

Regional Source Water Protection Plan

Final Document

Directors of Utilities Committee
January 4, 2017

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Products:

1. Regional SWPP (Document)

- a. 10-5-16 Review Draft
- b. 11-16-16 Review Draft 2
- c. 12-19-16 Final Draft
- d. 01-04-17 Committee Approval

Digital Resources:

2. Regional Geodatabase (ArcMap Package)
3. Updated VDH Source Water Assessment Maps, Land Use Inventories, and Potential Contamination Source Inventories (*PDFs/GIS data for each Utility*)

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Comments on 12-19-16 Draft

1. Correction to Table 1-2 (p. 4).

Table 1-2: Municipal Community Water Systems Currently Supplied by Finished Water Purchases

<u>Water Sold By:</u>	<u>Water Sold To:</u>
Community Water System (PWS ID) Municipal Water Utility	Community Water System Name (PWS ID) Municipal Water Utility
City of Norfolk (3710100) Norfolk Public Utilities	South Norfolk System (3550052) Chesapeake Public Utilities
City of Norfolk (3710100) Norfolk Public Utilities	City of Virginia Beach System ¹ (3810900) Virginia Beach Public Utilities
City of Portsmouth (3740600) Portsmouth Public Utilities	City of Suffolk, Main System ² (3800805) Suffolk Public Utilities
City of Portsmouth (3740600) Portsmouth Public Utilities	Western Branch System (3550050) Chesapeake Public Utilities
City of Franklin (3620350) Franklin Public Works	Camptown Development Service District (3093117) Isle of Wight Utility Services
Town of Smithfield (3093640) Smithfield Public Works	Gatling Point (3093260) Isle of Wight Utility Services
Town of Windsor (3093900) Windsor Public Works and Utilities	Windsor Development Service District (3093125) Isle of Wight Utility Services
City of Suffolk, Main System ² (3800805) Suffolk Public Utilities	Newport Development Service District ³ (3093120) Isle of Wight Utility Services

1. The City of Norfolk treats and wheels the entire water supply for the City of Virginia Beach in accordance with a cost of service contract. The Lake Gaston water owned by Virginia Beach is discharged from the Lake Gaston Pipeline to Norfolk's Western Reservoirs, and then treated at Norfolk's water treatment plants.
 2. A portion of the finished water supply for the City of Suffolk's Main System is purchased from the City of Portsmouth.
 3. The Isle of Wight County Newport Development Service District is supplied by finished water from the Western Tidewater Water Authority. The City of Suffolk Main System (PWS ID 3800805) treats and distributes water for the Western Tidewater Water Authority.



Comments on 12-19-16 Draft

2. Correction to Sec. 4.3.5 (p. 38).

4.3.5 Coordination with Dominion Power

Dominion Power maintains electric transmission lines³⁵ that cross Zone 1 SWPAs for several surface water sources that serve municipal systems: Blackwater River Intake and Western Reservoirs (City of Norfolk); Lake Kilby and Lake Meade (City of Portsmouth); Crumps Mill Pond (City of Suffolk); Lake Gaston Intakes (City of Virginia Beach); Waller Mill Reservoir (City of Williamsburg); and Diascund Creek, Harwood's Mill, Lee Hall, Little Creek, and Skiffe's Creek Reservoirs and the Chickahominy River Intake (Newport News Waterworks). Transmission lines cross Zone 2 SWPAs for the sources listed above, as well as the following municipal sources: Northwest River Intake (City of Chesapeake) and Nottoway River Intake (City of Norfolk). It is likely that heavy equipment and herbicides are used to clear vegetation and maintain required clearances. Such management practices may pose certain risks to source water quality. Certain electrical equipment associated with transmission lines and substations may contain polychlorinated biphenyls (PCBs), another potential contamination source. Any such equipment within a SWPA should be located and inventoried.



Recommended Action

- Approve the Hampton Road Regional Source Water Protection Plan with corrections to Table 1-2 and Sec. 4.3.5.

Once approved:

- Distribute the Plan to the Committee (email)
- Post the Plan on HRPDC website
- Notify the VDH-ODW Source Water Protection Program (email)

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Water Program Work Plan - Recurring Tasks?

Potential Regional Source Water Protection Activities	
1.	Continuation of Current Regional Source Water Protection Activities (askHRgreen.org, water supply planning, groundwater mitigation, stormwater management, SSORS, etc.)
2.	Source Water Protection Plan Local Advisory Committee Meetings (1 DUC mtg annually)
3.	Potential Contamination Source Inventory Updates (check with VDH annually)
4.	Sanitary Sewer Overflows Notices (add water utilities to SSORS distribution list)
5.	Coordination with Dominion Power (establish contacts; update annually; additional support per Committee direction)
6.	Coordination with Roadway Operators (establish contacts; update annually; additional support per Committee direction)
7.	Coordination with Railroad Operators (establish contacts; update annually; additional support per Committee direction)
8.	Coordination with Gas Transmission Pipelines and Hazardous Liquid Trunkline Operators (establish contacts; update annually; additional support per Committee direction)
9.	Location-Based Analyses (examples: mapping uses/unique conditions; further identify risks)
10.	Policy Summary (source water protection provisions in local plans and ordinances; technical assistance for amendment/implementation)

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