



A-NPDC

ACCOMACK-NORTHAMPTON PLANNING DISTRICT COMMISSION
P.O. BOX 417 • 23372 FRONT STREET • ACCOMAC, VIRGINIA 23301
(757) 787-2936 • TOLL FREE (866) 787-3001 • FAX: (757) 787-4221
WEBSITE: www.a-npdc.org

Eastern Shore of Virginia Ground Water Committee
August 16, 2022 10:00a.m.
ESVA Chamber of Commerce
19056 Parkway, Melfa VA



The committee's mandate is to "assist local governments and residents of the Eastern Shore in understanding, protecting and managing ground water resources, to maintain a ground water resources protection and management plan, to serve as an educational and informational resource to local governments and residents of the Eastern Shore, and to initiate special studies concerning the protection and management of the Eastern Shore ground water resource.

Virtual Attendance:

For Joining via Computer:

1. Click this link: <https://zoom.us/j/7577872936?pwd=QTNJdmhCc3pWdVNUZ0ZWYnVJdWpWUT09>
2. If prompted, enter the Meeting ID: 757 787 2936
3. If prompted, enter the Passcode: 7577872936

For joining via Phone (calling in):

1. Dial 1-646-558-8656
2. When prompted for meeting code enter 7577872936#
3. When prompted to identify as host or participant, enter #
4. When prompted for password, enter 7577872936#

Translation services available: Call 1-718-838-9317... #6980900. Press 1 for Spanish. Press 2 for Haitian Creole.

Servicios de traducción disponibles: Llame al 1-718-838-9317 ... # 6980900. Presione 1 para español.

Sèvis Tradiksyon Disponib: Rele 1-718-838-9317 ... # 6980900. Peze 2 pou kreyòl ayisyen.



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Meeting Agenda

1. Call to Order
2. Public Participation
3. Minutes of the June 21, 2022 Meeting..... 3
4. June 2022 Financial Status Report..... 8
5. July 2022 Financial Status Report..... 10
6. FY 2023 Proposed Annual Budget..... 12
7. August 16, 2022 Staff Report..... 14
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11. Statement of Principle: Use and Adoption..... 19
12. Captains Cove Water Use..... 20
13. August 16, 2022 Ground Water Consultant Report..... 21
14. August 16, 2022 Committee Attendance Record..... 23
15. Other Matters
16. Schedule Next Meeting (September 20, 2022 @ 10am; Board Room, Eastern Shore COC)
17. Adjourn



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Minutes of the June 21st, 2022 Meeting

Eastern Shore of Virginia Ground Water Committee

The meeting of the Eastern Shore of Virginia Ground Water Committee was held at 10:00 AM on Tuesday, June 21st, 2022 in the hybrid format – virtually on the Zoom Platform and in person – in the conference room of the Eastern Shore Chamber of Commerce in Melfa, VA.

<u>Members Present</u>	<u>Members Absent</u>	<u>Others Present</u>
Paul Muhly, Chairman	Mike Mason	Kellen Singleton, A-NPDC
Paul Grossman	Charles Kolakowski	Britt McMillan, ARCADIS*
Grayson Chesser	John Coker, Vice Chairman	Bill Savage, ESSWCD
Daniel Hershey	Roberta Kellam	Dixon Tucker, VDH
Sue Mastyl		Joseph Betit*
Elaine Meil, Secretary		Ben Young, USDA*
		Randolph McFarland, USGS*
		Scott Kudlas, DEQ*

**signifies Zoom participant*

1. Call to Order

Chairman Muhly called the meeting to order at 10:07 AM.

2. Public Participation

None.

3. Minutes of May 17th, 2022 Meeting

The draft minutes of the May 17th, 2022 Meeting were presented. It was noted to correct “Bill Meyers” to “Bob Meyers” in the minutes.

Mem. Paul Grossman moved to approve the minutes with corrections of the May 17, 2022 Meeting. Seconded by Mem. Daniel Hershey, the motion carried by unanimous vote.



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4. Financial Report

The FY 2022 Financial Status Report for May 2022 was presented.

Total Bills Payable equaled \$2,235.44; total revenues received equaled \$0.00.

Commission approval of the Bills Payable and current Financial Statement was requested.

Mem. Paul Grossman moved to approve the financial status report as presented. Seconded by Mem. Daniel Hershey, the motion carried by unanimous vote.

5. June 2022 Staff Report and June 21, 2022 Ground Water Consultant Report

Staff updated the Committee on new Environmental Reviews and Permits of the VA Pollutant Discharge Elimination System Program. It was noted that links to current VPDES General Permits and current VPDES Individual Permits are inactive and that staff can be contacted for permit information.

Staff informed the Committee on Consent Order, EAN TR21-1113 concerning the Town of Cape Charles Wastewater Treatment Plant.

Mem. Paul Grossman informed the Committee that an official response is to be submitted by October and that the municipal status was under consideration.

Staff continues to reach out to the residents of Captain's Cove to address concerns made during public comment at the March 15, 2022 ESVA Ground Water Committee meeting. 229 out of the 1,200 residents responded to the web survey. 93 residents responded to our door-to-door efforts. Half of the listed residences (600) are full time according to Captain's Cove management. Preliminary mapping and assessment of the survey data and waterworks system continues. Chmn. Muhly expounded on the survey response rate.

Dixon Tucker of the Virginia Dept. of Health / Office of Drinking Water presented a history of the Captain's Cove waterworks system, from the VDH, drinking water perspective beginning with the initial 1971 development plan to today. Mr. Tucker noted:

On 5/16/71, VDH sent a comment letter on Sections 1, 2, 3, 4 and 5 (of 18 sections). The maps / plats of the development show approximately 4,800 lots to owner First Charter Land Corporation.

First Waterworks Operation Permit issued 3/18/75, Number O-141 for 25 connections. The permit was amended several months later (Number O-141A) for 33 connections.



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On 8/30/77 VDH receives a letter indicating that it is felt that the development should be grandfathered under the old (1974 i.e. pre '77) regulations.

In 1993 SCC authorized \$7 monthly fee for water service, a \$7 monthly fee for sewer service and a \$3.45 availability fee. Not all lots are serviced with sewer (some on septic/drain fields).

Currently (1995 – 2011) there are 3 active well lots (1, 2, and 3) with one active well each. There are 20 Lots identified as well lots on the subdivision plan. These 20 lots are scattered throughout the subdivision.

In 2005 Proposed new well (Well 4) development samples high in Color and TDH. WM 886 dated 7/8/2005 called for community waterworks with new sources to comply with these standards (Policy A3).

In 2006, elevated tank installed in 2009 raising capacity to 227,380 gpd. Three more wells are proposed (Wells 1U, 3U and 4U). Well 1U development samples were such that it was not considered further. Well 4U also had high Color (negating the feasibility of blending with Well 4). In 2007, plans were submitted for Wells 4, 3U and 4U.

The Consent order was signed in June 2006, covering the TTHM MCL (4/1/04 – 3/31/06). That process is stuck at D.1.D. The PER did not have data to identify a treatment option to propose for construction. Since that time the system has come into compliance with the Stage 1 TTHM standard.

ODW has received many complaints concerning taste, odor and Color. This should be sufficient to invoke WM 886 Policy A2

Though they are meeting the Stage 1 DBP criteria, but even with the existing sampling sites, they are not meeting the Stage 2 DBP criteria, so the IDSE sites should be even higher. The IDSE report will need to address the locational running annual average.

In February of 2004 the development was sold to Captains Cove Group LLC (sometimes referred to Warfield, Glick and Young). The new owners increased the promotion of the development. By 2005 Ryan Homes had purchased about 600 lots for home construction.

February 18, 2009 Construction Permit 300509 issued to Captain's Cove Utility Company for the addition of Wells 3U, 4 and 4U. Wells were drilled and tested, but were not brought on line prior to the permit expiring on February 18, 2014. As of January 8, 2016, the wells do not have production pumps or well houses.



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On, 5/1/09 the variance issued for 18 months covering TDS, Chlorides, Color was terminated on 3/9/10 for failure to comply with the conditions. This was not included in the 5/14/10 Operation Permit.

On 3/7/78 operation permit 3001100 issued for 240 ERC. According to inspection reports, from 1980-2007, 605 additional connections have been made from the initial 30. According to operational reports from 1987-2008, 594 additional connections have been made to the original 158.

The pipe diameters and lengths are as follows:

Pipe Diameter (in.)	Length (ft.)
2.5	24,700
4	20,700
6	41,600
8	11,300
10	4,750

Mr. Tucker noted that in the Section 3 ground storage tank there are no booster pumps to repressure the stored water. The system would require 15 gal/min to reach scouring velocity. Due to the length and diameter of the system, the accumulation of biofilm and total dissolved organics is likely and a suboptimal scouring velocity of the system may be the origin of resident's complaints.

Staff brought to the attention of the committee the proposed Knox Landing Road Hatchery--there are plans to construct a chicken hatchery on Knox Landing Road, across from ISH Farm LLC. GWC consult. Britt McMillan updated the committee on hatchery plans determining:

Current GWC efforts do not appear to be effective in encouraging surficial aquifer use.

Somerset Wells is lined up to drill the wells, sourcing from the Yorktown-Eastover. They have met with DEQ through a pre-application meeting. The discussion included "preference for surficial aquifer use vs. the Yorktown-Eastover aquifer use in a pre-application meeting for non-public water supplies where the water quality and volume may be available". As we've heard in the past from drillers, their position is already that the surficial "water quality" is not adequate for even non-public water supplies. We know there are plans to drill wells in the near future. It is probable that a hatchery will require a groundwater withdrawal permit.

Mem. Mastyl noted that Tyson made a public statement to use the surficial aquifer when feasible.

Mem. Hershey noted that ISH Farms is probably independent and described the hatchery process. It was noted that a formal application was needed for actionable information. Chmn. Muhly noted the disconnect in communication. Mem. Mastyl



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suggested improved communication with drillers.

Mr. McMillan inquired as to whether the GWC Preferential Use of the Superficial Aquifer Statement of Principle (August 2021) were ever adopted. Staff will check minutes to verify previous adoption. Scott Kudlas advised committee to add superficial water use fact sheets to Statement of Principles

Staff informed the Committee on of the yet to be approved \$20,000 increase in the proposed Northampton County budget. Mem. Grossman updated the committee on the status of the funding noting that the Northampton Board of Supervisors had approved the funding increase.

Staff requested that Northampton nominate or assign a member to fill the empty Northampton Committee Member vacancy. The search continues to fill this vacancy.

The committee was updated on the well water testing program in cooperation with Donna Smith at the Eastern Shore Area Agency on Aging and SERCAP, Inc. They will be visiting the Eastern Shore June 26th and 27th.

Jason Pope updated the committee on study and evaluation of ESVA in conjunction with the Dept. of Environmental Quality. Model will be available in 2026.

Mem. Mastyl requested that the Chesapeake Bay Landscape Professional certification program be included in the GWC August agenda.

It was reiterated by Mem. Chesser and Sec Meil to reach out to drillers when general permits come out for the proposed Knox Landing Road Hatchery.

Schedule Next Meeting & Adjournment

The next Committee meeting was scheduled for August 16, 2022 from 10AM-12PM at the ESVA Chamber of Commerce, Melfa, VA.

Mem. Grossman made a motion to adjourn at 12:07 AM. The motion, seconded Mem. Hershey, carried unanimously.

Chairman Muhly adjourned the meeting at 12:10 PM.

Copy test:

John Coker, Vice Chairman

Elaine K. N. Meil, Secretary



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MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee

FROM: Kellen J. Singleton
Interdisciplinary Planner
Accomack-Northampton Planning District Commission

DATE: August 16, 2022

SUBJECT: **June 2022 Financial Status Report**

The FY2022 Financial Status Report is attached

TOTAL BILLS PAYABLE	\$15,407.14
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Revenues Received:	Accomack County	\$0.00
	Northampton County	\$0.00

TOTAL REVENUES RECIEVED	\$0.00
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Staff requests the Committee review and consider approving the June 2022 Financial Status Reports.

Final Report pending completion of Annual Audit.



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EASTERN SHORE OF VIRGINIA GROUND WATER COMMITTEE Financial Statement--June 2022 Fiscal Year 2022

REVENUES:	Annual	Cu1TentPeriod	YTD	Balance	% of Budget
	Budget	Activity	Activity		
Ground Water Consultant Appl'ications:					
Accomack County	\$ 14,251.00	\$ 0,00	\$ 14,251.00	\$ 0,00	100.00%
Northampton County	7,415.00	\$ 0.00	\$ 7,415.00	0,00	100.00%
Subtotal	\$21,666.00	\$ 0.00	\$ 21,666.00	\$ 0,00	
Ground Water Modeling Run Appropriations:					
Accomack County	\$ 1,500.00	\$ 0,00	\$ 1,500.00	0,00	100.00%
Northampton County	1,500.00	\$ 0,00	\$ 1,500.00	0,00	100.00%
Subtotal	\$3,000.00	\$ 0,00	\$ 3,000.00	\$ 0,00	
Ground Water Committee Staff Support:					
Accomack County	\$ 6,770.00	\$ 0,00	\$ 6,770.00	0,00	100.00%
Northampton County	6,191.00	\$ 0,00	\$ 6,191.00	0,00	100.00%
Subtotal	\$ 12,961.00	\$ 0,00	\$ 12,961.00	\$ 0,00	
USGS Ground Water Model:					
Accomack County	\$ 7,500.00	\$ 0,00	\$ 7,500.00	0,00	100.00%
Northampton County	7,500.00	\$ 0,00	\$ 7,500.00	0,00	100.00%
Subtotal	\$15,000.00	\$ 0,00	\$ 15,000.00	\$ 0,00	
Total Revenues	\$ 52,627.00	\$ 0,00	\$ 52,627.00	\$ 0,00	100.00%

Ground Water Modeling Run Appropriations:	
Remaining Balance FY2021	<u>\$9,000.00</u>
Total Revenues/Remaining Balance	\$ 61,627.00

EXPENDITURES:

Ground Water Consultant	\$21,000.00	\$ 0,00	\$ 21,000.00	\$ 0,00	100.00%
Ground Water Modeling Run	6,000.00	\$ 0,00	\$ 0,00	6,000,00	0.00%
Member Fees	0,00	\$ 385,14	\$ 950,58	-950,58	#DJV/0!
Ground Water Committee Staff Support	14,627.00	\$ 1,022.00	\$ 11,856,11	2,770,89	81.06%
USGS Ground Water Model	<u>14,000.00</u>	<u>\$ 14,000.00</u>	0,00	14,000.00	0.00%
Total Expenditures	\$ 55,627.00	\$ 15,407.14	\$ 33,806.69	\$ 21,820.31	60.77%
NET SURPLUS OR (DEFICIT) OF REVENUES LESS EXPENDITURES	\$ 6,000.00	-\$ 15,407.14	\$ 18,820.31		

* De12osits for the Qeriod include:	** Ex12enditurs for the qeriod include:		
As Summarized	\$ 0,00	Payables (previous month)	\$ 15,407.14
	<u>\$ 0,00</u>	Total Expenditures	\$ 15,407,14

Bills Payable as of July 30, 2022

DUE TO	DESCRIPTION	DATE	AMOUNT
Committee Members	Member fees	June I - 30, 2022	\$ 385,14
US Geological Survey	Survey	July I, 2021 - June 30, 2022	\$ 14,000.00
A-NPDC	Staff Support	June I - 30, 2022	\$ 1,022.00



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MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee

FROM: Kellen J. Singleton
Interdisciplinary Planner
Accomack-Northampton Planning District Commission

DATE: August 16, 2022

SUBJECT: **July 2022 Financial Status Report**

The FY2022 Financial Status Report is attached

TOTAL BILLS PAYABLE		\$0.00
Revenues Received:	Accomack County	\$0.00
	Northampton County	\$0.00
TOTAL REVENUES RECIEVED		\$26,906.75

Staff requests the Committee review and consider approving the July 2022 Financial Status Reports.

Final Report pending complete expense review.



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MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee

FROM: Kellen J. Singleton
Interdisciplinary Planner
Accomack-Norhampton Planning District Commission

DATE: August 16, 2022

SUBJECT: **FY 2023 Proposed Annual Budget**

The FY2023 Proposed Annual Budget is attached.

Staff requests the Committee review and consider approving the FY 2023 Proposed Annual Budget.



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EASTERN SHORE OF VIRGINIA GROUND WATER COMMITTEE

PROPOSED ANNUAL BUDGET

FY23

Annual

Budget

REVENUES:

Ground Water Consultant Appropriations:

Accomack County	\$14,251.00
Northampton County	<u>7,415.00</u>
Subtotal	\$21,666.00

Ground Water Modeling Run Appropriations:

Accomack County	\$ 1,500.00
Northampton County	1,500.00
Remaining Balance	<u>12,000.00</u>
Subtotal	\$15,000.00

Ground Water Committee Staff Support:

Accomack County	\$10,970.00
Northampton County	<u>7,470.00</u>
Subtotal	\$18,440.00

USGS Ground Water Model

Accomack County	\$ 7,500.00
Northampton County	<u>\$ 7,500.00</u>
Subtotal	\$15,000.00

Comprehensive Well Testing Proggmm

Accomack County	\$28,000.00
Northampton County	16,500.00
Subtotal	\$44,500.00

Total Revenues	\$ 114,606.00
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EXPENDITURES:

Ground Water Consultant	\$22,000.00
Ground Water Modeling Run	12,000.00
Ground Water Committee Staff Support	18,440.00
USGS Ground Water Model	14,000.00
Committee Member Fees	5,400.00
Comprehensice Well Testing	<u>42,766.00</u>

Total Expenditures	\$ 114,606.00
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NET SURPLUS OR (DEFICIT) OF REVENUES LESS EXPENDITURES	\$ 0.00
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MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee

FROM: Kellen J. Singleton
Interdisciplinary Planner
Accomack-Norhampton Planning District Commission

DATE: August 16, 2022

SUBJECT: **August 16, 2022 Staff Report**

Environmental Reviews and Permits
VA Pollutant Discharge Elimination System Program –
Individual Permit Applications

Permit Number: VA0027537

Notice Purpose: To seek public comment on a draft permit that will allow the release of treated municipal wastewater into a water body in Nassawadox, VA

Public Comment Period: August 10, 2022 to September 12, 2022

Applicant: HRSD, 1434 Air Rail Ave., Va. Beach, VA. 23455

Facility: HRSD Nassawadox Riverside Wastewater Treatment Plant, 9507 Hospital Ave., Nassawadox, VA 23413

Please See Public Notices Attached

VA Pollution Abatement Program –
None.

Consent Orders –
None.

Groundwater Withdrawal Permits –
None.

Upcoming Events/Meetings
REGULAR MEETINGS OF STATEWIDE AUTHORITIES, BOARDS, COMMISSIONS, AND COMMITTEES –



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- 8/17/22 Public Hearing -Virginia Pollutant Discharge Elimination System (VPDES) General Permit for Non-Contact Cooling Water Discharges of 50,000 Gallons Per Day Or Less
 - A public hearing to receive comments on proposed amendments to the Virginia Pollutant Discharge Elimination System (VPDES) General Permit for Non-Contact Cooling Water Discharges of 50,000 Gallons Per Day Or Less Regulation, 9VAC25-196. A question and answer period will be held one half hour prior to the beginning of the public hearing. The public comment period begins on July 18, 2022 and ends on September 16, 2022.
- 8/18/2022 Technical Advisory Committee Meeting - MS4 VPDES General Permit Regulation (9VAC25-890)
 - A meeting of the technical advisory committee established to assist the Department of Environmental Quality in the reissuance, and amendment if necessary, of the General VPDES Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems. The notice of intended regulatory action was published in the Virginia Register of Regulations on September 27, 2021.
- 8/23/2022 Water Audit Regulatory Advisory Panel
 - A meeting of the Water Audit Regulatory Advisory Panel established as an advisory committee to develop a proposal for the State Water Control Board for amendments to conform the Virginia Water Protection Permit Program Regulation to the requirements in 9VAC25-210 and the Groundwater Withdrawal Regulations to the requirements in 9VAC25-610.
- 8/25/2022 State Water Control Board Meeting
 - [Meeting Agenda](#)

Other Items

- *New Member Needed from Northampton -- Staff asks that Northampton nominate or assign a member to fill the vacancy.*



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MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee

FROM: Kellen J. Singleton
Interdisciplinary Planner
Accomack-Norhampton Planning District Commission

DATE: August 16, 2022

SUBJECT: **Chesapeake Bay Landscape Professional certification program**

Chesapeake Bay Landscape Professional (CBLP) Program is a system of materials and consistent instruction across the region, creating a community of certified professionals to be better stormwater partners and environmental stewards.

The credential training and examination are based on a core set of standards in sustainable landscaping emphasizing stormwater best management practices and conservation landscaping with native plants to benefit the environment.

A search for Chesapeake Bay Landscape Professional (CBLP; <https://cblpro.org/>) showed 5 certified landscapers in Virginia Beach/Norfolk and 2 in the Salisbury area, but none here on the Shore. CBLP credentials ultimately ensure that BMP function properly, in order to meet runoff, sediment and nutrient reduction goals.



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MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee

FROM: Kellen J. Singleton
Interdisciplinary Planner
Accomack-Norhampton Planning District Commission

DATE: August 16, 2022

SUBJECT: **2021 Drinking Water Quality Report: Cape Charles Waterwork**

The lead level (sampled in 2020) is listed as 4.07 ppb, with a range of ND to 6.03 ppb. The maximum contaminant level (MCL) is zero, with a maximum contaminant level goal (MCLG) of 15 ppb.

The sodium level (sampled in 2020) is listed as 203 ppm (range not available). As the report states, there is no established standard for sodium in drinking water, but levels above 270 mg/L (mg/L is the same as ppm), and in some cases 20 mg/L, may not be safe for some health reasons.



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MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee

FROM: Kellen J. Singleton
Interdisciplinary Planner
Accomack-Norhampton Planning District Commission

DATE: August 16, 2022

SUBJECT: Planning Ahead: Increased Growth Capacity

The Hampton Roads Sewer District (HRSD) is undertaking a project to construct a system of sewer pipes approximately 102,000 feet in length along with pump stations to convey wastewater flows from the Towns of Nassawadox and Exmore to the Onancock Wastewater Treatment Plant. This system will provide for improved wastewater treatment for the Towns of Nassawadox and Exmore by taking advantage of unused capacity at the Onancock Wastewater Treatment Plant and improve sanitary sewer service reliability to existing customers of Accomack and Northampton Counties.

Construction has begun in the Railway Right of Way from just outside of Nassawadox heading to Exmore. All the sewer pipe along the Railway has been fused, and the contractor has begun directional drilling for the roads crossing the Railway Right of Way.

HRSD plan indicates that Phase 1 to Accomack will be complete by 2024 and Phase 2 to New Church will be complete by 2028. Increased groundwater use could result from the barriers removed to development by this project. The launch of HRSD on the Shore has the potential to rapidly transform our rural political, cultural and economic framework.



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ACCOMACK-NORTHAMPTON PLANNING DISTRICT COMMISSION

P.O. BOX 417 • 23372 FRONT STREET • ACCOMAC, VIRGINIA 23301

(757) 787-2936 • TOLL FREE (866) 787-3001 • FAX: (757) 787-4221

WEBSITE: www.a-npdc.org

MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee

FROM: Kellen J. Singleton
Interdisciplinary Planner
Accomack-Norhampton Planning District Commission

DATE: August 16, 2022

SUBJECT: **Statement of Principle: Use and Adoption**

We were recently notified by Accomack County's Zoning department that there are plans to construct a chicken hatchery on Knox Landing Road, across from ISH Farm LLC.

Somerset Drilling is already lined up to construct wells to support the hatchery. It is possible the water demand for the hatchery could at times exceed the 300,000 gal/month that triggers a Groundwater Withdrawal Permit.

For the Eastern Shore Groundwater Management Area, it is standard practice to discuss the preference for surficial aquifer use vs. the Yorktown-Eastover aquifer use in a pre-application meeting for non-public water supplies where the water quality and volume may be available.

It is critical to evaluate the surficial aquifer early in the development/planning, prior to construction of a water supply using the deep aquifers.

The Groundwater Committee's Proposed Statement of Principles encourages the use of the surficial (Columbia) aquifer to the maximum extent, including for poultry supply. There are no accounts or evidence that the Statement of Principles were ever formally adopted by the Ground Water Committee last year.

Regulatory, direct, indirect, and long term (e.g., requiring site specific investigation for the surficial aquifer for all non-public water systems that require a groundwater withdrawal permit in the Eastern Shore GW Management Area) approaches have been proposed to encourage surficial aquifer utilization.



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FROM: Kellen J. Singleton
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DATE: August 16, 2022

SUBJECT: **Captains Cove Water Use**

Staff continues to reach out to the residents of Captain's Cove. Residential water test conducted by Virginia Tech continue to come in and are being reported to staff. Early results indicate that Coliform and high levels of Sodium (121.76 mg/L) may be present. Preliminary mapping and assessment of the survey data and waterworks system continues.



MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee
FROM: Britt McMillan
Principal Hydrogeologist
Arcadis
DATE: August 16, 2022
SUBJECT: **August 16, 2022 Ground Water Consultant Report**

Technical/Regulatory/Educational Items

1. Groundwater Resource Protection and wastewater treatment and disposal to land versus surface water. With the possible expansion of wastewater discharge to surface water, and a possible reduction in land-based wastewater discharges (through septic fields, mass drain fields, and land application) the potential impacts to the groundwater resource on the Shore will be discussed. Two principal concerns that have been expressed are:
 - a. Impacts from reduced groundwater recharge resulting from discharge of the treated wastewater to surface water and
 - b. Increased groundwater use resulting from barriers removed to development

Pros-and cons of land applied wastewater discharge versus surface water discharge related to water balance and water quality specific to the Shore will be discussed.

The capacity for an increase in groundwater use on the Shore will be discussed in the context of:

- 1) Restrictions (and limitations) of the DEQ Groundwater Withdrawal Regulations
- 2) Previous experience in the Eastern Virginia Groundwater Management area

2. **USGS Circular 1486 – Nitrogen in the Chesapeake Bay Watershed – A Century of Change – 1950-2050 (December 2021):**
 - a. Available at: <https://pubs.er.usgs.gov/publication/cir1486>
 - b. A compilation of research presented by various authors providing a comprehensive presentation of the state of the knowledge for nitrogen in the Chesapeake Bay Watershed. Of particular interest for groundwater resources on the Eastern Shore are:
 - i. Chapter 2 – Nitrogen in Streams and Groundwater
 - ii. Chapter 5 – Changes in Hydrology
 - iii. Chapter 6 – Changes in Land Use
 - iv. Chapter 7 – Changes in Agricultural Water Quality Management
 - v. Chapter 9 – Modeling the Effect of Nitrogen Loads from Multiple Changes in the Watershed
 - c. A summary presentation will be provided
3. Supplemental monitoring for saltwater intrusion:
 - a. Following the review of the USGS Report: *Simulated Effects of Sea-Level Rise on the Shallow, Fresh Groundwater System of Assateague Island, Maryland and Virginia* (USGS



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SIR 2020-5104), the potential for expanded use of specific conductance data loggers on the Eastern Shore was briefly discussed, including potential benefits and challenges:

- i. The methodology, with limitations, can be adapted to help monitor saltwater intrusion occurring from both sea level rise and groundwater withdrawals.
- ii. The continuous specific conductance measurements would augment and cannot not replace the current methods (the annual EM surveys conducted by the USGS on the Shore) along with the water level recording.
- iii. A presentation providing the following will be provided:
 1. Goals of the monitoring
 2. How the specific conductance will be implemented
 3. Limitations
 4. Integration with other information (annual EM surveys and water level measurements)
 5. Specific steps to improve results or better understand the limitations
 6. Examples of use in other areas
 7. "Conceptual level" cost
 8. Implementation within the existing SOW system or as separate systems

Other Items:

- i. Additional FY2021 Groundwater Committee activities. Continue update of the Eastern Shore Groundwater Protection Plan.



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MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee

FROM: Kellen J. Singleton
Interdisciplinary Planner
Accomack-Norhampton Planning District Commission

DATE: August 16, 2022

SUBJECT: **August 16, 2022 Committee Attendance Record**

Committee Attendance Record

The FY2022 and FY2023 Committee Attendance Records are attached.



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EASTERN SHORE OF VIRGINIA GROUND WATER COMMITTEE FY 2022 ATTENDANCE RECORD

Member	Term Exp.	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<i>ACCOMACK COUNTY</i>													
Paul Muhly	<i>Chair; Next vote: July 2023</i>	X	*	*	X	*	*	X	X	X	X	X	X
Dan Hershey	<i>June 2022</i>	X	*	*		*	*	X	X	X	X	X	X
Grayson Chesser	<i>June 2023</i>	X	*	*		*	*	X	X	X	X	X	X
Jackie Phillips	<i>Resigned March 2022</i>		*	*		*	*						
Sue Mastyl	<i>April 2025</i>	-	-	-	-	-	-	-	-	-	X	X	X
<i>NORTHAMPTON COUNTY</i>													
John Coker	<i>Vice Chair; Next Vote: July 2023</i>	X	*	*	X	*	*	X	X	X		X	
Paul Grossman	<i>March 2024</i>	X	*	*	X	*	*	X	X	X	X	X	X
Roberta Kellam	<i>March 2024</i>	X	*	*		*	*			X	X	X	
Vacant													
<i>NON-VOTING EX-OFFICIO MEMBERS</i>													
Charles Kolakowski	<i>NA</i>		*	*		*	*			X	X		
Mike Mason	<i>NA</i>		*	*		*	*						
Elaine Meil	<i>NA</i>		*	*	X	*	*		X	X			X
-	Not a Member			X	Member Present				()	Alternate Present			
*	No Meeting Held			NA	Not Applicable								

NOTE: November 2021 - the Well & Septic Forum was hosted by the Committee in lieu of a monthly meeting.



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Roberta Kellam	<i>March 2024</i>	*											
Vacant		*											
<i>NON-VOTING EX-OFFICIO MEMBERS</i>													
Charles Kolakowski	<i>NA</i>	*											
Mike Mason	<i>NA</i>	*											
Elaine Meil	<i>NA</i>	*											
-	Not a Member			X		Member Present			()		Alternate Present		
*	No Meeting Held			NA		Not Applicable							

