

BRISTOL COUNTY WATER AUTHORITY

Board of Directors Meeting

Thursday, May 28, 2020 6:30 pm

Meeting by Zoom Audio-Visual Teleconference
Pursuant to Executive Order 20-05, March 16, 2020
Third Supplemental Emergency Declaration –
Public Meeting and Public Records Requests

AGENDA

1. Call to Order
2. Public Input
3. Executive Director Report
4. Financial Report
5. 1308 Hope St. Demolition Contract Award
6. FY21 Water Main and Stock Materials Bid
7. FY21 Maintenance and Service Annual Contract Bid
8. FY21 Annual Permanent Paving Contract Bid
9. Approval, Addition to 2020 Water Main Renewal Contract, Rock St., Bristol
10. Quarterly Write-Offs – for Information Only
11. Approval - Annual Write-Offs
12. SmartBall Pipeline Inspection Services Task Order
13. FY2021 Non-Union Raises – Personnel Committee
14. FY2021 Executive Director Raise – Personnel Committee
15. RI Water Resource Board – State Surcharge
16. Executive Session
 - i. Anawan Dam Maintenance Agreement
 - ii. RI Water Surcharge Funds
 - iii. Easement from Knights of Columbus for Pawtucket Pipeline
17. Anawan Dam Maintenance Agreement
18. Easement from Knights of Columbus for Pawtucket Pipeline
19. Next Scheduled Meeting(s):
 - i. Board Meeting June 25
20. Adjournment

PUBLIC ACCESS TO MEETING – ZOOM or DIAL-INTO CONFERENCE

Join Zoom Meeting: www.zoom.us

Join Zoom Meeting

<https://us02web.zoom.us/j/88440498552?pwd=ZVJOYTJKdEhISUFjWmZCcTE1NFJlZz09>

Meeting ID: 884 4049 8552

Password: 749843

Dial by your location

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Board documents available at BCWA's website –

<https://bcwari.com>

Individuals requiring interpreters for the hearing impaired must notify the Bristol County Water Authority, (401) 245-2033, not less than 48 hours in advance of the meeting.

Agenda Posted 5/22/2020

1. Secretary of State Website
2. BCWA Main Office Bulletin Board
3. BCWA Operations Department Bulletin Board
4. BCWA Website bcwari.com

Agenda Sent Via Email 5/22/2020 for Posting on Public Bulletin Boards

1. Barrington Town Hall
2. Bristol Town Hall
3. Warren Town Hall

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BRISTOL COUNTY WATER AUTHORITY

Executive Director's Report for May 28, 2020

There will be three (3) meetings of the Board this month: the Personnel Committee Meeting (5:30 pm), the Annual meeting (6:00 pm) and the regular Board meeting (6:30 pm). Each will have a separate sign-in to Zoom.

Since there is an executive session during the regular Board meeting, attendees will be placed in a Zoom waiting room, then invited into the meeting. When entering executive session, any attendees not involved in the session will be placed back in the waiting room, and can return after executive session is adjourned.

Goals FY2021, as requested to be placed on Executive Director's Report

1. *Pursue construction of connection to Pawtucket Water Supply Board.*
 - a. Phase 1
 - i. Met with the Knights of Columbus this week to finalize the easement. Most issues have been worked out, except for payment agreement.
 - ii. Waiting for courts to open to get on the docket for the condemnation of the Village Green easement.
 - iii. Preparing for test borings for a main realignment on Elder Avenue to reduce the cost of moving utilities.
 - iv. Finalizing bid documents
 - b. Phase 2
 - i. Spoke with Mayor Dasilva, the City is still interested in the pipeline but funding is an issue, especially now with Covid-19. He will try to put the project on a City Council agenda. They are planning to inspect their cross-bay pipelines this summer.
 - ii. BETA has been investigating possible routes for the 5-mile pipeline.
2. *Prepare system to initiate monthly billing.*
 - a. The rate study is in progress.
 - b. Two meter data collectors have been installed at the highest elevations in the system, and testing will be initiated next month. A total of 8-10 may be needed.
3. *Create realistic upper management succession plan.*
 - a. With the retirement of Ken Booth, Mike Crawford has been promoted to Operations Manager. Mike's former position as Operations Supervisor was filled by Dave DaSilva.

- b. Brian Sousa, Operations Foreman – Facilities, will retire as of June 27th. His union position was posted and awarded to Jim Vieria, Operations Engineering Aid. This worked out well, as Jim was Brian's backup and he is familiar with the position. Jay Costa, Water Utility Operator was awarded the position of Engineering Aid and is training with Jim. This position requires the Engineering Aid to fill in for any of the three Foreman as needed, manages stock and inventory, reviews work orders and GIS mapping and asset management, and can also work as a Water Utility Operator.
- c. Mark Champagne has postponed his retirement to the end of the calendar year. A replacement will be hired by the end of October to work on the FY22 budget preparation and for training.

4. Plan for demolition of the water treatment plant.

- a. As the first step, an Environmental Assessment is planned for this summer. We have requested a task order from BETA and Pare Corporation for the Assessment, demo bids and construction oversight.
- b. Considering the amount of concrete, demolition is expected to be expensive.

Water Purchased

The purchased water was 3% higher for the month of April compared to April of last year. The annual accumulated usage for the two months of the FY21 is close to the average of the last 5 years.

The Providence monthly charges and usage, including the East Providence supply, is attached.

Meter Installation Project

Installations in outdoor pits have been continuing. We are considering starting indoor replacements in the middle of June, with proper hygiene protocols.

Dam Removals

Pare has submitted the 50% design drawings for the Upper Kickemuit Dam. They are now working on the Lower Dam so both can be submitted together for permitting.

The RI DOT has hired an engineer to prepare the design and bid documents for the replacement of the culverts and bridge at the Schoolhouse Rd. They are still on schedule for construction next year, as we are planning to remove the dam in 2022.

Wenley Ferguson and I presented the information on the removal of the dams to the Warren Town Council (on Zoom) on May 12th. The Council was supportive and appreciative of the presentation.

Rate Study

The study is in progress with NewGen Strategies.

Joe Keough and I have been working with NewGen to review the financial information to challenge the Providence Water rate filing with the RIPUC. Testimony has been submitted this month from NewGen and from me on behalf of the BCWA.

Covid-19 Update

All employees are back to work, except for two with health issues (working from home) and two operators with childcare issues working part-time. All employees that don't have their own offices are split into teams reporting to different locations and avoiding contact with others. We have PPE equipment for all, sanitizer, and a distance thermometer (employees are required to take temperatures before reporting to work).

We are continuing our normal work assignments, except for customer facility visits. When necessary to enter a property, we utilize recommended protocols and avoid contact with property owners. As mentioned above, we will begin in-facility services, with proper protocols, in June.

Engineering Report by Sue Rabideau – see attached.

MIS Report by Randy Manchester – see attached.

Operations Report by Mike Crawford – see attached.

Randy Manchester
5/22/20

Providence Water - Monthly Charge							BCWA		
Read	# Days	Billed Amount	\$/Day	Billed MG	MG/day		PWmetr for Month		
							Month	Max Day	Ave Day
FY2018									
March	28-Mar	33	\$ 176,630.11	\$ 5,352.43	97.8	2.96	88.8	3.33	2.86
April	26-Apr	29	\$ 158,395.33	\$ 5,461.91	87.7	3.02	88.5	3.36	2.95
May	25-May	29	\$ 165,635.43	\$ 5,711.57	91.7	3.16	96.0	3.55	3.10
June	27-Jun	33	\$ 207,084.02	\$ 6,275.27	114.7	3.47	105.6	4.21	3.52
July	27-July	30	\$ 217,616.37	\$ 7,253.88	120.5	4.02	120.5	4.65	3.89
August	29 Aug	33	\$ 232,965.23	\$ 7,059.55	129.0	3.91	117.1	4.31	3.78
September	17 Sept	29	\$ 176,666.23	\$ 6,091.94	97.8	3.16	101.9	3.74	3.40
October	30 Oct	33	\$ 182,896.79	\$ 5,542.33	101.3	3.07	100.0	3.84	3.23
November	28 Nov	29	\$ 183,095.45	\$ 6,313.64	101.4	3.50	89.5	3.42	2.98
December	28 Dec	30	\$ 165,200.19	\$ 5,506.67	91.5	3.05	91.8	3.02	2.96
January	26 Jan	29	\$ 160,985.08	\$ 5,551.21	89.1	3.07	89.8	3.48	2.99
February	26 Feb	31	\$ 162,247.00	\$ 5,233.77	89.8	2.90	78.4	3.30	2.80
Total FY2018			\$ 2,189,417.23	MGY	1212.3	3.32			
FY2019									
March	27 Mar	29	\$ 140,404.36	\$ 4,841.53	77.7	2.68	79.5	2.77	2.57
April	25 Apr	29	\$ 149,748.40	\$ 5,163.74	82.9	2.86	86.6	3.63	2.89
May	29 May	34	\$ 196,726.83	\$ 5,786.08	108.9	3.20	100.0	3.82	3.23
June	26 Jun	28	\$ 196,427.05	\$ 7,015.25	108.8	3.89	113.9	4.27	3.80
July	26 Jul	30	\$ 232,663.63	\$ 7,755.45	128.8	4.29	131.2	4.68	4.23
August	28 Aug	33	\$ 231,141.21	\$ 7,004.28	128.0	3.88	116.2	4.63	3.75
September	28 Sept	30	\$ 192,547.84	\$ 6,418.26	106.6	3.55	101.0	4.29	3.37
October	26 Oct	29	\$ 185,730.34	\$ 6,404.49	102.8	3.54	97.2	3.60	3.14
November	27 Nov	32	\$ 160,484.83	\$ 5,015.15	88.86	2.78	88.6	3.68	2.95
December	26 Dec	29	\$ 151,272.63	\$ 5,216.30	83.76	2.89	86.4	3.13	2.79
January	29 Jan	34	\$ 178,896.59	\$ 5,261.66	99.06	2.91	88.9	3.13	2.87
February	25 Feb	27	\$ 138,457.54	\$ 5,128.06	76.67	2.84	77.1	3.073	2.75
Total FY2019			\$ 2,154,501.25		1192.9	3.27			
From Previous Year									
FY2020									
March	25 Mar	28	\$ 133,691.61	\$ 4,774.70	74.03	2.64	78.92	2.79	2.63
April	26 Apr	32	\$ 166,000.30	\$ 5,187.51	91.92	2.87	86.10	3.14	2.78
May PW	29 May	28	\$ 165,635.43	\$ 5,711.57	91.7	3.16	96.0	3.55	3.10
May EP	21 May	28	\$ 165,635.43	\$ 5,711.57	91.7	3.16	96.0	3.55	3.10
June	25 Jun	27	\$ 169,315.97	\$ 6,270.96	93.75	3.47	103.86	3.97	3.46
July	26 July	31	\$ 227,811.02	\$ 8,437.45	126.14	4.07	126.25	4.52	4.07
August	28 Aug	33	\$ 252,836.21	\$ 7,661.70	140.00	4.24	127.1	4.41	4.10
September PW	17 Sep	19	\$ 147,483.72						

BCWA Engineering Report – for May 28, 2020

Prepared by: Susan Rabideau, PE, Engineering Project Manager

❖ 2020 Water Main Renewals

Our Contractor, W. Walsh Company, will begin work in June. Even though the start of the work was delayed, Walsh is confident that they will be able to complete the project in the 2020 construction season.

A sample mailer is attached that will be mailed to residents near the project areas. Language has been added addressing COVID19 protocols as the contractor or BCWA personnel may need to enter the homes to connect the bypass system.

RIDOT originally required curb to curb repaving for the entire length of the Hope Street work, as this is a designated “Scenic Roadway”. We requested a waiver from this requirement and the final permit requires curb to centerline for 2/3 of the project and just access pit repaving for the remainder. While this reduces our cost, we have decided the more cost-effective way to complete this paving is to solicit a paving contractor to do the final “mill and overlay” work. We are preparing a separate contract and will go out to bid for a paving contractor.

Recent water main breaks in a downtown Bristol neighborhood revealed severely deteriorated cast iron mains. We would like to add this work to the current water main renewal contract so that we can upgrade our infrastructure before the Town installs new sidewalks and roadway. See related memo requesting additional funds be added to this budget.

❖ Pawtucket Pipeline, Phase 1

Our design consultant, BETA, is continues work to finalize the design documents and obtain required easements. We anticipate bidding this project in June.

❖ Science Fair Awards

BCWA judged the local science fair projects for the BCWA Drinking Water Award. Members of the Engineering Department, along with new Board Member Chris Stanley, judged both junior and senior projects using written documentation submitted by each student or team. The projects were all very good, but the winners are:

Junior Division

1st Place: Angelina Deschenes – “Weeds Be Gone but at What Cost? The Effect of Weed Killers on the Water Quality in the Kickemuit River” (Angie was also our first-place winner last year!)

2nd place: Genevieve Geiser & McKaela Reekie- “Diffusion of Pollution: The Effect of Density on the Diffusion Rate of Liquid Pollution in Water”

Senior Division

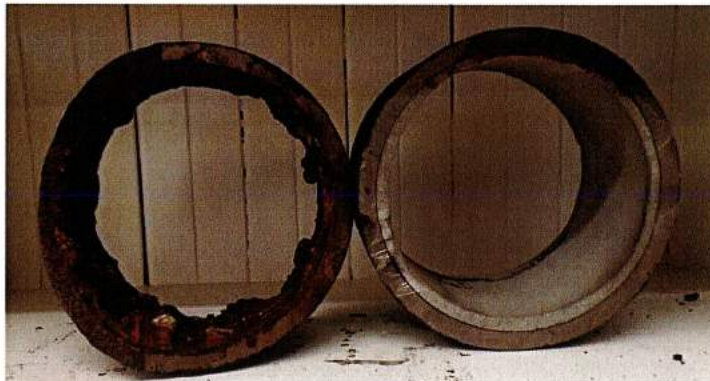
1st place: Aliyah Carrion and Drew Tyska- “The Effect of Psuedomonas flourescens as a Denitrifier”

2nd Place: Caliegh Bouchard- “Evaluating a bacterial GFP Biosensor for Water Contaminants”



WATER SYSTEM IMPROVEMENT PROJECT CLEANING AND LINING OF WATER MAINS

The BCWA will rehabilitate the water pipes on Bay Road, Barrington, from Nayatt Road to Chachapacassett Road this summer. The work involves “cleaning and cement-mortar lining” the interior of the old cast iron water pipes and will improve water quality and flow in your neighborhood.

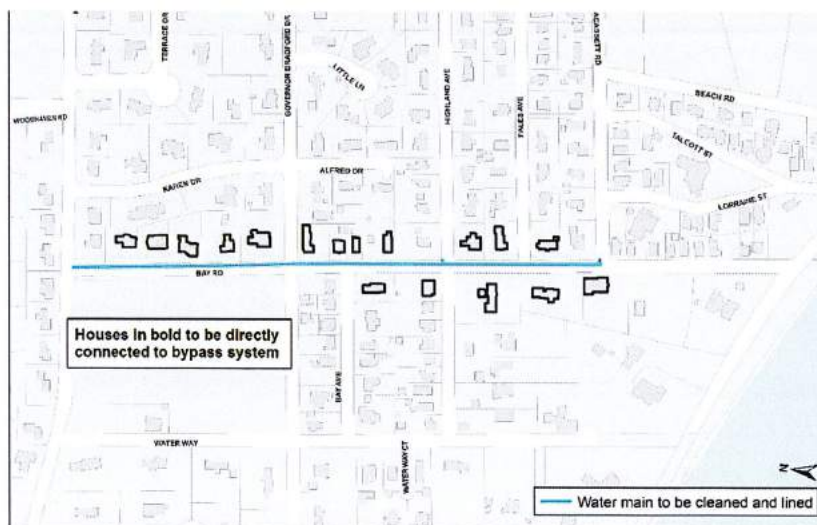


Before and after the cleaning and lining process

HOW WILL THIS WORK AFFECT YOU?

In order to perform these upgrades, the existing water pipes must be taken out of service for several weeks. While the water pipe is shut down, water supply will be provided to affected customers through temporary above-ground water bypass pipes. These pipes will be connected directly to the homes (shown in bold on the map). The water in the bypass pipes is safe to drink. It is tested and meets the same RI Dept. of Health water quality standards as the water from underground pipes.

The Contractor may need to obtain access to your basement to provide the proper connection hoses so your water service will be uninterrupted. If this is the case, protocols will be in place to maintain safety for both you and the workers. The workers will be screened daily to ensure



that they are in good health. They will work efficiently and with appropriate personal protective equipment (PPE) to reduce risk of contamination. If you have outside access to your basement, workers will be able to further limit exposure to your home. You will be asked to report any illnesses or exposure to COVID 19 in your household.

(over)

PLEASE WATCH YOUR STEP!

Temporary water service piping at driveway entrances will be covered with an asphalt or a rubber temporary ramp. At street crossings, the pipes will be buried below ground. There will also be smaller hoses connecting the bypass pipe to your home.



PROJECT SUMMARY

- The water main in Bay Road will be cleaned and lined this summer. The Contractor, Walsh Co., will begin laying the bypass piping in the neighborhood in June.
- Workers will follow strict protocols to limit the spread of COVID19. When working outdoors, workers will maintain appropriate distancing from your property. Any required entry into your home will be scheduled with you beforehand. Only workers who have passed a daily health screening will enter your home. If you have any concerns regarding workers entering your home to access the meter, please contact our office. To protect our workers, you will be required to complete a pre-entry survey to confirm that your family has no COVID19 illness or symptoms.
- If a planned temporary water service shut-off is necessary, affected residents will be notified in advance using door hangers. Service interruptions will be minimized to the extent possible.
- BCWA will require the Contractor to maintain the area safe throughout the project and all areas will be restored to original conditions. Trees, plants and lawns will be protected to the extent possible. If removed or damaged, they will be replaced.
- Please use extra caution when walking, driving, biking or running in the construction project area and over any temporary piping structures
- Normal work hours: 7:00am – 3:00pm, Monday through Friday. Police Officers and flagging operations will be used daily for each construction phase to maintain traffic in the construction work zone.



TEMPORARY INCONVENIENCE, PERMANENT IMPROVEMENTS

Clear, high quality drinking water and adequate fire protection is always our goal! We apologize for any inconveniences to your family as we make these upgrades. Should you have any questions or concerns about a worker wanting access to your basement, please don't hesitate to call our office at 401-245-2022 ext 38 between 8:30 AM and 4:30 PM, Monday - Friday.

Thank you for your patience and cooperation, **BRISTOL COUNTY WATER AUTHORITY**

BCWA Major Project Schedule																						
Project and task		4th Qtr 2019	1st Qtr 2020	2nd Qtr 2020	3rd Qtr 2020	4th Qtr 2020	1st Qtr 2021	2nd Qtr 2021	3rd Qtr 2021	4th Qtr 2021	1st Qtr 2022	2nd Qtr 2022	3rd Qtr 2022	4th Qtr 2022	1st Qtr 2023	2nd Qtr 2023	3rd Qtr 2023	4th Qtr 2023	1st Qtr 2024	2nd Qtr 2024	3rd Qtr 2024	4th Qtr 2024
Pawtucket Pipeline - Phase 1 (BCWA to EP tanks, 9,000')	Design, easements, permits																					
	Bidding																					
	Construction																					
Pawtucket Pipeline - Phase 2 (EP tanks to Pawtucket, 27,000')	Investigate/choose pipe alignment																					
	Survey																					
	soil borings																					
	Design (30%)																					
	Design (100%)																					
	Water Quality (blending) study																					
	Bidding																					
	Construction																					
Water Quality Assurance																						
	Install pressure and water quality collectors																					
	Backflow Prevention Program																					
	Unidirectional Flushing program																					
	Integrate hydraulic model, SCADA, GIS, Asset Mngt																					
	High Pressure Zone Expansion																					
	Planning, hydraulic modeling																					
	Hope Street Pump Station																					
	Purchase corner lot																					
	demolish existing home																					
	Environmental Study, permits, Site work																					
	Design of Pump Station																					
	Design																					
	Bid																					
	Construction																					
	Water main installation, pressure reducing valves, low service tie-ins, etc.																					
	Miscellaneous system connections																					
	Metacom Ave, Robin to Gooding (1800')																					
	Metacom Ave, Tupelo to Overhill (3800')																					
	Metacom Ave, Franklin to Tower (1800')																					
	Bay View, Metacom to Manchester (2600')																					
	Hope St, Tupelo to Gibson (2700')																					
Divest of Non-Operable Assets																						
Child Street Treatment Plant	Upper and Lower Kickemuit Dams																					
	Nayatt Treatment Plant																					
	MA water sources																					

Bristol County Water Authority

Information Technology Report

May 20, 2020

Randall S. Manchester, IT Specialist

Most of the previous month entailed adding new functionality to the base systems (modifications, new reports, server patches, bug fixes, improvements etc.) and the day-to-day running of the IT department.

Building Security - Update

We have completed the installation of two new security cameras. One is targeting the main entrance (outside, pointed at the door) and the other is mounted on a telephone pole in the operations yard targeting our outside stock. These two cameras really flush out the remaining holes in our video coverage.

Anti-Virus Software Upgrade - Update

The anti-virus migration (from Symantec anti-virus to Bitdefender) is now complete.

Desktop Refresh - Update

The desktop computer refresh is now complete.

Backup Internet Source

We are now 'live' with our backup internet connection. Our primary source is Cox Communications. Our secondary is i3 (formally Full Channel). It's configured so that if our primary internet connection goes down our secondary will take over automatically. As we rely more and more on internet connectivity, it becomes more important to have a super reliable internet connection.

Website Statistics

Unique visitors – Last four months. Not too much change.

Feb:	2,110
March:	1,956
April:	1,807
May:	1,550 (as of May 20 th)

Here is an interesting device usage breakdown. Looking back to the start of the year, the type of devices our customer's use is broken down like this:

Desktops/Laptops	63%
Mobile (phones)	34%
Tablet	3%

I am a bit surprised at how few tablets that are being used!



Date: May 21, 2020

To: Pamela Marchand, P.E., Executive Director

From: Michael Crawford, P.E., Operations Manager

RE: Operations Report

COVID-19

The Bristol County Water Authority (BCWA) is continuing to operate under the preventative measures developed in our early planning efforts to ensure continuity of service and staff health and welfare in response to the COVID-19 pandemic. This, in general, involved splitting staff assignments to avoid staff interaction, therefore limiting the potential exposure one infected individual could have on the group. So far, efforts have been successful, though, we are continuing to assess our actions in an effort to expand our work responsibly and safely in the community.

Water Quality

The Authority continues our sampling program to ensure the safety and quality of our drinking water. However, access to sampling sites continues to be a challenge during this pandemic. We have maintained communication with the Rhode Island Department of Health (RIDOH) to coordinate the necessary steps to ensure our sampling efforts and sampling locations are in performed in accordance with all applicable regulations. Sampling efforts performed and to be performed this month include Total Coliform Rule (RTCR), Disinfection byproduct (DBP), and Unregulated Contaminant Monitoring Rule (UCMR4).

Transmission and Distribution

The Authority transmission and distribution (T&D) responsibilities have focused on repair efforts and service installations this past month. Efforts included water service installations, hydrant repairs and water main repairs. One item of note is the continual development of the Authority staff with work currently being completed with minimal contracted services.

One area of concern investigated over the past month was Rock St. in Bristol. This water main had multiple issues that were challenging to identify given the multiple failures in the line. After multiple investigations and repairs, the flow and pressure were restored to the customers in the

area. However, given the condition of the main as it was assessed during the repairs, we have begun to coordinate with both National Grid and the Town of Bristol to replace the water main with our current contractor this coming construction season.

Projects

The Authority is pursuing multiple facility improvement projects at this time. They include, but are not limited to, a lift replacement, demolition of a residential property in advance of the pump station construction, lead contaminated soil remediation project and a water treatment plant demolition/remediation project. All projects are moving forward at varying levels of progress. A brief overview is as follows:

Lift Replacement: Wright-Pierce has been tasked with the design of the replacement lift. The engineer is currently developing the plans for the project. The goal is to advertise the project this summer.

1308 Hope St. Demolition: Solicitations went out to firms specializing in the work required to remediate the hazards and raze the building. The goal is to complete the work in the next couple of months to allow access for the lead soil remediation project.

Lead Contaminated Soil Remediation: PARE Corporation has been diligently developing a remediation plan in close coordination with the Rhode Island Department of Environmental Management (RIDEM). The goal is to advertise the project and complete the remediation in advance of the larger pump station construction project.

Child St. Water Treatment Plant Demolition: Solicitations are being developed to engage environmental consultants to investigate and quantify the environmental conditions present on the site. Following the investigations contract documents will be developed to procure the services necessary to raze the building, yard structures and restore the site.

Sliplining of the East Bay Pipeline

With the warm weather upon us, the Contractor has returned to the site to tend to the remaining items at the golf course. With some seed holding from the Fall seeding, the Contractor worked to restore some areas that eroded over the summer and constructed a resilient swale with stone to ensure soil stability while the vegetation takes hold. See Figure 1. for an overview of the restoration effort. We will continue our coordination to ensure all remaining items are addressed in accordance with the contract documents.



Figure 1. Silver Springs Golf Course Restoration

Bristol County Water Authority

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May 20, 2020

Randall S. Manchester, IT Specialist

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BRISTOL COUNTY WATER AUTHORITY

BOARD OF DIRECTORS FINANCIAL REPORTS

for
March 2020 (FY 2021)

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P&L Budget vs. Actual for FY 2020 (YTD).....	N/A
Dollars Billed/Gallons Delivered Charts YTD	5
Dollars Billed Graph YTD	6
Gallons Delivered Graph YTD	7
Trustee Fund Report (Mar 2020).....	8
Pension Summary Report (MAR)	9



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BRISTOL COUNTY WATER AUTHORITY

FINANCIAL ANALYSIS SUMMARY

For March 2020 (FY 2021)

The following financial information is for the first month of fiscal year **2021** ending March 31st, 2020. Although the financial audit for FY 2020 is still underway (remotely), I have completed the financials for March 2020, the first month of FY 2021. I expect the Auditors to wrap up their work by the end of May. We are running about 3 weeks behind our normal schedule. I'm hoping on a draft from them by about June 10th. Then I will complete the MD&A for the Auditors to approve and add to the Audited Financials. We will then incorporate the audited financials with the Annual Report documents and have booklets printed. They possibly will be ready to distribute to Board at the June Board Meeting, but more likely the July meeting.

With only a month under wraps we cannot make too many assumptions or trends for the new fiscal year. Please note that there is no comparison to budget for March as the budget info has not been entered completely into the system as of this date. March revenues were about 10% higher than last year (which was a very poor revenue month). Also, we are closely monitoring the impact of COVID-19, not so much on the revenue numbers but on the collection numbers. As we are under current constraints by the state to curb shut-offs and collection efforts during this period, our current collections seem to only be down **12%-15%** from normal. We are in process of encouraging those with financial issues to contact us to work out a payment plan. We are fortunate to have sufficient reserves to deal with this issue without any financial problems. Brief information of note from the March report is as follows:

1. The "Dollars Billed" and "Gallons Delivered" charts on pages 6 shows a good increase in billings and usage of **7.0%** and **16%** respectively for March 2020 as compared to a year ago. Accrued revenue on page 4 of the financials shows a increase in revenue of **9.6%** for March 2020 and an increase **7.2%** for the first month of FY 2020. BCWA instituted a phased in 10% rate increase on March 1st. but this would have little impact on the March figures.
2. A summary Pension Investment report for March is attached on page 9. I would only add that the deep losses from March have recovered significantly in April and May with the current market surge. We just need to hang in there for a further recovery this year. (fingers crossed). We will discuss this and other issues at the ZOOM meeting on the 28th. If you have any questions please contact me.

Mark J. Champagne - Manager of Finance – (X23)

4:24 PM

05/20/20

Accrual Basis

Bristol County Water Authority
Balance Sheet
As of March 31, 2020

	Mar 31, 20
ASSETS	
Current Assets	
Checking/Savings	
10106 · Webster Bank - Operating #802	271,674.57
10110 · Webster Bank - Depository #811	259,872.71
10119 · Checking - Newport (Refunds)	2,000.00
10130 · Petty Cash -Admin.	558.72
10135 · LOC Checking WTI	3,968.30
10145 · Custom Deposit Escrow - Webster	320,000.00
Total Checking/Savings	858,074.30
Accounts Receivable	
10205 · Accounts Receivable - QB BILLED	-344.33
Total Accounts Receivable	-344.33
Other Current Assets	
10250 · ACCOUNTS RECEIVABLE - OTHER	1,577,463.37
10260 · Accounts Receivable (CUI)	1,249,896.65
10300 · Unrestricted Trustee Funds	16,403,026.97
10400 · ***** Inventory *****	314,413.65
10460 · Prepaid Expenses	22,783.15
10470 · Prepaid Insurance	47,699.07
Total Other Current Assets	19,615,282.86
Total Current Assets	20,473,012.83
Fixed Assets	
10500 · *****FIXED ASSETS*****	80,592,009.37
Total Fixed Assets	80,592,009.37
Other Assets	
10600 · OTHER ASSETS-Restricted*****	17,443,645.15
Total Other Assets	17,443,645.15
TOTAL ASSETS	118,508,667.35
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
20000 · ACCOUNTS PAYABLE *****	358,408.06
Total Accounts Payable	358,408.06
Credit Cards	
20140 · WEBSTER VISA CARDS	2,090.74
Total Credit Cards	2,090.74
Other Current Liabilities	
20160 · ****Accounts Payable OTHER ****	379,810.26
20200 · ACCRUED EXPENSES *****	1,282,509.05
20300 · ACCRUED INTEREST Long Term Debt	74,519.00
20355 · Advances from FEMA/RI for Dams	77,404.02
20400 · CURRENT PORTION Long Term Debt	2,442,607.06
20500 · NET PENSION ALLOCATION	774,450.00
20501 · DOR-Diff between Expected & Act	-162,287.00
20502 · DOR-Changes in assumptions	-216,684.00
20503 · DIR-Diff projected&actual earn	-271,483.00
20504 · DIR diff expect & Actual	18,152.00

4:24 PM

05/20/20

Accrual Basis

Bristol County Water Authority
Balance Sheet
As of March 31, 2020

	Mar 31, 20
20505 · Dir diff expect & actual earnin	84,900.00
20506 · DOR - OPEB	-50,403.00
20507 · DIR - OPEB	58,376.00
20600 · GASB 45 NET OPEB OBLIGATION	3,669,005.00
20650 · Def.Revenue Grant Current Amt.	11,516.52
Total Other Current Liabilities	8,172,391.91
Total Current Liabilities	8,532,890.71
Long Term Liabilities	
20700 · LONG TERM DEBT	35,415,206.59
Total Long Term Liabilities	35,415,206.59
Total Liabilities	43,948,097.30
Equity	
30108 · Restrict for Cap Activity & DS	6,722,860.00
30105 · Net Investment in Capital Asset	52,893,283.00
32000 · Unrestricted Net Assets	14,678,457.06
Net Income	265,969.99
Total Equity	74,560,570.05
TOTAL LIABILITIES & EQUITY	118,508,667.35

4:22 PM

05/20/20

Accrual Basis

Bristol County Water Authority
Profit & Loss Prev Year Comparison
March 2020

	Mar 20	Mar 19	\$ Change	% Change
Ordinary Income/Expense				
Income				
40000 · WATER	1,079,965.49	951,993.00	127,972.49	13.4%
41000 · FIRE SERVICES	26,629.75	54,619.59	-27,989.84	-51.3%
42000 · OTHER INCOME	4,289.11	7,117.09	-2,827.98	-39.7%
Total Income	1,110,884.35	1,013,729.68	97,154.67	9.6%
Gross Profit	1,110,884.35	1,013,729.68	97,154.67	9.6%
Expense				
50100 · SALARIES & WAGES-Admin	89,022.87	76,451.25	12,571.62	16.4%
50200 · OFFICE EXPENSES-Admin	5,768.41	7,838.94	-2,070.53	-26.4%
50300 · ADMINISTRATIVE EXPENSES	28,460.25	49,479.11	-21,018.86	-42.5%
50400 · EMPLOYEE BENEFITS	42,800.40	45,911.59	-3,111.19	-6.8%
50450 · OPEB - Retiree Benefits	6,134.44	6,687.70	-553.26	-8.3%
50500 · INSURANCE	14,910.73	15,886.03	-975.30	-6.1%
50600 · PROFESSIONAL FEES	45,794.37	11,315.12	34,479.25	304.7%
50700 · MAINTENANCE FEES	1,247.62	970.00	277.62	28.6%
50800 · COMPUTER EXPENSES	12,779.25	13,118.02	-338.77	-2.6%
50900 · TAXES	22,955.64	57,173.75	-34,218.11	-59.9%
51000 · DEPRECIATION & AMORTIZATION	173,418.00	139,666.00	33,752.00	24.2%
60100 · SALARIES & WAGES -BILLING	29,187.30	26,637.80	2,549.50	9.6%
60200 · BILLING & CUST SERVICE EXPENSES	8,340.56	9,219.61	-879.05	-9.5%
70100 · SALARIES & WAGES -OPERATIONS	105,734.37	105,462.13	272.24	0.3%
70210 · Purchase Water (PROV)	172,796.06	133,691.61	39,104.45	29.3%
70220 · UTILITIES EXPENSES	7,160.29	8,853.03	-1,692.74	-19.1%
70300 · OPERATIONS MAINTENANCE EXPENS...	23,307.13	21,522.69	1,784.44	8.3%
70400 · OPERATIONS - OTHER Expenses	12,147.14	18,271.30	-6,124.16	-33.5%
Total Expense	801,964.83	748,155.68	53,809.15	7.2%
Net Ordinary Income	308,919.52	265,574.00	43,345.52	16.3%
Other Income/Expense				
Other Income				
90110 · Interest Income - Investment	0.00	0.00	0.00	0.0%
90120 · Interest Income - Late Pay'ts	1,904.47	1,779.72	124.75	7.0%
90510 · Capital Contributions	29,665.00	14,300.00	15,365.00	107.5%
Total Other Income	31,569.47	16,079.72	15,489.75	96.3%
Other Expense				
90210 · Interest Expenses Bonds	74,519.00	46,566.00	27,953.00	60.0%
90300 · Other Non-Reoccurring Expenses	0.00	0.00	0.00	0.0%
Total Other Expense	74,519.00	46,566.00	27,953.00	60.0%
Net Other Income	-42,949.53	-30,486.28	-12,463.25	-40.9%
Net Income	265,969.99	235,087.72	30,882.27	13.1%

Bristol County Water Authority
DOLLARS BILLED

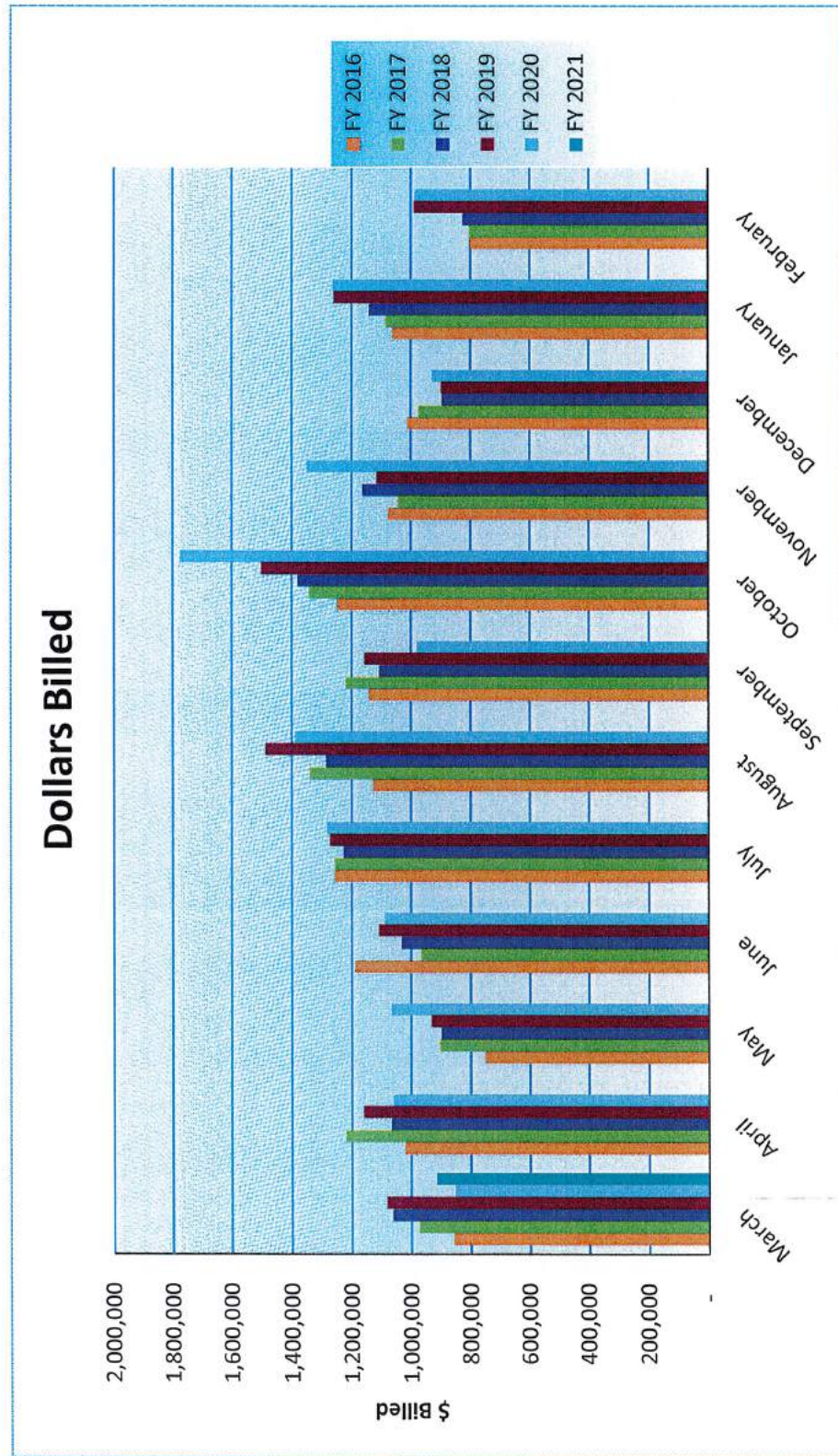
Rate Increase	10.00%	4.50%	3.25%	3.25%	3.25%	3.25%	4%	11%	3%	3%	9%
Month	FYE 2/28/21	FYE 2/29/20	FYE 2/28/19	FYE 2/28/18	FYE 2/28/17	FYE 2/29/16	FYE 2/28/15	FYE 2/28/14	FYE 2/28/13	FYE 2/29/12	FYE 2/28/11
March	913,295	853,489	1,082,268	1,062,187	973,057	858,812	801,137	783,079	726,966	685,306	651,228
April	-	1,060,287	1,159,853	1,066,621	1,220,703	1,020,783	1,039,385	1,019,061	890,372	846,186	915,264
May	-	1,066,703	932,621	897,423	901,355	751,646	831,110	825,771	857,184	914,861	776,743
June	-	1,089,424	1,107,682	1,033,512	966,204	1,187,322	979,454	919,418	852,822	727,189	765,253
July	-	1,282,786	1,272,501	1,227,655	1,255,828	1,255,714	1,212,318	1,130,719	1,094,920	994,250	1,105,779
August	-	1,389,788	1,488,068	1,284,904	1,339,470	1,126,483	1,218,162	1,176,859	1,075,645	1,202,153	1,089,941
September	-	981,438	1,156,214	1,106,672	1,219,011	1,140,603	982,732	930,271	856,173	886,657	809,923
October	-	1,777,970	1,501,668	1,380,222	1,341,150	1,245,910	1,256,156	1,273,654	1,157,107	1,056,960	1,176,900
November	-	1,351,041	1,114,566	1,164,261	1,042,177	1,075,799	1,010,052	905,738	864,278	783,718	841,625
December	-	928,015	897,447	894,922	973,391	1,011,171	875,996	874,292	691,567	737,462	742,369
January	-	1,261,627	1,259,079	1,141,717	1,085,463	1,061,229	1,123,048	1,064,797	1,023,630	1,033,134	898,053
February	-	987,548	989,254	825,990	804,506	800,310	881,658	842,427	682,429	715,587	835,341
Year TOTALS:	913,295	14,030,116	13,961,223	13,086,087	13,127,314	12,535,783	12,211,209	11,746,087	10,773,093	10,583,462	10,608,417
Variance	-93.49%	0.49%	6.69%	-0.28%	4.68%	2.66%	3.96%	9.03%	1.79%	-0.24%	15.09%
YTD TOTALS:	\$913,295	\$853,489	\$1,082,268	\$1,062,187	\$973,057	\$858,812	\$801,137	\$783,079	\$726,966	\$685,306	\$651,228
Variance	7.01%	-21.14%	1.89%	9.16%	13.30%	7.20%	2.31%	7.72%	6.08%	5.23%	9.32%

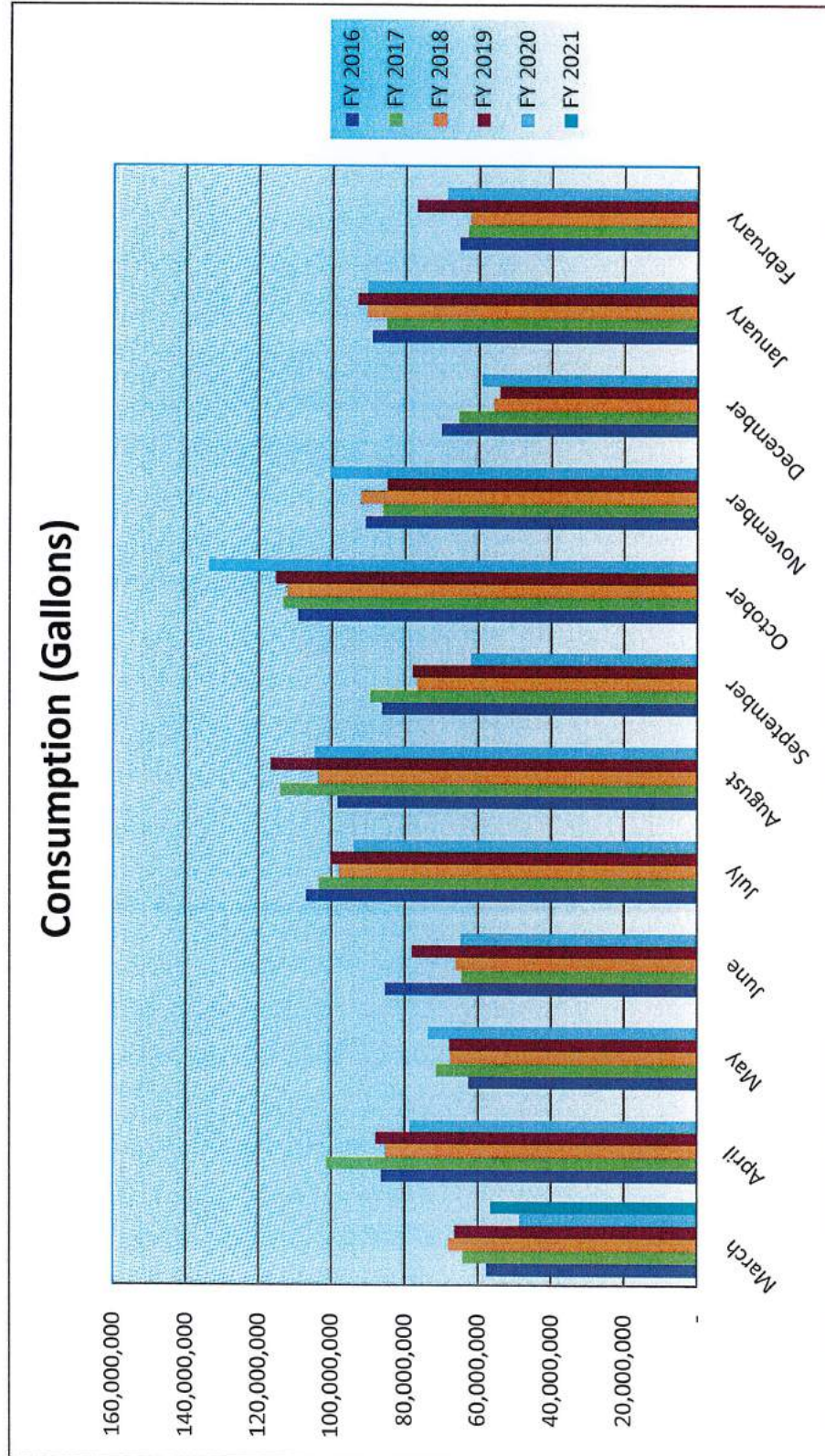
File: Board - Billed and Consumption

Bristol County Water Authority
Gallons Delivered (Consumption)

Month	FYE 2/28/21	FYE 2/29/20	FYE 2/28/19	FYE 2/28/18	FYE 2/28/17	FYE 2/29/16	FYE 2/28/15	FYE 2/28/14	FYE 2/28/13	FYE 2/29/12	FYE 2/28/11
March	56,480,054	48,692,333	66,393,127	68,189,315	64,031,375	57,601,236	54,865,000	52,743,000	57,628,000	55,806,000	67,154,000
April	-	78,605,111	87,808,065	85,127,795	101,242,617	86,332,984	90,145,000	96,372,000	92,250,000	90,725,000	92,943,000
May	-	73,640,720	67,939,450	67,576,621	71,358,267	62,490,289	69,769,000	73,933,000	85,597,000	97,654,000	83,640,000
June	-	64,745,063	78,138,297	66,111,841	64,536,343	85,376,913	70,136,000	68,356,000	68,368,000	60,776,000	66,893,000
July	-	93,846,153	100,276,820	97,863,562	103,521,330	106,956,605	107,382,000	105,685,000	113,225,000	111,341,000	119,708,000
August	-	104,631,510	116,686,394	103,546,017	114,163,052	98,336,219	110,285,614	110,286,000	112,718,000	130,137,000	122,402,000
September	-	62,044,422	77,969,974	76,712,418	89,444,332	86,204,311	80,191,734	72,628,000	75,010,000	80,974,000	75,362,000
October	-	133,804,418	115,372,730	112,205,177	113,305,730	109,268,982	112,435,620	115,565,000	120,189,000	112,658,000	131,856,000
November	-	100,614,961	84,898,876	92,093,354	86,082,371	90,764,729	89,386,000	83,425,000	88,692,000	82,139,000	92,967,000
December	-	59,151,519	54,358,442	55,836,171	65,464,735	70,229,384	60,989,676	63,961,000	53,012,000	60,301,000	63,875,000
January	-	90,344,296	92,953,669	90,438,722	85,196,771	89,121,901	99,107,008	98,921,000	102,175,000	105,981,000	97,401,000
February	-	68,908,239	77,056,544	62,298,775	62,903,839	65,301,648	73,712,408	74,309,000	67,989,000	74,065,000	85,640,000
Year TOTALS:	56,480,054	979,028,745	1,019,852,388	977,999,768	1,021,250,762	1,007,985,201	1,018,405,060	1,016,184,000	1,036,853,000	1,062,557,000	1,099,841,000
Variance	-94.23%	-4.00%	4.28%	-4.24%	1.32%	-1.02%	0.22%	-1.99%	-2.47%	-3.39%	5.51%
YTD TOTALS:	56,480,054	48,692,333	66,393,127	68,189,315	64,031,375	57,601,236	54,865,000	52,743,000	57,628,000	55,806,000	67,154,000
Variance	15.99%	-26.66%	-2.63%	6.49%	11.16%	4.99%	4.02%	-8.48%	3.26%	-16.90%	23.97%

File: Board - Billed and Consumption







Overview of Your Account - xxxxxx0020 BRISTOL CNTY WATER AUTH PENSION TUA

Investment Objective: Growth

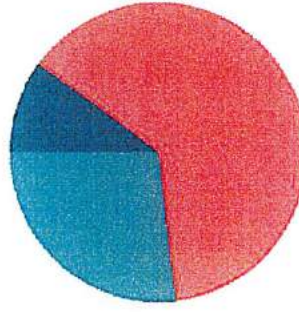
Activity Summary

	This Period (\$)	Year to Date
Beginning Market Value	4,563,477.16	4,523,115.65
Cash and security transfers	0.00	0.00
Contributions	18,600.00	269,200.00
Income & Capital Gain Distributions	12,042.58	79,906.60
Fees	-2,448.41	-22,360.73
Withdrawals	-13,990.95	-222,782.50
Change in Account Value	-529,156.18	-578,554.82
Market Value on Mar 31, 2020	\$4,048,524.20	\$4,048,524.20

Asset Allocation on March 31, 2020

	Market Value (\$)	Percent
Cash	412,815.85	10%
Equities	2,554,676.34	63%
Fixed Income	1,105,615.06	27%
Subtotal	\$4,073,107.25	100%
Liabilities/Pending Activities	-24,583.05	
Total of Your Account	\$4,048,524.20	

This pie chart reflects managed assets only.



Income Earned

	This Period (\$)	Year to Date
Taxable Income	0.00	0.00
Tax-Exempt Income	12,042.58	79,906.60
Tax-Deferred Income	0.00	0.00
Total Income Earned	\$12,042.58	\$79,906.60
Total Short Term Realized Capital Gain/Loss	-\$7,663.02	-\$11,535.78
Total Long Term Realized Capital Gain/Loss	-\$63,266.98	\$116,180.76
Total Realized Capital Gain/Loss	-\$70,930.00	\$104,644.98

This summary is for your reference. It is not intended for tax-reporting purposes. Taxable income is taxable at the federal level and may be taxable at the state level. Income Earned amount shown is net of foreign tax withholding, if applicable.



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BRISTOL COUNTY WATER AUTHORITY

MEMO

Date: May 22, 2020

To: BCWA Board Members

From: Pamela M. Marchand

Re: 1308 Hope St. Demolition

This is for the demolition of the house we purchased on the corner of Hope St. and Tupelo St. for the construction of a new pump station. See Mike Crawford's information, attached.

Utilizing the state Mast Price Agreement, we solicited from four vendors.

It is recommended that the Board award the demolition contract to AA Wrecking in the amount of \$41,980.



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BRISTOL COUNTY WATER AUTHORITY

Date: May 21, 2020

To: Pamela Marchand, P.E., Executive Director

From: Michael Crawford, P.E., Operations Manager

CC:

RE: 1308 Hope St. Demolition

Background

The Bristol County Water Authority recently completed the purchase of a property located at 1308 Hope St. in Bristol, RI. This property abuts a BCWA tank site (Hope St. Tank) and is an ideal location to support the construction of a pump station. Included in the purchase of the land was a residential structure including a garage. To support the future construction project, it is necessary to raze the existing structures.

BCWA contracted with Environmental Consulting Management Inc. (ECM) to conduct a pre-demolition inspection and waste characterization of the building structures and contents. The report generated from this inspection was utilized as part of the request for proposals to firms qualified in the services required to handle the waste and demolition required.

With the characterization of waste and asbestos containing material, BCWA engaged four (4) firms pre-qualified through the State of Rhode Island's Master Price Agreement #196 Asbestos Removal. Utilizing this procurement method allowed BCWA to directly solicit firms specializing in the services necessary to complete the Scope of Work developed around the demolition project and waste characterizations detailed in the pre-demolition inspection. Of the four (4) vendors solicited for proposals, BCWA received three proposals as one vendor declined to submit. A summary of the proposals is as follows:

1308 Hope St. Demolition

<u>Contractor</u>	<u>Total Bid Price</u>
AA Wrecking	\$41,980.00
Atlantic Abatement	\$71,258.00
Yankee Fiber	\$74,583.00

Recommendation

BCWA staff has contacted vendors prequalified through the State of Rhode Island Master Price Agreement #196 Asbestos Removal. Utilizing this contract vehicle, BCWA staff was able specify a scope of work and obtain proposals to support the work necessary to remediate the waste and raze the structures in accordance with the authorities having jurisdiction over the necessary work.

AA Wrecking, a prequalified vendor, responded to BCWA's inquiry with a proposal for the remediation and demolition services specified in the RFP. AA Wrecking's proposal was complete and accurate and is the recommended vendor to complete the work as specified.



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BRISTOL COUNTY WATER AUTHORITY

MEMO

Date: May 22, 2020

To: BCWA Board Members

From: Pamela M. Marchand

Re: FY2021 Water Main and Stock Materials

These items are bid each year. See attached information.

It is recommended that the items highlighted in the attachment (as estimated quantities) are awarded to the specified vendor in each category: Hoadley, EJ Prescott, Warwick Winwater, Stiles, Core&Main.



Date: May 21, 2020
To: Pamela Marchand, P.E., Executive Director
From: Michael Crawford, P.E., Operations Manager
CC:
RE: FY 21 Water Main and Stock Materials

Background

The Bristol County Water Authority (BCWA) annually solicits proposals for water main and stock materials related to the products necessary to support the operation and maintenance of the BCWA distribution system. On Friday, May 1, 2020 seven (7) proposals were received detailing unit costs for the items specified. The proposals were reviewed to determine lowest cost, compliance with BCWA specifications and accuracy. A complete tabulation is attached with the highlighted items depicting the lowest cost item meeting BCWA specifications as proposed by each vendor.

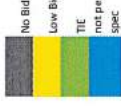
Recommendation

On Friday, May 1, 2020, bids for providing water main and stock materials were opened and publicly read. The bids have been carefully compared and the recommendation is to award as highlighted for each item in the attached tabulation.

Enclosure
Bid Tabulation Water Main and Stock Materials

BCWA WATER MAIN AND APPURTENANCE STOCK MATERIAL BID LIST - 6/1/20 - 5/31/21

Item	Inventory Item No.	Description	Estimated Quantity	Unit	Ti-Sales	Ferguson	Headley	E.J. Prescott	Warwick	Core & Main
	Anchoring Tees								Stiles	
1.	Anchoring Tees 1227	6" x 6" ANCHORING TEE, MJ X SWIVEL MJ	1	Each		\$116.36	\$97.25	\$110.00	\$97.00	\$100.88
2.	Anchoring Tees 1229	8" x 6" ANCHORING TEE, MJ X SWIVEL MJ	1	Each		\$154.81	\$120.50	\$145.00	\$122.00	\$126.38
	Bands									
3.	Bands 1625	2" BENDS - BRASS 90° FNPT BOTH ENDS	6	Each			\$15.50	\$45.00		\$17.42
4.	Bands 1247	4" BENDS - MJ, 90°	1	Each		\$45.48	\$35.25	\$38.00	\$36.00	\$37.13
5.	Bands 1456	4" BENDS - MJ, 45°	1	Each		\$37.67	\$29.25	\$32.00	\$30.00	\$30.75
6.	Bands 1460	6" BENDS - MJ, 22 1/2°	1	Each		\$55.13	\$42.95	\$47.00	\$43.00	\$45.01
7.	Bands 1236	6" BENDS - MJ, 11 1/4°	1	Each		\$57.42	\$44.70	\$48.00	\$45.00	\$46.88
8.	Bands 1243	6" BENDS - MJ, 90°	1	Each		\$74.42	\$58.00	\$51.00	\$59.00	\$60.75
9.	Bands 1249	6" BENDS - MJ, 45°	1	Each		\$60.46	\$47.20	\$48.00	\$48.00	\$49.51
10.	Bands 1228	8" BENDS - MJ, 11 1/4°	1	Each		\$78.09	\$60.80	\$75.00	\$62.00	\$63.76
11.	Bands 1244	8" BENDS - MJ, 45°	1	Each		\$88.20	\$68.65	\$72.00	\$70.00	\$72.01
12.	Bands 1240	8" BENDS - MJ, 22 1/2°	1	Each		\$85.91	\$66.90	\$72.00	\$68.00	\$70.13
13.	Bands 1253	8" BENDS - MJ, 90°	1	Each		\$107.95	\$84.00	\$90.00	\$85.00	\$88.13
	Blow Off Assemblies									
14.	Blow Off Assemblies 1252	GI Industries 2" slimline, 30" model No. 6HS-30 *	4	Each				\$270.00	\$277.00	\$265.22
15.	Blow Off Assemblies 1251	GI Industries 2" slimline, 36" model No. 6HS-36 *	4	Each				\$278.00	\$285.00	\$272.83
16.	Blow Off Assemblies 1205	GI Industries 2" slimline, 40" model No. 6HS-40 *	3	Each				\$280.00	\$287.00	\$275.00
	Caps									
17.	Caps 1497	6" CAP, MJ, TAPPED 2" (FIPT)	1	Each			\$38.00	\$41.00	\$28.00	\$39.75
18.	Caps 1478	8" CAP, MJ, TAPPED 2" (FIPT)	1	Each			\$52.50	\$57.00	\$57.00	\$55.13
	Clamps									
19.	Clamps 1270	2" full circle repair clamp, range 2.35 - 2.63, Ford Model No. F1-263-7.5 or equal	6	Each	\$41.43		\$36.25	\$34.00	\$49.00	\$39.49
20.	Clamps 1369	2" x 3/4" full circle clamp, range 2.35 - 2.63, Ford Model No. F1-263-7.5-CC3 or equal	4	Each	\$53.23		\$40.50	\$34.00	\$64.00	\$53.82
21.	Clamps 1447	2" x 1" full circle clamp, range 2.35 - 2.63, Ford Model No. F1-263-7.5-CC4 or equal	4	Each	\$53.23		\$40.70	\$37.00	\$64.00	\$50.73
22.	Clamps 1446	2 1/4" x 1" full circle clamp, range 2.70 - 3.00, Ford Model No. F1-300-7.5-CC4 or equal	4	Each	\$55.09		\$62.40	\$37.00	\$64.00	\$55.70
23.	Clamps 1278	2 1/4" x 3/4" full circle clamp, range 2.70 - 3.00, Ford Model No. F1-300-7.5-CC3 or equal	4	Each	\$55.09		\$62.40	\$37.00	\$64.00	\$55.70
24.	Clamps 1607	2 1/4" full circle repair clamp, range 2.70 - 3.00, Ford Model No. F1-300-7.5 or equal	6	Each	\$41.55		\$39.10	\$37.00	\$40.00	\$42.02
25.	Clamps 1495	6" x 3/4" full circle service clamp, range 6.84 - 7.64, Ford Model No. F1-764-7.5-CC3 or equal	2	Each	\$103.63		\$102.45	\$93.00	\$150.00	\$98.77
26.	Clamps 1496	6" x 1" full circle service clamp, range 6.84 - 7.64, Ford Model No. F1-764-7.5-CC4 or equal	2	Each	\$103.63		\$102.45	\$93.00	\$150.00	\$98.77
27.	Clamp 1742	6" full circle repair clamp, range 6.84 - 7.64, Ford Model No. F1-764-7.5 or equal	6	Each	\$89.14		\$80.75	\$72.00	\$79.00	\$84.96
28.	Clamps 1744	6" full circle repair clamp, range 6.84 - 7.64, Ford Model No. F1-764-10 or equal	6	Each	\$114.42		\$106.25	\$100.00	\$128.00	\$115.69
29.	Clamps 1550	6" x 3/4" full circle service clamp, range 6.84 - 7.64, Ford Model No. F1-764-10-CC3 or equal	1	Each	\$125.75		\$125.00	\$120.00	\$149.00	\$127.14
30.	Clamps 1552	6" x 1" full circle service clamp, range 6.84 - 7.64, Ford Model No. F1-764-10-CC4 or equal	1	Each	\$125.75		\$125.00	\$120.00	\$149.00	\$127.14
31.	Clamps 1273	8" full circle repair clamp, range 8.99 - 9.79, Ford Model No. F1-979-7.5 or equal	4	Each	\$98.08		\$88.00	\$85.00	\$89.00	\$95.11
32.	Clamps 1441	8" x 1" full circle service clamp, range 8.99 - 9.79, Ford Model No. F1-979-7.5-CC4 or equal	2	Each	\$108.07		\$113.00	\$112.00	\$167.00	\$109.26
33.	Clamps 1516	8" x 3/4" full circle service clamp, range 8.99 - 9.79, Ford Model No. F1-979-7.5-CC3 or equal	2	Each	\$108.07		\$113.00	\$112.00	\$167.00	\$109.26
34.	Clamps 1545	8" full circle repair clamp, range 8.99 - 9.79, Ford Model No. F1-979-10 or equal	2	Each	\$117.91		\$115.00	\$123.00	\$143.00	\$119.21
35.	Clamps 1590	8" ball joint repair clamp, range 8.99-9.40 TPS Quick-Sleeve ENCSLV-0940-0000 or equal	2	Each			\$990.00	\$1,144.00	\$806.00	\$835.44
36.	Clamps 1593	8" x 3/4" full circle service clamp, range 8.99 - 9.79, Ford Model No. F1-979-10-CC3 or equal	1	Each	\$131.29		\$136.00	\$148.00	\$167.00	\$132.74
37.	Clamps 1544	8" x 1" full circle service clamp, range 8.99 - 9.79, Ford Model No. F1-979-10-CC4 or equal	1	Each	\$131.29		\$136.00	\$148.00	\$167.00	\$132.74
38.	Clamps 1591	12" ball joint repair clamp, range 13.08-13.66 TPS Quick-Sleeve ENCSLV-1358-0000 or equal	2	Each			\$1,290.00	\$1,550.00	\$267.00	\$1,133.41



83.	Couplings 1289				2	Each	\$159.81		\$142.50	\$137.00	\$107.00	\$170.88	\$134.75
84.	Couplings 1444		12" Cast coupling for C.I./D.I., range 13.20 - 13.50		2	Each	\$133.28		\$131.50	\$137.00	\$200.00	\$127.03	\$134.75
85.	Couplings 1291		12" Cast transition coupling: 13.20 - 13.50 x 14.03-14.38 Ford No. FC26A-13.50-14.38 or equal		2	Each	\$334.13		\$298.50	\$285.00	\$881.00		\$308.43
Curb Boxes													
86.	Curb Boxes 1319		Curb box bottom: slide type to fit 2 1/2" top, 37.5" long (Buffalo Style)		100	Each			\$15.00	\$13.00	\$16.00		\$36.38
87.	Curb Boxes 1403		Rods, rings and pins for 2 1/2" curb box, 33" long		100	Each			\$7.65	\$9.50	\$10.00		\$21.84
88.	Curb Boxes 1404		Curb box top: 2 1/2" slide type, 28" long (Buffalo Style)		100	Each			\$11.95	\$12.00	\$16.00		\$43.03
89.	Curb Boxes 15388		Curb Box, 20" Plastic Sliding Combination Rezer w/ (Water) Cover, B&T w/ #P2TL2OW or Equal.		100	Each				\$19.50			\$20.11
90.	Curb Boxes 1430		2 1/2" Curb Box Repair Lid (inside), Trumbull# T-373 or Equal.		25	Each			\$6.25	\$6.25	\$6.50		\$10.12
91.	Curb Boxes 1431		2 1/2" Curb Box Repair Lid (outside), Trumbull# T-374 or Equal.		25	Each			\$6.25	\$6.25	\$6.50		\$10.12
Curb Stop													
92.	Curb Stop 1343		3/4" curb stop: pack joint both ends, for copper or plastic tubing (CTS) Ford model No. B-44-333-NL or equal		30	Each	\$57.35		\$63.50	\$58.00	\$69.00	\$55.55	\$68.44
93.	Curb Stop 1429		3/4" curb stop: pack joint both ends, for PEP (IPS) Ford Model No. B-66-333-NL or equal		5	Each	\$72.90			\$72.00	\$69.00	\$70.61	\$88.50
94.	Curb Stop 1468		3/4" curb stop: threaded both ends, (FNPT) Ford Model No. B-11-333-NL or equal		20	Each	\$44.56		\$49.25	\$44.00	\$65.00	\$43.36	\$53.12
95.	Curb Stop 1462		1" curb stop: pack joint both ends, for copper or plastic tubing (CTS) Ford model No. B-44-444-NL or equal		30	Each	\$86.22		\$95.25	\$85.00	\$100.00	\$83.52	\$102.85
96.	Curb Stop 1427		1" curb stop: pack joint both ends, for PEP (IPS) Ford Model No. B-66-444-NL or equal		5	Each	\$111.02			\$110.00	\$100.00	\$107.54	\$148.34
97.	Curb Stop 1487		1" curb stop: threaded both ends, (FNPT) Ford Model No. B-11-444-NL or equal		20	Each	\$69.26		\$76.50	\$70.00	\$85.00	\$67.09	\$82.54
98.	Curb Stop 1312		2" curb stop: pack joint both ends, for copper or plastic tubing (CTS) Ford model No. B-44-777-NL or equal		2	Each	\$290.04		\$323.00	\$290.00	\$330.00	\$280.95	\$348.34
Gate Boxes													
99.	Gate Boxes 1482		Gate box top: 5 1/4" slide type w/ (Water) cover		20	Each			\$31.25	\$29.00	\$34.00		\$78.68
100.	Gate Boxes 1483		Gate box bottom: 36" slide type to fit 5 1/4" top section		20	Each			\$29.00	\$27.00	\$30.00		\$74.30
101.	Gate Boxes 1740		8" Clearout Box w/ (Water) Lid Clearout, Bingham and Taylor Watert BT1975 or Equal		1	Each			\$90.00	\$82.00			\$83.76
102.	Gate Boxes 1530		Gate box "O" Top" adapter: 0" - 10" range, w/ (Water) cover, Bingham & Taylor #6010 or equal		50	Each			\$25.00	\$42.00			\$43.67
Goswack Adaptors													
103.	Goswack Adaptors 1473		3/4" coupling female flanged lead thread x female iron pipe Ford Model No. LFSC-3-NL		5	Each	\$18.36					\$17.79	\$28.22
104.	Goswack Adaptors 1426		1" coupling: female flanged lead thread x female iron pipe Ford Model No. LFSC-4-NL		5	Each	\$35.67					\$34.55	\$36.54
Hydrant Parts													
105.	Hydrant Parts 1407		Safety flange repair kit for Mueller SC 250 hyd. Kit # A-300		4	Each			\$185.00	\$105.00	\$185.00		\$183.99
106.	Hydrant Parts 1410		Safety flange repair kit for AD B-84-B hyd. Product No. 42714		4	Each				\$175.00			
107.	Hydrant Parts 1250		Cryo-Tek Anti-Freeze, 35200 Non-Toxic 5 gallon pails		25	Each				\$39.00	\$43.00		
Hydrants													
108.	Hydrants 1748		American Darling B-84-B 5 1/4" valve, 4 1/2" G.A.N.S. thread, 4" bury		1	Each				\$1,732.00			
109.	Hydrants 1451		Mueller Super Centurion 250, 5 1/4" valve opening, 4 1/2" G.A.N.S. thread, 4" bury		1	Each	\$2,498.63		\$1,700.00		\$1,749.00		\$1,765.94
110.	Hydrants 1455		Mueller Super Centurion 250, 5 1/4" valve opening, 4 1/2" G.A.N.S. thread, 4" 6"bury		5	Each	\$2,556.56		\$1,740.00		\$1,765.00		\$1,806.87
111.	Hydrants 1451		American Darling B-84-B 5 1/4" valve, 4 1/2" G.A.N.S. thread, 4" 6" bury		5	Each				\$1,770.00			
112.	Hydrants 1756		American Darling B-84-B 5 1/4" valve, 4 1/2" G.A.N.S. thread, 5" bury		4	Each				\$1,800.00			
113.	Hydrants 1421		Mueller Super Centurion 250, 5 1/4" valve opening, 4 1/2" G.A.N.S. thread, 5" bury		4	Each	\$2,614.60		\$1,780.00		\$1,838.00		\$1,847.90
114.	Hydrants 1412		American Darling B-84-B 5 1/4" valve, 4 1/2" G.A.N.S. thread, 5" 6" bury		3	Each				\$1,825.00			
115.	Hydrants 1422		Mueller Super Centurion 250, 5 1/4" valve opening, 4 1/2" G.A.N.S. thread, 5" 6" bury		3	Each	\$2,671.80		\$1,820.00		\$1,875.00		\$1,888.87
116.	Hydrants 1752		American Darling B-84-B 5 1/4" valve, 4" G.A. 7-465 thread, 4" bury		1	Each				\$1,732.00			
117.	Hydrants 1423		Mueller Super Centurion 250 5 1/4" valve opening, 4" G.A. 7-465 thread, 4" bury		1	Each	\$2,498.63		\$1,700.00		\$1,749.00		\$1,765.94
118.	Hydrants 1411		American Darling B-84-B 5 1/4" valve, 4" G.A. 7-465 thread, 4" 6" bury		4	Each				\$1,775.00			
119.	Hydrants 1424		Mueller Super Centurion 250 5 1/4" valve opening, 4" G.A. 7-465 thread, 4" 6" bury		4	Each	\$2,556.56		\$1,740.00		\$1,765.00		\$1,806.87
120.	Hydrants 1754		American Darling B-84-B 5 1/4" valve, 4" G.A. 7-465 thread, 5" bury		4	Each				\$1,800.00			
121.	Hydrants 1408		Mueller Super Centurion 250 5 1/4" valve opening, 4" G.A. 7-465 thread, 5" bury		4	Each	\$2,614.60		\$1,780.00		\$1,838.00		\$1,847.90
122.	Hydrants 1756		American Darling B-84-B 5 1/4" valve, 4" G.A. 7-465 thread, 5" 6" bury		4	Each				\$1,845.00			

122	Hydrants 1459	Mueller Super Convolun 250 S 1/4" valve opening, 4" G.A. 7.465 thread, 5' bury	4	Each		\$2,671.80	\$1,820.00	\$1,875.00	\$1,888.87
124	Meter Couplings/Parts								
125	Meter Coupling/Parts 9001	2" bronze oval meter flange: Maico-Norca # A31T08gfl or equal	2	Pair		\$70.00	\$59.00	\$135.00	\$21.85
126	Meter Coupling/Parts 9002	Pair adapters to change 1" meter to 2" flanged meter size and length: Ford # A-47-P or equal	4	Pair		\$128.16		\$95.00	\$174.14
127	Meter Coupling/Parts 9003	1" meter coupling, 1" meter swivel nut by 1" male iron pipe thread, Ford model# C38-44-2-025-NL	2	Each		\$12.98	\$13.25	\$15.00	\$14.22
128	Meter Coupling/Parts 9004	Pair adapters to change 1-1/2" flanged meter to 2" flanged meter size and length: Ford # A67-NL or equal	2	Pair		\$184.40		\$150.00	\$178.62
129	Meter Coupling/Parts 9007	Pair adapters to change 5/8" x 3/4" meter to 1" meter spud size and length: Ford # A34-NL	2	Pair		\$21.53		\$14.50	\$20.85
130	Meter Coupling/Parts 9008	3/4" meter coupling, 5/8" x 3/4" & 3/4" meter swivel nut, by 3/4" male iron pipe thread: Ford Model #C38-25-2-5-NL or equal	50	Each		\$8.43	\$8.60	\$18.16	\$8.81
131	Nipples								
131	Nipples 1094	Schedule 80 red brass pipe: 2" x 5' MNPT threaded both ends	20	Each			\$17.00	\$5.00	\$11.53
132	Nipples 1094	Schedule 80 red brass pipe: 2" x 12' MNPT threaded both ends	6	Each			\$44.25	\$8.00	\$27.13
133	Pipe								
133	Pipe 1146	3/4" copper tubing type "K"	120	LF				\$2.80	\$3.25
134	Pipe 1335	3/4" PE 4710 pipe, SDR 9, 250 PSI, CTS (100' rolls) Endot Endopure No. PEP07541010009 or equal	100	Each			\$0.25	\$0.27	\$0.35
135	Pipe 1147	1" copper tubing type "K"	800	LF				\$3.65	\$4.09
136	Pipe 1336	1" PE 4710 pipe, SDR 9, 250 PSI, CTS (100' rolls) Endot Endopure No. PEP10041010009 or equal	100	Each			\$0.40	\$0.43	\$0.56
137	Pipe 1148	2" Copper tubing type "K"	100	LF				\$9.00	\$10.29
138	Pipe 1337	2" PE 4710 pipe, SDR 9, 250 PSI, CTS (100' rolls) Endot Endopure No. PEP20041010009 or equal	100	Each			\$1.31	\$1.55	\$2.00
139	Pipe 1150	6" Pipe D.I., Thickness Class 52, cement lined, zinc coated, meet AWWA C151	100	LF		\$20.36	\$18.25	\$19.55	\$19.10
140	Pipe 1151	8" Pipe D.I., Thickness Class 52, cement lined, zinc coated, meet AWWA C151	100	LF		\$27.31	\$25.75	\$26.00	\$26.74
141	Pipe 1153	12" Pipe D.I., Thickness Class 52, cement lined, zinc coated, meet AWWA C151	100	LF		\$45.03	\$42.50	\$43.00	\$44.27
142	Reducers								
142	Reducers 1107	8" X 6" REDUCERS, MJ	1	Each			\$50.50	\$90.00	\$51.38
143	Retaining Glands								
143	Retaining Glands 1171	6" Restraint device, M.J. W/ Accessory pack	12	Each			\$33.50	\$39.00	\$31.14
144	Retaining Glands 1172	8" Restraint device, M.J. W/ Accessory pack	12	Each			\$45.50	\$52.00	\$42.94
145	Retaining Glands 1174	12" Restraint device, M.J. W/ Accessory pack	2	Each			\$87.50	\$100.00	\$84.77
146	Retaining Glands 1175	16" Restraint device, M.J. W/ Accessory pack	2	Each			\$149.00	\$172.00	\$150.23
147	Running Gate Valves								
147	Running Gate Valves 1459	2" Gate valve, R/S, open left, (FPT)	1	Each			\$238.00	\$224.00	\$224.03
148	Running Gate Valves 1459	6" Gate Valve, R/S, M.J. open right	1	Each			\$465.00	\$457.00	\$461.84
149	Running Gate Valves 1484	8" Gate Valve, R/S, M.J. open right	1	Each			\$745.00	\$726.00	\$735.55
150	Running Gate Valves 1485	12" Gate Valve, R/S, M.J. open right	1	Each			\$1,460.00	\$1,420.00	\$1,451.21
151	Saddles								
151	Saddles 1179	6" x 2" service saddle w/ SS band, Ford Model No. FS202-760-CC7 or equal	1	Each		\$63.97	\$42.00	\$36.00	\$60.97
152	Saddles 1180	8" x 2" service saddle w/ SS band, Ford Model No. FS202-979-CC7 or equal	2	Each		\$73.09	\$49.00	\$47.00	\$69.66
153	Saddles 1178	12" x 2" service saddle w/ SS band, Ford Model No. FS202-1438-CC7 or equal	1	Each		\$96.07	\$66.00	\$65.00	\$91.56
154	Solid Sleeves								
154	Solid Sleeves 1195	6" SOLID SLEEVE, MJ, D.I. (Length 12")	4	Each			\$52.50	\$65.00	\$55.13
155	Solid Sleeves 1187	8" SOLID SLEEVE, MJ, D.I. (Length 12")	2	Each			\$85.00	\$95.00	\$89.26
156	Solid Sleeves 1188	12" SOLID SLEEVE, MJ, D.I. (Length 12")	4	Each			\$137.00	\$145.00	\$143.63
157	Tapping Sleeve								
157	Tapping Sleeve 1702	6" x 4" Tapping sleeve, Flanged outlet for C.I. pipe (ic style)	1	Each		\$462.75	\$442.50	\$470.00	\$438.40
158	Tapping Sleeve 1704	6" x 4" Tapping sleeve, Flanged outlet for A.C. pipe (ic style)	1	Each		\$462.75	\$442.50	\$470.00	\$438.40
159	Tapping Sleeve 1706	6" x 6" Tapping sleeve, Flanged outlet for C.I. pipe (ic style)	1	Each		\$495.76	\$452.00	\$500.00	\$459.57
160	Tapping Sleeve 1708	6" x 6" Tapping sleeve, Flanged outlet for A.C. pipe (ic style)	2	Each		\$495.76	\$452.00	\$500.00	\$459.57

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161	Tapping Sleeve 1710	8" x 4" Tapping sleeve, Flanged outlet for C.I. pipe (fc style)	1	Each	\$276.74	\$435.00	\$480.00	\$524.00	\$451.00
162	Tapping Sleeve 1712	8" x 4" Tapping sleeve, Flanged outlet for A.C. pipe (fc style)	1	Each	\$476.74	\$495.00	\$480.00	\$532.00	\$451.00
163	Tapping Sleeve 1714	8" x 6" Tapping sleeve, Flanged outlet for C.I. pipe (fc style)	1	Each	\$516.73	\$471.00	\$520.00	\$568.00	\$481.52
164	Tapping Sleeve 1716	8" x 6" Tapping sleeve, Flanged outlet for A.C. pipe (fc style)	1	Each	\$516.73	\$471.00	\$520.00	\$568.00	\$481.52
165	Tapping Sleeve 1718	8" x 8" Tapping sleeve, Flanged outlet for C.I. pipe (fc style)	1	Each	\$661.73	\$604.00	\$650.00	\$736.00	\$608.90
166	Tapping Sleeve 1720	8" x 8" Tapping sleeve, Flanged outlet for A.C. pipe (fc style)	1	Each	\$661.73	\$604.00	\$640.00	\$736.00	\$608.90
167	Tapping Sleeve 1722	12" x 4" Tapping sleeve, Flanged outlet for C.I. pipe (fc style)	1	Each	\$616.65	\$563.00	\$620.00	\$540.00	\$513.90
168	Tapping Sleeve 1724	12" x 4" Tapping sleeve, Flanged outlet for A.C. pipe (fc style)	1	Each	\$616.65	\$563.00	\$620.00	\$540.00	\$513.90
169	Tapping Sleeve 1726	12" x 6" Tapping sleeve, Flanged outlet for C.I. pipe (fc style)	2	Each	\$683.68	\$624.00	\$675.00	\$752.00	\$546.24
170	Tapping Sleeve 1728	12" x 6" Tapping sleeve, Flanged outlet for A.C. pipe (fc style)	1	Each	\$683.68	\$624.00	\$675.00	\$752.00	\$546.24
171	Tapping Sleeve 1730	12" x 8" Tapping sleeve, Flanged outlet for C.I. pipe (fc style)	1	Each	\$857.76	\$788.00	\$840.00	\$943.00	\$777.69
172	Tapping Sleeve 1732	12" x 8" Tapping sleeve, Flanged outlet for A.C. pipe (fc style)	1	Each	\$857.76	\$788.00	\$840.00	\$943.00	\$777.69
173	Tapping Sleeve 1734	12" x 12" Tapping sleeve, Flanged outlet for C.I. pipe (fc style)	1	Each	\$1,261.82	\$1,150.00	\$1,200.00	\$1,124.00	\$1,349.00
174	Tapping Sleeve 1736	12" x 12" Tapping sleeve, Flanged outlet for A.C. pipe (fc style)	1	Each	\$1,261.82	\$1,150.00	\$1,200.00	\$1,124.00	\$1,349.00
Tapping Valves									
175	Tapping Valve 1205	4" Tapping Valve, RIS, Flanged x M.J. open right	1	Each		\$465.00	\$450.00	\$469.00	\$456.79
176	Tapping Valve 1206	6" Tapping Valve, RIS, Flanged x M.J. open right	4	Each		\$698.00	\$635.00	\$659.00	\$644.94
177	Tapping Valve 1207	8" Tapping Valve, RIS, Flanged x M.J. open right	1	Each		\$977.00	\$935.00	\$985.00	\$957.29
178	Tapping Valve 1208	12" Tapping Valve, RIS, Flanged x M.J. open right	1	Each		\$2,225.00	\$2,150.00	\$2,195.00	\$2,180.69
Tees									
179	Tees 1211	6" x 6" TEE, MJ	1	Each		\$107.50	\$83.75	\$140.00	\$85.00
180	Tees 1213	8" x 6" TEE, MJ	1	Each		\$133.22	\$103.50	\$180.00	\$105.00
181	Tees 1214	8" x 8" TEE, MJ	1	Each		\$174.24	\$125.25	\$215.00	\$131.35
182	Tees 1217	12" x 6" TEE, MJ	1	Each		\$235.47	\$169.25	\$345.00	\$189.00
183	Tees 1218	12" x 8" TEE, MJ	1	Each		\$271.32	\$195.00	\$365.00	\$204.38
184	Tees 1219	12" x 12" TEE, MJ	1	Each		\$320.65	\$250.00	\$540.00	\$295.00

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BRISTOL COUNTY WATER AUTHORITY

MEMO

Date: May 22, 2020

To: BCWA Board Members

From: Pamela M. Marchand

Re: FY2021 Maintenance and Service Work Contract

These items are bid each year. See attached information.

It is recommended that JML Excavation be awarded the annual contract in the amount of \$299,415.00 based on the estimated quantities.



Date: May 21, 2020

To: Pamela Marchand, P.E., Executive Director

From: Michael Crawford, P.E., Operations Manager

CC:

RE: FY 21 Maintenance and Service Work Contract

Background

The Bristol County Water Authority (BCWA) contracts various pieces of construction and excavation equipment and construction related services through an annual Maintenance and Service Work Contract. The intent of this contract is to procure excavation and construction support services for BCWA field operations and maintenance activities throughout the service district. On May 21, 2020 a bid opening was held at the Bristol County Water Authority where three proposals were received. A representative from the responding firm, JML Excavation Inc., was present on a conference call bid opening. A summary of the responding bid is as follows with a complete bid tabulation attached:

FY 21 Maintenance and Service Work Contract

<u>Contractor</u>	<u>Total Bid Price</u>
JML Excavation Inc.	\$299,415.00
Salo Construction	\$336,590.00
East Coast Construction	\$352,425.00

Recommendation

As detailed in the bid tabulation and in the above summary, JML Excavation, Inc. submitted the lowest bid of \$299,415.00. JML Excavation, Inc. has contracted with the BCWA in various forms (maintenance/service, permanent paving and main replacement) and has performed satisfactorily as required in the contract specifications in all previous contracts with the BCWA. Giving consideration to the low bid price, recommendations of references and the previous positive experience with the BCWA, JML Excavation Inc. is the recommended Contractor to complete the work as specified. Upon approval of award BCWA will begin the process of entering into an agreement with JML Excavation, Inc. for the 1 year term specified in the contract documents.

Enclosure
Bid Tabulation Maintenance and Service Work Contract

BRISTOL COUNTY WATER AUTHORITY

FY 2021 Maintenance/Service Contract COMPARISON

JML EXCAVATION				EAST COAST		SALO CONSTRUCTION		
Item Description		Estimated Quantities	Unit Price	Bid Amount Figures	Unit Price	Bid Amount Figures	Unit Price	Bid Amount Figures
1a	Backhoe/Loader, with Operator	750	\$125.00	\$93,750.00	\$145.00	\$108,750.00	\$140.00	\$105,000.00
1b	Dump truck, 6-wheel 8 - 10 c.y. with Driver	750	\$100.00	\$75,000.00	\$105.00	\$78,750.00	\$90.00	\$67,500.00
1c	Dump truck, 10-wheel 15-20 c.y. with Driver	75	\$110.00	\$8,250.00	\$120.00	\$9,000.00	\$110.00	\$8,250.00
1d	Excavator with Operator	8	\$150.00	\$1,200.00	\$175.00	\$1,400.00	\$250.00	\$2,000.00
1e	Laborer	40	\$75.00	\$3,000.00	\$90.00	\$3,600.00	\$75.00	\$3,000.00
1f	Pipe Trailer, Flat Bed	8	\$5.00	\$40.00	\$75.00	\$600.00	\$30.00	\$240.00
1g	Front End Loader, 3CY w/Operator	8	\$175.00	\$1,400.00	\$200.00	\$1,600.00	\$250.00	\$2,000.00
1h	Mini Excavator with operator	40	\$125.00	\$5,000.00	\$145.00	\$5,800.00	\$140.00	\$5,600.00
2	Flagpersons	25	\$75.00	\$1,875.00	\$90.00	\$2,250.00	\$60.00	\$1,500.00
3	Compressor	40	\$5.00	\$200.00	\$25.00	\$1,000.00	\$50.00	\$2,000.00
4a	Crushed Processed Gravel, to jobsite	100	\$22.00	\$2,200.00	\$24.00	\$2,400.00	\$50.00	\$5,000.00
4b	Crushed Processed Gravel, to Yard	50	\$24.00	\$1,200.00	\$24.00	\$1,200.00	\$50.00	\$2,500.00
5a	Reclaimed/process granular material, to jobsite	300	\$16.00	\$4,800.00	\$21.00	\$6,300.00	\$45.00	\$13,500.00
5b	Reclaimed/process granular material, to Yard	300	\$18.00	\$5,400.00	\$21.00	\$6,300.00	\$45.00	\$13,500.00
6a	Screened Loam, to jobsite	50	\$18.00	\$900.00	\$21.00	\$1,050.00	\$25.00	\$1,250.00
6b	Screened Loam, to Yard	25	\$20.00	\$500.00	\$21.00	\$525.00	\$25.00	\$625.00
7a	Sand, to jobsite	100	\$18.00	\$1,800.00	\$22.00	\$2,200.00	\$50.00	\$5,000.00
7b	Sand, to Yard	100	\$20.00	\$2,000.00	\$22.00	\$2,200.00	\$50.00	\$5,000.00
8a	3/4" Stone (crushed stone), to jobsite	350	\$30.00	\$10,500.00	\$28.00	\$9,800.00	\$45.00	\$15,750.00
8b	3/4" Stone (crushed stone), to Yard	200	\$35.00	\$7,000.00	\$28.00	\$5,600.00	\$45.00	\$9,000.00
9a	Pavement Cutting up to and incl. 3"	500	\$4.00	\$2,000.00	\$4.00	\$2,000.00	\$4.00	\$2,000.00
9b	Pavement Cutting > 3"	500	\$4.00	\$2,000.00	\$8.00	\$4,000.00	\$5.00	\$2,500.00
10a	Cold Patch, to jobsite	250	\$140.00	\$35,000.00	\$185.00	\$46,250.00	\$95.00	\$23,750.00
10b	Cold Patch, to Yard	100	\$140.00	\$14,000.00	\$185.00	\$18,500.00	\$95.00	\$9,500.00
10c	Furnish and install Temporary Paving (Hot Patch) in place up to 4"	60	\$115.00	\$6,900.00	\$85.00	\$5,100.00	\$250.00	\$15,000.00
10d	Hot Patch Material, to jobsite	100	\$110.00	\$11,000.00	\$200.00	\$20,000.00	\$125.00	\$12,500.00
11	Rock Excavation	25	\$100.00	\$2,500.00	\$250.00	\$6,250.00	\$125.00	\$3,125.00
TOTAL				\$299,415.00		\$352,425.00		\$336,590.00



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BRISTOL COUNTY WATER AUTHORITY

MEMO

Date: May 22, 2020

To: BCWA Board Members

From: Pamela M. Marchand

Re: FY2021 Permanent Pavement Contract

These items are bid each year. See attached information.

It is recommended that International Paving Corporation be awarded the annual contract in the amount of \$181,900.00 based on the estimated quantities.



Date: May 21, 2020

To: Pamela Marchand, P.E., Executive Director

From: Michael Crawford, P.E., Operations Manager

CC:

RE: FY 21 Permanent Pavement Contract

Background

The Bristol County Water Authority (Authority) contracts permanent pavement (bituminous and non-bituminous) restorations through a contract solicited on an annual basis. This work is required to permanently restore surface conditions impacted from the ongoing operation and maintenance of the BCWA distribution system. On May 21, 2020 a bid opening was held at the Bristol County Water Authority where two proposals were received. Representatives from both responding firms, JML Excavation Inc. and International Paving Corp., were present on a conference call bid opening. A summary of the responding bids is as follows with a complete bid tabulation attached:

FY 20 Permanent Pavement Contract

<u>Contractor</u>	<u>Total Bid Price</u>
International Paving Corp.	\$181,900.00
JML Excavation Inc.	\$306,460.00

Upon evaluation a math error was found within International Paving Corp.'s proposal. The math error was a computational error that added \$6,250 to the cost of the bid. The adjusted bid price was utilized for this analysis and is reflected in the tabulations as presented.

Recommendation

As detailed in the bid tabulation and in the above summary, International Paving Corp. submitted the lowest bid of \$181,900.00. Giving consideration to the low bid price, past performance with the Authority and recommendations of references, International Paving Corp. is the recommended contractor to complete the work as specified. Upon approval of award BCWA will begin the process of entering into an agreement with International Paving Corp. for the 1 year term specified in the contract documents.

Enclosure

Bid Tabulation Permanent Pavement Annual Contract

BCWA ANNUAL PAVEMENT BID COMPARISON
F.Y. 2021

Est. Qty.	Description	International Paving	Totals	JML Excavation	Totals
1000 s.y.	</=3" Bituminous Permanent Pavement	\$50.00	\$50,000.00	\$100.00	\$100,000.00
1000 s.y.	Bituminous permanent pavement >3" TO </=6" thick	\$75.00	\$75,000.00	\$140.00	\$140,000.00
100 s.y.	Bituminous permanent >6" TO <=9" thick	\$150.00	\$15,000.00	\$150.00	\$15,000.00
1 sy	Bituminous permanent pavement > 9" thick	\$150.00	\$150.00	\$160.00	\$160.00
100 s.y.	2" Curb-to-Curb Overlay	\$25.00	\$2,500.00	\$26.00	\$2,600.00
2000 lin. Ft.	peripheral cutSaw Cutting </=6" thick	\$2.00	\$4,000.00	\$4.00	\$8,000.00
2000 lin. Ft.	Saw Cutting > 6" thick	\$4.00	\$8,000.00	\$4.00	\$8,000.00
50 c.y.	Road concrete sub-base installation	\$250.00	\$12,500.00	\$400.00	\$20,000.00
10 s.f.	Concrete sidewalk patching	\$450.00	\$4,500.00	\$350.00	\$3,500.00
1 c.y.	Exposed Aggregate Portland Cement Concrete Sidewalk	\$550.00	\$550.00	\$500.00	\$500.00
100 s.y.	Cold Planing 2" Depth	\$50.00	\$5,000.00	\$30.00	\$3,000.00
100 man hrs.	Flagpersons *	\$45.00	\$4,500.00	\$45.00	\$4,500.00
100 LF	Road Striping	\$2.00	\$200.00	\$12.00	\$1,200.00
	TOTALS		\$181,900.00		\$306,460.00



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BRISTOL COUNTY WATER AUTHORITY

MEMO

Date: May 22, 2020

To: BCWA Board Members

From: Pamela M. Marchand

Re: Replacement of 2" Water Main on Rock St. to be Added to the 2020 Water Main
Renewal Contract

Attached is information provided by Sue Rabideau to add Rock St. in Bristol to our 2020 Water Main Renewal Contract. This main was recently found to be severely deteriorated, and in need of immediate replacement. The Town is paving the road, and we must act without delay.

It is therefore recommended that the Board approve an additional \$235,000 to the W Walsh Company Contract for the installation under the existing contract prices.

Adding \$40,000 for police, the total cost of \$275,000 for the project is requested for approval.

Date: May 20, 2020

To: Pam Marchand, PE Executive Director

From: Susan H. Rabideau, PE, Engineering Project Manager

Re: Proposed Change in Scope, 2020 Water Main Renewal Contract

BCWA repaired several leaks on Rock Street in Bristol recently, and this work revealed that the 2" cast iron mains in Shaws Lane, Rock Street and Ryan Avenue are severely deteriorated. They were installed in the 1940s. Residents often complain of poor water pressure. We were then informed by the Town that these roads are all scheduled for rehabilitation (full road reconstruction and new sidewalks) later this year. It is prudent to act quickly and replace these water mains before the road is restored. National Grid is doing the same and upgrading their gas mains. The Town is allowing us to install only temporary trench pavement, which represents a cost savings to us.

BCWA awarded a water main renewal contract to W Walsh Company for \$1,677,333. The work is scheduled to begin in June. We have approached W Walsh and asked if they would agree to add this additional scope to our current contract. All work would be covered under the contract unit bid prices. They have agreed.

The estimated cost is \$235,000 for the work and \$40,000 for police, inspection and contingency. I am requesting an additional \$275,000 be added to the budget for this project so that we may proceed with the replacement of these water mains.

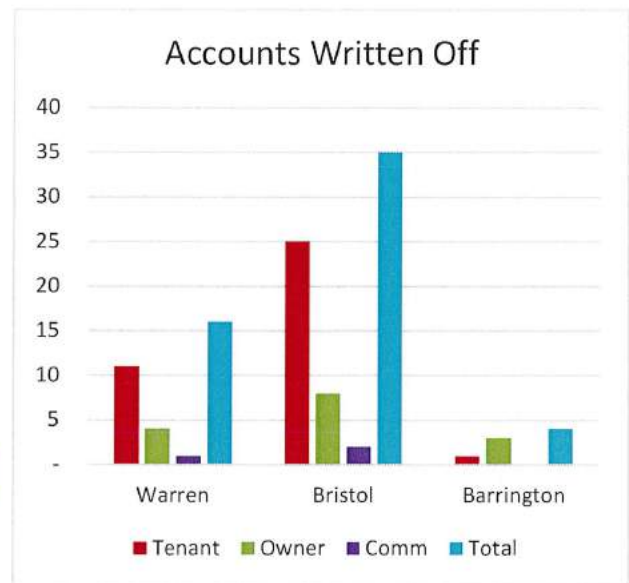


A recently removed portion of the main in Rock Avenue

Bristol County Water Authority Quarterly Write Offs Analysis 2/1/2020 to 4/30/2020

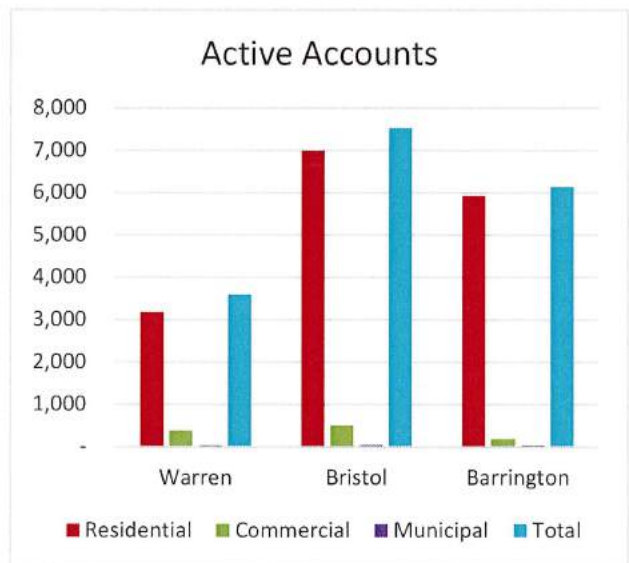
Accounts Written Off:

Customer Class	Warren	Bristol	Barrington	Total
Residential Tenant	11	25	1	37
Residential Owner	4	8	3	15
Commercial	1	2	-	3
Total Accounts	16	35	4	55
Percent	29.09%	63.64%	7.27%	



Active Accounts:

Customer Class	Warren	Bristol	Barrington	Total
Residential	3,180	6,982	5,930	16,092
Commercial	376	502	183	1,061
Municipal	29	41	26	96
Total Accounts	3,585	7,525	6,139	17,249
Percent	20.78%	43.63%	35.59%	



Amount Written Off:

Customer Class	Warren	Bristol	Barrington	Total
Residential Tenant	2,349.00	3,832.45	75.84	6,257.29
Residential Owner	668.81	2,875.53	513.87	4,058.21
Commercial	136.06	551.24	-	687.30
Total Write Offs	3,153.87	7,259.22	589.71	11,002.80
Percent	28.66%	65.98%	5.36%	



Less Recoveries	5,402.34
Net Write Offs	5,600.46

Qtrly Revenues	3,112,653
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Net Write Offs to Revenue:	0.18%
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Average Write Off:	\$ 200.05
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12

BRISTOL COUNTY WATER AUTHORITY

MEMO

Date: May 19, 2020

To: BCWA Board of Directors

From: Pamela M. Marchand

Re: Task Order for the Inspection of the 30" Ductile Iron Water Transmission Main

The attached Task Order from Pure Technologies is based on a bid awarded in August, 2019, for a 3 year contract to provide pipe assessment services. (Pure provided the Sahara inspection to locate the leak on the East Bay Pipeline.) The Task Order is for specific pipe assessment services based on the bid prices.

SmartBall is to be used for the assessment of the transmission main from the Providence connection in East Providence to the eastern side of the Warren River, passing by the Nayatt Rd. pump station. This will provide baseline leak detection for our 30" ductile iron transmission main and the 28" HDPE main below the Warren River, a total of 39,000 feet. This main transports all of our water from the Providence connection, and it is critical to set up a routine monitoring program. The program was designed to start with the East Bay Pipeline this past spring...

The planning work for the project will take place the end of this month with the inspection scheduled for late summer. An access pit was installed at the East Bay Pipeline connection in East Providence with the installation of the PVC liner. A retrieval station will be installed in the Blount parking lot, which will be funded from the capital budget.

It is recommended that the Board approve the SmartBall inspection services detailed in the Task Order for the 30" transmission main in the amount of \$187,286.

March 4, 2020

Bristol County Water Authority
450 Child Street
Warren, RI 02885

Attn: Pamela Marchand, PE
Executive Director

Subject: Task Order Letter
Bristol County Water Authority
SmartBall® Leak/Air Pocket Detection Platform

Ms. Marchand:

Xylem Inc., D/B/A Pure Technologies is pleased to offer the following Task Order Letter for the assessment of the pipeline which provides service from Providence into the Bristol County Water Authority (BCWA) system.

The proposed scope of services includes pre-inspection planning and the completion of a SmartBall Leak/Air Pocket Detection Inspection with mapping.

This Task Order Letter is based upon the pricing that was submitted via formal bid on August 15, 2019.

PROPOSED SERVICES

Pre-Inspection Planning

During pre-inspection planning Pure Technologies will review existing engineering and operational documents to gain a comprehensive understanding of the pipeline. These documents could include plan and profile drawings, pipe laying schedules, as-built drawings, design specifications, repair records, pipeline failure history, results from any past inspections, and any other available documentation.

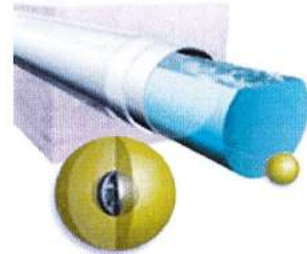
Following the records review, a site visit, as well as various discussions with pipeline operations staff, will be performed to better understand the pipeline and its history. This process will allow the Pure Technologies team to confirm the material of construction, provide details regarding site logistics and system operations during the inspection, as well as help to identify and mitigate any challenges or issues that may arise during the inspection.

The deliverable for this task will be an inspection planning document that will cover the details of the execution of the inspection, including tool insertion, depressurization of the pipe line for the steel sections inspection, tracking of the tool, and extraction of the inspection platforms, flow

requirements, capital improvements, inspection schedule, and sequencing. This planning document will act as a guide for the duration of the project. This planning meeting has already occurred, the planning document is being prepared and will be invoiced when submitted as a draft document.

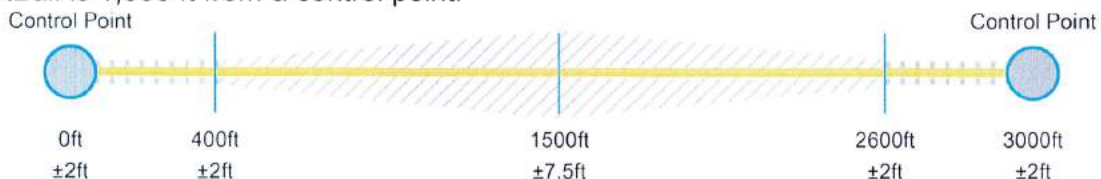
SmartBall Acoustic Leak Detection with Mapping

The SmartBall device is an internal free-swimming acoustic leak and air pocket detection tool ideally suited for large diameter transmission pipelines. The SmartBall tool is composed of a water-tight, aluminum core that contains a power source, electronic components and instrumentation (including an acoustic sensor, accelerometer, magnetometer, GPS synchronized ultrasonic transmitter, accelerometer, twin gyroscopes, and temperature sensors). The core is encapsulated inside a protective outer foam spherical shell. The outer foam shell provides additional surface area to propel the device and it also eliminates any noise the device might generate while traversing the pipeline. The SmartBall tool is inserted into the water flow of a live pipeline and it simply travels the pipeline – propelled by the hydraulic flow - and is captured at a point downstream. The device records acoustic activity and positional data as it traverses the pipeline, which is evaluated to report the presence, approximate size, and location of leaks and air pockets. Mapping is completed through the use of the accelerometer, twin gyroscopes and known points along the actual pipeline routing.



SmartBall® Mapping utilizes the latest accelerometer and gyroscope technology and advanced location algorithms to calculate directional data that is combined with field collected GPS points and pipeline bearing data, at known locations, to create a field generated X and Y map called the “SmartBall-GIS Line”. It will provide BCWA with a GIS Shapefile, including GPS control points, error range and leaks and gas pockets.

The accuracy of the map depends on the quality and frequency of the known points and the consistency of the SmartBall rolling. Normally, the accuracy that can be expected is within ± 2 ft or 0.5% of the distance from a known point. As an example, if there is 3,000 ft between control points, there will be a maximum expected error of ± 7.5 ft in the middle of the segment where the SmartBall is 1,500 ft from a control point.



Pure Technologies will compare the SmartBall-GIS Line to available pipeline information, such as current pipeline GIS and as-built drawings, and any conflicts with other alignment data will be identified. In areas where the SmartBall-GIS Line agrees with BCWA records, BCWA can feel more confident that their assumed location is close to actual. However, if a conflict is identified, a targeted effort of (i) exposing the pipeline, (ii) line finding and/or (iii) surveying at these specific areas may be warranted to determine the actual location of the pipeline.

SmartBall Report

SmartBall Inspection

The deliverable for this task is a Draft and Final SmartBall Report. The report will include results of the SmartBall Leak/Air Pocket Detection. The report will include locations of leaks or air pockets. The report will also include a GIS mapping component which will be based upon the SmartBall mapping capabilities. The fee for this task also includes assistance with the field location of leaks or air pockets detected during the inspection.

PROPOSED SCHEDULE

Proposed Project Schedule	
Schedule	Task
2020	Contract signed in 2019
2020	Planning meeting and Delivery of Inspection Planning Document to be completed in Q1/Q2 2019
2020	Inspection of Pipeline in Q2/Q3
2020	Draft Report with Results Two Months after Inspection
2020	Final Report Two Months after receiving comments

PROPOSED BUDGET FOR SMARTBALL INSPECTION

Proposed Budget for BCWA Pipeline SmartBall Inspection Based Upon August 15, 2019 Bid Pricing				
Task	Deliverable	Unit Cost	Quantity	Total
1	SmartBall Inspection with Mapping			
	First 5 Miles	\$5.12/ft	26,400 ft	\$135,168
	Next 5 Miles	\$4.12/ft	12,650 ft	\$52,118
	Total: SmartBall Inspection			\$187,286

The above pricing is developed based upon first-year pricing of our formal bid dated August 15, 2019.

PROPOSED COST BREAKDOWN FOR SMARTBALL INSPECTION

Proposed Cost Breakdown by Phase for BCWA Pipeline Condition Assessment Based Upon August 15, 2019 Bid Pricing		
Line Item	Deliverable	Total
1	Pre-Inspection Planning: Includes detailed inspection planning, coordination, plan review, planning meeting and preparation of planning document	\$16,250
2	Mobilization	\$10,000
3	SmartBall Inspection of Transmission Main with Mapping	\$151,036
4	Reporting: Includes Draft and Final SmartBall Inspection Report.	\$10,000
	Total:	\$187,286

PROPOSED INVOICING SCHEDULE FOR SMARTBALL INSPECTION

Proposed Invoicing Schedule		
Line Item(s)	Percent Invoiced	Invoicing Period
1	100%	Upon submittal of planning document
2	100%	Upon mobilization of equipment to client site
3	100%	Upon completion of field work
4	80%	Upon submittal of draft report
4	20%	Upon submittal of final report

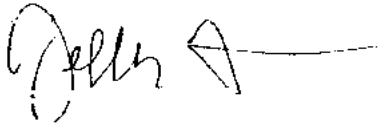
This Task Order Letter assumes the following:

Each line item will be invoiced upon completion of the task. If the inspection doesn't capture reliable data for a portion of the inspection, the client will only be charged for the percentage of the inspection that resulted in high confidence data. While we have complete confidence in our inspection platforms, in any application of our tools there may be areas in which data is not captured for a variety of reasons. Again, we are very confident in our ability to capture data, and this assumption is made to protect the client in the event of an unforeseen data capture issue.

The cost of capital improvements and support services such as traffic control, removal of flanges, valve operation, are not included in this proposal. Any tapping sleeves, valves or other modifications that are needed on the actual pipe would be identified prior during the pre-inspection planning and would need to be completed by the client or others before our inspection team arrives on site and are outside of our scope. Pure Technologies staff has visited the site with BCWA personnel, and it has been noted that certain pipe modifications will be needed to insert and extract the SmartBall equipment. These modifications will need to be performed before Pure Technologies inspection staff mobilizes to site. Pure Technologies will continue to assist with determining the location and specs of these modifications on the pipeline but will not be partaking in any of the installation activities.

If you have any questions about the information provided in this letter, please feel free to contact me. Pure Technologies looks forward to working with you on this project.

Best Regards,

A handwritten signature in black ink, appearing to read 'Jeff A', followed by a horizontal line.

Jeffrey Zdrojewski, PE

North Region Business Development Director



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BRISTOL COUNTY WATER AUTHORITY

MEMO

Date: May 18, 2020

To: BCWA Personnel Committee

From: Pamela M. Marchand

Re: Non-union Raises

Due to the recent events surrounding Covid-19, the discussion of raises for the non-union staff had been delayed but are now presented for FY2021.

Utilizing the 2019 AWWA Salary Survey for Medium Systems (2018 salaries), I reviewed the salaries for each position that compares to the BCWA management descriptions. In some cases (Engineering Project Manager and Customer Service) two descriptions were averaged for each one to better fit the job duties. Attached is the AWWA salary analysis for each of our upper management positions. The analysis is from positions all over the country for systems similar in size to the BCWA. New England and California do have higher pay but are averaged into the information provided by all the systems.

The salaries are listed in various categories, and I averaged each position utilizing those categories that pertain to the BCWA in the Mid and Max ranges. I then averaged the results from the "average salary range" of those categories. (Based on the experience level of our managers, most should in fact be compared to the average Max category). See attached.

The Finance Manager, Operations Manager, MIS Manager, Engineering Manager and the GIS Analyst are significantly below the AWWA average of the middle and max average salaries. These are all critical positions, where we can't afford to lose existing staff and/or the cost of replacement will be high. I am therefore recommending increases greater than 3.5% for those positions, but to be allocated in steps for March, May and October of this year (see below).

However, Mike Crawford, now Operations Manager, is a separate case. Mike is critical to our succession plan, considering the retirement of the Operations Manager, and that Mark Champagne and I will be retiring soon. The Foreman of Facilities is also retiring, resulting in a number of critical position changes in operations. Mike, as the former Superintendent of Operations, is very knowledgeable of the work, positions, and people of the Operations department. His guidance during this time is invaluable, as almost all of our operations staff was hired since 2013.

Mike recently received a job offer with a substantially higher salary. Mike, as an engineer and supervisor and a licensed grade 4 operator, has worked in large and small systems, and his expertise is just not available elsewhere in New England. Ken Booth and I had several

discussions with Mike over the advantages of staying with the BCWA. He determined that if he could receive a salary increase (considerably less than the offer) he would like to stay. However, he had to consider his family (of 3 children) in his decision.

I met with Allan and John to discuss the situation. We all agreed that Mike's request was fair, and that we could not afford to lose him if we could come to an agreement. Our final agreement was a \$5.5K salary increase as of March 1 (which includes the annual increase), an increase of \$6K with the promotion to Operations Manager as of May 1, and a \$4.0K increase in October to bring him to a salary of \$120K, which is still considerably below the AWWA Mid and Max average of 2018 water system salaries.

I am proposing an overall salary increase of 3.5% for all employees as of March 1. Considering the work performed in the past year with the East Bay Pipeline leak and the additional construction projects that were completed, all employees put in extra effort and are well deserving of a raise. This year's challenge with Covid-19 has been no less demanding in the light of restructuring the workplace and work procedures.

I have attached some RI salary analysis found on the web, as well as the Federal 2020 pay increases which are allocated by location, to supplement the AWWA survey information.

I am recommending the salary of the Financial Manager be increased to \$116K as of May 1st, and to \$120K as of October 1, to coincide with the Operations Manager. I have always viewed these positions as equal in level of responsibility, and both fall into the same salary survey ranges. Mark will be staying on to the end of December and perhaps longer. The salary will also help attract an experienced financial professional when Mark retires.

I am also requesting an increase as of May 1 for the critical positions of Engineering Project Manager, the MIS Manager and the GIS Analyst, as they are substantially below the AWWA averages, and would be extremely difficult to replace. And I am recommending an additional step in October for the MIS Manager for the above reasons. See the attached chart.

The FY2021 budget allowed funding for a 3% non-union salary increase in the amount of \$23,682, not including the Executive Director. The additional recommended increases would add \$17,707 for salaries. The overall salary budget would not need to be increased, however. The Covid-19 had delayed the start of 3 new employees (to fill vacancies) and the elimination of 3 proposed summer interns, for a savings of \$54,075 from the salary budget.

I'm sure this appears a bit confusing, but I can answer any questions and go through the material at the zoom meeting. Meanwhile, if you have any questions I can answer before the meeting, please let me know.

BCWA	2019 Salary Increases (AWWA 2018 Data)	2019 AWWA Mid Average	AWWA Max Average	2019 Mid & Max Average	2019 (4%)	2020 3/1 (3.5%)	2020 Proposed	
							5/1	10/1
Finance Manager	\$118,494	\$140,354	\$129,424	\$109,800			\$116,000	\$120,000
Operations Manager	\$115,613	\$135,327	\$125,470	\$109,800			\$116,000	\$120,000
Engineering Project Mang	\$96,373	\$113,079	\$104,726	\$99,000			\$104,000	
MIS Mang (ave 2)	\$104,441	\$123,013	\$113,727	\$99,000			\$106,000	\$108,000
Production/Ops Super (Ave 2)	\$87,370	\$102,224	\$94,797	\$94,000				
Customer Service Mgr* (Ave 2)	\$74,400	\$87,919	\$81,160	\$90,375				
Assoc. Engineer/GIS	\$65,925	\$78,534	\$72,230	\$59,200			\$63,000	
Engineer Tech/Assoc.	\$65,800	\$76,850	\$71,325	\$66,350				
Exec Adm Assistant	\$31K-\$64K	\$31K-\$64K		\$61,859				
Mcrawford								
Total				\$789,384		\$817,012		
2020 Increase						\$27,628	\$9,593	\$4,167
Budget						\$23,682		Additional \$17,707

FY2019 Salary Survey	Barrington	Bristol	E. Providence	Newport	Middletown
Finance Director	110,885	105,713	132,188	152,225	107,193
School Business Manager	120,000	116,700	107,000	105,000	98,354
Public Works Director	105,000	104,000	125,806	137,791	98,265
MIS Director	NA	NA	128,203	105,061	110,431

American Water Works Association - Medium - 2019

All Participants

Job L150 - Top Information Technology Executive

Directs and oversees all information technology and systems responsibilities, including hardware, software, networking, integration, and help desk support. Oversees IT staffing, project planning, security, and cost management.

Summary of All Reported Data by Ownership/Management Type

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	50	47	10	94%	\$107,141	\$124,932	\$124,932	\$88,669	\$110,777	\$131,855	22
Board Operated	29	27	11	97%	\$110,280	\$115,043	\$115,043	\$97,780	\$124,028	\$148,477	*
City/County	16	15	6	88%	\$103,236	\$151,234	\$151,234	\$75,942	\$90,992	\$108,419	*
Private	1	1	*	*	*	*	*	*	*	*	*
Other	4	4	*	*	*	*	*	*	*	*	*

Summary of All Reported Data by Population Size

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	18	18	16	89%	\$110,753	\$114,074	\$114,074	\$90,257	\$116,465	\$137,110	*
25 - 50,000	15	12	7	100%	\$112,012	\$112,052	\$112,052	\$99,737	\$123,307	\$147,952	*
10 - 25,000	17	17	5	94%	\$95,576	\$145,520	\$145,520	\$78,444	\$94,575	\$113,815	18

Summary of All Reported Data by Total Employment

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	*	*	*	*	*	*	*	*
500 - 1,000	3	3	*	*	*	*	*	*	*	*	*
200 - 500	5	5	19	100%	\$154,190	\$150,226	\$150,226	*	\$154,002	*	*
100 - 200	12	12	6	100%	\$113,651	\$116,814	\$116,814	\$93,525	\$114,892	\$139,154	*
50 - 100	17	15	4	88%	\$93,061	\$148,626	\$148,626	\$81,776	\$98,053	\$115,481	*
25 - 50	9	9	5	100%	\$95,576	\$98,773	\$98,773	\$73,656	\$93,249	\$114,609	*
< 25	3	3	*	*	*	*	*	*	*	*	*

114262 137087
125649

American Water Works Association - Medium - 2019

Job A130 - Information Services Manager

Responsible for all Information Services activities, including equipment selection, systems analysis, and programming and operations. Provides liaison with authorized users of information-processing services and develops techniques and methods for improving departmental activities.

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	42	42	7	79% 17% 4%	\$92,470	\$91,716	\$93,671	\$76,545	\$93,386	\$108,713	*
Board Operated	26	27	8	77% 19% 4%	\$94,869	\$92,200	\$95,206	\$78,557	\$96,235	\$110,749	*
City/County	12	11	6	75% 17% 8%	\$80,204	\$88,584	\$88,584	\$75,318	\$91,258	\$109,002	*
Private	1	1	*	* * *	*	*	*	*	*	*	*
Other	3	3	*	* * *	*	*	*	*	*	*	*

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	19	19	8	84% 5% 11%	\$100,134	\$98,086	\$101,738	\$77,789	\$96,886	\$114,091	*
25 - 50,000	12	12	6	75% 25% 0%	\$91,364	\$91,360	\$91,360	\$77,856	\$90,737	\$102,124	*
10 - 25,000	11	11	6	73% 27% 0%	\$79,202	\$82,258	\$82,258	\$71,469	\$88,024	\$105,149	*

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	* * *	*	*	*	*	*	*	*
500 - 1,000	2	2	*	* * *	*	*	*	\$88,386	\$103,042	\$113,508	*
200 - 500	6	8	10	100% 0% 0%	\$105,771	\$107,917	\$114,134	\$81,320	\$100,238	\$117,467	*
100 - 200	6	6	7	83% 17% 0%	\$97,969	\$100,423	\$100,423	\$66,055	\$82,497	\$99,374	*
50 - 100	16	15	4	63% 25% 12%	\$79,202	\$87,826	\$87,826	*	*	*	*
25 - 50	7	7	*	86% 14% 0%	\$78,103	\$87,148	\$87,148	*	*	*	*
< 25	5	4	*	80% 20% 0%	*	*	*	*	*	*	*

94,619 108,988

710,803

American Water Works Association - Medium - 2019

All Participants

Job E120 - Engineer—Senior

Under general supervision, performs a variety of complex and advanced professional-level engineering work involving both office and field activities. Supervises functional engineering activities or manages engineering projects. Typically has a bachelor's degree in engineering and 5 or more years of experience.

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	64	85	4	81% 16% 3%	\$92,914	\$95,349	\$95,797	\$76,440	\$92,751	\$108,674	24
Board Operated	38	49	4	84% 13% 3%	\$94,600	\$96,980	\$96,401	\$78,187	\$95,307	\$111,848	23
City/County	21	28	4	71% 24% 5%	\$83,926	\$93,200	\$96,054	\$75,856	\$90,381	\$104,934	*
Private	1	1	*	* * *	*	*	*	*	*	*	*
Other	3	6	*	* * *	*	*	*	*	*	*	*

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	31	45	4	87% 6% 7%	\$88,453	\$96,837	\$97,034	\$74,162	\$90,333	\$105,734	*
25 - 50,000	16	23	5	88% 12% 0%	\$88,747	\$97,824	\$98,455	\$81,495	\$100,859	\$118,798	*
10 - 25,000	17	17	*	65% 35% 0%	\$87,090	\$90,623	\$88,926	\$75,204	\$89,292	\$104,203	*

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	* * *	*	*	*	*	*	*	*
500 - 1,000	3	7	*	* * *	*	*	*	*	*	*	*
200 - 500	10	27	5	90% 10% 0%	\$107,281	\$112,064	\$108,694	\$88,615	\$103,068	\$117,954	*
100 - 200	11	10	*	91% 9% 0%	\$93,163	\$89,287	\$89,819	\$69,432	\$85,749	\$101,732	*
50 - 100	21	25	4	67% 24% 9%	\$89,500	\$92,373	\$89,615	\$76,555	\$94,204	\$110,199	*
25 - 50	11	10	*	100% 0% 0%	\$97,223	\$96,675	\$96,675	\$82,627	\$98,992	\$115,937	*
< 25	7	6	*	57% 43% 0%	\$86,286	\$97,936	\$97,936	\$70,474	\$84,158	\$99,261	*

96373 113079

8104,726

American Water Works Association - Medium - 2019

All Participants

Job L110 - Top Operations & Maintenance Executive

Directs and administers the operations/maintenance division functions of source and supply, water treatment, water quality, water control, transmission and distribution, maintenance, and process control.

2018 Salaries

Summary of All Reported Data by Ownership/Management Type

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	128	145	44	93%	\$104,195	\$111,114	\$104,398	\$92,523	\$113,549	\$132,878	18
Board Operated	78	87	40	94%	\$105,000	\$113,481	\$103,932	\$97,159	\$121,817	\$141,989	18
City/County	41	43	45	90%	\$102,000	\$103,129	\$102,265	\$83,681	\$99,603	\$117,375	14
Private	4	10	*	*	*	*	*	*	*	*	*
Other	5	5	99	100%	\$130,946	\$142,987	\$142,987	\$113,619	\$133,590	\$153,561	*

Summary of All Reported Data by Population Size

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	39	42	73	97%	\$116,681	\$123,330	\$121,716	\$95,607	\$119,171	\$138,615	20
25 - 50,000	45	55	39	91%	\$102,000	\$104,854	\$90,459	\$94,173	\$116,753	\$136,848	14
10 - 25,000	44	48	23	91%	\$98,622	\$106,052	\$105,216	\$87,795	\$104,566	\$123,115	18

Summary of All Reported Data by Total Employment

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	*	*	*	*	*	*	*	*
500 - 1,000	3	3	*	*	*	*	*	*	*	*	*
200 - 500	9	11	100	100%	\$161,762	\$154,001	\$143,421	\$111,009	\$145,696	\$168,034	*
100 - 200	18	22	57	100%	\$126,313	\$125,868	\$117,685	\$99,613	\$122,665	\$145,921	*
50 - 100	38	41	36	92%	\$109,552	\$109,242	\$110,558	\$91,286	\$109,638	\$129,208	15
25 - 50	33	33	17	100%	\$96,617	\$102,842	\$102,146	\$84,817	\$104,709	\$123,856	19
< 25	25	34	13	76%	\$92,337	\$92,538	\$73,291	\$84,365	\$98,599	\$112,381	12

115,612 + 135,327
125,470

American Water Works Association - Medium - 2019

All Participants

Job L130 - Top Finance Executive

Responsible for managing the department's financial resources, including acting as the disbursing authority for the Top Executive. Directs and manages the accounting, treasury, and budget operations, and rate administration, contract, and information services sections.

Summary of All Reported Data by Ownership/Management Type

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	126	127	13	92%	\$111,204	\$114,855	\$113,542	\$95,487	\$116,858	\$138,217	19
Board Operated	89	83	13	92%	\$112,900	\$115,388	\$115,388	\$97,147	\$119,712	\$141,355	16
City/County	28	25	11	89%	\$98,064	\$106,627	\$106,627	\$88,290	\$105,391	\$125,221	*
Private	2	2	*	*	*	*	*	*	*	*	*
Other	7	17	20	100%	\$135,200	\$135,621	\$113,592	\$104,069	\$127,824	\$151,580	*

Summary of All Reported Data by Population Size

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	38	44	24	92%	\$120,500	\$127,753	\$121,030	\$99,412	\$125,017	\$148,511	*
25 - 50,000	40	37	11	93%	\$112,169	\$112,081	\$112,081	\$98,714	\$120,655	\$142,442	16
10 - 25,000	48	46	7	92%	\$104,573	\$107,553	\$107,553	\$89,279	\$106,088	\$125,402	19

Summary of All Reported Data by Total Employment

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	*	*	*	*	*	*	*	*
500 - 1,000	2	2	*	*	*	*	*	*	*	*	*
200 - 500	9	9	38	100%	\$154,253	\$156,272	\$156,272	\$118,208	\$150,145	\$175,875	*
100 - 200	17	16	12	100%	\$125,876	\$123,743	\$123,743	\$98,949	\$120,821	\$144,746	*
50 - 100	40	35	9	88%	\$104,345	\$109,262	\$109,262	\$84,524	\$115,300	\$137,647	20
25 - 50	32	41	6	100%	\$108,555	\$111,028	\$107,892	\$88,628	\$108,592	\$129,111	*
< 25	25	24	5	80%	\$100,667	\$99,085	\$99,085	\$84,554	\$97,893	\$112,799	10

118,494 140,354

129,424

American Water Works Association - Medium - 2019

All Participants

Job D240 - GIS Analyst

Uses GIS technology to analyze and describe variables in a geographic location. Extracts data, performs analyses, and presents conclusions and recommendations. Works under general supervision. Typically requires a bachelor's degree and 4-6 years of relevant experience.

Summary of All Reported Data by Ownership/Management Type

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	48	49	2	48% 46% 6%	\$66,331	\$65,462	\$63,971	\$53,768	\$65,115	\$77,585	24
Board Operated	28	29	2	39% 54% 7%	\$65,666	\$64,828	\$63,265	\$53,264	\$64,494	\$76,601	22
City/County	16	16	*	56% 38% 6%	\$64,965	\$65,482	\$63,864	\$52,994	\$63,440	\$75,814	*
Private	0	0	*	*	*	*	*	*	*	*	*
Other	3	3	*	*	*	*	*	*	*	*	*

Summary of All Reported Data by Population Size

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	24	26	2	50% 42% 8%	\$65,873	\$64,121	\$62,034	\$53,937	\$65,151	\$77,772	28
25 - 50,000	13	11	*	62% 38% 0%	\$71,852	\$70,661	\$70,661	\$55,808	\$68,045	\$80,790	*
10 - 25,000	11	12	*	27% 64% 9%	\$60,000	\$62,948	\$62,035	\$50,879	\$61,447	\$73,233	*

Summary of All Reported Data by Total Employment

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	*	*	*	*	*	*	*	*
500 - 1,000	3	4	*	*	*	\$59,580	\$57,440	\$57,635	\$64,891	\$73,171	*
200 - 500	6	8	*	50% 50% 0%	\$65,544	\$67,157	\$66,147	\$52,630	\$66,208	\$81,205	25
100 - 200	15	15	*	33% 67% 0%	\$65,666	\$66,414	\$66,414	\$53,313	\$64,539	\$76,854	*
50 - 100	14	12	*	64% 14% 22%	\$68,789	\$68,499	\$68,499	\$54,099	\$66,012	\$78,976	*
25 - 50	7	7	*	43% 57% 0%	\$75,000	*	*	*	*	*	*
< 25	3	3	*	*	*	*	*	*	*	*	*

65,925 78,534

72,229

American Water Works Association - Medium - 2019

All Participants

Job L115 - Top Engineering Executive

Responsible for administering all engineering/construction programs, including special projects and the design and construction of departmental facilities.

Summary of All Reported Data by Ownership/Management Type

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	80	76	16	95%	\$118,054	\$117,129	\$117,275	\$96,101	\$117,720	\$137,959	18
Board Operated	44	39	15	95%	\$121,451	\$123,660	\$123,660	\$102,728	\$127,883	\$149,364	16
City/County	29	30	16	93%	\$101,000	\$104,719	\$106,329	\$86,991	\$102,894	\$121,294	18
Private	2	2	*	*	*	*	*	*	*	*	*
Other	4	4	*	*	*	*	*	*	*	*	*

Summary of All Reported Data by Population Size

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	35	33	17	94%	\$115,470	\$116,006	\$116,041	\$95,587	\$118,128	\$136,494	24
25 - 50,000	23	20	16	96%	\$119,500	\$115,521	\$115,521	\$95,936	\$117,285	\$138,020	*
10 - 25,000	22	23	15	95%	\$118,412	\$120,372	\$120,570	\$97,220	\$117,336	\$140,649	*

Summary of All Reported Data by Total Employment

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	*	*	*	*	*	*	*	*
500 - 1,000	3	3	*	*	*	*	*	*	*	*	*
200 - 500	9	9	17	100%	\$144,282	\$144,077	\$141,086	\$113,627	\$139,675	\$153,530	*
100 - 200	16	16	22	100%	\$112,479	\$117,386	\$118,045	\$90,999	\$112,583	\$134,508	*
50 - 100	29	27	13	90%	\$114,240	\$109,331	\$109,331	\$94,231	\$112,672	\$134,168	9
25 - 50	15	15	9	100%	\$120,000	\$120,261	\$120,261	\$94,472	\$116,585	\$138,313	*
< 25	7	6	23	86%	\$114,027	\$107,739	\$107,739	*	*	*	*

119,970 140,547
130,259

American Water Works Association - Medium - 2019

All Participants

Job A170 - Customer Service Manager

Responsible for the customer service, water sales, and collections functions, ensuring the maintenance of customer relations at an effective level, while handling customer inquiries and problems related to billing, meter reading, service contracts, revenue collection, and inspections.

Summary of All Reported Data by Ownership/Management Type

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	139	170	10	66%	\$66,123	\$69,304	\$65,895	\$58,767	\$71,493	\$83,780	19
Board Operated	93	110	10	68%	\$67,800	\$70,581	\$67,683	\$60,042	\$73,422	\$85,742	17
City/County	36	38	10	64%	\$61,800	\$65,652	\$62,672	\$56,336	\$67,162	\$78,699	22
Private	3	5	*	*	*	*	*	*	*	*	*
Other	6	16	16	67%	\$79,487	\$78,596	\$68,419	\$60,769	\$73,891	\$87,014	*

Summary of All Reported Data by Population Size

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	38	43	18	84%	\$69,326	\$77,388	\$73,501	\$63,239	\$78,087	\$92,480	20
25 - 50,000	45	66	10	62%	\$69,955	\$69,943	\$66,069	\$59,105	\$72,172	\$84,497	13
10 - 25,000	56	61	5	57%	\$59,708	\$63,514	\$60,346	\$54,911	\$65,529	\$76,253	21

Summary of All Reported Data by Total Employment

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	*	*	*	*	*	*	*	*
500 - 1,000	3	9	*	*	*	*	*	*	*	*	*
200 - 500	10	13	25	100%	\$96,990	\$95,086	\$90,979	\$76,099	\$91,227	\$107,905	*
100 - 200	21	19	15	90%	\$81,700	\$82,607	\$82,607	\$67,019	\$82,987	\$98,819	*
50 - 100	37	48	8	62%	\$65,611	\$68,513	\$65,695	\$56,810	\$69,876	\$82,584	16
25 - 50	32	36	4	72%	\$65,500	\$68,126	\$64,727	\$54,951	\$65,686	\$76,926	9
< 25	35	45	3	40%	\$54,350	\$56,934	\$54,105	\$50,943	\$60,321	\$68,834	16

72341 84911
\$78626

American Water Works Association - Medium - 2019

Job A150 - Procurement Manager

Responsible for planning, managing, coordinating, and administering the purchasing function.

Summary of All Reported Data by Ownership/Management Type

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	47	42	3	57% 40% 3%	\$69,638	\$73,086	\$72,856	\$62,570	\$76,153	\$89,093	*
Board Operated	27	24	3	52% 48% 0%	\$74,213	\$74,720	\$74,720	\$65,305	\$79,194	\$91,425	*
City/County	17	15	2	59% 35% 6%	\$59,147	\$69,135	\$68,754	\$59,320	\$71,763	\$85,195	*
Private	1	1	*	*	*	*	*	*	*	*	*
Other	2	2	*	*	*	*	*	*	*	*	*

Summary of All Reported Data by Population Size

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	17	15	2	59% 41% 0%	\$69,367	\$73,918	\$73,918	\$60,703	\$75,029	\$85,124	*
25 - 50,000	15	14	5	80% 20% 0%	\$77,669	\$79,229	\$78,099	\$73,232	\$88,068	\$103,955	*
10 - 25,000	15	13	2	33% 60% 7%	\$58,677	\$65,984	\$65,984	\$55,129	\$66,729	\$80,431	*

Summary of All Reported Data by Total Employment

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	*	*	*	*	*	*	*	*
500 - 1,000	2	2	*	*	*	\$85,869	\$85,869	\$63,778	\$80,838	\$89,178	*
200 - 500	7	6	3	71% 14% 15%	\$86,295	\$79,896	\$79,896	\$64,190	\$76,422	\$91,644	*
100 - 200	10	9	4	70% 30% 0%	\$80,633	\$66,808	\$66,547	\$61,382	\$75,323	\$89,468	*
50 - 100	13	13	2	54% 46% 0%	\$59,147	\$71,759	\$71,759	\$56,532	\$67,330	\$78,995	*
25 - 50	11	10	*	45% 55% 0%	\$69,191	*	*	*	*	*	*
< 25	3	2	*	*	*	*	*	*	*	*	*

77,405 81,825
\$83640

American Water Works Association - Medium - 2019

All Participants

Job E100 - Engineer—Associate

Under direct supervision, performs a variety of routine professional-level engineering work involving both office and field activities. Typically has a bachelor's degree in engineering and 0-2 years of experience.

Summary of All Reported Data by Ownership/Management Type

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	55	89	*	31%	\$58,110	\$61,597	\$60,060	\$54,514	\$65,632	\$76,379	16
Board Operated	30	36	*	37%	\$58,000	\$59,514	\$60,457	\$54,928	\$66,532	\$77,402	*
City/County	19	29	*	32%	\$64,272	\$66,240	\$66,579	\$55,832	\$67,366	\$78,952	*
Private	0	0	*	*	*	*	*	*	*	*	*
Other	5	12	*	0%	\$65,280	\$58,627	\$53,567	\$51,731	\$58,974	\$66,217	*

Summary of All Reported Data by Population Size

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	24	46	*	33%	\$58,474	\$62,213	\$61,551	\$55,224	\$66,871	\$77,204	*
25 - 50,000	14	24	*	36%	\$55,505	\$56,319	\$52,382	\$47,988	\$59,737	\$71,568	*
10 - 25,000	17	19	*	24%	\$58,998	\$65,155	\$66,148	\$58,160	\$67,983	\$78,636	*

Summary of All Reported Data by Total Employment

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	*	*	*	*	*	*	*	*
500 - 1,000	3	9	*	*	*	*	*	*	*	*	*
200 - 500	8	23	*	63%	\$75,160	\$71,342	\$68,752	\$63,359	\$74,575	\$85,079	*
100 - 200	11	20	*	27%	\$49,804	\$60,712	\$64,603	\$51,344	\$62,536	\$74,597	*
50 - 100	21	27	*	19%	\$56,952	\$58,394	\$59,197	\$52,948	\$63,524	\$74,207	*
25 - 50	9	9	*	33%	\$61,111	\$65,306	\$67,407	\$57,789	\$70,055	\$81,227	*
< 25	2	1	*	*	*	*	*	*	*	*	*

453,982 65,800 74,850

American Water Works Association - Medium - 2019

All Participants

Job D100 - Water Operations Manager

Responsible for the operation of the water distribution system and control of the flow of filtered water into and throughout the system; plans and supervises the operation of all pumping stations and distribution reservoirs; supervises leak-detection activities and 24-hour service department.

Summary of All Reported Data by Ownership/Management Type

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
All	161	229	14	71%	\$82,160	\$84,304	\$81,367	\$69,414	\$83,790	\$98,403	14
Board Operated	93	87	11	71%	\$84,797	\$86,526	\$86,559	\$73,513	\$88,571	\$103,650	14
City/County	56	122	18	71%	\$74,797	\$79,555	\$77,851	\$63,797	\$77,092	\$90,793	14
Private	6	8	11	83%	\$86,635	\$89,468	\$88,525	*	*	*	*
Other	5	11	19	60%	\$85,404	\$80,532	\$69,870	\$65,660	\$78,379	\$94,298	*

Summary of All Reported Data by Population Size

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
50 - 100,000	42	99	22	83%	\$85,000	\$87,887	\$81,860	\$73,041	\$88,775	\$104,818	22
25 - 50,000	47	59	13	77%	\$93,766	\$92,229	\$85,300	\$73,578	\$89,322	\$104,968	17
10 - 25,000	72	71	10	61%	\$77,896	\$77,078	\$77,411	\$64,321	\$76,908	\$90,049	10

Summary of All Reported Data by Total Employment

Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Employee Wtd Avg Pay	Average Salary Range			Avg Weekly Overtime
								Min	Mid	Max	
Over 1,000	0	0	*	*	*	*	*	*	*	*	*
500 - 1,000	2	8	*	*	*	*	*	\$91,009	\$110,925	\$131,497	*
200 - 500	9	12	47	89%	\$105,496	\$110,480	\$105,141	\$71,705	\$88,682	\$106,199	*
100 - 200	18	16	20	94%	\$88,577	\$89,479	\$89,479	\$65,983	\$80,816	\$95,511	15
50 - 100	42	75	14	71%	\$75,450	\$80,244	\$74,833	\$68,467	\$82,809	\$98,055	13
25 - 50	37	67	12	89%	\$90,139	\$88,101	\$85,981	\$66,115	\$77,291	\$88,403	8
<25	52	51	7	48%	\$80,000	\$79,496	\$79,983				

87,320 102,224

American Water Works Association - Medium - 2019

All Participants

Job L100 - Top Executive

Under general direction of the city, managing board of directors, mayor, or board of water commissioners, the Top Executive is responsible for managing, planning, coordinating, and administering all activities of the water department and/or water company. Responsible for the short- and long-range strategy of the organization subject to review by the board.

Summary of All Reported Data by Ownership/Management Type										Average Salary Range			Avg Weekly Overtime
										Min	Mid	Max	
Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Wtd Avg Pay	Employee Wtd Avg Pay					
All	217	223	59	91% 3%	\$138,435	\$147,631	\$141,627	\$141,627		\$112,712	\$133,325	\$152,024	18
Board Operated	139	144	55	93% 1%	\$146,163	\$149,290	\$141,731	\$141,731		\$116,521	\$137,018	\$157,657	19
City/County	58	58	65	90% 3%	\$120,000	\$131,210	\$129,019	\$129,019		\$106,611	\$126,946	\$143,855	13
Private	10	11	38	80% 20%	\$140,000	\$159,144	\$155,994	\$155,994		*	*	*	*
Other	9	9	112	89% 11%	\$160,635	\$197,085	\$197,085	\$197,085		\$111,321	\$139,636	\$146,893	*

Summary of All Reported Data by Population Size										Average Salary Range			Avg Weekly Overtime
										Min	Mid	Max	
Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Wtd Avg Pay	Employee Wtd Avg Pay					
50 - 100,000	58	53	105	93% 2%	\$152,318	\$163,723	\$163,723	\$163,723		\$116,339	\$140,465	\$160,667	22
25 - 50,000	64	69	59	92% 3%	\$148,950	\$156,571	\$139,964	\$139,964		\$127,632	\$149,933	\$170,844	16
10 - 25,000	95	101	33	89% 3%	\$125,375	\$132,433	\$131,169	\$131,169		\$100,525	\$118,010	\$133,930	16

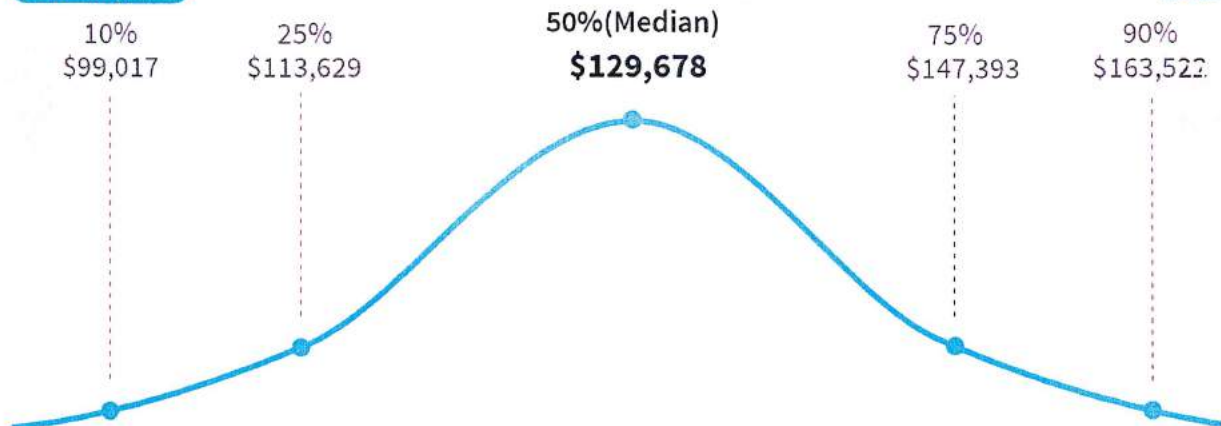
Summary of All Reported Data by Total Employment										Average Salary Range			Avg Weekly Overtime
										Min	Mid	Max	
Scope	# of Utilities	# of Employees	Avg. # of Ees Sup	Exempt E / N / U	50th Percentile	Co Wtd Avg Pay	Wtd Avg Pay	Employee Wtd Avg Pay					
Over 1,000	0	0	*	*	*	*	*	*		*	*	*	*
500 - 1,000	2	2	*	*	*	\$220,543	\$220,543	\$220,543		\$152,297	\$186,736	\$227,843	*
200 - 500	9	8	181	100% 0%	\$206,225	\$181,637	\$179,039	\$179,039		\$130,468	\$168,013	\$203,347	*
100 - 200	22	22	119	100% 0%	\$188,864	\$149,938	\$149,938	\$149,938		\$115,937	\$139,706	\$159,620	14
50 - 100	54	50	63	87% 6%	\$150,750	\$146,238	\$146,238	\$146,238		\$113,957	\$134,151	\$153,225	*
25 - 50	59	55	33	98% 0%	\$148,950	\$120,251	\$110,046	\$110,046		\$101,696	\$115,571	\$129,618	14
<25	71	86	20	85% 4%	\$114,856								

140391 160598
\$150,494

Finance Manager Salary in Rhode Island

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How much does a Finance Manager make in Rhode Island? The average Finance Manager salary in Rhode Island is \$129,678 as of February 26, 2020, but the rate typically falls between \$113,629 and \$147,393. Salary ranges can vary widely depending on the city and many other important factors, including education, certification, additional skills, the number of years you have spent in your profession.

[Salary](#) [Salary + Bonus](#) [Benefits](#)[Paid Annually](#)[View as:](#)

Information Technology Manager Salary in Rhode Island

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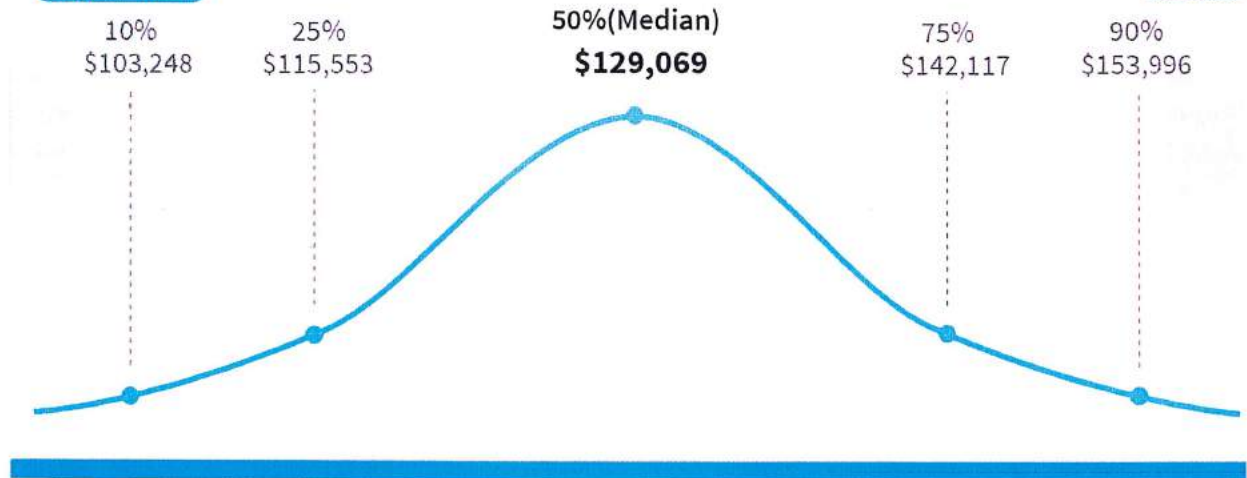
[Change City](#)

How much does an Information Technology Manager make in Rhode Island? The average Information Technology Manager salary in Rhode Island is \$129,069 as of February 26, 2020, but the range typically falls between \$115,553 and \$142,117. Salary ranges can vary widely depending on the city and many other important factors, including education, certifications, additional skills, the number of years you have spent in your profession.

[Salary](#) [Salary + Bonus](#) [Benefits](#)

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Source: Payscale, Inc. © 2020

GIS Analyst II Salary in Rhode Island

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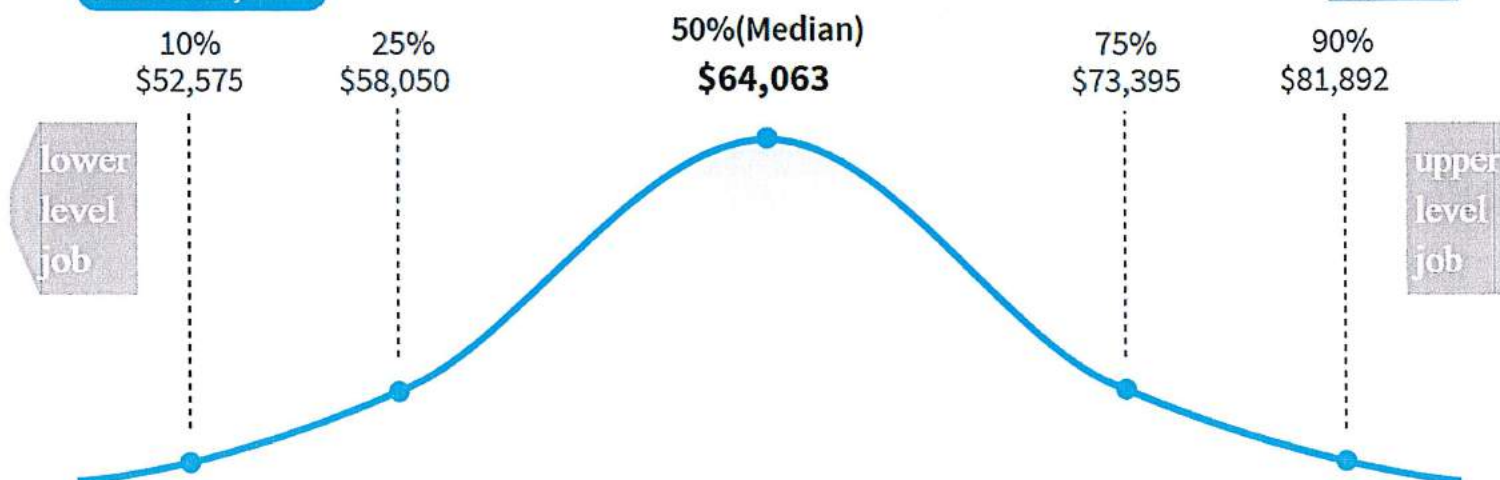
Change City

How much does a GIS Analyst II make in Rhode Island? The average GIS Analyst II salary in Rhode Island is \$64,063 as of February 26, 2020, but the range typically falls between \$58,050 and \$73,395. Salary ranges can vary widely depending on the city and many other important factors, including education, certifications, additional skills, the number of years you have spent in your profession.

Salary Salary + Bonus Benefits How To Become

Paid Annually

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For feds, 2020 pay raise depends a lot on your location

Under the 2020 appropriations bills Congress and President Trump [agreed to](#) earlier this month, civilian federal employees will [get raises that average 3.1%](#) in their first paychecks of the new year.

But it's important to remember the 3.1% figure is an *average*. The raises feds will actually receive in 2020 will vary a fair amount depending on where they work. According to a Federal News Network analysis of [data](#) the Office of Personnel Management published on Thursday, pay increases for General Schedule employees will range from 2.85% to 3.52%.

Why?

Congress [specified](#) an across-the-board base pay increase of 2.6% in the 2020 funding bills, but lawmakers left it up to the executive branch to distribute the remaining 0.5% of the publicly-advertised “average” across the federal government’s more than 50 locality pay areas.

[Locality pay](#) was originally [meant to ensure](#) federal workers living in a given area of the country were paid salaries that are roughly competitive with what private sector employees could expect to make for the same type of work.

[Insight by MobileIron: Learn about the efforts to protect networks through CDM in this exclusive ebook.](#)

But presidents of both parties — since 1994 — have used their authority to [deviate from the formulas](#) meant to ensure pay comparability, and the system has become distorted over time.

This year’s dataset shows the largest raises will go to employees in the National Capital Region. The smallest ones will go to the “Rest of the United States” group that’s meant to cover federal employees who work outside any of the designated locality areas.

The table below shows the effective pay increases federal civilian employees will actually receive, based on their locality.

<input type="checkbox"/>	Locality Pay Area	Raise including locality
1	Albany-Schenectady, NY-MA	3.20%
2	Albuquerque-Santa Fe-Las Vegas, NM	3.02%
3	Atlanta--Athens-Clarke County--Sandy Springs, GA-AL	3.04%
4	Austin-Round Rock, TX	3.22%
	Boston-Worcester-Providence	3.27%
53 records		

Source: Office of Personnel Management



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BRISTOL COUNTY WATER AUTHORITY

MEMO

Date: May 21, 2020

To: BCWA Board Members

From: Pamela M. Marchand

Re: Non-union Raises

Attached is additional information as requested by the Personnel Committee

BCWA Salary Increase History

<u>Fiscal Year</u>	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Executive Director	3.75%	0	0	New hire	3.0%	2.50%	3.0%	2.65%	3.0%	3.0%	3.50%
Non-Union	4.4%	0	0	0	7.7% *	2.25%	3.0%	2.65%	3.0%	5.0%**	4.00%
Union	3.5%	3.3%	3.0%	0	0	2.25%	2.87%	2.90%	2.95%	2.95%	3.00%

* Range 2.5% to 10.3%: 2 positions upgraded to 40 hours,
several positions with added responsibilities, increased Financial
Manager to more appropriate salary range

** Increased several positions to more
appropriate range

FY2020
Pam Marchand Compensation Details
 @
BRISTOL COUNTY WATER AUTHORITY

Salary, Benefits , Expenses, and Perks, Etc.

<u>Description</u>	FY 2020 ANNUAL Amount	FY 2020 ANNUAL Paid by Pam	FY 2020 ANNUAL Paid by BCWA
Annual Base Salary FY 2020	\$ 157,909.12	\$ -	\$ 157,909.12
Personal use of Auto Annual Est. 5380miles@ \$.55/mile*	\$ 2,959.00	\$ -	\$ 2,959.00 *
Total Gross Income	\$ 160,868.12		\$ 160,868.12
Cost of Personal use of BCWA auto 5380 miles @ \$.55/mile	\$ -	\$ 2,959.00	\$ (2,959.00)
Cost of Business use of BCWA auto Est 1345 miles @ \$.55*	\$ 739.75	\$ -	\$ 739.75 *
FICA & Medicare (7.65%)	\$ 12,306.41		\$ 12,306.41
RI TDI 100% EE	\$ 781.00	\$ 781.00	\$ -
Group LTD 100% EE	\$ 555.00	\$ 555.00	\$ -
Group Life & ADD	\$ 90.00	\$ -	\$ 90.00
Health Insurance BC/BS (EE & Spouse) EE 20%	\$ 16,429.56	\$ 3,285.91	\$ 13,143.65
Dental Insurance Family Plan - EE 20%	\$ 1,432.08	\$ 286.42	\$ 1,145.66
Pension Plan Lump Sum Increase for year **	\$ 42,227.00	\$ -	\$ 42,227.00 **
Estimated Assoc. Dues, Fees, Conferences, travel, FY2020 ***	\$ 12,000.00	\$ -	\$ 12,000.00 ***
TOTAL	\$ 247,428.92	\$ 7,867.33	\$ 239,561.59

* Auto - 2017 Ford Edge - FY 2020 total approx. miles 7575 miles which 5380 is personal miles which Pam pays BCWA @ Gov't rate of 55 cents/mile. BCWA pays for fuel, insurance, and maintenance. BCWA bumps wages to cover personal use.

** Pension Lump Sum increase on Pam's behalf. Pam was vested in the plan on 2/28/17 (5 yrs)

VACATION (PTO) - Per contract - 40 days per year. (8 Weeks)
 PTO - includes vacation, sick, & personal time off

*** This estimate is based upon fees paid for FY 2020.. This would include fees and dues for water related associations, conference fees, associated travel, per diem etc.

Pension Balances	July 1st 2017	July 1st 2018	July 1st 2019
Lump Sum Increase	\$ 41,962.00	\$ 35,757.00	\$ 42,227.00
Present Value*	\$ 180,184.00	\$ 215,941.00	\$ 258,168.00
Yrs of Service	5yr, 4 mos	6yr, 4 mos	7yr, 4 mos
	Vested		
* Per Pension Statements			



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BRISTOL COUNTY WATER AUTHORITY
MEMO

Date: May 19, 2020

To: BCWA Board Members

From: Pamela M. Marchand

Re: Surcharge Funds

By RI state law, water suppliers pay a surcharge (tax) of \$0.0292/ 100 gallons of water use which is added to the bills of water utility customers. Customers over age 65 are exempt.

There are 3 portions of the fund: 57% goes to the state general fund (was formerly earmarked for water projects of the Water Resource Board), 36.1% goes to Providence Water for source of supply projects, and 6.9% is retained by the BCWA for administration of the funds.

The Bristol County Water Supply Act, RIGL 46-15.5, provided for the construction of the East Bay Pipeline, but also required the BCWA to maintain the existing supply infrastructure from Massachusetts, the Kickemuit, and the water treatment plant. However, the RI Water Resource Board was required to provide funding for any capital projects to maintain the supply. The Act states: "...From and after the date of the activation of the additional and emergency connection, the Bristol county water authority shall have no further obligation to expend funds for improvements to its reservoirs, pipeline connection any one or more of such reservoirs and water treatment facilities unless and to the extent that such funds shall be provided by the water resources board pursuant to existing provisions of the general laws or such provision as may be hereinafter enacted." A copy of GL 46-15.5 is attached.

Attached is a request for funding for Anawan dam construction upgrades and the Shad factory engineering design, in the amount of \$761,805.00. The RIWRB did make a payment of \$79,762, leaving a balance of \$682,043. The Board never denied payment, just stated that the state did not have the money.

Therefore, the Board voted to withhold the portion of the state surcharge fund that was allocated to the general fund. To date, the BCWA has withheld \$ \$657,660.22

We should reach the total amount by July of this year, at which time we will resume payments to the surcharge fund. Joe Keough will discuss our options for the funds withheld in executive session.

Meanwhile, the state considers the payments that were withheld by BCWA as contrary to the surcharge legislation. Such legislation specifies that the utility (or municipality) that does not contribute to the fund is then not eligible for state grant funds, such as those administered by the RIWRB for interconnections.



BRISTOL COUNTY WATER AUTHORITY

BCWA

COPY

Bristol County Water Authority
Reimbursement for Anawan Dam Design and Construction
Submitted to: R.I. Water Resources Board
Completed as of: May 26, 2015

Vendor	Description	Invoice Number	Invoice Date	Amount Paid	RIWRB Percentage	Reimburse Amount	
I	Pare Corp.	Design & Permitting	1	5/23/2013	\$ 4,060.00	70%	\$ 2,842.00
	Pare Corp.	Design & Permitting	2	6/11/2013	\$ 2,412.60	70%	\$ 1,688.82
	Pare Corp.	Design & Permitting	3	7/17/2013	\$ 4,888.00	70%	\$ 3,421.60
	Pare Corp.	Design & Permitting	4	8/15/2013	\$ 16,322.28	70%	\$ 11,425.60
	Pare Corp.	Design & Permitting	5	9/16/2013	\$ 3,977.50	70%	\$ 2,784.25
	Pare Corp.	Design & Permitting	6	10/10/2013	\$ 9,137.00	70%	\$ 6,395.90
	Pare Corp.	Design & Permitting	7	11/15/2013	\$ 5,531.77	70%	\$ 3,872.24
	Pare Corp.	Design & Permitting	8	12/10/2013	\$ 15,982.34	70%	\$ 11,187.64
	Pare Corp.	Design & Permitting	9	1/24/2014	\$ 10,641.61	70%	\$ 7,449.13
	Pare Corp.	Design & Permitting	10	2/11/2014	\$ 2,639.05	70%	\$ 1,847.34
	Pare Corp.	Design & Permitting	11	3/18/2014	\$ 4,805.00	70%	\$ 3,363.50
	Pare Corp.	Design & Permitting	12	4/11/2014	\$ 2,079.81	70%	\$ 1,455.87
	Pare Corp.	Design & Permitting	13	5/6/2014	\$ 3,115.00	70%	\$ 2,180.50
	Pare Corp.	Design & Permitting	14	7/16/2014	\$ 4,412.91	70%	\$ 3,089.04
	Pare Corp.	Design & Permitting	15	9/24/2015	\$ 2,393.40	70%	\$ 1,675.38
	Pare Corp.	Design & Permitting	16	10/9/2014	\$ 985.00	70%	\$ 689.50
	Pare Corp.	Construction Oversight	17	11/24/2014	\$ 5,130.50	85%	\$ 4,360.93
	Pare Corp.	Construction Oversight	18	12/18/2014	\$ 3,489.64	85%	\$ 2,966.19
	Pare Corp.	Construction Oversight	19	1/13/2015	\$ 597.24	85%	\$ 507.65
	Pare Corp.	Construction Oversight	20	2/18/2015	\$ 552.50	85%	\$ 469.63
	Rehoboth	ANRAD Review	65052	1/2/2014	\$ 1,695.00	100%	\$ 1,695.00
SUBTOTAL:				\$ 103,153.15		\$ 73,672.69	
II	MAS Building & Bridge	Warren Upper Reservoir Dam Repairs	Req. #1	9/30/2014	\$ 69,263.45	90.0%	\$ 62,337.10
	MAS Building & Bridge	Warren Upper Reservoir Dam Repairs	Req. #2	10/31/2014	\$ 15,126.82	90.0%	\$ 13,614.14
	MAS Building & Bridge	Warren Upper Reservoir Dam Repairs	Req. #3	11/30/2014	\$ 104,659.85	90.0%	\$ 94,193.87
	MAS Building & Bridge	Warren Upper Reservoir Dam Repairs	Req. #4	12/31/2014	\$ 24,966.15	90.0%	\$ 22,469.53
	MAS Building & Bridge	Warren Upper Reservoir Dam Repairs	Req. #5	1/31/2015	\$ 47,809.72	90.0%	\$ 43,028.75
	MAS Building & Bridge	Warren Upper Reservoir Dam Repairs	Req. #6	3/31/2015	\$ 127,506.15	90.0%	\$ 114,755.64
SUBTOTAL:				\$ 389,332.14		\$ 350,399.03	
OTHER:							
III	BCWA Engineering Design Costs to Construct Shad Pipeline/Pump Station*			1/20/2015	\$ 79,762.18	100%	\$ 79,762.18
IV	Cost Analysis Anawan Dam / Spillway Rehab. From 2000 to 2001*				\$ 254,178.38	100%	\$ 254,178.38
V	CDM-Smith Pawtucket Interconnection Controls & Chemical addition*			7/16/2014	\$ 3,792.72	100%	\$ 3,792.72
* Detail Request previously submitted to RIWRB							
SUBTOTAL:				\$ 337,733.28		\$ 337,733.28	
Total Paid by BCWA:				\$ 830,218.57			
Reimbursement due from RIWRB:						\$ 761,805.00	



TITLE 46

Waters and Navigation

CHAPTER 46-15.5

Bristol County Water Supply

SECTION 46-15.5-6

§ 46-15.5-6 Existing facilities of the Bristol County water authority. – (a) The Bristol County water authority will continue to maintain its reservoirs, wells and well sites, transmission lines and water treatment plants in good, sound and safe condition in accordance with its past practices. The Bristol County water authority shall continue to take all steps necessary to protect its legal right to withdraw water from its existing reservoirs, wells and well sites, and shall protect the watershed surrounding said reservoirs to the extent it has legal authority to do so and shall maintain its transmission lines from its existing reservoirs, wells, well sites and water treatment facilities; provided, however, that if in order to protect its legal authority to withdraw water from the existing reservoirs, the Bristol County water authority shall be required to maintain all or part of its facilities in accordance with federal Safe Drinking Water Act standards, 42 U.S.C. § 300f et seq., the capital cost thereof shall be paid for by the state water resources board.

(b) The Bristol County water authority in co-operation with the water resources board shall prepare a plan to protect, enhance and improve its existing reservoirs, wells, well sites, transmission lines and treatment plants. Upon approval of such plan, the authority shall cause to be prepared definitive construction plans and drawings and shall apply for and prosecute to completion all federal, state and local permits necessary to permit such construction to be lawfully undertaken; provided, however, if at any time, the Bristol County water authority shall have satisfied the limitation on its financial commitment as set forth in § 46-15.5-6.1, then it shall no longer be required to undertake such planning, design and permitting unless the water resources board shall lawfully provide one hundred percent (100%) of the cost thereof.

(c) Upon completion of the construction authorized by such plan, the Bristol County water authority shall utilize the existing system as so improved in the overall management of its water supply and distribution system in compliance with its water supply management plan approved pursuant to chapter 15.4 of this title. If, after all permits for such improvements and enhancements have been received the water resources board shall determine to purchase such existing reservoirs, wells, well sites, transmission lines, and distribution of water treatment facilities, the Bristol County water authority is authorized to sell or lease any one or more of such reservoirs, wells, well sites, transmission lines, or treatment facilities to the board pursuant to the provision of § 46-15.1-7 and the board is authorized to the extent not otherwise permitted by law to acquire such facilities and improve such facilities under the provisions of chapter 15.3 of this title except as specifically provided for in this section. From and after the date of the activation of the additional and emergency connection, the Bristol County water authority shall have no further obligation to expend funds for improvements to its reservoirs, pipelines connecting any one or more of such reservoirs and water treatment facilities

unless and to the extent that such funds shall be provided by the water resources board pursuant to existing provisions of the general laws or such provisions as may be hereinafter enacted.

(d) The state water resources board shall provide funding necessary to maintain the reservoirs, wells and well sites and pipelines connecting any one or more of such reservoirs, wells and well sites, and water treatment facilities of the Bristol County water authority system so as to meet all federal standards related to safe drinking water. Notwithstanding any other provision of law, any amounts so expended by the state water resources board shall be deemed eligible expenditures within the meaning of § 46-15.3-4(4).

History of Section.

(P.L. 1992, ch. 134, § 1; P.L. 1993, ch. 243, § 1; P.L. 2007, ch. 340, § 52.)

TITLE 46

Waters and Navigation

CHAPTER 46-15.5

Bristol County Water Supply

SECTION 46-15.5-7

§ 46-15.5-7 Connection with Providence water supply system. – The provisions of § 18 of chapter 1278 of the public laws of Rhode Island, of 1915 as amended, dealing with the connection of the Bristol County water authority with the Providence water supply system are hereby amended to authorize the additional connection and the emergency connections in the manner approved by the water resources board in accordance with the provisions of this chapter and with chapter 15 of this title. That § 18 is further amended by adding the City of East Providence to those cities wherein all pipelines and other water works appurtenances of the Bristol County water authority are exempt from local taxation. The City of Providence is authorized and directed to treat the additional connection as an acceptable "delivery point" pursuant to those provisions of that certain agreement dated March 28, 1986 between the Bristol County water authority and the City of Providence, subject nevertheless to the provisions of § 5 of such agreement.

History of Section.

(P.L. 1992, ch. 134, § 1; P.L. 1993, ch. 243, § 1.)

TITLE 46

Waters and Navigation

CHAPTER 46-15.5

Bristol County Water Supply

SECTION 46-15.5-9

§ 46-15.5-9 Administrative priority. – Any state agency, board, council, or commission shall give priority in terms of consideration of, and hearing on, any application made by the Bristol County water authority seeking necessary approvals to carry out the provisions of this chapter.

History of Section.
(P.L. 1992, ch. 134, § 1.)

TITLE 46

Waters and Navigation

CHAPTER 46-15.5

Bristol County Water Supply

SECTION 46-15.5-10

§ 46-15.5-10 Transfer of functions. – Notwithstanding any transfer of functions from the water resources board to the department of environmental management or any provision of law, the water resources board shall retain all jurisdiction with respect to chapter 15 of this title as in effect prior to the enactment of chapter 461 of the Public Laws of 1990, and as amended, herein shall remain in effect for purposes of implementing this chapter.

History of Section.

(P.L. 1992, ch. 134, § 1.)



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BRISTOL COUNTY WATER AUTHORITY
MEMO

Date: May 19, 2020

To: BCWA Board Members

From: Pamela M. Marchand

Re: Anawan Club Indenture for the Anawan Dam and Water Supply

The Anawan Club of Rehoboth owns the Anawan reservoir and dam. In 1912 the Bristol and Warren Water Company entered into an agreement with the Anawan Club to withdraw water from the Anawan reservoir for water supply. The water from the reservoir was controlled by the dam to supply the Shad Factory reservoir. The Shad pump station would pump water from the Shad Factory reservoir through a 20" dedicated pipeline to the Kickemuit reservoir. The pipeline was constructed of 5400' of unlined cast iron (1908) and welded steel pipe (1940). The pump station and pipeline were severely deteriorated and have not been functional for at least 20 years.

The BCWA began the engineering design to replace the pump station and pipeline after 1998 with RIWRB funding under the Bristol County Water Supply Act. It ran into several problems and was still delayed in 2012, when I started at the BCWA, and cancelled the project following a review of the functionality of the treatment plant and supplies.

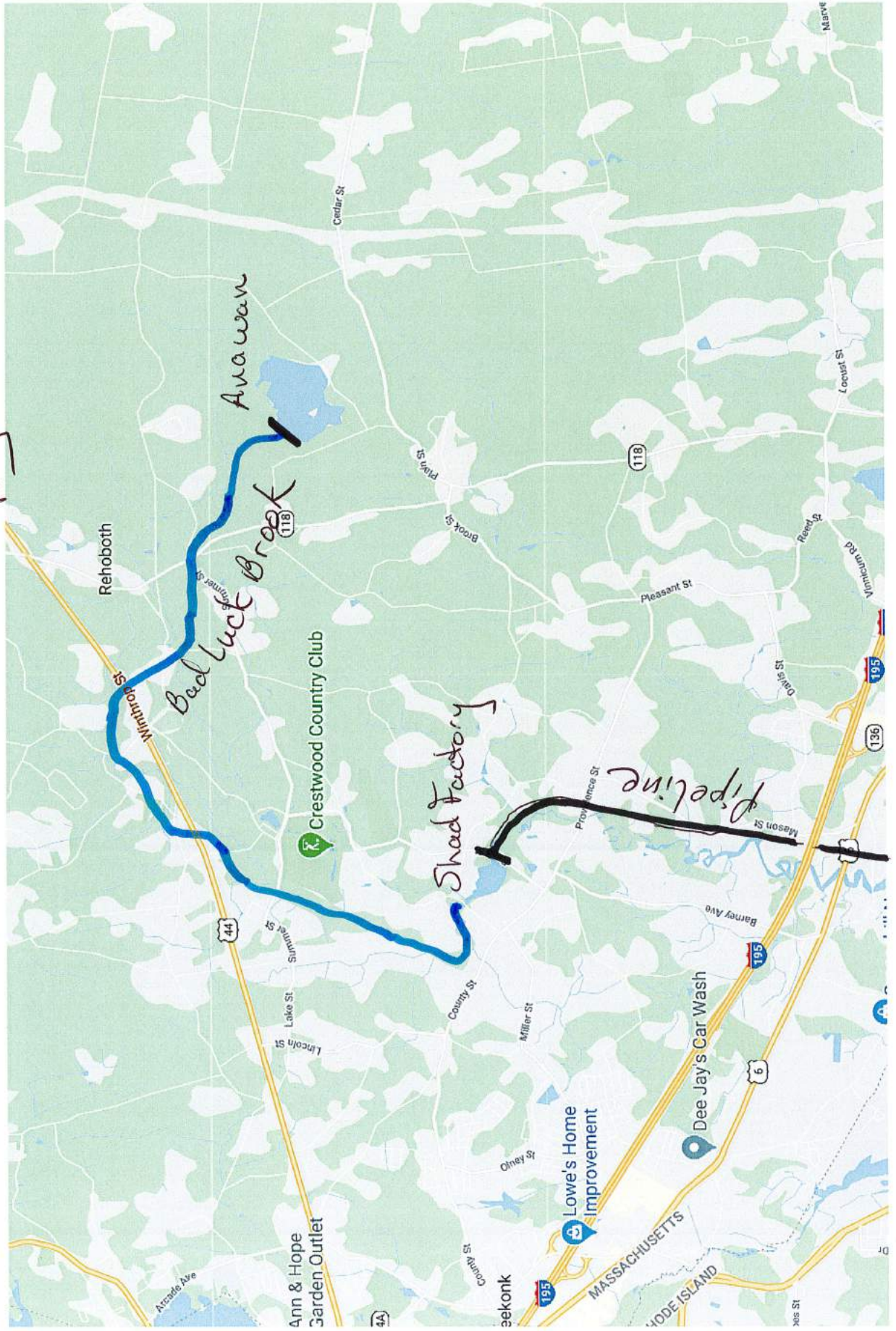
The agreement and previous indentures require the BCWA to indemnify the Anawan Club from all costs resulting from the use of the reservoir by the BCWA, with BCWA responsible for the maintenance of the dam and retaining wall, and the payment of all taxes on the reservoir and related dam structures. Taxes are \$940 per year. See the most recent Indenture, attached.

In 2015 we did some extensive work on the dam to repair storm damage and deterioration. This work was submitted to the RIWRB for reimbursement under the Bristol County Water Act, but was not reimbursed. See the Surcharge Funds memo in the Board packet.

The indenture allows the cancellation of the Anawan agreement with one (1) year's notice.

The Board had discussed the cancellation in the past, as the Anawan is no longer useful as a supply and remains our responsibility. However, the reservoir it is tied to the state's responsibility to maintain the infrastructure. This will be discussed in executive session.

Google Maps BCWA Former Water Supply



THIS INDENTURE, made and executed this 22nd day of November, 1986, by and between ANAWAN CLUB, a corporation organized and existing under the laws of the State of Rhode Island, of the first part, hereinafter called the "Club", and BRISTOL COUNTY WATER COMPANY, likewise a Rhode Island corporation, of the second part, hereinafter called the "Water Company",

W I T N E S S E T H:

WHEREAS, by an Indenture made and executed on the 16th day of August, 1912, by and between the Club and the Bristol and Warren Water Works, the parties thereto adjusted their several rights and obligations resulting from their ownership of that certain dam and reservoir (generally known as the Anawan Reservoir) situated in or near the premises of the Club in the Town of Rehobeth, Bristol County, Massachusetts, across Bad Luck Brook, one of the tributaries of the Palmer River; and

WHEREAS, by an Act of the Rhode Island General Assembly approved March 14, 1934, the name of the Bristol and Warren Water Works was changed to Bristol County Water Company; and

WHEREAS, by an Indenture made and executed on the 1st day of May, 1945 by and between the Club and the Water Company, which supplements said Indenture of August 16, 1912, the Water Company is permitted to draw water from the reservoir mentioned above to a level sixty-two (62") inches below the normal water level at the new water elevation of the reservoir as established in said

Indenture of May 1, 1945, upon the condition that the Water Company pay to the Club the sum of Five Hundred (\$500.00) Dollars in each and any year in which it draws the water down to a level more than three and one-half (3-1/2) feet below the newly established water level, except when such drawdown is necessary to make repairs to the dam, reservoir or retaining wall; and

WHEREAS, by an Indenture made and executed on the 27th day of September, 1957, by and between the Club and the Water Company, which supplements said Indentures of August 16, 1912 and May 1, 1945, the Water Company is permitted to draw down an additional forty-two (42") inches below the sixty-two (62") inches maximum draw down established in said Indenture of May 1, 1945 and upon the condition required that the Water Company pay to the Club an additional sum of Five Hundred (\$500.00) Dollars each and every year of such additional withdrawal; and

WHEREAS, agreements have been reached to sell, convey, transfer, assign, and deliver all the common and preferred shares of the Water Company to the Bristol County Water Authority, hereinafter called the "Authority"; and

WHEREAS, the Water Company and the Club further wish to clarify and modify certain terms of the prior Indentures; and

WHEREAS, the Club is willing to agree to the request of the Water Company to execute and deliver this Indenture upon the terms and conditions hereinafter set forth and to such extent to supplement the Indentures of 1912, 1945 and 1957;

NOW, THEREFORE, it is agreed by and between the Club and the Water Company as follows:

1. The Club agrees that the Water Company may draw water from the Anawan Reservoir to a level one hundred and four (104") inches below the normal water level as established and under the same terms and conditions set forth in the said agreements of May 1, 1945 and September 27, 1957.

2. The Water Company's right to draw water may be granted, given, bargained, sold or conveyed to the successors and assignees of the Water Company.

3. The Water Company's right to draw water may be exercised for a term up to, but not more than ninety-nine (99) years from the date of this Indenture, provided, however, that from and after the date that the Company, or the Authority, shall construct a connection to the Providence Water Supply System and shall draw water from that system, either party may terminate this Agreement on one (1) year's written notice.

4. Notwithstanding any provisions of the Indentures to the contrary, the Company shall pay to the Club on or before the tenth day of March in each year the sum of One Thousand Dollars

(\$1,000) and such payment shall be in lieu of any and all other monetary obligations that the Company shall have under the Indentures.

5. To the extent that the Company shall maintain dam insurance, it shall name the Club as an additional insured under such policy without any charge to the Club and the Company agrees to indemnify and save harmless the Club from all loss, cost or expense, including reasonable attorneys' fees arising out of or resulting from the exercise by the Company of its rights granted to it pursuant to the Indentures or this instrument.

6. Except for the provisions hereinabove set forth, all terms and conditions of the Indentures of August 12, 1912, May 1, 1945 and September 27, 1957 shall continue in full force and effect between the parties hereto.

7. It is mutually agreed by and between the Club and the Water Company that this Indenture, executed in triplicate, shall be binding upon them and upon their respective successors and assigns and shall be effective upon the acquisition of the common stock and preferred stock of the Water Company by the Authority.

IN WITNESS WHEREOF, Anawan Club has caused these presents to be executed in its name and on its behalf by M. Russell Hartshorn, its President, and by Charles Collins its Secretary, and Bristol County Water Company has caused its seal to be hereunto affixed and these presents to be executed by Michael J.

Caponigro, its President, all thereunto authorized, as of the day and year first above written.

[Seal]

ANAWAN CLUB

By: M. Russell Hartshorn
M. Russell Hartshorn, President.

Charles Collins
Charles Collins, Secretary

[Seal]

BRISTOL COUNTY WATER COMPANY

By: Michael J. Caponigro
Michael J. Caponigro, President

STATE OF Rhode Island
COUNTY OF Providence

In East Providence, R.I., this 22 day of November, 1986, personally appeared before me M. Russell Hartshorn to me known and known by me to be the President of ANAWAN CLUB, one of the parties that executed the foregoing instrument, and acknowledged said instrument to be his free act and deed in his said capacity, and the free act and deed of said corporation, and on oath stated that he was duly authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Charles H. Collins
Notary Public

My Commission Expires June 30, 1991

STATE OF Rhode Island
COUNTY OF Providence

In East Providence, this 22 day of November,
1986, personally appeared before me Charles Collins to me known
and known by me to be the Secretary of ANAWAN CLUB, one of the
parties that executed the foregoing instrument, and acknowledged
said instrument to be his free act and deed in his said capacity,
and the free act and deed of said corporation, and on oath stated
that he was duly authorized to execute said instrument and that
the seal affixed thereto is the corporate seal of said corpora-
tion.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed
my official seal the day and year first above written.


Notary Public

My Commission expires June 30, 1991

STATE OF New Jersey
COUNTY OF Camden

In Neddock Heights, this 24th day of November,
1986, personally appeared before me Michael J. Caponigro to me
known and known by me to be the President of BRISTOL COUNTY WATER
COMPANY, one of the parties that executed the foregoing instru-
ment, and acknowledged said instrument to be his free act and
deed in his said capacity, and the free act and deed of said
corporation, and on oath stated that he was duly authorized to

execute said instrument and that the seal affixed thereto is the corporate seal of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Michael M. Edwards
Notary Public

My Commission expires 4/11/12



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BRISTOL COUNTY WATER AUTHORITY

MEMO

Date: May 21, 2020

To: BCWA Board Members

From: Pamela M. Marchand

Re: Knights of Columbus Easement, Pawtucket Ave, East Providence for the Pawtucket Pipeline

The BCWA is negotiating an easement on Knights of Columbus property. The new 24" main will be connected in the street in front of the Knights property to our existing 30" main, downstream from the Providence Water connection. It will be installed on Village Green S., then north through the Village Green property and the Citizens Bank parking lot.

The location is optimal for the future mixing station when the Pawtucket Water connection is installed. The mixing station will control the flow from the Providence and Pawtucket pipelines. It was determined that installing the pipelines for the station along with the Phase 1 pipeline would save costs in the future. The station will be underground, with a small (8'x10') building on top for electronics.

We had the area surveyed and determined a permanent easement of 8700 square feet was required. A temporary construction easement, 10 feet wider, would also be necessary (see attached diagrams).

We discussed the easement with Knights of Columbus, and they were interested in further discussions following an appraisal by Knights and one by BCWA. The summary proposals are attached. Interestingly, both are the same.

We met again with Knights and worked out any outstanding issues, such as the location of the drive, parking areas, insurance, etc..

The Knights members will be reviewing the information, and hopefully will have a response by the Thursday meeting.

The Board discussion will take place in executive session.



DRAWN BY: PAS		REGISTERED PROFESSIONAL: PREPARED BY: SUBCONSULTANT		SCALE: 1" = 30'		TITLE: BRISTOL COUNTY WATER AUTHORITY TRANSMISSION SYSTEM IMPROVEMENTS FOR EMERGENCY SUPPLY PAWTUCKET PIPELINE: PHASE 1 PROPOSED EASEMENT WITH KNIGHTS OF COLUMBUS		BETA JOB NO. 12102019 ISSUE DATE 12/10/2019 SHEET NO. E-1	
DESIGNED BY: PAS	CHECKED BY: RD	For Review Only		BETA		www.BETA-inc.com			
REVISIONS	DATE	MADE BY	CHECKED BY						

WILLIAM E. COYLE, JR. AND ASSOCIATES

RHODE ISLAND 393 Main Street • P.O. Box 1323 • Pawtucket, RI 02862 • Tel: 401/725-2200
MASSACHUSETTS • P.O. Box 3341 • S. Attleboro, MA 02703 • Tel: 508/761-7865



Appraisals Re-Use Market Analyses

In valuing the easements, we have selected \$10 per SF as a reasonable price based on recent sales of vacant land in East Providence. Therefore, the values were calculated as follows.

Permanent easement: $\$10 \times 8,690 \text{ SF} = \$86,900$. The subterranean portion was calculated at 50%, or \$43,450.

Temporary easement: A temporary easement is considered to be a rental. Since the agency will already hold a subterranean easement on 8,690 SF, the only surface easement remaining would be the balance, or \$43,450. A fair rental rate for use of the temporary easement area would be equal to a 10% return on investment, or \$4,345 per year.

The balance of the temporary easement is 2,650 SF. Calculation of the same values would indicate that this parcel would have a total value of \$26,500. The fair rental for this portion at the same 10% return on investment per year would be \$2,650.

If I may be of any further assistance please do not hesitate to contact me.

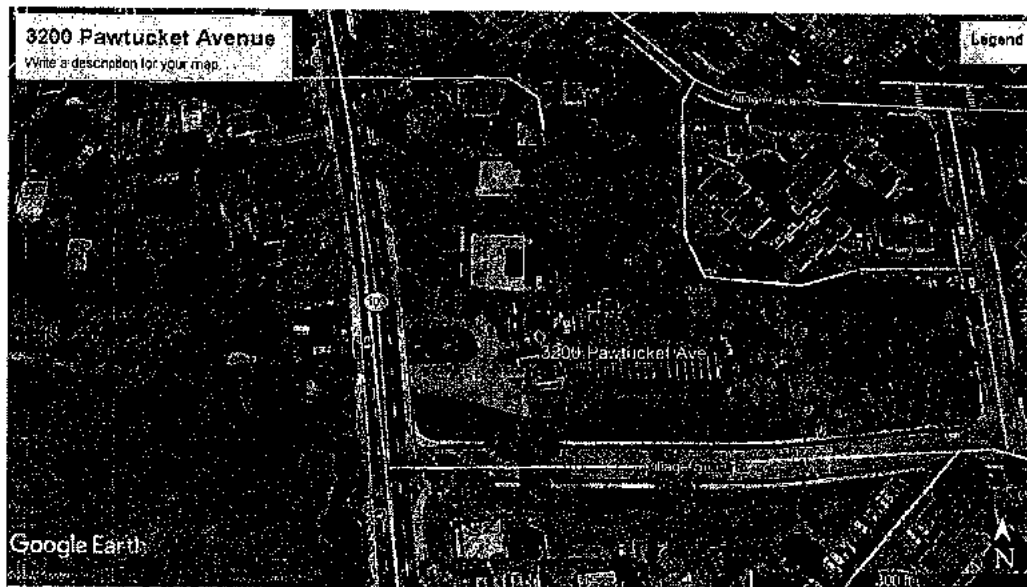
Regards,

WILLIAM E. COYLE, JR. & ASSOCIATES

William E. Coyle, III, MAI, SREA



**RESTRICTED APPRAISAL REPORT
TEMPORARY & PERMANENT EASEMENT
3200 PAWTUCKET AVENUE
(ASSESSOR'S PLAT 310, BLOCK 2, LOT 8)
EAST PROVIDENCE, RHODE ISLAND 02915**



For: Mr. Eric Batista
C/O KNIGHTS OF COLUMBUS HALL
3200 Pawtucket Avenue
East Providence, RI 02915

By: Thomas O. Sweeney, SIOR
David W. Widmann
SWEENEY REAL ESTATE & APPRAISAL
1 Turks Head Place, Suite 850
Providence, Rhode Island 02903

As of: February 27, 2020

Report Date: March 27, 2020



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March 27, 2020

Mr. Eric Batista
C/O KNIGHTS OF COLUMBUS HALL
3200 Pawtucket Avenue
East Providence, RI 02915

**RE: 3200 Pawtucket Avenue
(Plat 310, Block 2, Lot 8)
East Providence, Rhode Island 02915**

Dear Mr. Batista:

In accordance with your request, we have prepared a Restricted Appraisal Report on the property captioned above. Restricted Appraisals Reports limits the use of the report to the client and the rationale for how the appraiser arrived at the opinions and conclusions set forth in this report may not be understood without additional information in the appraisal's work file.

The purpose of this analysis is to estimate the "as is" Market Value of the Fee Simple Interest in the subject property for the proposed Temporary & Permanent Easement, under market conditions and expectations as of February 27, 2020, the current date of our market research and inspection of the subject property. The purpose of this report is to determine Just Compensation for the intended acquisition of a permanent easement and temporary easement by the Bristol County Water Authority in connection with the Transmission System Improvements for Emergency Supply.

The Permanent Easement contains 8,706± square feet and the Temporary Easement is a 32' wide temporary construction easement containing 11,340 SF. The difference between the temporary easement and the permanent easement is 2,650 SF (11,340 SF - 8,690 SF = 2,650 SF). The temporary easement includes most of the land in the permanent easement with the addition of a 10 feet x 265 feet section. The entire length of the easement is 359.39 feet. The temporary easement is 100% of the surface easement, and the permanent easement is below the surface. This value is based on the definition of market value as found in the Rules and Regulations of the Federal Register, Vol. 55, No. 165, p. 34696. The owner is listed as the Columbus Club of East Providence.

The subject property consists of a generally rectangular shaped parcel of land on Pawtucket Avenue (Route 103). The site is zoned Residential R-5, Multi-Family. The lot has a total of 65,859± SF (1.51± Acres) of land area with 165± feet of frontage on Pawtucket Avenue and 385± feet of frontage on Village Green Street. The lot is improved with a 4,582± SF Lodge Building currently the Knights of Columbus Club of East Providence. The property is otherwise designated as Lot 8, Block 2, on Plat 310 of the Tax Assessor's Plats of the City of East Providence, State of Rhode Island. The property is located in Riverside section of the City of East Providence along Pawtucket Avenue (Route 103). The immediate area around the property is multi-family, and single-family residential, St. Mary's Bay View Academy just north and a 9-hole executive golf course across the street. Just south of the subject are commercial uses along Pawtucket Avenue.

The subject consists of a generally rectangular shaped parcel of land that is improved with a two-



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story, wood-framed special use/Lodge building currently a Knights of Columbus Hall. The improvements are generally in the center of the lot with either asphalt paving for parking or landscaped grass throughout the remainder of the lot.

In our opinion the Highest and Best Use of the subject property would be for potential development under the current commercial zoning.

Statewide Real Estate Market: The Rhode Island real estate market at the end of the 2019 is stabilized with signs of growth. Following is a summary of each sector of the market, based upon information from Statewide MLS and the Costar Group.

Residential: As of the end of 2019, the single-family residential market statewide saw sales increase by 3.05% with prices increasing by 5.56% versus the same period 2018. The East Providence market saw the number of residential sales decrease by 14.89% for the end of 2019 versus the same period of 2018 while prices increased by 3.09%. The multi-family residential market statewide saw sales decrease by 2.41% with prices increasing by 11.11% versus the same period 2018. The East Providence market saw the number of multi-family residential sales increase by 30.77% for the end of 2019 versus the same period of 2018 while prices increased by 11.54%. Housing starts for all of Rhode Island for 2019 were 384 starts; this is down from 451 for the same period in 2010. The rental market is very strong in all markets as it is still the viable option to buying. Vacancy rates have been inching downward, rents will continue to increase. Rental demand increased throughout 2019. Apartment supply should be more than sufficient to meet demand. It is unlikely there will be a shortage of apartment properties in the future.

I analyzed information from public records, CoStar, The Warren Group, and the Statewide Multiple Listing Service, which are deemed reliable data sources. This assignment has been performed and completed in compliance with Uniform Standards of Professional Practice. A description of the property, the sources of information, and the bases of the estimates are stated in our file.

In analyzing the subject to determine the impact of the permanent easement we will value the parent tract of land via the Sales Comparison Approach. The next step will be to determine the value of the land within the easement area, and then adjust it to reflect the diminution of value of the land within the area (diminished development rights). We reviewed the sales of residential/commercial lots of land in the subject area to determine the value of the parent tract of land. As previously noted, the subject improvements are not impacted by the easement.

In completing this Appraisal, the appraiser relied on one approach to value. The Sales Comparison Approach was the only approach developed as the subject property is vacant land. The Income Capitalization Approach and the Cost Approach were not developed.

Sales Comparison Approach:

As stated in the Highest and Best use analysis above, the Highest and Best use of the subject lot of land would be developed with a multi-family residential use.

We performed a search for sales of vacant multi-family residential and commercial parcels of land in the area with the best sales illustrated below. A unit of comparison was developed and an opinion formulated as to the market value of the property. The appraiser utilized a per SF of land area unit



of comparison. In this approach to value, the appraiser attempts to reproduce the actions of buyers and sellers in order to arrive at the final value estimate.

Following is a summary of the commercial land sales and a grid:

#	Location	S.F.	\$	\$/SF	Date
1	0 Village Green South-East Providence	36,154	\$250,000	\$6.94	10/18/2019
2	1003-1005 Main St.-East Greenwich	45,738	\$525,000	\$11.47	01/12/2017
3	Greenwich Boulevard-East Greenwich	110,206	\$745,000	\$6.76	07/02/2019
4	444 Bullocks Pt. Ave.-East Providence	16,036	\$120,000	\$7.48	10/19/2018
5	0 Hospital Road-East Providence	80,000	\$225,000	\$2.81	10/25/2019

There are five sales of vacant residential/multi-family zoned parcels of land in the region. The sales ranged from \$2.81/SF to \$11.47/SF. Qualitative adjustments were applied. Comparable sales #1 is directly behind the subject parcel and was purchased for development of apartments. Sales 2 & 3 were both sold with approvals for apartments. Sale #4 can be built with multi-family or commercial. Sale #5 had no approvals. After analysis, the appraiser gave comparable sale #1 the greatest weight and reconciled at \$10.00/SF for the parent tract of land or \$658,590.

Easements:

The appraiser must then determine the impact of the permanent and temporary easements on the subject property. The permanent easement is underground but cannot be built upon, the temporary easement includes most of the land in the permanent easement with the addition of a 10' x 265' section. The entire length of the easement is 359.39 feet. The temporary easement is 100% of the surface easement, and the permanent easement is below the surface. The appraiser determined that the value of the taking should be based upon the loss in value due to the owner losing some of the bundle of rights in the area impacted.

Permanent Easement 8,706± SF: After analysis, it is the appraiser's opinion that the area impacted would lose approximately 50% of the fee value. 8,706± SF of land for the permanent easement @ \$10.00 per square foot is \$87,060 say \$87,000. As stated previously the appraiser determined the value of this land with the permanent easement to be 50% of the fee value. Therefore, \$87,000 @ 50% is \$43,500, say \$45,000 rounded.

Temporary Easement± SF: Typical land leases for commercial enterprises are based upon a percentage of the fee simple value. The percentage is typically based upon the quality of the location and the type of tenant who is leasing the space. For prime locations leased to "credit" tenants (i.e. national retailer, McDonald's Restaurants etc.) the rental is in the 7% to 8%. As the location or creditworthiness decreases, the rate increases. Taking all of this into account the appraiser utilized a 10% rental rate for the subject property.

A major portion of the Temporary Easement is on the Permanent Easement area that is subterranean (8,706± SF) with only the surface area remaining or \$43,500. At a rental rate of 10% would be a value for the Temporary Easement of \$4,350.

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The remaining portion of the temporary easement is 2,650± SF. At \$10.00/SF is a total value of \$26,500. A 10% rental rate gives a value of \$2,650.

This gives a total value for the temporary Easements of \$7,000. ($\$4,350 + \$2,650 = \$7,000$)

Based upon the information gathered and the analysis thereof, it is the appraiser's considered opinion that the market value of the fee simple interest for the Permanent & Temporary Easements on the subject property, on an "as is" as of February 27, 2020, expressed in terms of financial arrangements equivalent to cash, is:

PERMANENT EASEMENT

FORTY-FIVE THOUSAND DOLLARS


(\$45,000.00)

TEMPORARY EASEMENT

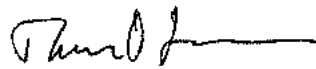
SEVEN THOUSAND DOLLARS

(\$7,000.00)

Respectfully submitted,
SWEENEY REAL ESTATE APPRAISAL



David Widmann
REA.0A01442-TRNE



Thomas O. Sweeney, SIOR
CGA.00217