

**TOWN OF JAMESTOWN  
TOWN COUNCIL MEETING  
for  
TOWN, WATER AND SEWER MATTERS**

August 19, 2019

A regular meeting of the Jamestown Town Council sitting as the Board of Water and Sewer Commissioners was called to order at the Jamestown Town Hall, Council Chambers, 93 Narragansett Avenue at 6:31 PM by Commission President Michael G. White.

The following members were present:

Mary E. Meagher, Vice-President  
Nancy A. Beye  
William J. Piva, Jr.  
Randall White

Also present were:

Andrew Nota, Town Administrator  
Peter D. Ruggiero Esq., Town Solicitor  
Michael Gray PE, Public Works Director  
Christina D. Collins, Finance Director  
Erin F. Liese, Town Clerk  
Cheryl Fernstrom, Town Clerk (outgoing)  
Denise Jennings, Water and Sewer Clerk

**AWARDS, PRESENTATIONS AND ACKNOWLEDGMENTS**

(None)

**READING AND APPROVAL OF MINUTES**

1) 07/08/19 (regular meeting)

Motion was made by Commissioner Meagher, seconded by Commission Piva to accept the 07/08/19 regular meeting minutes. So unanimously voted.

**OPEN FORUM**

Commission President White noted that this open forum would be for water and sewer matters only.

1) Scheduled requests to address:

(No scheduled requests)

2) Non-scheduled request to address:

(None)

## REPORT OF TOWN OFFICIALS

### 1) **Pumping Report:**

The Public Works Director reported the following:

- Pumping was average for the month of July.
- JR-1 is on for the season.
- Rainfall was above average for the month of July.
- No water was transferred during the month of July.
- North Reservoir is @ capacity, usable storage-60MG
- South Pond is @ capacity, usable storage-6MG

### 2) **Town project reports:** *(See attached Project Update Report dated August 2019)*

#### Treatment Plant/Reservoir

The Public Works Director reported the following:

#### **Clean Water Infrastructure Replacement Plan (July 2019)-**

- He has supplied the Commission with a copy of the Clean Water Infrastructure Replacement Plan (July 2019), prepared by Pare Corporation. The purpose of the plan is to identify water system infrastructure within the water supply system that require rehabilitation and replacement in accordance with the requirements of the Rules and Regulations for Clean Water Infrastructure Plans.
- Table 6-1 summarizes the 5-year infrastructure costs, which includes four major projects as follows:
  - Rebuilding the earthen berm at South Pond
  - Replacing the membranes at the water treatment plant
  - Refurbishing Howland Ave. Standpipe #1
  - Water main replacement work to includes Narragansett Avenue at Southwest Avenue going west towards west ferry.
- Table 6-2 summarizes the 5-20 year infrastructure improvements

The Public Works Director stated that he would like the Commission to review the plan and discussion could continue at the next meeting in September.

#### Transfer Pumping/Reservoir

The Public Works Director reported that Highway staff is making progress on the bike path and the bridge abutments at North Reservoir. Upon completion of the bridge abutments, staff will install the wooden bridge.

#### Wastewater Treatment Plant

The Public Works Director reported that during the weekend of July 20<sup>th</sup> and the high temperatures this summer, the town experienced brown outs within the electrical grid. All generators were turned on at the pump stations to avoid failure of our computer systems.

Following clarification on a few items, it was the consensus of the Commission to accept the Public Works Director's report, as presented.

### 3) **Finance Director's Report:** Comparison of Budget to Actuals as of July 31, 2019.

No action taken.

**LETTERS AND COMMUNICATIONS**

1) Letter of **Dennis H. Webster of 8 Mount Hope Avenue** to Michael Gray, Public Works Director re: **request for relief from excess sewer charges** on his July 2019 water and sewer bill.

The Public Works Director stated that when there is a leak, water staff goes out to do water meter reading and also checks to make sure that the excess water/leak did not affect or go into the municipal sewer system. The Public Works Director further stated that historically, relief is not given on the excess water side, as it costs money for the treatment of the excess water and that historically, we have given relief on the excess sewer side.

Motion was made by Commissioner Meagher, seconded by Commissioner Beye to grant the request from Dennis Webster for relief from excess sewer charges on his July 2019 water and sewer bill, as requested and suggested by the Public Works Director. So unanimously voted.

**UNFINISHED BUSINESS**

(None)

**NEW BUSINESS**

(None)

**TOWN BUSINESS**

(None)

**ADJOURNMENT**

There being no further business before the Commission, motion was made by Commission Vice-President Meagher, seconded by Commissioner Piva to adjourn the Water and Sewer meeting at 6:40 PM. So unanimously voted.

Attest:



Denise Jennings

Water and Sewer Clerk

xc: Commission Members (5)  
Town Administrator  
Town Solicitor  
Public Works Director  
Town Clerk

## Project Update August 2019

### WELLS

JR-1, JR-3

- JR-1 has been turned on for the season. The well pumps water at a rate of 50 gpm directly into the transmission main feeding the water plant from the reservoir.

### TREATMENT PLANT

- The Clean Water Infrastructure Replacement Plan was completed by Pare Corporation and submitted to the RI Department of Health for their review and comment. I will provide a hard copy of the full report to the Council at our meeting. Attached is Section 6 of the report that provides Summary Table 6-1 that includes the 5- year projected costs for improvements and Summary Table 6-2 for long-range costs for the 20-year plan. The total of \$2,934,000 for the 5-year plan includes \$1,210,000 for three projects that have already been approved for funding by the Commission that include the South Pond Dam, membrane filter replacement, and painting of one tank on Howland Avenue. Another \$1,250,000 are anticipated costs for watermain replacement on Narragansett Avenue and the bridge crossing on North Road at Great Creek (Zekes Creek). Both projects will need to be discussed in future budgets for the water department. RIDOT has scheduled road and bridge construction in 2023.

### TRANSFER PUMPING/RESERVOIR

- No water was transferred from South Pond.
- The highway department is making progress on the Bike Path project at North Reservoir. Work on the bridge abutments has been ongoing for the past 3 weeks. We should be accepting delivery of the bridge spanning the spillway later this month. In September crews will be working on regrading the slope face of the North Reservoir Dam as part of the Bike Path Construction.

### DISTRIBUTION SYSTEM

South Pond @ 6 MG

Usable Storage, 6 Million Gallons

North Pond @ 60 MG

Usable Storage 60 Million Gallons

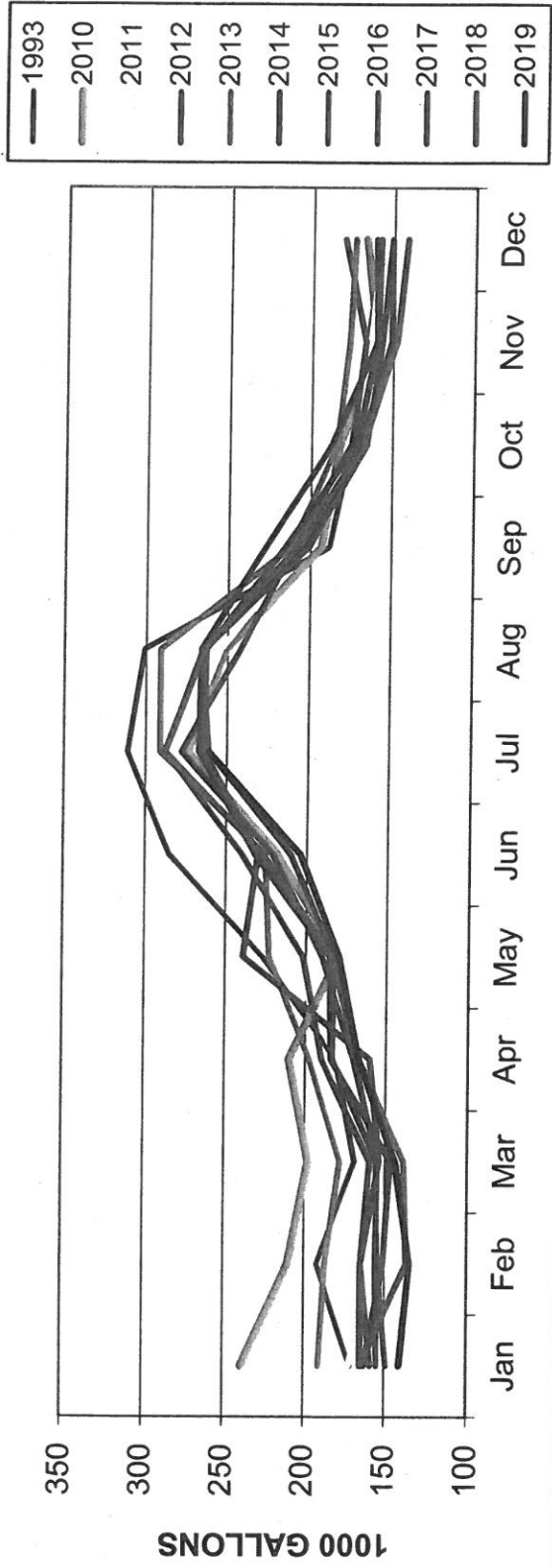
- There were no leaks reported for July.

### WASTEWATER TREATMENT PLANT

- The monthly average daily flow at the treatment plant for July was 0.34 million gallons per day. The peak daily flow was 0.68 million gallons. The permitted monthly average is 0.73 million gallons per day as a condition of our discharge permit. There were no sanitary sewer overflows for the month of July.
- During the weekend of July 20<sup>th</sup> the Town experienced temperatures in the 90s with high humidity. When there are multiple days of high temperatures the Town experiences brown outs within our electrical grid. That weekend staff for both water and sewer had to respond to multiple alarms at our plants and pump stations due to electrical issues and intermittent power. All generators were turned on for the weekend to power our water and sewer infrastructure to avoid failures to our logic controls and computer SCADA systems. Some of our generators unfortunately are adjacent to homes that are near our pump stations but no complaints were received.

	1993	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Jan	171	172	173	239	172	155	191	163	165	159	149	165	141
Feb	192	154	173	210	158	156	187	151	165	165	155	137	135
Mar	169	155	165	198	157	155	178	147	154	160	156	139	144
Apr	181	174	196	210	180	170	198	184	160	190	183	167	167
May	227	202	195	180	212	190	223	185	239	202	183	184	179
Jun	285	246	215	218	226	221	226	232	230	240	210	227	204
Jul	311	296	277	274	279	278	291	267	264	288	261	288	261
Aug	301	256	290	251	254	242	291	266	263	264	266	265	265
Sep	188	210	245	193	205	210	212	227	215	201	203	208	208
Oct	175	187	259	182	175	175	184	187	172	166	170	168	168
Nov	166	175	226	160	164	167	177	160	160	157	151	148	148
Dec	158	192	230	167	158	180	174	161	158	151	151	142	142

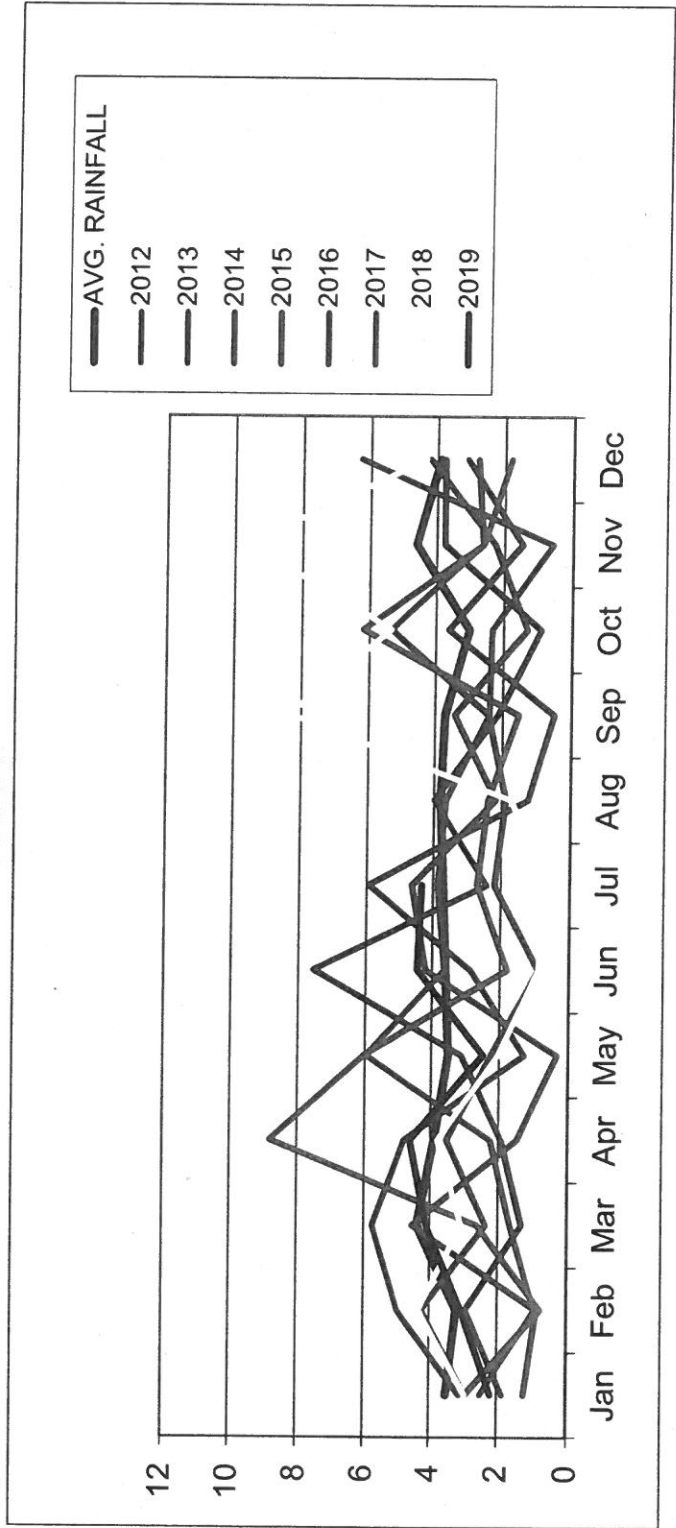
**PUMPING REPORT**



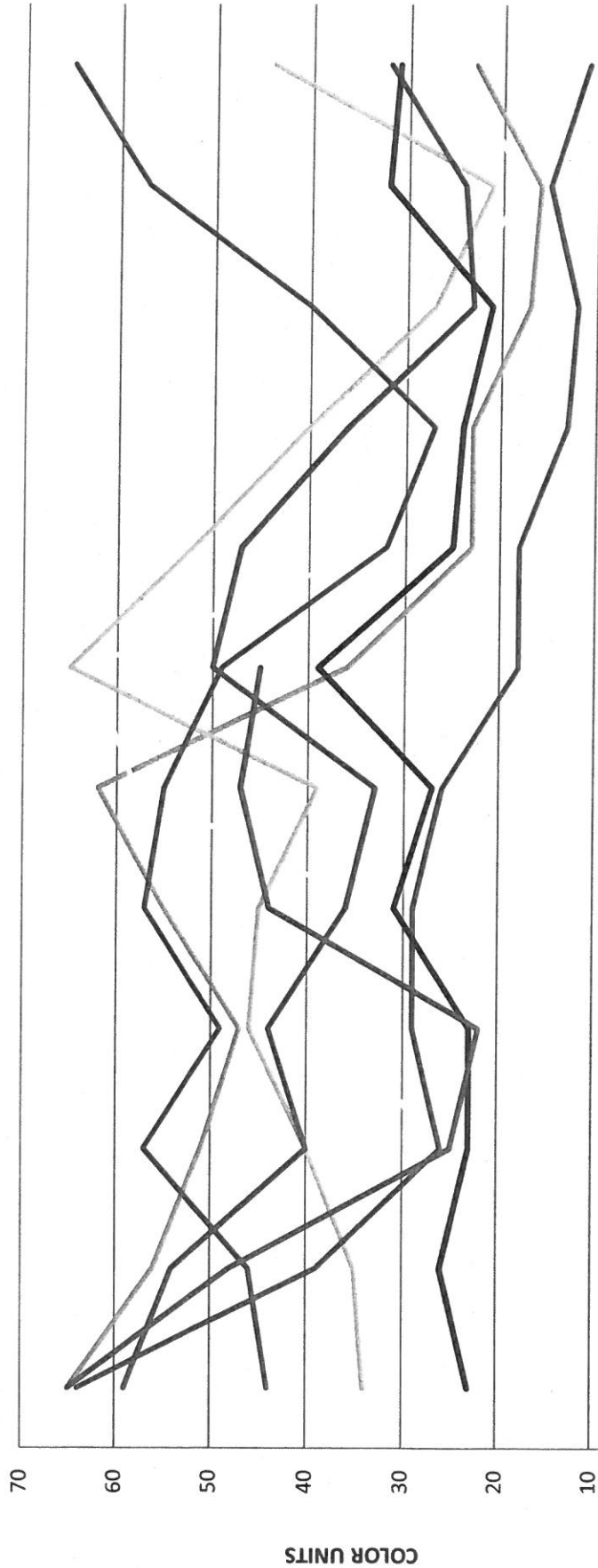


	AVG. RAINFALL												Total							
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Jan	3.5	4.22	1.85	3.1	1.22	2.94	2.94	2.94	2.19	3.5	4.22	2.49	1.85	3.1	1.22	2.94	2.94	2.94	2.19	44.8
Feb	3.2	3.09	2.94	4.98	0.86	4.25	0.76	4.33	2.19	3.2	3.09	0.93	4.98	0.86	4.25	0.76	4.33	2.19	2.19	44.8
Mar	4.4	1.32	1.32	5.74	4.53	2.36	2.62	3.07	4.11	4.4	1.32	1.64	1.32	4.53	2.36	2.62	3.07	3.79	4.61	44.8
Apr	3.9	4.25	1.92	4.8	1.47	3.53	8.8	3.79	4.61	3.9	4.25	2.24	4.8	1.47	3.53	8.8	3.79	3.79	4.61	44.8
May	3.5	2.32	3.11	1.27	0.32	2.24	6.03	2.03	2.46	3.5	2.32	5.97	1.27	0.32	2.24	6.03	2.03	2.03	2.46	44.8
Jun	3.6	4.4	7.55	2.86	4.2	0.89	1.79	0.89	4.44	3.6	4.4	3.64	2.86	4.2	0.89	1.79	0.89	0.89	4.44	44.8
Jul	3.7	2.01	2.42	5.93	4.63	2.19	2.7	0.61	4.33	3.7	2.01	3.86	5.93	4.63	2.19	2.7	2.7	0.61	4.33	44.8
Aug	3.8	5.23	3.98	1.23	2.17	1.88	2.4	1.73	4.33	3.8	5.23	3.64	1.23	2.17	1.88	2.4	2.4	1.73	4.33	44.8
Sep	3.7	5.41	2.13	0.5	3.41	2.42	1.54	8.35	4.33	3.7	5.41	2.39	0.5	3.41	2.42	1.54	1.54	8.35	4.33	44.8
Oct	3	7.18	0.9	3.61	1.31	5.33	6.18	5.34	4.33	3	7.18	2.33	0.9	1.31	5.33	6.18	6.18	5.34	4.33	44.8
Nov	4.6	4.05	3.76	1.47	2.27	2.63	2.61	9.61	4.33	4.6	4.05	0.58	1.47	2.27	2.63	2.61	2.61	9.61	4.33	44.8
Dec	3.9	2.51	3.76	3.1	4.2	2.79	1.81	4.33	4.33	3.9	2.51	6.28	3.1	4.2	2.79	1.81	1.81	4.33	4.33	44.8
<b>Total</b>	<b>44.8</b>	<b>45.99</b>	<b>35.64</b>	<b>38.59</b>	<b>30.59</b>	<b>33.45</b>	<b>40.18</b>	<b>47.02</b>	<b>25.2</b>	<b>44.8</b>	<b>45.99</b>	<b>35.99</b>	<b>38.59</b>	<b>30.59</b>	<b>33.45</b>	<b>40.18</b>	<b>47.02</b>	<b>25.2</b>	<b>44.8</b>	<b>44.8</b>

## RAINFALL



# Transfer Pumping NORTH POND WATER QUALITY



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2012	65	56	51	47	55	62	36	23	23	17	16	23
2013	26	22	27	35	33	58	63	33	34	25	18	24
2014	34	35	40	46	45	39	65	52	40	27	21	44
2015	59	54	40	44	36	33	50	47	36	23	24	32
2016	64	39	26	29	29	26	18	18	13	12	15	11
2017	23	26	23	23	31	27	39	25	24	21	32	31
2018	44	46	57	49	57	55	49	32	27	40	57	65
2019	65	48	25	22	44	47	45	32	27	40	57	65



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## SECTION 6 - INFRASTRUCTURE REPLACEMENT PLAN

The purpose of this Plan has been to identify water system infrastructure components within the JWD water supply system that require rehabilitation and replacement in accordance with the requirements of the Rules and Regulations for Clean Water Infrastructure Plans. It is the obligation of the JWD that in combination with these infrastructure improvements and general system maintenance, operation, and upkeep, that the water system operates and provides a safe and reliable water supply for an indefinite period of time.

Table 6-1 summarizes the 5-year infrastructure improvement costs. This includes four major projects including rebuilding the earthen berm at South Pond, replacing the membranes at the Treatment Plant, refurbishing Howland Standpipe #1, and nearly \$1.5 million in water main replacement work. The total cost of these projects has been estimated to be **\$2,934,000**, or \$587,000 per year over the 5-year period.

Table 6-2 summarizes the 5- to 20-year infrastructure improvement costs. This includes the rehabilitation of Howland Standpipe #2, routine inspections and equipment replacement. The total cost of all projects anticipated during the 5 to 20-year period has been estimated to be **\$1,423,000**, or \$95,000 over the 15-year period.



**Table 6-1  
JAMESTOWN WATER DISTRICT  
Infrastructure Improvements  
Five-Year Plan (2019 – 2024)**

<b>Time Interval/Year</b>	<b>Project Description</b>	<b>Opinion of Probable Construction Cost</b>
<b>North Pond</b>		
2019	Flatten dam embankment, extend toe drain, provide upstream slope protection	\$50,000
	Spillway repairs;	\$10,000
	Intake Repairs	\$5,000
2024	Inspect intake structure/spillway	\$3,500
<b>South Pond</b>		
Yearly	Maintain vegetation along entire dam	\$50,000
2019	Rebuild earthen berm, improvements to spillway and dike	\$500,000
2024	Inspect dam, dike, intake structure and spillway	\$3,500
<b>JR-1</b>		
2022	Well inspection/redevelopment as required	\$15,000
2022	Construct well building	\$10,000
<b>JR-3</b>		
2022	Well inspection/redevelopment as required	\$15,000
<b>Pretreatment Facility</b>		
2019	Replace asphalt shingle roof and fascia boards	\$2,000
2024	Inspect and repoint brick where needed, paint doors and trim	\$2,000
	Perform Facility Inspection, minor repairs	\$3,000
<b>Main Treatment Building</b>		
2020	Replace Roof and Windows on Original Treatment Building	\$40,000
	Replace membranes (15-year life span); tank improvements	\$310,000
	Replace Static Mixers	\$5,000

**Table 6-1 (cont'd)**  
**JAMESTOWN WATER DISTRICT**  
**Infrastructure Improvements**  
**Five-Year Plan (2019 – 2024)**

<b>Howland Standpipe #1</b>		
2019	Perform inspection	\$5,000
2020	Welding repairs/refurbish interior & exterior protective coatings	\$400,000
2024	Perform tank inspection	\$5,000
<b>Howland Standpipe #2</b>		
2023	Perform tank inspection	\$5,000
<b>Pump Station</b>		
2022	Inspect and service pumps	\$5,000
<b>Water Mains</b>		
2021	Conanicus Ave from Union to Lincoln – 400 feet 8”	\$60,000
2022	Fowler and Douglas – 800 feet of 8”	\$120,000
2023	Narragansett SW Ave to end of West Ferry - 2000 feet 12” and 1000 feet 8”, done by 2023	\$750,000
2023	Crossing at Great Creek – 1,500 feet 8 and 12”, by HDD	\$500,000
<b>Vehicles</b>		
2023	F550	\$60,000
<b>TOTAL 5 YEAR PLAN</b>		<b>\$2,934,000</b>

\* Information presented in this table is only a guideline. As such, it is important to note that it does not represent the JWD Infrastructure Replacement budget.

Table 6-2  
**JAMESTOWN WATER DISTRICT**  
**Infrastructure Improvements**  
**5-20 Year Plan (2025 – 2040)**

Time Interval/Year	Description	Opinion of Probable Construction Cost
<b>North Pond</b>		
10-year/2029	Inspect intake structure/spillway	\$3,500
10-year/2029	Replace Pond aeration building and blower motor	\$15,000
15-year/2034	Inspect intake structure/spillway	\$4,000
20-year/2039	Inspect intake structure/spillway	\$4,500
<b>South Pond</b>		
Yearly	Maintain vegetation along entire dam	\$150,000
10-year/2029	Inspect dam, dike, intake structure and spillway	\$3,500
15-year/2034	Inspect dam, dike, intake structure and spillway	\$4,000
20-year/2039	Inspect dam, dike, intake structure and spillway	\$4,500
<b>JR-1</b>		
10-year/2029	Perform well inspection, test pump	\$5,000
	Replace mechanical/electrical equipment, as required	\$15,000
15-year/2034	Well inspection/redevelopment as required	\$15,000
20-year/2039	Perform well inspection, test pump	\$5,000
<b>JR-3</b>		
10-year/2029	Perform well inspection, test pump	\$5,000
	Replace pump and mechanical/electrical equipment, as required	\$25,000
15-year/2034	Well inspection/redevelopment as required	\$15,000
20-year/2039	Perform well inspection, test pump	\$5,000
<b>Pretreatment Facility</b>		
10-year/2029	Perform Facility Inspection, minor repairs	\$3,000
	Replace Chlorine Dioxide Generator	\$10,000
15-year/2034	Perform Facility Inspection, minor repairs	\$4,000
20-year/2039	Perform Facility Inspection, minor repairs	\$5,000

Table 6-2 (cont'd)  
**JAMESTOWN WATER DISTRICT**  
**Infrastructure Improvements**  
**5-20 Year Plan (2025 – 2040)**

<b>Main Treatment Building</b>		
10-year/2029	Inspect and Service Generator, Pumps, & Other Components	\$15,000
10-year/2029	Replace Permeate Pumps	\$25,000
10-year/2029	Replace Blowers	\$50,000
15-year/2034	Perform Inspection of Treatment Facility	\$5,000
20-year/2039	Inspect and Service Generator, Pumps, & Other Components	\$15,000
<b>Howland Standpipe #1</b>		
10-year/2029	Perform tank inspection	\$6,000
15-year/2034	Perform tank inspection	\$7,000
20-year/2039	Perform tank inspection	\$8,000
<b>Howland Standpipe #2</b>		
10-year/2028	Perform tank inspection	\$6,000
10-year/2029	Welding repairs/refurbish interior & exterior protective coatings	\$500,000
15-year/2034	Perform tank inspection	\$7,000
20-year/2039	Perform tank inspection	\$8,000
<b>Howland Ave. Pumps</b>		
10-year/2029	Pump Replacement	\$5,000
10-year/2029	Compressor Replacement	\$5,000
<b>Pump Station</b>		
10-year/2027	Replace pumps as required	\$50,000
15-year/2032	Inspect and service pumps	\$5,000
20-year/2037	Inspect and service pumps	\$5,000
<b>Water Mains</b>		
10-year/2025	North Road from Narragansett Ave to Arnold Ave – 2000 feet	\$400,000
<b>TOTAL 5-20 YEAR PLAN</b>		<b>\$1,423,000</b>

\* Information presented in this table is only a guideline. As such, it is important to note that it does not represent the JWD Infrastructure Replacement budget.