# 2021 Water and Wastewater Finance Strategies Workshop

February 24 – 26, 2021 Virtual



Annual workshop providing utility practitioners with skills and up-to-date information on pricing, infrastructure planning strategies, and funding resources.

This year's workshop features new developments in Viability of utilities

COVID-19's effects and response Affordability

Integrated planning



#### **EFC's mission:**

Dedicated to enhancing the ability of governments and other organizations to provide environmental programs and services in fair, effective and financially sustainable ways through:

- Direct advising
- Applied research
- Teaching and outreach

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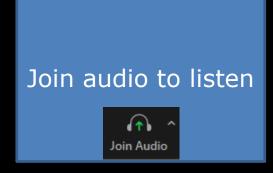


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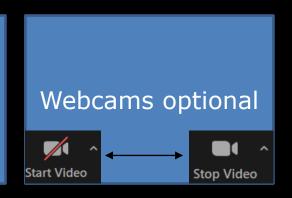
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# How to Zoom in this Workshop



Keep yourself muted

(unless invited to ask a question after raising your hand)



Ask questions in the Chat (at any time)



Use the Chat to share ideas (privately to one person or send to "Everyone")

To: Everyone >

Type message here...

If you want to be unmuted to speak, raise your hand in Reactions



Participate in the polls and other interactions

Avoid distractions

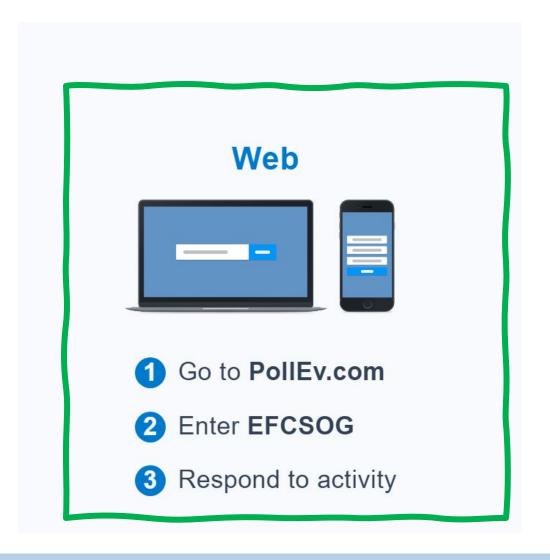
You can turn off
Closed Captioning /
Live Transcript
(if applicable)



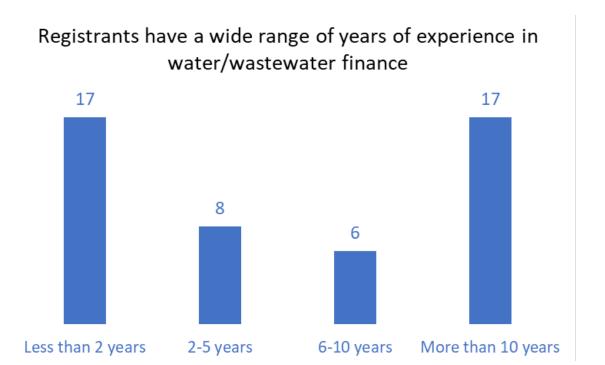
Follow up afterwards? Email Shadi Eskaf eskaf@sog.unc.edu

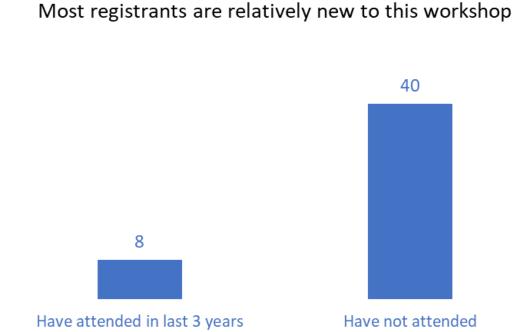
Need technical help? Email Hayley Peacock peacock@sog.unc.edu

#### Join us on Pollev.com



# Who's Registered?





# In 1 - 5 words, what are you hoping to hear about in this workshop?

# Agenda: February 24 - 26, 2021

Wednesday, 1:00pm – 4:00pm		Thursday, 1:00pm – 4:00pm		Friday, 9:30am – 12:30pm	
1:00pm	Introduction and Overview of Utility Finance	1:00pm	Financially Operating Under COVID-19 Conditions	9:30am	Trends in Rates and Capital Needs
1:30	Viable Utilities Reserve and the State's Approach to Assisting	2:15	COVID-19 Financial Relief Funds for Customers and Utilities	10:30	Updates to the Rates and Financial Sustainability Dashboard
	Distressed Units	2-20	Desale	11:00	Break
2:30	Break	2:30	Break	11:15	Integrated Planning
2:45	Self-assessing Financial Performance	2:45	Assessing Affordability and Equity Considerations	12:00pr	m DWI Funding Programs
3:30	Strategies to Enhance the	3:30	USDA Funding Programs	12:20	Final Questions and Wrap up
5.50	Resilience of Utility Finances	4:00	Adjourn	12:30	Adjourn

Credit hours for operators are still pending. We will follow up by email as soon as a determination is made.

4:00

Adjourn

## Workshop Objectives

- 1. Improve understanding of water service finance strategies, practices, and funding sources
- 2. Improve understanding of evolving (current) trends and external drivers
- 3. Provide forum for sharing finance and management perspectives, ideas, and experiences

## Thank you to our fantastic speakers!

NC DEQ DWI: Kim Colson, Jon Risgaard

NC DST LGC: Debbie Tomasko

**USDA:** Dennis Delong

EFC: Elsemarie Mullins, Evan Kirk, Christian Lutz,

Stephen Lapp

# EFC Content for this Workshop Developed Thanks to...

- You
- NC DEQ DWI
- US EPA
- NC Policy Collaboratory



## Overview of Enterprise Funds in North Carolina

# § 160A-311. Public Enterprise Defined for Cities and Towns § 160A Article 16

- (1) **Electric** power generation, transmission, and distribution systems.
- (2) Water supply and distribution systems.
- (3) **Wastewater** collection, treatment, and disposal systems of all types, including septic tank systems or other on-site collection or disposal facilities or systems.
- (4) **Gas** production ...
- (5) **Public transportation** systems.
- (6) **Solid waste** collection and disposal systems and facilities.
- (7) **Cable television** systems.
- (8) **Off-street parking** facilities and systems.
- (9) **Airports**.
- (10) **Stormwater** management programs designed to protect water quality by controlling the level of pollutants in, and the quantity and flow of, stormwater and structural and natural stormwater and drainage systems of all types.

# § 153A-274. Public Enterprise Defined for Counties § 153A Article 15

- (1) Water supply and distribution systems.
- (2) **Wastewater** collection, treatment, and disposal systems of all types, including septic tank systems or other on-site collection or disposal facilities or systems.
- (6) **Public transportation** systems.
- (3) **Solid waste** collection and disposal systems and facilities.
- (5) **Off-street parking** facilities and systems.
- (4) Airports.
- (7) **Stormwater** management programs designed to protect water quality by controlling the level of pollutants in, and the quantity and flow of, stormwater and structural and natural stormwater and drainage systems of all types.

## A Guiding Principle for Enterprise Funds

Self-sufficiency

Revenues collected = Costs expended Avoid or minimize transfers

# General Authority Behind User Fees § 160A-314. Authority to fix and enforce rates

(a) A city may establish and revise from time to time schedules of rents, rates, fees, charges, and penalties for the use of or the services furnished or to be furnished by any public enterprise. Schedules of rents, rates, fees, charges, and penalties may vary according to classes of service, and different schedules may be adopted for services provided outside the corporate limits of the city.

Similar to § 153A-277 for Counties. Similar authority to other forms of local government under different statutes.

#### Some Fees Have More Precise Statutory Guidance

- Water/wastewater availability charge
- Water/wastewater system
   development fee (Article 8 of Chapter 162A)
- Stormwater fee

# Transfers out would disqualify you from funding

#### § 159G-37. Application to CWSRF, Wastewater Reserve, DWSRF, and Drinking Water Reserve.

(b) Certification. - The Division of Water Infrastructure shall require all local governments applying for loans or grants for water or wastewater purposes to certify that no funds received from water or wastewater utility operations have been transferred to the local government's general fund for the purpose of supplementing the resources of the general fund. The prohibition in this section shall not be interpreted to include payments made to the local government to reimburse the general fund for expenses paid from that fund that are reasonably allocable to the regular and ongoing operations of the utility, including, but not limited to, rent and shared facility costs, engineering and design work, plan review, and shared personnel costs. (2005-454, s. 3; 2011-145, s. 13.3(kkk); 2013-360, s. 14.21(i); 2013-413, s. 57(u); 2014-100, s. 14.17; 2014-115, s. 17.)

**Since July 1, 2014** 

### Multiple Faces of Transfers

- Cost reimbursements
  - E.g. Part of city manager's time
  - Fraction of fleet maintenance costs
  - Percentage of shared building operating costs
- Procedural transfers
  - Moving funds from operating to capital project fund
- General Transfers
  - No documentation at all
  - Plug a hole in General Fund or Enterprise Fund
  - Reduce need for property tax/fee increase (i.e. subsidize)
  - Paying a dividend or profit

Document these

Avoid these (including PILOTs) if plan to access DWI funding programs

# A Balanced Budget?

#### **Budget Expenses**

	Account	Budget
19	30-810-01 W/S PROF. SERVICES	\$500.00
20	30-810-02 TOWN MANAGER SALARY	\$28,499.99
21	30-810-03 W/S EMPLOYEE SALARY	\$57,200.00
22	30-810-04 CLERK SALARY	\$37,251.88
23	30-810-05 FICA EXPENSE	\$8,703.00
24	30-810-06 W/S EMPLOYMENT TAX	\$975.00
25	30-810-07 W/S OVERTIME	\$4,500.00
26	30-810-08 MERIT BONUS	\$3,000.00
27	30-810-09 HOLIDAY/EMPLOYEE APREC	\$1,200.00
28	30-810-10 POSTAGE	\$2,700.00
29	30-810-11 Office Supplies/Repairs	\$4,700.00
30	30-810-12 PHONE	\$3,400.00
31	30-810-13 W/S UTILITES	\$30,000.00
32	30-810-14 TRAINING	\$2,400.00
33	30-810-15 Employee Screening	\$105.00
34	30-810-16 MAINT/REPAIR:SYST-EQUIP	\$30,000.00
35	30-810-17 Mayor Salary	\$1,800.00
36	30-810-18 Board Salary	\$10,500.00
37	30-810-20 W/S UNIFORMS	\$2,000.00
38	30-810-30 GAS AND OIL FOR VEHICLES	\$4,500.00
39	30-810-31 TIRES FOR VEHICLES	\$600.00
40	30-810-32 REPAIRS TO VEHICLES	\$1,000.00
41	30-810-33 SUPPLIES & MATERIALS	\$3,000.00
42	30-810-34 CHEMICALS AND SALT	\$20,000.00
43	30-810-45 CONTRACTED SERVICES	\$36,500.00
44	30-810-46 STATE PERMITS	\$1,700.00
45	30-810-48 DUES/SUBSCRIPTIONS	\$1,500.00
46	30-810-50 DEPRECIATION	\$0.00
47	30-810-54 INSURANCE	\$13,608.00
48	30-810-55 HOSPITAL INSURANCE	\$22,443.00
49	30-810-57 MISC EXPENSE	\$500.00
50	30-810-60 W/S - LGERS	\$9,272.00
51	30-810-70 WATER STUDY EXPENSES	\$24,000.00
52	30-810-74 Online Payments SVC	\$1,600.00
53	30-810-75 ARRA LOAN PRINCIPAL	\$8,875.00
54	30-810-76 PURCHASE WATER BILL	\$2,400.00
55	30-810-79 Banking Fees	\$500.00
56	30-810-89 CAPITAL OUTLAY NEW EQUIP	\$0.00
57	30-810-90 TRANSFER TO OTHER FUND	\$0.00
58	30-810-95 FINES AND PENALTIES	\$1,500.00
		\$382,932.87

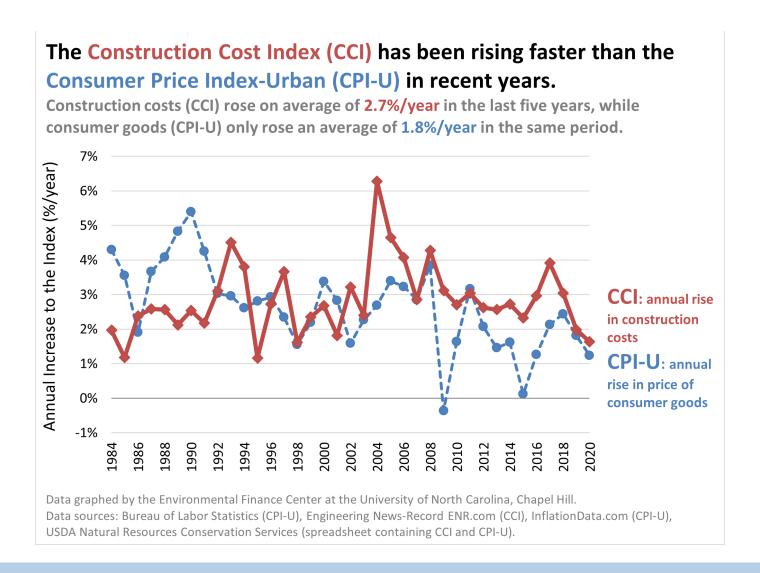
#### **Budget Revenues**

	Account	Budget
1	30-329-00 W/S INTEREST EARNED DEPOS	\$0.00
2	30-334-00 CONTRIBUTIONS/DONATIONS	\$0.00
3	30-335-00 W/S MISC. REVENUE	\$700.00
4	30-336-00 FÚND BALANCE APPROPRIATED	\$9,187.87
5	30-345-01 SALES TAX REFUND	\$0.00
6	30-371-01 W/S CHARGES	\$344,445.00
7	30-371-02 W/S ADJUSTMENTS	\$0.00
8	30-373-00 TAP CONNECTIONS	\$1,500.00
9	30-373-02 SERVICE CHARGES/CUT OFFS	\$12,500.00
10	30-373-04 IMPACT FEES	\$1,000.00
11	30-373-05 CAPITAL CONTRIBUTIONS	\$0.00
12	30-374-00 Online W/S Payment Fee	\$1,600.00
13	30-375-80 Contributed Capital - G.R.S.P.	\$0.00
14	30-375-81 Contributed Capital Fund	\$0.00
15	30-377-00 RBEG - Pump Station	\$0.00
16	30-378-00 I&I Study Grant - Commerce	\$12,000.00
17	30-385-00 SALE OF ASSETS	\$0.00
18	30-386-00 TRANSFER FROM OTHER FUND	\$0.00
		\$382,932.87

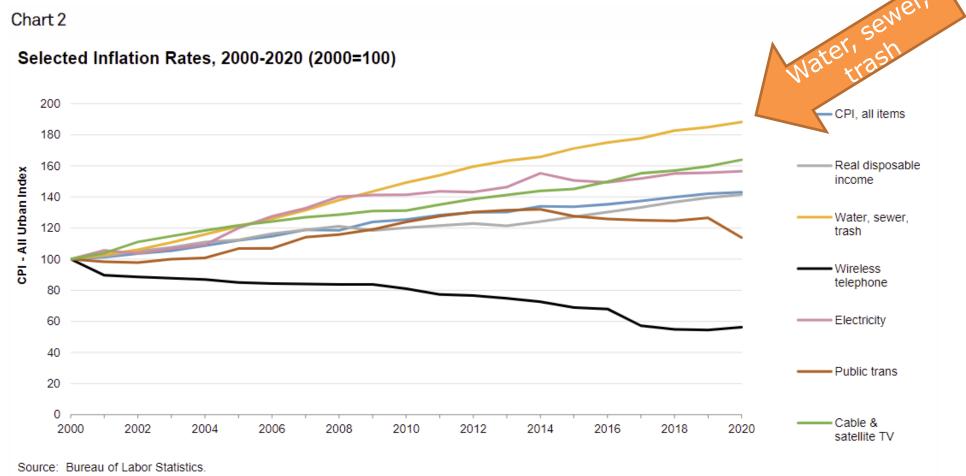
\$382,933 = \$382,933

#### Recent Trends and Outlook

#### Costs of Infrastructure Projects Continue to Rise



Water/Sewer Rates Rising Faster than in Most Sectors



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https://www.spglobal.com/ratings/en/research/articles/210119-outlook-for-u-s-water-and-sewer-utilities-2021-provides-2020-hindsight-11799268

# URBAN AFFAIRS FORUM Presented by Urban Affairs Review

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Home » local politics » Avoiding Punishment? Electoral Accountability for Local Fee Increases

#### Avoiding Punishment? Electoral Accountability for Local Fee Increases

Posted on February 9, 2021 by urbanaffairseditor in local politics, public services, Urban, water // 0 Comments



#### By Katy Hansen (Duke University), Shadi Eskaf (UNC-Chapel Hill), and Megan Mullin (Duke University)

Many elected officials expect to be punished at the ballot box for increasing taxes and fees. At a recent city council meeting in Westminster, Colorado, one council member acknowledged potential retaliation for supporting a 10% water rate increase, telling a constituent, "I have to do what I think is best for the long term health of my city [...] and if it costs me my job on council [...], that is a consequence I'm willing to pay." Both scholars and policy practitioners consider the fear of electoral punishment to be an important explanation for local decision making about public services.

# Do elected officials get voted out of office after water rate increases?

On average, in NC, no.

https://urbanaffairsreview.com/2021/02/09/avoiding-punishment-electoral-accountability-for-local-fee-increases/

#### In the news this week

# U.S. House budget committee approves \$1.9 trillion covid-19 aid bill By Reuters Staff WASHINGTON (Reuters) - The U.S. House of Representatives budget committee approved Monday a bill with \$1.9 trillion in coronavirus relief, backed by President Joe Biden.

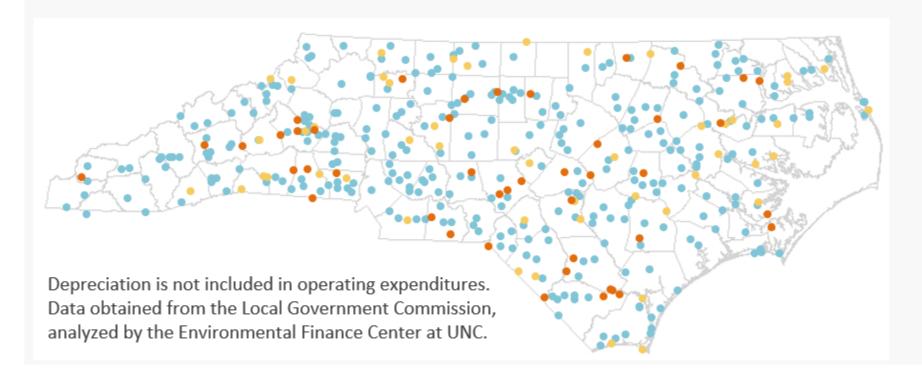
Source: Reuters

https://www.reuters.com/article/us-healthcoronavirus-usa-congress/u-s-house-budgetcommittee-approves-1-9-trillion-covid-19-aid-billidUSKBN2AM2EN

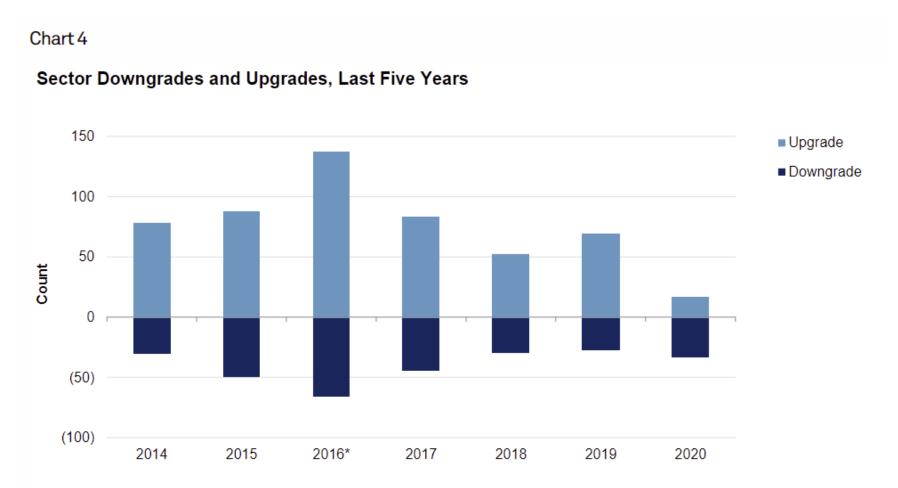
# Cost Recovery in 398 Local Government-owned Water and Wastewater Utilities during FY2019

#### Local Government-Owned Water and Wastewater Utilities' Cost Recovery in FY 2019

- Operating revenues < operating expenditures (11%)</li>
- Operating revenues < operating expenditures + principal + interest on long-term debt (12%)</li>
- Operating revenues > operating expenditures + principal + interest on long-term debt (77%)



#### **S&P Sector Evaluation**



\*New criteria in January 2016. Data as of Dec. 31, 2020.

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https://www.spglobal.com/ratings/en/research/articles/210119-outlook-for-u-s-water-and-sewer-utilities-2021-provides-2020-hindsight-11799268

#### S&P Outlook

#### Chart 1

#### U.S. Municipal Water & Sewer Utility Sector: By The Numbers

3.0%



Percent of utility ratings in 2020 that changed. In 2012 considered the high water mark for Great Recession rating transitions, it was 8.7%

2010 to 2012 💩



Period of one of the worst La Niña weather patterns on records. By summer 2012, more than 80% of the lower 48 states were in at least some stage of drought. Meteorologists believe La Niña conditions have returned.

\$7.8 bil.

Federal credit assistance provided since 2018 by the Water Infrastructure Finance and Innovation Act for 41 different projects

157 days



Median days cash of BBB- utilities over the last three years, indicating that even the lowest investment grade-rated systems were reasonably well situated heading into 2020

\$467 bil.

Estimated revenue lost by state and local governments between fiscals 2020 and 2022







on a 1 to 7 basis with 7 being the most favorable, in the annual America Water Works water professionals about their current state of the water industry. This marked a 16-year high score

Average score. Association's 2020 survey of

https://www.spglob al.com/ratings/en/r esearch/articles/21 0119-outlook-for-us-water-and-sewerutilities-2021provides-2020hindsight-11799268

**Beyond 2023?** 



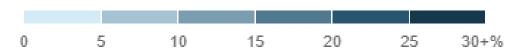
S&P Global Economics' baseline forecast projects that spending by state and local governments will decline in 2021 then grow at only 0.6% in 2022 and 2023, much less than the average projected inflation rate of 1.9%. So it could be several more years before public sector spending even keeps up at least with CPI

Sources: S&P Global Ratings; National Oceanic and Atmospheric Administration; United States Environmental Protection Agency. S&P Global Economics; Brookings Institute; American Water Works Association. Copyright @ 2021 by Standard & Poor's Financial Services LLC. All rights reserved.

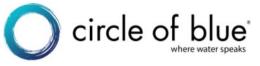
#### Floods in N.C.

#### Where People Are At Risk For Flood Damage

Percent of residential properties at risk by county, 2020







casts Great Lakes Water Debt Wat

Special Features F

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#### After Fair Bluff Flooded

Flooded by hurricanes twice in three years, the small town of Fair Bluff, North Carolina, is a poster child for the devast

The town's struggle to recover from those storms reflects demographic, economic, and technological changes that are

A Special Report

By Brett Walton, Circle of Blue



Two Hurricanes, Two Floods: North Carolina Town Fights To Stay Alive

https://www.circleofblue.org/fair-bluff/

Source: First Street Foundation <a href="https://www.npr.org/2021/02/22/966428165/a-looming-disaster-new-data-reveal-where-flood-damage-is-an-existential-threat">https://www.npr.org/2021/02/22/966428165/a-looming-disaster-new-data-reveal-where-flood-damage-is-an-existential-threat</a>

## Developments in NC



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#### **Town of Kingstown**

The North Carolina Local Government Commission (LGC) assumed control of the financial affairs of the Town of Kingstown on December 1, 2020 under North Carolina General Statute 159-181(c). Information on this page is intended to keep the general public informed about the town's finances and other developments.

Source: NC Dept of State Treasurer <a href="https://www.nctreasurer.com/links/state-and-local-government-finance/lgc/information-public/town-kingstown">https://www.nctreasurer.com/links/state-and-local-government-finance/lgc/information-public/town-kingstown</a>

## Carteret County agrees to sell water system to private company for \$7M

ELISE CLOUSER Feb 22, 2021 Updated 44 min ago 44



This map shows the boundaries of Carteret County's county-owned water system, which serves approximately 1,200 customers. The County Board of Commissioners decided Feb. 15 to sell the system to Aqua North Carolina, a private-owned company. (Carteret County map)

f 💆 🗷 🖯 🛚

**BEAUFORT** — Carteret County commissioners agreed to a \$7 million offer from Aqua North Carolina to purchase the county-owned and maintained water system serving around 1,200 customers.

The Carteret County Board of Commissioners met Feb. 15 to consider offers from two privatelyowned water companies to purchase the system. Aqua N.C. was the high bidder over Carolina Water System's offer of \$4.9 million. Since the board accepted an offer, the county will proceed with an upset bid process, giving other companies a 10-day window to submit competing offers.

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for you and your f system. Purify you affordable and certi from your tap water PS – A Kinetico sys and reduce all know Coronavirus too!

ntact us for m www.kineti (252) 22

#### Kirkman

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> lawyers@ www.k



#### In the news this week

Source: Carteret County News-Times, February 22, 2021

https://www.carolinacoastonline.com/news times/ article 20833ed0-72fc-11eb-aab0-43ac93d67298.html Shadi Eskaf
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