pond
Great Pond
Morse Pond
Ashers Pond
Little Pond
Salt Pond
Oyster Pond
Quissett Harbor
West Falmouth Harbor
Great Harbor
Eel Pond
Fresh Pond
Waquoit Bay
Hamblin Pond
Bournes Pond
Eel Pond
Crooked Pond WTP
Crooked Pond Well
Coonamessett Well
Technology Park High Service Tank
Capacity: 1.0 MG
Overflow Elevation: 260 feet
Technology Park Low Service Tank
Capacity: 3.0 MG
Overflow Elevation: 205 feet
Technology Park Booster Pump Station
Hayway Road Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Mares Pond Well
Mares Pond Tank
Capacity: 2.0 MG
Overflow Elevation: 205 feet
Fresh Pond Well
Long Pond WFF
Emergency Interconnection with Mashpee Water District
Emergency Interconnection with Mashpee Water District
40. Quaker Road
New 12-inch and
16-inch water main
34. Nauset Avenue E
and Shaume Road
New 8-inch water main
16. Cliff Road, Naushon N, Uncatena N,
Naushon Road S, and Naushon Circle
New 8-inch water main
13. Little Island Road
New 8-inch water main
27. Black Beach Hills Road
and Little Neck Bars Road
New 8-inch water main
29. Virtue Circle
New 8-inch water main
1. Saconesset Road, Arnold Gifford Road,
Peace Pipe Road, Wigwam Road,
Indian Ridge Road, and Salt Works Way
New 8-inch water main
3. Carriage Shop Road
New 8-inch water main
35. Old Barnstable Road
New 12-inch water main
23. Pires Way and Cinroc Circle
New 8-inch water main
6. Edgewater Drive W
New 8-inch water main
8. Thatcher Lane and Lewis Street
New 8-inch water main
10. Waquoit Landing Road
New 8-inch water main
14. Captains Road
New 8-inch water main
Connect all side streets and
services to 12-inch water main
on Davisville Road
Abandon parallel 6-inch water main
20. Cape Codder Road
New 8-inch water main
25. Figuerido Way
New 8-inch water main
24. English Street and
Maravista Avenue Ext.
New 8-inch water main
26. Langley Road
New 8-inch water main
41. Gifford Street
New 12-inch water main
17. Cypress Street, Philadelphia Street
and Bourne Street
New 8-inch water main
37. Lawrence School connection
New 8-inch water main
18. Providence Street, Great Bay Street,
and Hiawatha Street
New 8-inch water main
30. Greengate Road
New 8-inch water main
15. Longfellow Road
New 8-inch water main
32. Spring Bars Road
New 8-inch water main
38. Haddon Avenue and
Katharine Lee Bates Road
New 8-inch water main
22. Ransom Road
New 8-inch water main
21. Hamilton Street
New 8-inch water main
43. Menauhant Road
New 12-inch water main
19. Brockton Street
New 8-inch water main
5. Falmouth Heights Road
and Grand Avenue
New 12-inch water main
28. Quonset Road and Onawa Lane
New 8-inch water main
42. Surf Drive
New 8-inch water main
Abandon parallel 2-inch water main
12. Whitman Road, Gardiner Road,
and Gansett Road
New 8-inch water main
33. Gosnold Road
New 8-inch water main
36. Water Street, Luscombe Avenue,
Railroad Avenue, and Little Harbor Road
New 8-inch and 12-inch water main
11. Nobska Road
New 8-inch water main
Legend
Phase I Improvement
Phase II Improvement
Water Main Diameter
4-inch and smaller
6-inch
8-inch
10-inch
12-inch
16-inch
18-inch
20-inch
24-inch
Raw Water
High Service Area
Phase I and II Improvements
Falmouth Water Department
Falmouth, Massachusetts
TATA & HOWARD
Approximate Scale: 1" = 1,500'
April 2020
N

N
Emergency Interconnection with Bourne Water District
BOURNE
SANDWICH
FALMOUTH
MASHPEE
44. Anchorage Road New 8-inch water main
47. Hillside Avenue and Norma Road New 8-inch water main
MMR Metering Station & Chemical Feed Facility
Crooked Pond WTP
Coonamessett Well
Crooked Pond Well
Technology Park High Service Tank Capacity: 1.0 MG Overflow Elevation: 260 feet
Technology Park Low Service Tank Capacity: 3.0 MG Overflow Elevation: 205 feet
Technology Park Booster Pump Station
58. Cross-country New 8-inch water main
Hayway Road Tank Capacity: 2.0 MG Overflow Elevation: 205 feet
Emergency Interconnection with Mashpee Water District
57. Lakewood Drive New 8-inch water main
56. Hayway Road New 12-inch water main
Fresh Pond Well
Emergency Interconnection with Mashpee Water District
Mares Pond Well
Mares Pond Tank Capacity: 2.0 MG Overflow Elevation: 205 feet
61. Owls Nest Road New 8-inch water main
51. Parker Mills Road New 8-inch water main
52. Brick Kiln Road New 8-inch water main
Long Pond WFF
60. Childs River Road New 8-inch water main
55. Pina Lane New 8-inch water main
62. Theroux Drive New 8-inch water main
59. Standish Avenue New 8-inch water main
53. Woodrise Road New 8-inch water main
46. Sandpiper Circle New 8-inch water main
45. Depot Avenue New 12-inch water main
50. Dillingham Avenue New 8-inch water main
54. Ipswich Drive New 8-inch water main
49. Shoreview Avenue New 8-inch water main
48. Riddle Hill Road New 8-inch water main
Wild Harbor
Cedar Lake
Wings Pond
Deep Pond
Coonamessett Pond
Crooked Pond
Ashumet Pond
Round Pond
Jenkins Pond
Fresh Pond
Mares Pond
Long Pond
Green Pond
Flume Pond
Jones Pond
Morse Pond
Great Pond
Sides Pond
Little Pond
Salt Pond
Oyster Pond
Bournes Pond
Eel Pond
Waquoit Bay
Hamblin Pond
Quissett Harbor
Great Harbor
West Falmouth Harbor
Legend
Phase IIIA Improvement
Phase IIIB Improvement
Water Main Diameter
4-inch and smaller
6-inch
8-inch
10-inch
12-inch
16-inch
18-inch
20-inch
24-inch
Raw Water
High Service Area
Phase III Improvements
Falmouth Water Department
Falmouth, Massachusetts
TATA & HOWARD
Approximate Scale: 1" = 1,500'
April 2020

TATA & HOWARD

OFFICE LOCATIONS:
MA | NH | CT | ME | VT | AZ

800-366-5760
www.tataandhoward.com