

AGENDA NOTE – HRPDC ANNUAL COMMISSION MEETING

ITEM #15: FOR YOUR INFORMATION

A. Tentative Compliance Determination, Hampton Roads Regional Water Supply Plan

The Virginia Department of Environmental Quality (DEQ) completed a review of the Hampton Roads Regional Water Supply Plan for compliance with Sections 70 through 130 of the Local and Regional Water Supply Planning Regulation, §9VAC25-780, et seq. DEQ issued a tentative determination of compliance for the Hampton Roads Regional Water Supply Plan on August 30, 2013. DEQ did not receive any comments on the Plan during the August 30, 2013 to October 1, 2013 public comment period, and the agency anticipates issuing a final compliance determination by the end of 2013. A copy of the public notice and DEQ's tentative compliance letter is attached.

The HRPDC, on behalf of member localities, submitted the Hampton Roads Regional Water Supply Plan to DEQ on October 31, 2011. DEQ contacted HRPDC staff on July 22, 2013 to request additional information, and HRPDC staff and DEQ staff met on July 24, 2013 to review DEQ recommendations. As a result of the meeting, DEQ provided a draft compliance checklist and recommendations on August 2, 2013. As requested, the HRPDC provided a written response to DEQ's information request on August 27, 2013.

Attachment 15-A

PUBLIC NOTICE – HAMPTON ROADS REGIONAL WATER SUPPLY PLAN

PURPOSE OF NOTICE: To seek public comment on DEQ's determination of tentative compliance for the regional water supply plan developed by the Hampton Roads Planning District Commission for the cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg; the counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York; and the towns of Boykins, Branchville, Capron, Claremont Courtland, Dendron, Ivor, Newsoms, Smithfield, Surry, and Windsor, known as the Hampton Roads Regional Water Supply Plan, in accordance with §9 VAC 25-780, et seq., Local and Regional Water Supply Planning regulation.

PUBLIC COMMENT PERIOD: August 30, 2013 to October 1, 2013

DESCRIPTION OF WATER SUPPLY PLAN: The Hampton Roads Regional Water Supply Plan (the "Plan") dated July, 2011 identifies existing water sources, estimates current and future water demand, and assesses the need for additional sources for future water supply in the region. The planning region is located within Virginia's Coastal Plain physiographic province and all localities within the region, with the exception of Gloucester County, are in the Eastern Virginia Ground Water Management area. The area is served by surface water reservoirs, stream intakes, and ground water sources. All surface water and some of the ground water sources have a high susceptibility to contamination, including elevated concentrations of fluoride. Most users within the planning region are served by publicly- or privately-owned community water systems, with the exception of the more rural Western Tidewater sub-region where most users are self-supplied from ground water sources. Demand is expected to increase as population in the region continues to grow; however, projected supply is anticipated to meet projected demand for the region through 2050. There is potential for demand to exceed supply by 2040 in the York-James Peninsula sub-region as the projections are within a 10% margin of error and alteration of the assumptions could result in revised projections. Alternatives considered to meet the potential need in the Peninsula sub-region include additional surface water storage, additional ground water withdrawals, desalination, aquifer storage and recovery, interconnection, reuse, and system optimization.

All of the localities within the planning region have adopted "water supply emergency ordinances" for the implementation and enforcement of the drought response and contingency plan in the event of a drought.

DEQ ACTION: DEQ has issued a tentative determination of compliance to Mr. Dwight L. Farmer, Executive Director of the Hampton Roads Planning District Commission. Upon review of written comments submitted in response to this public notice, DEQ staff will make a final compliance determination decision.

HOW TO COMMENT: DEQ accepts written comments by e-mail, fax or postal mail. Written comments should include the name, address and telephone number of the person commenting and be received by DEQ during the comment period. The regional water supply plan is available from the contact below or on the DEQ website at <http://www.deq.virginia.gov/Programs/Water/WaterSupplyWaterQuantity/WaterSupplyPlanning.aspx>.

CONTACT FOR ADDITIONAL INFORMATION: Ms. Tammy Stephenson, Program Coordinator, Office of Water Supply, Virginia Department of Environmental Quality, 3019 Peters Creek Road, Roanoke, VA 24019; Phone: 540-561-6828; E-mail: tammy.stephenson@deq.virginia.gov; Fax: (540) 562-6725.



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August 30, 2013

Mr. Dwight L. Farmer, Executive Director
Hampton Roads Planning District Commission
723 Woodlake Drive
Chesapeake, VA 23320

RE: Tentative Compliance Determination
Hampton Roads Regional Water Supply Plan

Dear Mr. Farmer,

The Virginia Department of Environmental Quality ("DEQ") has received the Hampton Roads Regional Water Supply Plan program documents dated July, 2011. The Department has reviewed this program for compliance with Sections 70 through 130 of the Local and Regional Water Supply Planning Regulation, §9VAC25-780, et seq. **Based on the review of the information submitted, DEQ has reached a tentative decision to find the Hampton Roads Regional Water Supply Plan compliant with the water supply planning regulation, pending other state agency review and public comment.**

The Plan is currently undergoing an evaluation and comment period by State agencies, as required by §9VAC25-780-140B and 150B. In addition, a 30-day public comment period, as required by §9VAC25-780-150C, will follow this tentative decision for compliance. DEQ will make a final decision concerning program compliance with the water supply planning regulation after evaluation and response to written comments received from the public. Subsequently, a final determination letter will be issued by this agency.

DEQ's review of the submitted program documents is itemized in the Checklist for Review of Local and Regional Water Supply Plan Program Documents ("Checklist"), which has been enclosed with this correspondence. Heather Mackey of DEQ's water supply planning staff is assigned to your planning region to assist in meeting the review and re-submittal requirements for your program. **The five-year review and ten-year re-submittal periods will begin once a final determination of compliance is made for your program.**

This tentative compliance review determination does not preclude DEQ from requesting additional information if needed for the purposes of developing the State Water Resources Plan. In addition, this compliance determination does not supersede the need to apply for a Virginia Water Protection Permit for surface water withdrawals or a Virginia Groundwater Permit for groundwater withdrawals, where necessary for a specific project. Nor does this determination ensure issuance of a permit for any particular alternative identified in the Plan or planning program documents.

Please share this tentative compliance determination with your partners in your planning region, and contact me at 540-562-6828 or email tammy.stephenson@deq.virginia.gov if you have any questions.

Sincerely,



Tammy D. Stephenson
Water Supply Planning Program Coordinator

Electronic Distribution:

Whitney Katchmark, Principal Water Resources Planner, Hampton Roads Planning District Commission

Heather Mackey, Water Supply Planner, Department of Environmental Quality

Enclosure:

Compliance Checklist for review of Local and Regional Water Supply Plan program documents



Compliance Checklist for review of Local and Regional Water Supply Plan program documents

Locality / Region: HAMPTON ROADS PLANNING DISTRICT COMMISSION ("HRPDC")

If planning regionally, list localities included in WSP

- Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg
- Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York
- Towns of Boykins, Branchville, Capron, Claremont, Courtland, Dendron, Ivor, Newsoms, Smithfield, Surry, and Windsor

Reviewing WSP Planner: Heather Mackey

Reviewing WSP Team Member: Mary Ann Massie

Reason for Compliance Evaluation:

- Initial Review
- 5 years after Compliance Determination, if circumstances have changed or new information has been made available
- 10 year revision and resubmission

The *Compliance Checklist* ("*Checklist*") is used by Water Supply Planning staff as a tool for evaluating local program elements required by §9 VAC 25-780, et seq., the Local and Regional Water Supply Planning regulation (the "Regulation"). The checklist is completed by Department of Environmental Quality ("DEQ") staff, based upon information and materials provided by locality or regional staff. "Yes" and "No" indications for making a reasonable effort to meet specific requirements are generally followed by staff comments that may be helpful in developing future iterations of water supply plans.

The *Compliance Checklist* is composed of the following parts:

- Part I – Program Background and Adoption Process
- Part II – Water Supply Plan and Required Program Elements
- Part III – Compliance Review and Consistency Determination Process
- Part IV – Requirements for Compliance, Areas In Need Of Improvement, Preliminary Identification Of Conflicts, Items of Interest, DEQ Action Items

PART I. PROGRAM BACKGROUND and ADOPTION PROCESS

PART I of the checklist reviews the documents that constitute a local or regional water supply program and the planning process that was undertaken. The Regulation requires that local or regional water supply plans ("WSP" or "Plan") (§9 VAC 25-780-40) be developed through a planning process that includes a public hearing by all participating localities (§9 VAC 25-780-50) and local adoption. Once an adopted Plan is submitted to DEQ, the Plan(s) are reviewed to determine compliance with the Regulation.

A. Describe the WSP development process (§9 VAC 25-780-140 A and C): HRPDC was the lead in development of the regional plan. A Memorandum of Agreement was signed by the localities in 2007 stating their intention of planning together. The Plan was prepared with the oversight of a standing committee of the directors of utility departments from the localities. All localities adopted the Plan and a drought ordinance. There are 27 localities included in the planning area; the data chapters of the WSP have been organized into three sub-regions: Peninsula, Southside, and Western Tidewater.

- 1. What entity was lead for Plan development? (i.e. local planning or utility department or service provider, planning district commission, etc.) HRPDC with support from CH2M Hill
- 2. Was a technical advisory or stakeholder group involved in the process? yes no
If "Yes," then describe membership and level of expertise and involvement. Directors of Utilities Committee with representatives from each participating locality

B. What documents constitute the water supply program (§9 VAC 25-780-50 A)? (e.g. comprehensive plan amendments; a map or maps identifying important elements such as existing environmental resources, existing water sources, significant existing water uses, and proposed new sources; water supply plan(s); water and sewer plan(s); and other local plans/ordinances. Provide a list of document title(s), adoption date(s), and local code citations:

- 1. Hampton Roads Regional Water Supply Plan, July 2011
- 2. Hampton Roads Local Program Adoption Documents, October 2011

C. Have copies of all adopted program documents itemized above been submitted and received by DEQ for evaluation of compliance (§9 VAC 25-780-50 C 9)? yes no
If "No," which document(s) is missing? _____

D. Describe the WSP adoption process (§9 VAC 25-780-140 A and C):

1. Public Hearing/Adoption Date(s) for all localities participating in the planning effort:

a. Peninsula Sub-Region

<u>Hampton</u>	<u>8/10/11</u>
<u>Newport News</u>	<u>8/9/11</u>
<u>Poquoson</u>	<u>8/22/11</u>
<u>Williamsburg</u>	<u>9/8/11</u>
<u>Gloucester</u>	<u>8/2/11</u>
<u>James City</u>	<u>9/27/11</u>

York County 9/20/11

b. Southside Sub-Region

Chesapeake 9/27/11

Norfolk 10/11/11

Portsmouth 8/23/11

Suffolk 9/7/11

Virginia Beach 10/11/11

c. Western Tidewater Sub-Region

Franklin 9/12/11

Isle of Wight 10/6/11

Southampton 8/22/11

Surry 9/1/11

Boykins 8/9/11

Branchville 8/15/11

Capron 8/1/11

Claremont 9/14/11

Courtland 8/9/11

Dendron 9/12/11

Ivor 9/12/11

Newsoms 8/1/11

Smithfield 8/2/11

Surry 9/1/11

Windsor 8/9/11

2. Has a copy of all program adoption resolution(s) been provided (§9 VAC 25-780-50 C 10)?
 yes all resolutions mention adoption of the WSP, which includes a section dedicated to the drought plan, and the holding of a public hearing; however, none of the resolutions mention submission of written comments. Minutes are provided for each locality and include comments/responses made during public hearings where applicable no

3. Has a record of public hearing(s) been provided, including copies of all written comments and comment responses (§9 VAC 25-780-50 C 11)? yes no
If "No," which localities have not provided copies of public hearing record? _____

4. COMMENTS: HRPDC prepared a separate document with all resolutions and public hearing minutes for each locality, which described the planning process and indicated that none of the localities in the planning region received any written public comments.

E. Was a Drought Response and Contingency Plan ("DRCP") (§9 VAC 25-780-120) required (see Part II D)? yes §5 pgs. 5-20 thru 5-34 of the WSP no

1. If "Yes," was a drought response ordinance adopted? yes no

2. Has a copy been provided for review? yes no

F. Has a *WSP Review Checklist* previously been submitted for grant purposes? yes no N/A

1. If "Yes," have all outstanding or inadequate items been addressed? yes no

2. If "No," list any outstanding or inadequate items to be addressed by the locality/region:

HRADC Tentative Compliance

PART II: WATER SUPPLY PLAN and REQUIRED PROGRAM ELEMENTS

PART II of the checklist pertains to the required elements of each water supply plan, as outlined in §9 VAC 25-780-70 through 130. The Regulation requires that Plans be developed using “existing, readily available information.” Additional, detailed studies were not required to be performed per the Regulation. If data gaps are identified during Plan review, it may be that the information did not exist or was not readily available at the time of Plan development, in which case a notation to that effect should be made in the “COMMENTS” area provided for each subsection below.

A. Describe **Existing Water Sources** (§9 VAC 25-780-70) as follows:

1. Summarize existing water sources as identified in the Plan: The planning area is located within Virginia’s Coastal Plain Province and, as of June 17, 2013 when the State Water Control Board voted to approve its expansion, all localities within the planning area are included in the Eastern Virginia Ground Water Management Area (“EVGWMA”). The area is served by surface water reservoirs, stream intakes, and ground water sources. All surface water sources and some of the ground water sources have a high susceptibility to contamination, including elevated concentrations of fluoride.
 - a. Peninsula sources: seven reservoirs and the Chickahominy River, ground water wells, 26 publicly-owned CWSs, 7 privately-owned CWSs (5 of which have wells that are highly susceptible to contamination). 23 active ground water withdrawal permits. 8 of the publicly owned CWSs rely solely on ground water, three systems are conjunctive use systems using both surface and ground water. Majority of population served by publicly-owned CWSs; portions of Gloucester, James City, and York do not have public water service. 20 SSUs withdrawing more than 300,000 gallons per month for non-agricultural purposes. No large agricultural users.
 - b. Southside sources: ground water wells, reservoirs, Lake Gaston, Northwest Blackwater, and Nottoway rivers. The majority of the population served by 15 publicly-owned CWSs, most of which use both surface and ground water. 9 privately-owned CWSs, all rely on ground water, and 7 of which have a well or wells with a high susceptibility to contamination. As of 2010, three privately-owned CWSs in Suffolk and two systems in Chesapeake were under a VDH fluoride consent order. 38 SSUs withdrawing more than 300,000 gallons per month for non-agricultural purposes. 3 large agricultural users.
 - c. Western Tidewater sources: ground water wells, Blackwater and Nottoway rivers. This sub-region is mostly rural with scattered, small population centers. The majority of the population is served by private residential wells. 24 publicly-owned CWSs, all but one served by ground water and 11 of which have a well or wells with a high susceptibility to contamination. At the end of 2010, 2 publicly-owned systems were under a VDH fluoride consent order. 40 privately-owned CWSs, all relying on ground water, and 13 under a VDH fluoride consent order. 12 large, non-agricultural SSUs, 13 large agricultural SSUs.

2. Date and source of data used to provide the following information: Virginia Department of Health ("VDH") and/or DEQ
3. List other sources of data, the date or date range of the data: 2007 USGS report *Private Domestic-Well Characteristics and the Distribution of Domestic Withdrawals among Aquifers in the Virginia Coastal Plain.*
4. For community water systems ("CWS") using ground water, is the following information provided (§9 VAC 25-780-70 B)? If a CWS is not using ground water, so note in the "COMMENTS."
- name and ID number of all wells in locality yes no
 - well depth yes no
 - casing depth yes no
 - screen depth (top and bottom) or water zones yes no
 - well diameter yes no
 - design capacity for the average daily and maximum daily withdrawal yes no
 - system capacity permitted by VDH yes no
 - annual and monthly permitted amounts contained in ground water withdrawal permits (for all wells located within ground water management areas) yes no N/A
 - COMMENTS: Although the information required above was provided for most CWS's using ground water, gaps in the data provided exist for private CWS's in some localities. Brackish water in the region treated by reverse osmosis. Aquifers: Potomac, Chickahominy-Piney Point, Aquia, Yorktown-Eastover
5. For CWS using reservoirs, is the following information provided (§9 VAC 25-780-70 C)? If a CWS is not using reservoirs, so note in the "COMMENTS."
- name of the reservoirs yes Lee Hall, Harwood's Mill, Skiffe's Creek, Little Creek, Diascund Creek, Beaverdam, Lake Gaston, Norfolk's Western Reservoirs (Western Branch, Lake Prince, and Lake Burnt Mills), Intown Reservoirs (Lake Smith, Lake Lawson, Lake Whitehurst, and Lake Wright), Lake Meade, Lake Cahoon, Speights Run, Lake Kilby, Lone Star Lakes Reservoir, Crumps Mill Pond Reservoir, no
 - sub-basins in which the reservoir(s) are located yes no
 - drainage area above dam yes no
 - amount of on-stream storage available for water supply yes no
 - design capacity for average daily and maximum daily withdrawals from the reservoir(s) yes no
 - safe yield of the reservoir(s) yes no
 - capacity of any associated water treatment plant yes no
 - VDH permitted capacity of the systems yes no
 - any limitations on withdrawal established by permits issued by the SWCB, VDH, or any other agency yes no N/A
 - COMMENTS: Although the information required above was provided for most CWS's using reservoirs, gaps in the data provided exist in some localities.

6. For CWS operating a system of interconnected reservoirs, is the following information provided either for the entire system, or as a subset of the system (§9 VAC 25-780-70 C)?
- reporting of the design capacity for withdrawals yes no
 - designed average daily withdrawal yes no
 - designed maximum daily withdrawal yes no
 - safe yield yes no
 - Does the Plan designate which reservoirs and which intakes constitute a system? yes Norfolk's Western Reservoirs (Lake Prince, Lake Burnt Mills, Western Branch reservoirs) and the Intown Reservoirs (Lake Lawson, Lake Smith, Little Creek Reservoir, Lake Whitehurst, and Lake Wright), City of Portsmouth (Lake Meade, Lake Cahoon, Speights Run, Lake Kilby) no
 - Does the Plan report the drainage area and amount of storage available for water supply from each reservoir independently? yes no
 - COMMENTS: Although most of the information required above was provided, gaps in the data provided exist for some CWS's using interconnected reservoirs.
7. For CWS using stream intakes, is the following information provided (§9 VAC 25-780-70 D)? If a CWS is not using stream intakes, so note in the "COMMENTS."
- name of the stream or river yes Chickahominy, Northwest River, Blackwater River, Nottoway River no
 - drainage area above the intake yes no
 - sub-basin in which the intake is located yes no
 - design capacity for average daily and maximum daily withdrawal from the stream yes no
 - safe yield yes no
 - lowest daily flow of record yes no
 - design capacity of the pump station yes no
 - design capacity of the water treatment plant yes no
 - capacity of the system permitted by VDH yes no
 - any limitation on withdrawals established by permits issued by the SWCB, VDH, or any other agency yes no N/A
 - COMMENTS: Although most of the information required above was provided for most CWS's using stream intakes, gaps in the data provided exist in some localities.
8. For all non-agricultural, self-supplied users (SSU) of more than 300,000 gallons per month of surface water, is the following information provided (§9 VAC 25-780-70 E)? If none exist, so note in the "COMMENTS."
- name of the water body utilized yes no
 - design capacity for average daily and maximum daily withdrawal yes no
 - any limitations on withdrawals established by permits issued by the SWCB, VDH, or any other agency yes no N/A
 - COMMENTS: Although the information required above was provided for most non-agricultural SSU's using surface water, gaps in the data provided exist for some SSU's.

9. For all non-agricultural, self-supplied users of more than 300,000 gallons per month of ground water, is the following information provided (§9 VAC 25-780-70 F)? If none exist, so note in the "COMMENTS."
- name and ID number of the well or wells yes no
 - well depth yes no
 - casing depth yes no
 - screen depth (top and bottom) or water zones yes no
 - well diameter yes no
 - design capacity for the average daily and maximum daily withdrawal, and yes no
 - any limitation on withdrawal established by permits issued by the SWCB, VDH, or any other agency yes no N/A
 - COMMENTS: Although the information required above was provided for most non-agricultural SSU's using ground water, gaps in the data provided exist for some SSU's.
10. For ground or surface water to be purchased from water supply systems outside the geographic boundaries of the planning area, is the following information provided (§9 VAC 25-780-70 G)? (NOTE: 'to be purchased' presumes an existing contract with an entity outside of the planning region)
- amount to be purchased, on a maximum daily and average annual basis yes no N/A
 - any contractual limitations on the purchase of the water, including but not limited to:
 - term of any contract or agreement yes no
 - recipient(s) or areas served by the water purchased yes no
 - name(s) of the supplier(s) yes no
 - COMMENTS: There are many water sales between jurisdictions in the region. The information above is provided both in the narrative and in tabular form by jurisdiction.
11. For water available to be purchased outside the planning area from any source with the capacity to withdraw more than 300,000 gallons per month of surface and ground water, is the following information provided (§9 VAC 25-780-70 H)? (NOTE: 'available to be purchased' presumes no contract is in place but could be in the future with an entity outside the planning region)
- amount available for purchase, reported on a maximum daily and average annual basis yes no N/A
 - any contractual limitations on the purchase of the water, including but not limited to:
 - term of any contract or agreement yes 11/17/87 - open ended no
 - geographic region(s) that receive the water purchased yes Chesapeake no
 - name(s) of the supplier(s) yes City of Virginia Beach no
 - COMMENTS: Chesapeake has a contract with Virginia Beach to purchase water from their Lake Gaston source. Lake Gaston is the only water source available outside of the planning area (pg. 1-23).

12. For agricultural self-supplied users (SSU) of more than 300,000 gallons per month, is the following information provided (§9 VAC 25-780-70 I)? If none exist, so note in the "COMMENTS."

- a. a list of agricultural users yes no
- b. an estimate of total agricultural usage by source yes no
- c. whether the use is irrigation or non-irrigation yes no
- d. whether the source is surface or ground water yes no

13. For self-supplied residential and business users withdrawing less than 300,000 gallons per month, is the following information provided (§9 VAC 25-780-70 J)? If none exists, so note in the "COMMENTS."

- a. an estimate of the number of residences yes no N/A
- b. an estimate of the population served by individual wells yes no N/A
- c. an estimate of the number of businesses supplied by individual wells yes no N/A
- d. COMMENTS: Aquifers: Yorktown-Eastover, Piney Point, Potomac aquifers

14. Has a summary of findings and recommendations from source water assessment plans and/or wellhead protection programs been provided (§9 VAC 25-780-70 K)? yes no

- a. COMMENTS: All surface water and some ground water sources have a high susceptibility for contamination in the planning area; several sources are under a VDH fluoride consent order.

15. COMMENTS: A significant amount of water is bought and sold between localities within the region. Section 1, pgs. 1-1 thru 1-70, and App A. Nice maps, tables, and figures. Data is presented by locality, within localities by publicly- and privately-owned CWSs, then SSUs. Localities are grouped into 3 sub-regions; includes an overview of numbers of CWSs and SSUs for each sub-region and summaries of sources by locality. Section 9 VAC 25-780-50.C.1 of the Regulation requires "a description of existing water sources in accordance with the requirements of 9 VAC 25-780-70." Although an effort to provide this information has been made, data gaps exist for CWS's and SSU's in some localities. Please provide all of the data requested by 9 VAC 25-780-70 for all CWS's and SSU's in all localities. Examples of missing source data include well construction data, such as average and max daily design capacity; casing, screen and well depth; and well diameter.

B. Describe Existing Water Use (§9 VAC 25-780-80) as follows:

- 1. Summarize existing water use as discussed in the Plan: Most users within the planning area are served by publicly-owned CWSs, with the exception of the more rural Western Tidewater sub-region where most users are self-supplied. §2, pgs 2-1 thru 2-35, App. A.
 - a. Peninsula sub-region use: 94% of the population in this sub-region is served by publicly-owned CWSs. Private, rather than publicly-owned, CWSs serve the populations of Gloucester, James City, and York counties. In addition, private residential wells serve ~33,384 people in Gloucester, James City, and York counties. An estimated 54 businesses were served by private wells in 2007, 36 of which were located outside of

CWS boundaries. In 2007 there were 20 large, non-agricultural SSUs and no large agricultural SSUs.

- b. Southside sub-region use: 92% of population is served by publicly-owned CWSs including the entire populations of Norfolk and Portsmouth. Public CWSs in Chesapeake, Suffolk, and Virginia Beach serve dense population centers but not the entire cities. Areas not served by the public CWSs in these cities are served either by private residential wells or private CWSs. Chesapeake and Suffolk are the only localities in the sub-region with privately-owned CWSs (there are 9 serving ~1% of the sub-region population). Private residential wells are found in the southern and western portions of Chesapeake, Suffolk, and Virginia Beach with the majority being in Chesapeake. About 5% of the sub-region's population was served by private wells in 2007. 49 businesses were served by private wells. 38 large, non-agricultural SSUs and several agricultural SSUs.
- c. Western Tidewater use: a significant portion (49%) of the population in this sub-region is served by private residential wells (35 businesses are served by private wells). Franklin, Smithfield and Windsor are the only localities in the sub-region where the majority of the population is served by publicly-owned CWSs. 24 publicly-owned CWSs serve 41% of the population; the remainder is served by one of 40 privately-owned CWSs. The majority of the privately-owned CWSs are located in Isle of Wight and Southampton counties. 12 large non-agricultural SSUs; 13 large agricultural SSUs.

2. Source of data used -- Source: VDH waterworks permit compliance reports, ground water permit compliance reports, and/or water use reports (§9 VAC 25-780-80 A).
Date or date range of data used: 2007-08

3. For each CWS, has the following information been provided (§9 VAC 25-780-80 B)?

- a. Population served yes no
- b. Number of connections yes no
- c. Average and maximum daily withdrawal yes no
- d. Water usage by CWS on an average monthly and annual basis, expressed in terms of million gallons per day ("MGD") yes no
- e. Peak day water use by month yes no
- f. Within each CWS service area, have the following estimates been provided?
- i. An estimate of the water used on an average annual basis by self-supplied nonagricultural users of more than 300,000 gallons per month of surface and ground water yes no N/A
- ii. An estimate of the amount of water used on an average annual basis by self-supplied agricultural users of more than 300,000 gallons per month of surface and ground water yes no N/A
- iii. An estimate of the number of self-supplied users of less than 300,000 gallons per month of ground water and an estimate of the total amount of water used by them on an annual average basis yes no N/A

- g. An estimate of the disaggregated amounts of water used in categories of use appropriate for the system, as follows:
- i. Residential use yes no
 - ii. Commercial institutional and light industrial ("CIL") use yes no N/A
 - iii. Heavy industrial use yes no N/A
 - iv. Military water use yes no N/A
 - v. Water used in water production processes yes no N/A
 - vi. Unaccounted for losses yes no
 - vii. Sales to other community water systems and the names of such systems
 yes no N/A
 - viii. Subtotals of the above categories for all community water systems yes no
 - ix. Other: _____
- h. For each CWS using stream intakes, has a qualitative description of existing in-stream beneficial uses either within or outside the planning area that may be affected by the point of stream withdrawal been provided? yes Peninsula, pg. 2-6; Southside, Pg. 2-14 no N/A
4. Has an estimate of the water used on an average annual basis by self-supplied non-agricultural users of more than 300,000 gallons per month of surface and ground water outside the service areas of CWS been provided (§9 VAC 25-780-80 C)?
 yes no N/A
5. Has an estimate of the amount of water used on an average annual basis by self-supplied agricultural users of more than 300,000 gallons per month of surface and ground water outside the service areas of CWS been provided (§9 VAC 25-780-80 D)?
 yes no N/A
6. Has an estimate of the number of self-supplied users of less than 300,000 gallons per month of ground water and an estimate of the total amount of water used by them on an annual average basis outside the service areas of CWS been provided (§9 VAC 25-780-80 E)?
 yes no N/A
7. COMMENTS: Section 9 VAC 25-780-50.C.2 of the Regulation requires "a description of existing water use in accordance with the requirements of 9 VAC 25-780-80." Although an effort to provide this information has been made, gaps in the data provided exist for CWS's and SSU's in some localities. Please provide all of the data requested by 9 VAC 25-780-80 for all CWS's and SSU's in all localities. Examples of missing use data include peak day use by month. For estimates of small SSUs, domestic water use was assumed to be 75 gallons per person, household size was based on 2000 census estimates. Annual use by small business based on VDH guidelines for public drinking water supply needs assessments. Data is presented by publicly- and privately-owned CWSs within each locality, then SSUs. Localities are grouped into 3 sub-regions; includes a summary of total water use for each sub-region and by CWS, SSU, and use type for each locality. Section 2, pgs. 2-1 thru 2-35, and App. A
- C. For Existing Water Resources (§9 VAC 25-780-90), has the following information been provided?

1. Summarize existing water resources as identified in the Plan: The planning area is located in Virginia's Coastal Plain Province and all localities but the County of Gloucester are in the Eastern Virginia Ground Water Management Area. All surface water sources and some ground water sources in the planning area are highly susceptible to contamination.
 2. List sources and dates of data provided: US Geological Survey, Department of Conservation and Recreation (DCR), DEQ, Department of Game and Inland Fisheries, Department of Historic Resources, National Oceanic and Atmospheric Administration Coastal Change Analysis program, Virginia Fish and Wildlife Service National Rivers Inventory, DCR Virginia Outdoors Plan, US Department of Agriculture, US Fish and Wildlife Service National Wetlands Inventory, 2008 Virginia Water Quality Assessment.
 3. Existing geologic, hydrologic, and meteorological conditions within the locality, and in proximity to the point of withdrawal if it is outside the planning area (§9 VAC 25-780-90 A).
 yes pgs. 3-1 thru 3-12 no
 4. Existing environmental conditions that pertain to, or may affect, instream flow, instream uses, and sources that provide the current supply, as follows (§9 VAC 25-780-90 B):
 - a. State or federal listed threatened or endangered species or habitats of concern
 yes pg. 3-13 no N/A
 - b. Anadromous, trout, and other significant fisheries yes pg. 3-15 no N/A
 - c. River segments that have recreational significance, including state scenic river status
 yes pg. 3-17 no N/A
 - d. Sites of historic or archaeological significance yes pg. 3-22 no N/A
 - e. Unusual geologic formations or special soil types yes Chesapeake Bay impact crater no N/A
 - f. Wetlands yes pg. 3-25 no N/A
 - g. Riparian buffers and conservation easements yes pg. 3-32 no N/A
 - h. Land use and land coverage, including items such as percentage of impervious cover within a watershed and areas where new development may impact water quality of the source
 yes 10% impervious cover; pg. 3-38 no N/A
 - i. The presence of impaired streams and the type of impairment yes pg. 3-42 no
 N/A
 - j. The locations of point source discharges yes pg. 3-48 no N/A
 - k. Potential threats to the existing water quantity and quality, other than those from above
 yes solid waste management facilities, underground storage tanks, superfund sites, uranium mining, fluoride no N/A
 5. COMMENTS: Thorough research, documentation, and analysis. Section 3, pgs. 3-1 thru 3-61.
- D. Describe **Projected Water Demand** (§9 VAC 25-780-100) based upon accepted methodology (as outlined in the American Water Works Association ("AWWA") or American Society of Civil Engineers ("ASCE") manuals), as follows:
1. Summarize changes in projected water demand as provided in the Plan: Demand is expected to increase as population continues to grow. Southside will see the most growth followed by

Peninsula and Western Tidewater. Publicly-owned CWS demand is anticipated to increase by 44%; the majority of development is expected to occur within CWS service areas. Demand in privately-owned CWS service areas is anticipated to decrease as some of these systems opt for service from publicly-owned CWSs and as development occurs in publicly-owned CWS service areas. Small SSU demand is expected to increase by 27%, most of which is anticipated in the Southside sub-region. Large SSU demand is deemed too difficult to predict, so demand levels remained constant through the end of the planning period.

2. Are water demand projections included (§9 VAC 25-780-100 A)? yes projections were developed by HRPDC or provided by locality utility departments no
- a. List source and date or date range for population estimates: U.S. Census Bureau Weldon Cooper Center Virginia Employment Commission ("VEC") Other
- b. Dates and description of any other accepted source of population information used, including local or regional sources: For publicly-owned CWSs, HRPDC staff or locality utility departments provided projections using Regional Economic Models, Inc. software developed for long-term regional transportation plans. Other projections were based on specific assumptions and data deemed appropriate for use by utility departments, including historic use and safe yield studies (Pg. 4-1). Demand numbers for small privately-owned CWSs were based on analysis include in ground water withdrawal permits.
- c. Is documentation of information sources and methodologies provided? yes documentation of assumptions and methodology is provided for each subset (publicly- and privately-owned CWSs, large and small SSUs). no
3. Is an estimate of water demand within the planning area for 30 to 50 years into the future provided (§9 VAC 25-780-100 B)? yes no
4. Is an estimate of future water use projected at the beginning of each decade (2010, 2020, 2030, etc.) provided (§9 VAC 25-780-100 C)? yes no
5. Are the following projections provided for CWS within the planning area (§9 VAC 25-780-100 D)?
- a. An estimate of population within the locality served by each CWS yes no
- b. A map depicting the proposed service area of each existing or proposed CWS yes Maps of existing and proposed CWS service areas are located in Section 1 Existing Sources no
- c. Estimated water demand for each existing or proposed CWS on both an annual average and peak monthly basis yes no
- d. Estimated water demand for each existing or proposed CWS disaggregated into categories of use appropriate for the system, such as:
- i. Residential use yes no
- ii. Commercial institutional and light industrial use yes no N/A
- iii. Heavy industrial use yes no N/A
- iv. Military water use yes no N/A

- v. Water used in water production processes yes no N/A
- vi. Unaccounted for losses yes no N/A
- vii. Sales to other community water systems and the names of such systems yes
 no N/A
- viii. Subtotals of the above categories for all community water systems yes
 no
- e. Total projected water demand for all existing or proposed CWS disaggregated into the categories mentioned in subdivision d, above. yes no
- f. Were current conservation practices, techniques and technologies considered in the above water demand projections (§9 VAC 25-780-110 B)? yes no
- g. COMMENTS: publicly-owned CWS data presented on pgs. 4-1 thru 4-5; privately-owned CWS data presented on pgs. 4-6 thru 4-7.
6. Has a projection of water demand on an annual average basis for each existing and any proposed self-supplied nonagricultural user of more than 300,000 gallons per month of surface and ground water located outside the service areas of CWS been provided (§9 VAC 25-780-100 E)? yes no N/A COMMENTS: Demand not expected to increase over 2007 numbers.
7. Has a projection of the amount of water use on an annual average basis for each existing and any projected self-supplied agricultural user of more than 300,000 gallons per month of surface and ground water located outside the service areas of CWS been provided (§9 VAC 25-780-100 F)? yes no N/A COMMENTS: Demand not expected to increase over 2007 numbers.
8. Has a projection of the number of self-supplied users of less than 300,000 gallons per month of ground water and a projection of the amount of water used on an annual average basis outside the service areas of CWS been provided (§9 VAC 25-780-100 G)? yes Numbers are projected to remain constant no N/A
9. Has an explanation of how the projected needs of domestic consumption, in-stream uses, and economic development have been accounted for in the demand projection for the planning period been provided (§9 VAC 25-780-100 I)? yes no
10. COMMENTS: Projected population estimates and water demand are organized by CWS (public and private), and SSUs over and under 300,000. Good explanation of assumptions and methodologies; nice summary of regional projected demand on pg. 4-11. Section 4, pgs 4-1 thru 4-14.
- E. Describe proposed **Water Demand Management** actions (§9 VAC 25-780-110), as follows:
1. Does the Plan describe practices for more efficient use of water? yes no
- a. If "Yes," which of the following are used: adoption and enforcement of Uniform Statewide Building Code ("USBC") sections requiring maximum flow of water closets, urinals, and appliances; lower-water use landscaping; increases in irrigation efficiency (§9 VAC 25-780-110 A 1)?; other

- b. Describe additional water use efficiency practices: wasteful water use ordinances, water loss awareness education, and WaterSense partnership.
2. Does the Plan describe water conservation measures used to conserve water through the reduction of use? yes no
- a. If "Yes," which of the following are used: technical, educational, and financial programs (§9 VAC 25-780-110 A 2)? other provide retrofit kits and leak detection kits as part of HR WET (Hampton Roads Water Efficiency Team) program; active water reuse/reclamation programs in some localities.
3. Does the Plan describe practices to address water loss in the maintenance of systems to reduce unaccounted for water loss? yes no
- a. If "Yes," which of the following are used: leak detection and repair, old distribution line replacement (§9 VAC 25-780-110 A 3)? other leaking fixtures ordinances, metering of all uses and meter testing/replacement programs, unauthorized connection ordinances.
4. COMMENTS: Hampton Roads has a long history of water conservation and water demand management (almost 40 years) due to relatively small tributary watersheds that feed the region's reservoirs, and limited natural water supply reserve. Due to the coastal nature of the region, most of the surface water is salty and not readily available for drinking water. In addition, ground water sources are vulnerable to excessive use and saltwater intrusion. Section 5, pgs. 5-1 thru 5-19.
- F. **Drought Response and Contingency Plan** (§9 VAC 25-780-120) for CWS and self-supplied users withdrawing more than an average of 300,000 gallons per month of surface or ground water.
1. Does the DRCP address unique characteristics of the water source being utilized and the nature of the beneficial use of water (§9 VAC 25-780-120.1)? yes no
2. Does the DRCP contain the following graduated stages of response to the onset of drought conditions, at a minimum (§9 VAC 25-780-120.2):
- a. Drought watch stage responses, intended to raise awareness: yes no
- b. Drought warning stage responses, voluntary water conservation practices intended to reduce water use by 5 to 10%: yes no
- c. Drought emergency stage responses, mandatory water conservation practices intended to reduce water use by 10-15%: yes expect a 10 to 25% reduction, pg. 5-33 no
- d. Describe any additional drought response stages included in the DRCP: Extreme Drought Emergency occurs when only critical supplies of water are available (pg. 5-33).
3. Does the DRCP contain references to adopted local ordinances and procedures for implementation and enforcement (§9 VAC 25-780-120.3)? yes no
- a. If "Yes," list code citations or describe policy: all localities in the region adopted "water supply emergency ordinances"
- b. If "No," describe DRCP implementation and enforcement policy: _____

4. COMMENTS: Section 5, pgs. 5-20 thru 5-34.

G. **Statement of Need and Alternatives Analysis** (§9 VAC 25-780-130), is the following provided:

1. Statement of Need: based upon the analysis of the above information derived from §9 VAC 25-780-70 through 110, are existing water sources adequate to meet current and projected demand (§9 VAC 25-780-130 A): yes projected supply for the region is anticipated to meet projected future demand through 2050; however, demand may exceed supply in the Peninsula sub-region by 2040 as projections are within a +/- 10% margin of error. In addition, while most of the region depends upon conjunctive use systems (using both surface and ground water), 23% of the raw source water for publicly-owned CWSs is from ground water, and some localities rely exclusively on ground water (most in Western Tidewater). With the exception of Gloucester County, the entire planning area is located within the Eastern Virginia Ground Water Management Area because of the vulnerability of the source. In addition, there are indicators of a relationship between ground water withdrawals and land subsidence in the region and DEQ has encouraged several public CWSs in the region to reduce the amount of withdrawal requested in their permit renewal applications, effectively reducing the available water supply for those facilities. no
2. If future demand is determined to exceed current supply, then has an analysis of alternative sources been provided, as follows (§9 VAC 25-780-130 B)?
 - a. A description of potential water savings through demand management actions
 yes no
 - b. A description of potential new supply sources yes no
 - c. A description of potential resource issues and impacts (based upon §9 VAC 25-780-140 G) for each potential new source yes no
 - d. Is a description of various alternatives provided, including (§9 VAC 25-780-130 C):
 - i. water demand management and conservation measures yes no
 - ii. traditional supply increases such as wells, reservoirs, impoundments and stream intakes, etc. yes reservoir, increased surface water storage, additional ground water withdrawals no
 - iii. Nontraditional means of increasing supply such as interconnection, desalination, reclamation and reuse, etc. yes desalination, interconnection, reuse, and system optimization no
 - iv. Describe any other alternatives considered: Aquifer storage and recovery
 - v. Does the alternatives analysis include a combination of short and long term alternatives? yes no
3. Provide a list of preferred water supply alternatives for the planning area, if applicable: N/A
4. COMMENTS: Statement of Need is organized by sub-region in Section 6, pgs. 6-1 thru 6-10. The Alternatives Analysis addresses the potential for demand to exceed supply by 2040 in the Peninsula sub-region. A wide range of possibilities is reviewed as are associated impacts and costs. Alternatives is Section 7, pgs 7-1 thru 7-11.

PART III: COMPLIANCE REVIEW and CONSISTENCY DETERMINATION PROCESS

PART III of the checklist pertains to the compliance review to be conducted by DEQ. This review includes program evaluation by state resource management agencies, identification of conflicts between submitted programs, and assessment of program compliance with the Regulation. Once DEQ assessment is complete, a tentative statement of compliance will be prepared for public review and comment.

- A. **Finding of Tentative Compliance with §9 VAC 25-780-50** as reviewed in PART II of the checklist:
1. Tentatively Compliant – proceed to public notice, as per §9 VAC 25-780-140 and 150.
 2. Noncompliant – Part IV outlines reasons and steps to address noncompliance
 3. Date Finding of Tentative Compliance letter sent: _____
 4. Record of informal proceeding (when requested) pursuant to Article 3 (§2.2-4018, et seq.) of Chapter 40 of the Virginia Administrative Process Act: _____
- B. **Determine local/regional program consistency with the following (§9 VAC 25-780-140 C):**
1. §9 VAC 25-390-20 – SWCB Water Resources Policy: The Plan tentatively complies with the Local and Regional Water Supply Planning Regulation (§9VAC25-780, et seq.), and therefore provides the Board with the information necessary to fulfill its responsibilities under the Water Resources Policy (§9VAC25-390-20).
 2. Section 62.1-11 of the Code of Virginia (“COV” or “Code”) – declaration of Virginia’s waters as a natural resource, use of which can be limited: The Plan provides the information necessary for meeting the mandates put forth in this section of the Code, and recognizes the need for authorized withdrawals for water supply while protecting other beneficial uses.
 3. Section 62.1-44.36 of the Code of Virginia – SWCB assigned duty of planning for the development, conservation and use of Virginia’s water resources: The Plan tentatively complies with the Local and Regional Water Supply Planning Regulation (§9VAC25-780, et seq.), and therefore provides the Board with the information necessary to fulfill its responsibilities under this section of the Code.
- C. **Evaluation/inventory of conflicts (§9 VAC 25-780-140 C 3 and 140 G)**
This portion of the checklist will be relevant after development of the State Water Resources Plan.
1. Cumulative demand impact analysis (“CIA”): _____
 2. Evaluation of conflicts between potential alternatives: _____
 3. Evaluation of potential use conflicts between projected water demand and estimates of in-stream flow requirements: _____
 4. Evaluation of relationship between local/regional plan(s) and State Water Resources Plan:

5. Describe any identified conflicts between jurisdictions, regions, and/or partners:

6. COMMENTS: _____

D. **Program evaluation by State Agencies:** Department of Conservation and Recreation ("DCR"), the Department of Game and Inland Fisheries ("DGIF"), the Department of Historic Resources ("DHR"), the Virginia Marine Resources Commission ("VMRC"), and VDH (§9 VAC 25-780-140 B and 150 B)

1. Dates of 90 day Agency comment period: 3/11/13 – 6/11/13

a. DCR written comments received on 3/14/13

b. DGIF written comments received on _____

c. DHR written comments received on 5/13/2013

d. VMRC written comments received on _____

e. VDH written comments received on 2/27/13

2. Written Agency comments and DEQ responses attached.

3. Record of Technical Evaluation Committee meeting (if applicable): N/A

E. **Record of public notice(s), public comment period(s), and/or public meeting(s)** concerning DEQ findings concerning tentative program compliance (§9 VAC 25-780-150 and §9 VAC 25-780-160):

1. Dates of 30-day public comment period: _____

2. Date notice posted to DEQ website: _____

3. Were written public comments received: yes no

4. Written public comments and DEQ responses attached.

5. Record of requested public meeting(s) including notice and record of comment

6. COMMENTS: _____

F. **Date of final determination of compliance with §9 VAC 25-780, et seq.** _____

G. **State Water Resources Plan**

1. Applicable text incorporated into SWRP: yes no

2. Applicable data input into Cumulative Impact Analysis ("CIA") model: yes no

PART IV: REQUIREMENTS FOR COMPLIANCE, AREAS IN NEED OF IMPROVEMENT, PRELIMINARY IDENTIFICATION OF CONFLICTS, ITEMS OF INTEREST, DEQ ACTION ITEMS

PART IV of the checklist includes areas in need of improvement by the next iteration of the plan and a listing of future water source alternatives identified in the Plan that may conflict with neighboring plans or regions, as identified by the reviewing planners. In addition, it is a place for notable items of interest that may deserve special recognition.

A. REQUIREMENTS FOR COMPLIANCE

B. AREAS IN NEED OF IMPROVEMENT (These items should be addressed by the localities by the next iteration of the WSP).

1. Section 9 VAC 25-780-50.C.1 of the Regulation requires “a description of existing water sources in accordance with the requirements of 9 VAC 25-780-70.” Although an effort to provide this information has been made, data gaps exist for CWS’s and SSU’s in some localities. Please provide all of the data requested by 9 VAC 25-780-70 for all CWS’s and SSU’s in all localities. See Part II, Section A.
2. Work with privately owned community water systems to better represent water use information required by Section 9 VAC 25-780-80 of the Regulation for their systems. See Part II, Section B, and the items highlighted in yellow on the spreadsheet entitled “HRPDC_dataack_080213.xlsx.”

C. PRELIMINARY IDENTIFICATION OF CONFLICTS

1. None

D. ITEMS OF INTEREST

1. Though not mentioned in the HRPDC Plan, the Lake Country Water Supply Plan indicates continued growth in Hampton Roads is seen as a potential threat to Lake Gaston as regional demand increases.
2. The PDC put together a nice submission package, with all adoption documentation packaged separately. The primary WSP document was well organized into three sub-regions, has excellent mapping, tables, and figures.
3. The long term, ongoing regional commitment to active water conservation use and demand management through technical, financial, and educational efforts is a sterling example for other regions.

E. DEQ ACTION ITEMS

1. Develop clear, consistent guidance to aide localities in responding to regulatory requirements.

2. Develop an online tool for use by localities when updating the data requirements of the regulation.
3. Continue efforts to improve participation in water withdrawal reporting by agricultural and nonagricultural users through direct contact with users and coordination with other applicable agencies.
4. Continue efforts to create an inventory of DEQ permitted surface water withdrawals and to share this inventory with planning entities.
5. Continue efforts to create an inventory of ground water source (wells and springs) information, including DEQ permitted ground water withdrawals and to share this inventory with planning entities.

HRPDC Tentative Compliance

HRPDC DATA CHECK

Type	System Name	Avg. Daily Withdrawal (MGD) for CWS [-80B3]	Max Daily Withdrawal (MGD) for CWS [-80B3]	At least one Average Monthly value (MGD) for CWS? [1=Yes,0=No]	Estimated Annual Average (MG) [80B4,80B6, 80B7, 80B8, 80C, 80D, 80E]
WSP - SSU Agricultural	1100 Cattle (USDA NASS data)	N/A	N/A	N/A	3.65
WSP - SSU Agricultural	1500 Horses (USDA NASS data for Suffolk)	N/A	N/A	N/A	3.28
WSP - SSU Agricultural	1800 Beef Cows (USDA NASS data)	N/A	N/A	N/A	4.01
WSP - SSU Agricultural	1900 Horses (USDA NASS data)	N/A	N/A	N/A	3.65
WSP - SSU Agricultural	2600 Horses (USDA NASS data)	N/A	N/A	N/A	5.84
WSP - SSU Agricultural	3100 Cattle (USDA NASS data)	N/A	N/A	N/A	7.3
WSP - SSU Agricultural	3200 Horses (USDA NASS data)	N/A	N/A	N/A	6.93
WSP - SSU Agricultural	3700 Cattle (USDA NASS data)	N/A	N/A	N/A	7.3
WSP - SSU Agricultural	500 Beef Cows (USDA NASS data)	N/A	N/A	N/A	1.1
WSP - SSU Agricultural	8200 Cattle (USDA NASS data for Suffolk)	N/A	N/A	N/A	17.88
WSP - SSU Agricultural	Bennett Creek Wholesale Nursery	N/A	N/A	N/A	146
WSP - SSU Agricultural	Bennetts Creek Nursery	N/A	N/A	N/A	25.55
WSP - SSU Agricultural	Cox Farm	N/A	N/A	N/A	7.3
WSP - SSU Agricultural	Davis Farm	N/A	N/A	N/A	29.2
WSP - SSU Agricultural	Franklin Turfgrass Inc., River Road Farm	N/A	N/A	N/A	219
WSP - SSU Agricultural	Gray Lumber Company - Bacons Castle Farm	N/A	N/A	N/A	32.85
WSP - SSU Agricultural	Greenbrier Farms Nursery	N/A	N/A	N/A	930.75
WSP - SSU Agricultural	John T. Butler, Jr.	N/A	N/A	N/A	18.25
WSP - SSU Agricultural	Murphy Brown, LLC - Smithfield Carroll's Farms 16-17	N/A	N/A	N/A	14.6
WSP - SSU Agricultural	Murphy Brown, LLC - Smithfield Carroll's Farms 6-8	N/A	N/A	N/A	21.9
WSP - SSU Agricultural	Murphy Brown, LLC - Smithfield Carroll's Surry Farms 9, 10, 21	N/A	N/A	N/A	25.55
WSP - SSU Agricultural	Murphy Brown, LLC Isle of Wight Farms - Carrolls 1-5	N/A	N/A	N/A	43.8

HRPDC DATA CHECK

Type	System Name	Avg. Daily Withdrawal (MGD) for CWS [-80B3]	Max Daily Withdrawal (MGD) for CWS [-80B3]	At least one Average Monthly value (MGD) for CWS? [-80B4] (1=Yes,0=No)	Estimated Annual Average (MG) [80B4,80B6, 80B7, 80B8, 80C, 80D, 80E]
WSP - SSU Agricultural	Philip Edwards	N/A	N/A	N/A	3.65
WSP - SSU Agricultural	Southern Belle Turf Farms	N/A	N/A	N/A	7.3
WSP - SSU Agricultural	Sunset View Farm	N/A	N/A	N/A	105.85
WSP - SSU Agricultural	Williams Cattle Co., LLC	N/A	N/A	N/A	21.9
WSP - SSU Non-Ag Over 300K	Albert G. Horton, Jr. Veterans Cemetary	N/A	N/A	N/A	3.65
WSP - SSU Non-Ag Over 300K	BASF (Ciba Specialty Chemicals) - Suffolk Plant	N/A	N/A	N/A	25.55
WSP - SSU Non-Ag Over 300K	BASF Corporation	N/A	N/A	N/A	87.6
WSP - SSU Non-Ag Over 300K	BASF Corporation Williamsburg	N/A	N/A	N/A	7.3
WSP - SSU Non-Ag Over 300K	Bayshore Concrete Products	N/A	N/A	N/A	3.65
WSP - SSU Non-Ag Over 300K	Bayville Golf Club	N/A	N/A	N/A	14.6
WSP - SSU Non-Ag Over 300K	Bow Creek Golf Course	N/A	N/A	N/A	7.3
WSP - SSU Non-Ag Over 300K	Broad Bay Country Club	N/A	N/A	N/A	10.95
WSP - SSU Non-Ag Over 300K	Busch Gardens Williamsburg	N/A	N/A	N/A	25.55
WSP - SSU Non-Ag Over 300K	Cahoon Plantation Golf Course	N/A	N/A	N/A	18.25
WSP - SSU Non-Ag Over 300K	Capital Concrete Incorporated - Stapleton Street Plant	N/A	N/A	N/A	7.3
WSP - SSU Non-Ag Over 300K	Cavalier Golf & Yacht Club	N/A	N/A	N/A	51.74
WSP - SSU Non-Ag Over 300K	Cedar Point Golf Course	N/A	N/A	N/A	25.55
WSP - SSU Non-Ag Over 300K	Chesapeake Energy Center	N/A	N/A	N/A	190 165.00000
WSP - SSU Non-Ag Over 300K	Cintas Corporation / Omni Services, Inc.	N/A	N/A	N/A	21.9
WSP - SSU Non-Ag Over 300K	Cogentrix Virginia Leasing Corporation	N/A	N/A	N/A	605.9
WSP - SSU Non-Ag Over 300K	Colonial Williamsburg Inn	N/A	N/A	N/A	175.2
WSP - SSU Non-Ag Over 300K	Cypress Point Golf Course	N/A	N/A	N/A	25.55
WSP - SSU Non-Ag Over 300K	Deer Run Golf Course	N/A	N/A	N/A	29.2
WSP - SSU Non-Ag Over 300K	Dominion Power Nuclear Power Plant - Surry	N/A	N/A	N/A	647 612.00000
WSP - SSU Non-Ag Over 300K	Dominion Terminal Associates - Pier 11	N/A	N/A	N/A	43.8

HRPDC DATA CHECK

Type	System Name	Avg. Daily Withdrawal (MGD) for CWS [-80B3]	Max Daily Withdrawal (MGD) for CWS [-80B3]	At least one Average Monthly value (MGD) for CWS? [-80B4] (1=Yes,0=No)	Estimated Annual Average (MG) [80B4,80B6, 80B7, 80B8, 80C, 80D, 80E]
WSP - SSU Non-Ag Over 300K	Eagle Haven Golf Course, NAB Little Creek	N/A	N/A	N/A	10.95
WSP - SSU Non-Ag Over 300K	Elizabeth Manor Golf and Country Club	N/A	N/A	N/A	51.1
WSP - SSU Non-Ag Over 300K	Golden Horseshoe Golf Course	N/A	N/A	N/A	80.3
WSP - SSU Non-Ag Over 300K	Hell's Point Golf Course	N/A	N/A	N/A	36.5
WSP - SSU Non-Ag Over 300K	Hercules Incorporated	N/A	N/A	N/A	1 919.90000
WSP - SSU Non-Ag Over 300K	Heron Ridge Golf Course	N/A	N/A	N/A	54.75
WSP - SSU Non-Ag Over 300K	International Paper - Franklin Mill Plant	N/A	N/A	N/A	13 355.30000
WSP - SSU Non-Ag Over 300K	J.H. Miles and Company - Norfolk Processing Plant	N/A	N/A	N/A	54.75
WSP - SSU Non-Ag Over 300K	James River Country Club	N/A	N/A	N/A	10.95
WSP - SSU Non-Ag Over 300K	Kempville Greens Golf Course	N/A	N/A	N/A	3.65
WSP - SSU Non-Ag Over 300K	Kinder Morgan Bulk Terminal - Pier IX Terminal Company	N/A	N/A	N/A	32.85
WSP - SSU Non-Ag Over 300K	Kingsmill Golf Course	N/A	N/A	N/A	102.2
WSP - SSU Non-Ag Over 300K	Narricot Industries Incorporated	N/A	N/A	N/A	32.85
WSP - SSU Non-Ag Over 300K	National Linen & Uniform Service	N/A	N/A	N/A	7.3
WSP - SSU Non-Ag Over 300K	Northrop Grumman Shipbuilding	N/A	N/A	N/A	2 974.75000
WSP - SSU Non-Ag Over 300K	Oceana Golf Course	N/A	N/A	N/A	25.55
WSP - SSU Non-Ag Over 300K	Outdoor World Campground Williamsburg	N/A	N/A	N/A	3.65
WSP - SSU Non-Ag Over 300K	Princess Anne Country Club	N/A	N/A	N/A	69.35
WSP - SSU Non-Ag Over 300K	Redwing Golf Course	N/A	N/A	N/A	43.8
WSP - SSU Non-Ag Over 300K	Richmond Cold Storage	N/A	N/A	N/A	7.3
WSP - SSU Non-Ag Over 300K	Sanifill of Virginia - Big Bethel Landfill	N/A	N/A	N/A	29.2
WSP - SSU Non-Ag Over 300K	Servitex Division of Alisco	N/A	N/A	N/A	10.95
WSP - SSU Non-Ag Over 300K	Sewells Point Golf Course, U.S. Navy, Norfolk Naval Base	N/A	N/A	N/A	47.45
WSP - SSU Non-Ag Over 300K	Siemens Automotive - Newport News	N/A	N/A	N/A	14.6

HRPDC DATA CHECK

Type	System Name	Avg. Daily Withdrawal (MGD) for CWS [-80B3]	Max Daily Withdrawal (MGD) for CWS [-80B3]	At least one Average Monthly value (MGD) for CWS? [-80B4] (1=Yes,0=No)	Estimated Annual Average (MG) [80B4,80B6, 80B7, 80B8, 80C, 80D, 80E]
WSP - SSU Non-Ag Over 300K	Smithfield Foods, Inc. - Gwaltney	N/A	N/A	N/A	492.75
WSP - SSU Non-Ag Over 300K	Smithfield Foods, Inc. - Ham and Products Division	N/A	N/A	N/A	7.3
WSP - SSU Non-Ag Over 300K	Smithfield Foods, Inc. - Packing Company	N/A	N/A	N/A	182.5
WSP - SSU Non-Ag Over 300K	Southampton County Agri-Business Industrial Park	N/A	N/A	N/A	3.65
WSP - SSU Non-Ag Over 300K	SPSA Regional Landfill	N/A	N/A	N/A	10.95
WSP - SSU Non-Ag Over 300K	Surry County Public Schools	N/A	N/A	N/A	3.65
WSP - SSU Non-Ag Over 300K	The Pines Golf Course - Fort Eustis	N/A	N/A	N/A	21.9
WSP - SSU Non-Ag Over 300K	Tidewater Area Central Hospital Laundry, Inc. (Shared Hospital Services)	N/A	N/A	N/A	21.9
WSP - SSU Non-Ag Over 300K	Titan Ready Mix Plant - Rip Rap Road	N/A	N/A	N/A	7.3
WSP - SSU Non-Ag Over 300K	Titan Virginia Ready-Mix, LLC - Campostella Ready-Mix Plant	N/A	N/A	N/A	6.93
WSP - SSU Non-Ag Over 300K	Titan Virginia Ready-Mix, LLC - Oceana Plant	N/A	N/A	N/A	3.65
WSP - SSU Non-Ag Over 300K	Titan Virginia Ready-Mix, LLC - Port Norfolk Plant	N/A	N/A	N/A	3.65
WSP - SSU Non-Ag Over 300K	TPC of Virginia Beach, LLC (now Virginia Beach National Golf Course)	N/A	N/A	N/A	91.25
WSP - SSU Non-Ag Over 300K	Two Rivers Country Club	N/A	N/A	N/A	25.55
WSP - SSU Non-Ag Over 300K	Valley Proteins Incorporated	N/A	N/A	N/A	0
WSP - SSU Non-Ag Over 300K	Williamsburg Country Club	N/A	N/A	N/A	18.25
WSP - SSU Non-Ag Over 300K	Williamsburg National Golf Course	N/A	N/A	N/A	18.25
WSP - SSU Non-Ag Over 300K	Yorktown Fossil Power Plant	N/A	N/A	N/A	298 205.00000
WSP - SSU Non-Ag Under 300K	Chesapeake Small SSU Business	N/A	N/A	N/A	3.69563
WSP - SSU Non-Ag Under 300K	Chesapeake Small SSU Business INSIDE	N/A	N/A	N/A	8.0884
WSP - SSU Non-Ag Under 300K	Chesapeake Small SSU Residential	N/A	N/A	N/A	919.8

HRPDC DATA CHECK

Type	System Name	Avg. Daily Withdrawal (MGD) for CWS [-80B3]	Max Daily Withdrawal (MGD) for CWS [-80B3]	At least one Average Monthly value (MGD) for CWS? [-80B4] (1=Yes,0=No)	Estimated Annual Average (MG) [80B4,80B6, 80B7, 80B8, 80C, 80D, 80E]
WSP - SSU Non-Ag Under 300K	Franklin Small SSU - Business	N/A	N/A	N/A	14.6
WSP - SSU Non-Ag Under 300K	Franklin Small SSU - Residential	N/A	N/A	N/A	0.13104
WSP - SSU Non-Ag Under 300K	Gloucester Co Small SSU-Business	N/A	N/A	N/A	41.4421
WSP - SSU Non-Ag Under 300K	Gloucester Co Small SSU-Business INSIDE	N/A	N/A	N/A	0.657
WSP - SSU Non-Ag Under 300K	Gloucester Co Small SSU-Residential	N/A	N/A	N/A	628.53
WSP - SSU Non-Ag Under 300K	Isle of Wight Small SSU - Business	N/A	N/A	N/A	23.6418
WSP - SSU Non-Ag Under 300K	Isle of Wight Small SSU - Business INSIDE	N/A	N/A	N/A	3.03315
WSP - SSU Non-Ag Under 300K	Isle of Wight Small SSU - Residential	N/A	N/A	N/A	385.248
WSP - SSU Non-Ag Under 300K	Isle of Wight Small SSU - Residential INSIDE	N/A	N/A	N/A	64.3039
WSP - SSU Non-Ag Under 300K	James City County Small SSU - Business	N/A	N/A	N/A	28.105
WSP - SSU Non-Ag Under 300K	James City County Small SSU - Business INSIDE	N/A	N/A	N/A	75.7375
WSP - SSU Non-Ag Under 300K	James City County Small SSU - Residential	N/A	N/A	N/A	197.757
WSP - SSU Non-Ag Under 300K	Newport News Small SSU-Business	N/A	N/A	N/A	2.92
WSP - SSU Non-Ag Under 300K	Portsmouth small SSU Residential	N/A	N/A	N/A	0.06862
WSP - SSU Non-Ag Under 300K	Smithfield Small SSU - Residential INSIDE	N/A	N/A	N/A	6.50175
WSP - SSU Non-Ag Under 300K	Southampton Small SSU - Business	N/A	N/A	N/A	33.4924
WSP - SSU Non-Ag Under 300K	Southampton Small SSU - Business INSIDE	N/A	N/A	N/A	4.06245
WSP - SSU Non-Ag Under 300K	Southampton Small SSU - Residential	N/A	N/A	N/A	332.661
WSP - SSU Non-Ag Under 300K	Suffolk small SSU Business	N/A	N/A	N/A	13.6875
WSP - SSU Non-Ag Under 300K	Suffolk small SSU Business INSIDE	N/A	N/A	N/A	9.08485
WSP - SSU Non-Ag Under 300K	Suffolk small SSU Residential	N/A	N/A	N/A	551.99
WSP - SSU Non-Ag Under 300K	Surry Small SSU - Business	N/A	N/A	N/A	17.4492
WSP - SSU Non-Ag Under 300K	Surry Small SSU - Residential	N/A	N/A	N/A	151.493
WSP - SSU Non-Ag Under 300K	Virginia Beach Small SSU Business	N/A	N/A	N/A	30.3388
WSP - SSU Non-Ag Under 300K	Virginia Beach Small SSU Business INSIDE	N/A	N/A	N/A	79.6284
WSP - SSU Non-Ag Under 300K	Virginia Beach Small SSU Residential	N/A	N/A	N/A	132.796

HRPDC DATA CHECK

Type	System Name	Avg. Daily Withdrawal (MGD) for CWS [-80B3]	Max Daily Withdrawal (MGD) for CWS [-80B3]	At least one Average Monthly value (MGD) for CWS? [-80B4] (1=Yes,0=No)	Estimated Annual Average (MG) [80B4,80B6, 80B7, 80B8, 80C, 80D, 80E]
WSP - SSU Non-Ag Under 300K	Windsor Small SSU - Residential INSIDE	N/A	N/A	N/A	5.14431
WSP - SSU Non-Ag Under 300K	York County Small SSU-Business	N/A	N/A	N/A	21.6628
WSP - SSU Non-Ag Under 300K	York County Small SSU-Business INSIDE	N/A	N/A	N/A	2.3798
WSP - SSU Non-Ag Under 300K	York County Small SSU-Residential	N/A	N/A	N/A	87.6
WSP Community Water System	Ashby Subdivision	0.062	0.111	1	22.81
WSP Community Water System	Bethel Heights	0.004	0	1	1.46
WSP Community Water System	Birdsong (formerly Byrdtown Subdivision)	0.007	0.011	1	2.555
WSP Community Water System	Bob Steele Waterworks	0.004	0.012	1	1.46
WSP Community Water System	Brewer's Creek	0.029	0.063	1	10.74
WSP Community Water System	Brooks' Duplexes	0.002	0.003	1	0.73
WSP Community Water System	Camptown Development Service District	NUMBERS INCLUDED WITH CITY OF FRANKLIN			
WSP Community Water System	Cannon Acres	0.015	0.028	1	5.475
WSP Community Water System	Capron, Town of	0.021	0.026	1	1.69
WSP Community Water System	Carrisville	0.016	0	1	5.91
WSP Community Water System	Cherry Grove Acres	0.015	0.028	0	5.475
WSP Community Water System	Chesapeake - Northwest River System	11.173	25.1	1	4 078.04000
WSP Community Water System	Chesapeake - South Norfolk System	2.63	3.9	1	958.63
WSP Community Water System	Chesapeake - Western Branch System	2.923	3.9	1	1 067.05000
WSP Community Water System	Claremont, Town of	0.026	0	1	11.23
WSP Community Water System	Clydes Dale Mobile Home Park	0.027	0.042	1	9.82

HRPDC DATA CHECK

Type	System Name	Avg. Daily Withdrawal (MGD) for CWS [-80B3]	Max Daily Withdrawal (MGD) for CWS [-80B3]	At least one Average Monthly value (MGD) for CWS? [-80B4] (1=Yes,0=No)	Estimated Annual Average (MG) [80B4,80B6, 80B7, 80B8, 80C, 80D, 80E]
WSP Community Water System	Courtland, Town of	0.131	0	1	58.72
WSP Community Water System	Dam Neck - US Navy	NUMBERS INCLUDED WITH CITY OF NORFOLK			
WSP Community Water System	Darden's Mill Estates	0.012	0.02	1	4.38
WSP Community Water System	Days Point Subdivision	0.011	0	1	4.98
WSP Community Water System	Deer Run	0.007	0.01	1	2.555
WSP Community Water System	Dendron, Town of	0.026	0.035	1	9.57
WSP Community Water System	Duck's Trailer Court	0.001	0.001	1	0.365
WSP Community Water System	Edward's Trailer Park	0.011	0	1	4.015
WSP Community Water System	Fieldcrest Manufactured Home Community	0.008	0.011	1	2.92
WSP Community Water System	Fort Story - US Army	NUMBERS INCLUDED WITH CITY OF NORFOLK			
WSP Community Water System	Franklin, City of	1.1	1.9	1	424.88
WSP Community Water System	Gatling Pointe Subdivision	NUMBERS INCLUDED WITH TOWN OF SMITHFIELD			
WSP Community Water System	Gloucester County WTP	1.38	3.17	1	502.49
WSP Community Water System	Greensprings Mobile Village	0.011	0.014	1	4.015
WSP Community Water System	Guilford Heights	0.0085	0	1	3.1025
WSP Community Water System	Heaths Mobile Homes	0.003	0.004	1	1.095
WSP Community Water System	Hobson Mt. Lebanon Waterworks	0.008	0	1	2.92
WSP Community Water System	Hobson Village Waterworks	0.005	0	1	1.825

HRPDC DATA CHECK

Type	System Name	Avg. Daily Withdrawal (MGD) for CWS [-80B3]	Max Daily Withdrawal (MGD) for CWS [-80B3]	At least one Average Monthly value (MGD) for CWS? [-80B4] (1=Yes,0=No)	Estimated Annual Average (MG) [80B4,80B6, 80B7, 80B8, 80C, 80D, 80E]
WSP Community Water System	Indian River Water Co - Aqua Virginia, Inc.	0.116	0	1	42.49
WSP Community Water System	Ivor, Town of	0.055	0.074	1	20.58
WSP Community Water System	James City Service Authority - Central System	5.82	10.998	1	1 837.11000
WSP Community Water System	James City Service Authority - Glenwood Acres	0.006	0.011	1	2.28
WSP Community Water System	James City Service Authority - Kings Village	0.01	0.021	1	3.77
WSP Community Water System	James City Service Authority - Racefield	0.011	0.021	1	3.88
WSP Community Water System	James City Service Authority - Retreat	0.014	0.038	1	5.17
WSP Community Water System	James City Service Authority - Stonehouse	0	0	0	
WSP Community Water System	James City Service Authority - Upper County				SYSTEM ELIMINATED
WSP Community Water System	James City Service Authority - Ware Creek Manor	0.012	0.022	1	4.38
WSP Community Water System	James City Service Authority - Wexford Hills	0.028	0.053	1	10.05
WSP Community Water System	James River Shores	0.012	0.017	1	4.38
WSP Community Water System	Kingsdale Subdivision (Artis)	0.006	0	1	2.19
WSP Community Water System	Kingsdale Subdivision (Moseley)	0.003	0	1	1.095
WSP Community Water System	Laurelwood Estates Trailer Park	0.001	0	1	3.72
WSP Community Water System	Lawne's Point				SERVED 4 CONNECTIONS, 10 PEOPLE IN 2010; GW0047000
WSP Community Water System	Little Creek Amphibious Base - US Navy				NUMBERS INCLUDED WITH CITY OF NORFOLK
WSP Community Water System	Longview Acres	0.014	0.028	1	5.11
WSP Community Water System	NAS Oceana - US Navy				NUMBERS INCLUDED WITH CITY OF NORFOLK
WSP Community Water System	Naval Support Activity - NW Annex	0.11	0.17	1	39.89
WSP Community Water System	Newport Development Service District				NUMBERS INCLUDED WITH WTWA

HRPDC DATA CHECK

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WSP Community Water System	Newport News Waterworks	51.63	67.39	1	18 843.20000
WSP Community Water System	Newport News Waterworks - Lightfoot / Skimino Hills	0.328	0.46	1	119.87
WSP Community Water System	Newsoms, Town of	0.037	0	1	13.57
WSP Community Water System	Norfolk Naval Base	NUMBERS INCLUDED WITH CITY OF NORFOLK			
WSP Community Water System	Norfolk Naval Shipyard	NUMBERS INCLUDED WITH CITY OF NORFOLK			
WSP Community Water System	Norfolk, City of	79	101.73	1	7 093.61000
WSP Community Water System	Norfolk, City of - In-Town Reservoirs	NUMBERS INCLUDED WITH CITY OF NORFOLK			
WSP Community Water System	Norfolk, City of - Western Branch Reservoirs	NUMBERS INCLUDED WITH CITY OF NORFOLK			
WSP Community Water System	Nottoway Gardens	0.02	0.039	1	7.2
WSP Community Water System	Nottoway Shores	0.008	0	1	2.92
WSP Community Water System	Owen's Subdivision	0.008	0	1	2.92
WSP Community Water System	Plantation Mobile Home Park	0.007	0	1	2.55
WSP Community Water System	Portsmouth, City of	16.85	20.65	1	5 098.70000
WSP Community Water System	Queen Anne's Court	0.009	0	1	3.285
WSP Community Water System	R&L Trailer Park	0.004	0	1	0.97
WSP Community Water System	Red Oaks Mobile Community	0.039	0.087	1	14.2
WSP Community Water System	Rescue Waterworks	0.011	0.017	1	4.1
WSP Community Water System	Rollingwood	0	0	0	

HRPDC DATA CHECK

Type	System Name	Avg. Daily Withdrawal (MGD) for CWS [-80B3]	Max Daily Withdrawal (MGD) for CWS [-80B3]	At least one Average Monthly value (MGD) for CWS? [-80B4] (1=Yes,0=No)	Estimated Annual Average (MG) [80B4,80B6, 80B7, 80B8, 80C, 80D, 80E]
WSP Community Water System	Rushmere - Burwell's Bay	0.011	0	1	4.13
WSP Community Water System	Rushmere Shores	0.006	0.009	1	2.19
WSP Community Water System	Scotland Heights	0.012	0	1	4.38
WSP Community Water System	Scottswood Subdivision	0.03	0	1	13.15
WSP Community Water System	Sedley	0.028	0	1	12.94
WSP Community Water System	Shodon Mobile Estates	0.002	0	1	3.14
WSP Community Water System	Silverleaf Mobile Home Park	0.01	0	1	3.65
WSP Community Water System	Smithfield Apartments	0.009	0.015	1	3.285
WSP Community Water System	Smithfield Heights - Sandy Mount Manor	0.029	0	1	10.6
WSP Community Water System	Smithfield Mobile Home Park	0.008	0	1	2.92
WSP Community Water System	Smithfield, Town of	0.908	1.967	1	331.3
WSP Community Water System	Southampton - Boykins-Branchville System	0.05	0	1	40.47
WSP Community Water System	Southampton - Drewryville System	0.011	0	1	3.86
WSP Community Water System	Southampton - Edgehill System	0.018	0	1	6.77
WSP Community Water System	Southampton Correctional Complex	0.268	0.295	1	101.06

HRPDC DATA CHECK

Type	System Name	Avg. Daily Withdrawal (MGD) for CWS [-80B3]	Max Daily Withdrawal (MGD) for CWS [-80B3]	At least one Average Monthly value (MGD) for CWS? [-80B4] (1=Yes,0=No)	Estimated Annual Average (MG) [80B4,80B6, 80B7, 80B8, 80C, 80D, 80E]
WSP Community Water System	Southampton County Jail Farm	0.006	0.008	1	2.19
WSP Community Water System	Southampton Meadows Mobile Home Park	0.067	0.094	1	24.15
WSP Community Water System	Springfield Downs Subdivision	0.012	0.019	1	4.38
WSP Community Water System	Suffolk, City of - G. Robert House WTP	0	0	0	
WSP Community Water System	Suffolk, City of - Holland System	0.039	0.056	1	14.3
WSP Community Water System	Suffolk, City of - Main System (Western Tidewater Water Authority)	4.99	10.75	1	2 792.88000
WSP Community Water System	Suffolk, City of - Whaleyville	0.041	0.092	1	14.85
WSP Community Water System	Sunray Artesian Water Supply	0.004	0.007	1	1.46
WSP Community Water System	Sunray Water Company	0.005	0	1	1.825
WSP Community Water System	Surry, Town of	0.049	0.057	1	20.76
WSP Community Water System	The Oaks Mobile Estates Trailer Court	0.011	0	1	4.015
WSP Community Water System	Thomas Park Community	0.005	0.15	1	1.819
WSP Community Water System	Tormentor Creek Estates	0.005	0	1	1.825
WSP Community Water System	Turner Property	0.007	0.013	1	2.555
WSP Community Water System	VDOC - Saint Brides Correctional Center	0.228	0	1	83.32
WSP Community Water System	Virginia Beach, City of	36.066	60.05	1	13 236.30000
WSP Community Water System	Waterview Mobile Home Park	0.008	0.26	1	3.07
WSP Community Water System	White Tail Park	0.008	0	1	2.93

