Attachment 1A
MEETING SUMMARY
MEETING OF
DIRECTORS OF UTILITIES COMMITTEE
August 7, 2013
Chesapeake

1. Summary of the June 5, 2013 Joint Meeting of the Directors of Utilities Committee, Health Directors, and Emergency Managers

The Committee did not meet in July 2013. There were no comments on, or revisions to the summary of the June 5, 2013 joint meeting.

ACTION: The summary of the June 5, 2013 joint meeting of the Directors of Utilities Committee, Health Directors, and Emergency Managers was approved.

2. Hampton Roads Regional Water Supply Plan

HRPDC staff summarized the July 24, 2013 meeting with Department of Environmental Quality staff to review the agency's tentative compliance review of the Hampton Roads Regional Water Supply Plan. DEQ is compiling information from all water supply plans into a database to support future plan updates and the State Water Supply Plan. DEQ requested that HRPDC provide three items required for compliance within 60 days and has flagged other items to be addressed in the next iteration of the Plan. A copy of the response letter to DEQ will be provided to the Committee.

ACTION: No action.

3. Water and Wastewater Rate Structures Project

Hard copies of the pre-final water and wastewater rate structures report and two page summary were provided to the Committee for review and comment through August 16, 2013. The Committee agreed on the report title of "Water and Wastewater Utilities, Designing the Rate Structure of the Future." The final report will be provided to the HRPDC Executive Committee as part of the agenda packet for the September 19, 2013 Commission meeting.

The HRPDC staff presented the draft project presentation to the region's Chief Administrative Officers (CAOs) on July 18, 2013 and solicited general feedback in preparation for the September 19, 2013 presentation to the HRPDC Executive Committee. The CAOs had no suggestions for changes or edits. HRPDC reviewed the presentation with the Committee. Suggestions included edits to the chart comparing utility and service bills across sectors and the regional utility objectives. The Committee noted that, although Council reactions to fixed fees and fee impacts will vary across localities, it is important to emphasize that current rate structures are not sustainable.

Gloucester, HRSD, JCSA, and Norfolk currently do not have fixed components of utility bills. Newport News Waterworks' noted that the utility's new bimonthly fixed fee of $22 still provides service to users at less than $1 per day and that this comparison is effective in communicating the value of service to customers. The Committee may consider including development of a customer education strategy in the FY14 work plan.

ACTION: No action.

4. Groundwater Program Proposed by Mission H2O Virginia

HRPDC staff provided background information on Mission H20 Virginia, a group that tracks water supply issues and comments on regulatory proposals on behalf of the membership consisting of industrial, commercial and municipal users, and utilities. Mission H2O Virginia has invited the HRPDC Directors of Utilities Committee to participate as a member in a new groundwater initiative. The Committee discussed Mission H2O Virginia's desire to help develop alternatives and guidance through a future advisory committee and the group's proposal to use groundwater simulations to demonstrate the need for different permit evaluation criteria to protect groundwater in sensitive areas along the fall line.

General interest was expressed by the Committee, but more information on membership dues is required. It was noted that the initiative has regional importance and that an HRPDC representative may be advantageous. HRPDC staff will confirm the membership requirements and follow up with Committee members regarding the decision on participation.

ACTION: No action.

5. Regional Sanitary Sewer System Asset Consolidation Study

HDR provided a summary of comments on the Regional Sewer Consolidation Study on August 6, 2013. The Committee discussed the comment regarding the potential for a regional approach to system improvements without transfer of assets to a regional entity. The Committee discussed policy and administrative issues and the timeline for local decisions and council actions by the end of February 2014.

ACTION: No action.

6. Staff Reports

- **Legislative Agenda:** HRPDC staff reviewed items from last year's legislative agenda that were of interest to utilities and asked to Committee to comment on whether any changes or additions should be incorporated into this year's

legislative agenda. The Committee did not have any new items, but noted the continued support of maintaining the moratorium on uranium mining.

At the Committee's request, HRPDC staff will share with Committee members any items developed for energy policies.

- **FY14 Work Program and FY15 Budget:** The draft budget for FY15 is the same as the FY14 budget and will be discussed at the September meeting. The suggestion was made to consider designating funds for consultant services.

  HRPDC staff reviewed potential ideas for the FY14 work program, including updating the Source Water Assessment Program, groundwater mitigation claims/MOA, outreach related to Rate Structure whitepaper, integrated planning, water supply plan updates or data collection, and follow up to UASI study. A list will be provided in advance of the September Committee meeting.

- **Business Continuity Plans for Water Utilities**: On June 17, 2013, the Water Research Foundation, AWWA, and U.S. EPA published a guidance document, template, and online training video modules for business continuity planning/continuity of operations planning for water utilities (access project information at http://www.waterrf.org/Pages/Projects.aspx?PID=4319). This guidance and template tool is consistent with Initiative 1D of the *Hampton Roads Water and Wastewater Systems Emergency Preparedness and Response Regional Improvement Plan* (December 2012), which recommended development of regional guidance for continuity of operations planning. The Committee will consider continuity planning for the FY14 work program.

- **AWWA survey on Water Demand Impact of the Recession**: AWWA is requesting utility member participation in a web-based survey about water demand impacts of the recent "Great Recession." The survey is part of a Water Research Foundation project entitled, "Water Demand Forecasting in Uncertain Times: Isolating the Effects of the Great Recession" (#4458). The survey closes on August 15, 2013 (link: https://www.surveymonkey.com/s/WaterRF4458).

ACTION: No action.

7. Other Business

- **American Public Works Association (APWA):** The APWA 2014 conference will be held in Newport News and the City asks for the Committees help and support. Ms. Judi Hines, Assistant Director of Newport News Public Works, is the incoming APWA president.

- **Bureau of Labor Statistics:** Suffolk Public Utilities was visited by the Bureau of Labor Statistics for purposes of reviewing water and sewer rates and rate structure information with respect to the consumer price index.

Committee Meeting Sign-In Sheet
August 7, 2013

Attachment 1B

Locality/Agency	Representative	Representative	Representative	Representative
HRSD	Ted Henifin			
Chesapeake	Dean Perry			
Franklin				
Gloucester	Martin Schlesinger			
Hampton	Jason Mitchell			
Isle of Wight				
James City County	Larry Foster			
Newport News	Scott Dewhirst			
Newport News	Reed Fowler			
Newport News	Everett Skipper			
Norfolk	Kristen Lentz			
Poquoson	Bob Speechley			
Portsmouth	Bryan Foster			
Smithfield				
Southampton				
Suffolk	Craig Ziesemer			
Surry				
Virginia Beach	Tom Leahy			
Williamsburg				
Windsor				
York	Brian Woodward			
HRPDC	Whitney Katchmark	Julia Hillegass	Tiffany Smith	
HRPDC				
New Kent				
DEQ				
EPA				
USGS				
VDH				
VDH				
VDH				
AECOM				
AquaLaw				
Brown & Caldwell				
CH2M-Hill				
Christian Barton				
CNA				
HDR				
Hurt & Proffitt, Inc.				
McGuire Woods				
Rice Associates				
REMSA				
Troutman Sanders				
Virginia Fusion Center				
Virginia WARN				
URS	Ali Mahan			
Watermark Risk Management				
Private citizens				

REGIONAL WASTEWATER PROGRAM
FY 2013-2014 BUDGET

Locality	Sewer Accounts - July 2012	Percent	239000 Technical Support	239000/71000 SSORS Consultant	Wastewater Subtotal	239200 HR FOG Direct	239300 HR FOG Staff	239300/71000 HR FOG Consultant	HR FOG Subtotal	PROGRAM TOTAL
			$84,000	$25,000	$109,000	$50,000	$64,771	$30,000	$144,771	$253,771
Chesapeake	60,449	6.48%	$ 5,445.32	$ 1,620.63	$7,065.96	$ 3,241.26	$ 4,198.80	$ 1,944.76	$9,384.82	$16,450.78
Franklin	3,460	0.37%	$ 311.68	$ 92.76	$404.44	$ 185.52	$ 240.33	$ 111.31	$537.17	$941.62
Gloucester	1,302	0.14%	$ 117.29	$ 34.91	$152.19	$ 69.81	$ 90.44	$ 41.89	$202.14	$354.33
Hampton	44,253	4.75%	$ 3,986.37	$ 1,186.42	$5,172.79	$ 2,372.84	$ 3,073.82	$ 1,423.70	$6,870.36	$12,043.15
Isle of Wight	2,297	0.25%	$ 206.92	$ 61.58	$268.50	$ 123.16	$ 159.55	$ 73.90	$356.61	$625.11
James City Cty	21,488	2.30%	$ 1,935.67	$ 576.09	$2,511.76	$ 1,152.18	$ 1,492.56	$ 691.31	$3,336.05	$5,847.81
Newport News	54,197	5.81%	$ 4,882.14	$ 1,453.02	$6,335.15	$ 2,906.03	$ 3,764.53	$ 1,743.62	$8,414.19	$14,749.34
Norfolk	62,365	6.69%	$ 5,617.92	$ 1,672.00	$7,289.92	$ 3,344.00	$ 4,331.88	$ 2,006.40	$9,682.28	$16,972.21
Poquoson	4,724	0.51%	$ 425.54	$ 126.65	$552.19	$ 253.30	$ 328.13	$ 151.98	$733.41	$1,285.60
Portsmouth	31,598	3.39%	$ 2,846.39	$ 847.14	$3,693.53	$ 1,694.28	$ 2,194.80	$ 1,016.57	$4,905.65	$8,599.18
Smithfield	3,356	0.36%	$ 302.31	$ 89.97	$392.29	$ 179.95	$ 233.11	$ 107.97	$521.03	$913.31
Southampton	1,289	0.14%	$ 116.11	$ 34.56	$150.67	$ 69.12	$ 89.53	$ 41.47	$200.12	$350.79
Suffolk	20,921	2.24%	$ 1,884.59	$ 560.89	$2,445.48	$ 1,121.78	$ 1,453.18	$ 673.07	$3,248.03	$5,693.51
Surry	-	0.00%	$ -	$ -	$0.00	$ -	$ -	$ -	$0.00	$0.00
Virginia Beach	130,818	14.03%	$ 11,784.26	$ 3,507.22	$15,291.47	$ 7,014.44	$ 9,086.64	$ 4,208.66	$20,309.74	$35,601.22
Williamsburg	2,870	0.31%	$ 258.53	$ 76.94	$335.48	$ 153.89	$ 199.35	$ 92.33	$445.57	$781.05
York County	23,104	2.48%	$ 2,081.24	$ 619.42	$2,700.65	$ 1,238.83	$ 1,604.81	$ 743.30	$3,586.94	$6,287.59
Subtotal	*468,491*	50.24%	$ 42,202.28	$ 12,560.20	*$54,762.48*	$ 25,120.40	$ 32,541.47	$ 15,072.24	*$72,734.12*	*$127,496.60*
HRSD	464,000	49.76%	$ 41,797.72	$ 12,439.80	$54,237.52	$ 24,879.60	$ 32,229.53	$ 14,927.76	$72,036.88	$126,274.40
Total	932,491	100.00%	$ 84,000.00	$ 25,000.00	$109,000.00	$ 50,000.00	$ 64,771.00	$ 30,000.00	$144,771.00	$253,771.00

Note: All Amounts allocated according to local share of total regional active sewer accounts.
Accounts reported as of 07/12.

SSORS budget was reduced from $35,000 to $25,000 based on past maintenance needs.
FOG Consultant was reduced from $50,000 to $30,000 based on reduced maintenance needs.

REGIONAL WASTEWATER PROGRAM
DRAFT FY 2014-2015 BUDGET

Locality	Sewer Accounts - July 2012	Percent	239000 Technical Support	239000/71000 SSORS Consultant	Wastewater Subtotal	239200 HR FOG Direct	239300 HR FOG Staff	239300/71000 HR FOG Consultant	HR FOG Subtotal	PROGRAM TOTAL
			$84,000	$25,000	$109,000	$50,000	$64,771	$30,000	$144,771	$253,771
Chesapeake	60,449	6.48%	$ 5,445.32	$ 1,620.63	$7,065.96	$ 3,241.26	$ 4,198.80	$ 1,944.76	$9,384.82	$16,450.78
Franklin	3,460	0.37%	$ 311.68	$ 92.76	$404.44	$ 185.52	$ 240.33	$ 111.31	$537.17	$941.62
Gloucester	1,302	0.14%	$ 117.29	$ 34.91	$152.19	$ 69.81	$ 90.44	$ 41.89	$202.14	$354.33
Hampton	44,253	4.75%	$ 3,986.37	$ 1,186.42	$5,172.79	$ 2,372.84	$ 3,073.82	$ 1,423.70	$6,870.36	$12,043.15
Isle of Wight	2,297	0.25%	$ 206.92	$ 61.58	$268.50	$ 123.16	$ 159.55	$ 73.90	$356.61	$625.11
James City Cty	21,488	2.30%	$ 1,935.67	$ 576.09	$2,511.76	$ 1,152.18	$ 1,492.56	$ 691.31	$3,336.05	$5,847.81
Newport News	54,197	5.81%	$ 4,882.14	$ 1,453.02	$6,335.15	$ 2,906.03	$ 3,764.53	$ 1,743.62	$8,414.19	$14,749.34
Norfolk	62,365	6.69%	$ 5,617.92	$ 1,672.00	$7,289.92	$ 3,344.00	$ 4,331.88	$ 2,006.40	$9,682.28	$16,972.21
Poquoson	4,724	0.51%	$ 425.54	$ 126.65	$552.19	$ 253.30	$ 328.13	$ 151.98	$733.41	$1,285.60
Portsmouth	31,598	3.39%	$ 2,846.39	$ 847.14	$3,693.53	$ 1,694.28	$ 2,194.80	$ 1,016.57	$4,905.65	$8,599.18
Smithfield	3,356	0.36%	$ 302.31	$ 89.97	$392.29	$ 179.95	$ 233.11	$ 107.97	$521.03	$913.31
Southampton	1,289	0.14%	$ 116.11	$ 34.56	$150.67	$ 69.12	$ 89.53	$ 41.47	$200.12	$350.79
Suffolk	20,921	2.24%	$ 1,884.59	$ 560.89	$2,445.48	$ 1,121.78	$ 1,453.18	$ 673.07	$3,248.03	$5,693.51
Surry	-	0.00%	$ -	$ -	$0.00	$ -	$ -	$ -	$0.00	$0.00
Virginia Beach	130,818	14.03%	$ 11,784.26	$ 3,507.22	$15,291.47	$ 7,014.44	$ 9,086.64	$ 4,208.66	$20,309.74	$35,601.22
Williamsburg	2,870	0.31%	$ 258.53	$ 76.94	$335.48	$ 153.89	$ 199.35	$ 92.33	$445.57	$781.05
York County	23,104	2.48%	$ 2,081.24	$ 619.42	$2,700.65	$ 1,238.83	$ 1,604.81	$ 743.30	$3,586.94	$6,287.59
Subtotal	*468,491*	50.24%	$ 42,202.28	$ 12,560.20	*$54,762.48*	$ 25,120.40	$ 32,541.47	$ 15,072.24	*$72,734.12*	*$127,496.60*
HRSD	464,000	49.76%	$ 41,797.72	$ 12,439.80	$54,237.52	$ 24,879.60	$ 32,229.53	$ 14,927.76	$72,036.88	$126,274.40
Total	932,491	100.00%	$ 84,000.00	$ 25,000.00	$109,000.00	$ 50,000.00	$ 64,771.00	$ 30,000.00	$144,771.00	$253,771.00

Note: All Amounts allocated according to local share of total regional active sewer accounts.
Accounts reported as of 07/12.

As of August 2013, HRPDC has a reserve fund of $9K for the Technical Support/SSORS.

REGIONAL WATER PROGRAM BUDGET WORKSHEET
FINAL FY 2013-2014 BUDGET

			$97,000.00	$64,771.00	$7,500.00	$20,000.00	$0.00	$187,000.00		$376,271.00		$ (50,000.00)	$326,271.00
			HR WET					Water Technical Staff					
Water Utility	Active Water Accounts	Percent	234300 Direct (media, materials)	234000 Staff	235500 Water Quality Advertise	235700 H2O Envelopes	USGS	Base (30% budget divided in equal parts)	Pro Rata (70% budget based on % accts)	Total Program Budget	Percentage of Total Program Budget (%)	Adjustment (reserve funds credited based on % of Total Budget)	Total Contribution
Chesapeake	62,333	13.17%	$ 12,772.16	$ 8,528.51	$ 987.54	$ 2,633.43	$ -	$ 3,073.33	$ 17,235.83	$ 45,230.80	12.02%	$ (6,010.40)	$ 39,220.40
Franklin	3,500	0.74%	$ 717.16	$ 478.88	$ 55.45	$ 147.87	$ -	$ 3,073.33	$ 967.79	$ 5,440.48	1.45%	$ (722.95)	$ 4,717.53
Gloucester	4,525	0.96%	$ 927.18	$ 619.12	$ 71.69	$ 191.17	$ -	$ 3,073.33	$ 1,251.22	$ 6,133.71	1.63%	$ (815.07)	$ 5,318.65
Hampton	0	0.00%	$ -	$ -	$ -	$ -	$ -	$ 3,073.33	$ -	$ 3,073.33	0.82%	$ (408.39)	$ 2,664.94
Isle of Wight	2,921	0.62%	$ 598.52	$ 399.66	$ 46.28	$ 123.41	$ -	$ 3,073.33	$ 807.69	$ 5,048.88	1.34%	$ (670.91)	$ 4,377.97
James City Cty	20,070	4.24%	$ 4,112.38	$ 2,746.01	$ 317.97	$ 847.91	$ -	$ 3,073.33	$ 5,549.60	$ 16,647.21	4.42%	$ (2,212.13)	$ 14,435.08
Newport News	117,634	24.85%	$ 24,103.44	$ 16,094.89	$ 1,863.67	$ 4,969.78	$ -	$ 3,073.33	$ 32,527.22	$ 82,632.34	21.96%	$ (10,980.43)	$ 71,651.91
Norfolk	64,440	13.61%	$ 13,203.89	$ 8,816.79	$ 1,020.92	$ 2,722.45	$ -	$ 3,073.33	$ 17,818.44	$ 46,655.82	12.40%	$ (6,199.76)	$ 40,456.06
Poquoson	0	0.00%	$ -	$ -	$ -	$ -	$ -	$ 3,073.33	$ -	$ 3,073.33	0.82%	$ (408.39)	$ 2,664.94
Portsmouth	31,990	6.76%	$ 6,554.82	$ 4,376.93	$ 506.82	$ 1,351.51	$ -	$ 3,073.33	$ 8,845.62	$ 24,709.02	6.57%	$ (3,283.41)	$ 21,425.61
Southampton	830	0.18%	$ 170.07	$ 113.56	$ 13.15	$ 35.07	$ -	$ 3,073.33	$ 229.51	$ 3,634.68	0.97%	$ (482.99)	$ 3,151.70
Smithfield	3,135	0.66%	$ 642.37	$ 428.94	$ 49.67	$ 132.45	$ -	$ -	$ 866.87	$ 2,120.28	0.56%	$ (281.75)	$ 1,838.53
Suffolk	24,729	5.22%	$ 5,067.02	$ 3,383.46	$ 391.78	$ 1,044.75	$ -	$ 3,073.33	$ 6,837.87	$ 19,798.21	5.26%	$ (2,630.85)	$ 17,167.37
Surry	0	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00%	$ -	$ -
Virginia Beach	133,100	28.12%	$ 27,272.46	$ 18,210.97	$ 2,108.70	$ 5,623.19	$ -	$ 3,073.33	$ 36,803.76	$ 93,092.41	24.74%	$ (12,370.39)	$ 80,722.01
Williamsburg	4,190	0.89%	$ 858.54	$ 573.28	$ 66.38	$ 177.02	$ -	$ 3,073.33	$ 1,158.59	$ 5,907.14	1.57%	$ (784.96)	$ 5,122.18
York County	0	0.00%	$ -	$ -	$ -	$ -	$ -	$ 3,073.33	$ -	$ 3,073.33	0.82%	$ (408.39)	$ 2,664.94
HRSD								$ 10,000.00	$ -	$ 10,000.00	2.66%	$ (1,328.83)	$ 8,671.17
Total	473,397	100.00%	$ 97,000.00	$ 64,771.00	$ 7,500.00	$ 20,000.00	$ -	$ 56,100.00	$ 130,900.00	$ 376,271.00	100.00%	$ (50,000.00)	$ 326,271.00

Note: All Elements are allocated according to local share of active water accounts except Water Technical Staff.
Water Technical Staff combines Groundwater Management, Regulatory Assistance, Priority Projects and HR SWAP. Budget was reduced by $40,000 to reflect shift in workload from Drinking Water to Stormwater issues.

1) Base is 30% of the budget divided into equal share for 15 participating localities plus $10,000 from HRSD.
2) Pro Rata allocated remaining budget based on percentage of active water accounts.

Adjustment: Transfer $50,000 from program reserve funds to FY14 program budget (recommendation from 10-3-2012 Committee meeting).
Surry County is not participating.
Active Water Accounts based on Local reporting as of 07/12.

REGIONAL WATER PROGRAM BUDGET WORKSHEET
DRAFT FY 2014-2015 BUDGET

			$97,000.00	$64,771.00	$7,500.00	$20,000.00	$0.00	$187,000.00		$376,271.00		$ (50,000.00)	$326,271.00
			HR WET					Water Technical Staff					
Water Utility	Active Water Accounts	Percent	234300 Direct (media, materials)	234000 Staff	235500 Water Quality Advertise	235700 H2O Envelopes	USGS	Base (30% budget divided in equal parts)	Pro Rata (70% budget based on % accts)	Total Program Budget	Percentage of Total Program Budget (%)	Adjustment (reserve funds credited based on % of Total Budget)	Total Contribution
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Franklin	3,500	0.74%	$ 717.16	$ 478.88	$ 55.45	$ 147.87	$ -	$ 3,073.33	$ 967.79	$ 5,440.48	1.45%	$ (722.95)	$ 4,717.53
Gloucester	4,525	0.96%	$ 927.18	$ 619.12	$ 71.69	$ 191.17	$ -	$ 3,073.33	$ 1,251.22	$ 6,133.71	1.63%	$ (815.07)	$ 5,318.65
Hampton	0	0.00%	$ -	$ -	$ -	$ -	$ -	$ 3,073.33	$ -	$ 3,073.33	0.82%	$ (408.39)	$ 2,664.94
Isle of Wight	2,921	0.62%	$ 598.52	$ 399.66	$ 46.28	$ 123.41	$ -	$ 3,073.33	$ 807.69	$ 5,048.88	1.34%	$ (670.91)	$ 4,377.97
James City Cty	20,070	4.24%	$ 4,112.38	$ 2,746.01	$ 317.97	$ 847.91	$ -	$ 3,073.33	$ 5,549.60	$ 16,647.21	4.42%	$ (2,212.13)	$ 14,435.08
Newport News	117,634	24.85%	$ 24,103.44	$ 16,094.89	$ 1,863.67	$ 4,969.78	$ -	$ 3,073.33	$ 32,527.22	$ 82,632.34	21.96%	$ (10,980.43)	$ 71,651.91
Norfolk	64,440	13.61%	$ 13,203.89	$ 8,816.79	$ 1,020.92	$ 2,722.45	$ -	$ 3,073.33	$ 17,818.44	$ 46,655.82	12.40%	$ (6,199.76)	$ 40,456.06
Poquoson	0	0.00%	$ -	$ -	$ -	$ -	$ -	$ 3,073.33	$ -	$ 3,073.33	0.82%	$ (408.39)	$ 2,664.94
Portsmouth	31,990	6.76%	$ 6,554.82	$ 4,376.93	$ 506.82	$ 1,351.51	$ -	$ 3,073.33	$ 8,845.62	$ 24,709.02	6.57%	$ (3,283.41)	$ 21,425.61
Southampton	830	0.18%	$ 170.07	$ 113.56	$ 13.15	$ 35.07	$ -	$ 3,073.33	$ 229.51	$ 3,634.68	0.97%	$ (482.99)	$ 3,151.70
Smithfield	3,135	0.66%	$ 642.37	$ 428.94	$ 49.67	$ 132.45	$ -	$ -	$ 866.87	$ 2,120.28	0.56%	$ (281.75)	$ 1,838.53
Suffolk	24,729	5.22%	$ 5,067.02	$ 3,383.46	$ 391.78	$ 1,044.75	$ -	$ 3,073.33	$ 6,837.87	$ 19,798.21	5.26%	$ (2,630.85)	$ 17,167.37
Surry	0	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00%	$ -	$ -
Virginia Beach	133,100	28.12%	$ 27,272.46	$ 18,210.97	$ 2,108.70	$ 5,623.19	$ -	$ 3,073.33	$ 36,803.76	$ 93,092.41	24.74%	$ (12,370.39)	$ 80,722.01
Williamsburg	4,190	0.89%	$ 858.54	$ 573.28	$ 66.38	$ 177.02	$ -	$ 3,073.33	$ 1,158.59	$ 5,907.14	1.57%	$ (784.96)	$ 5,122.18
York County	0	0.00%	$ -	$ -	$ -	$ -	$ -	$ 3,073.33	$ -	$ 3,073.33	0.82%	$ (408.39)	$ 2,664.94
HRSD								$ 10,000.00	$ -	$ 10,000.00	2.66%	$ (1,328.83)	$ 8,671.17
Total	473,397	100.00%	$ 97,000.00	$ 64,771.00	$ 7,500.00	$ 20,000.00	$ -	$ 56,100.00	$ 130,900.00	$ 376,271.00	100.00%	$ (50,000.00)	$ 326,271.00

Note: All Elements are allocated according to local share of active water accounts except Water Technical Staff.
Water Technical Staff:
1) Base is 30% of the budget divided into equal share for 15 participating localities plus $10,000 from HRSD.
2) Pro Rata allocated remaining budget based on percentage of active water accounts.

Adjustment: Transfer $50,000 from program reserve funds to FY14 program budget (recommendation from 10-3-2012 Committee meeting).
Surry County is not participating.
Active Water Accounts based on Local reporting as of 07/12.
As of August 2013, HRPDC has a reserve fund of approximately $320K for Water Technical Staff.

HAMPTON ROADS PDC
PLANNING DISTRICT COMMISSION
THOMAS G. SHEPPERD, JR., CHAIRMAN • KENNETH I. WRIGHT, VICE CHAIR • JAMES O. McREYNOLDS, TREASURER
DWIGHT L. FARMER, EXECUTIVE DIRECTOR/SECRETARY

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CHESAPEAKE
FRANKLIN
GLOUCESTER
HAMPTON
ISLE OF WIGHT
JAMES CITY
NEWPORT NEWS
NORFOLK
POQUOSON
PORTSMOUTH
SOUTHAMPTON
SUFFOLK
SURRY
VIRGINIA BEACH
WILLIAMSBURG
YORK

August 27, 2013

Ms. Tammy Stephenson
Program Coordinator
Water Supply Planning Program
Office of Water Supply
Virginia Department of Environmental Quality
PO Box 1105
Richmond, VA 23218

RE: Hampton Roads Regional Water Supply Plan Compliance Evaluation

Dear Ms. Stephenson:

The Hampton Roads Planning District Commission (HRPDC) staff appreciates the opportunity to respond to the Department of Environmental Quality (DEQ), Office of Water Supply's request for information as detailed in DEQ's draft "Compliance Checklist for Review of Local and Regional Water Supply Plan Program Documents" (Compliance Checklist), transmitted to the HRPDC staff on July 22, 2013 and revised on August 2, 2013.

The HRPDC, on behalf of member localities, submitted the Hampton Roads Regional Water Supply Plan to DEQ on October 31, 2011. HRPDC staff and DEQ staff met on July 24, 2013 to review the draft Compliance Checklist and compliance recommendations. The information provided herein is offered as follow up to the meeting and in response to DEQ staff's recommendations. The HRPDC kindly requests the addition of this letter and attachments to DEQ's administrative record for evaluating the Hampton Roads Regional Water Supply Plan's compliance with local program elements required by §9 VAC 25-780, et seq., the Local and Regional Water Supply Planning regulation.

The three items identified as "Requirements for Compliance" in Part IV of the draft Compliance Checklist (revised August 2, 2013) are addressed as follows:

1. *Provide data for agricultural self-supplied users withdrawing more than 300,000 gallons per month for Suffolk. See Part II, Section A.12 and A.15.*

Table 1-16, "2007 Self-Supplied Use > 300,000 gallons per month in Suffolk," is provided as **Attachment 1**.

2. *Section 9 VAC 25-780-50.C.2 of the Regulation requires "a description of existing water uses in accordance with the requirements of 9 VAC 25-780-80." 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 25-780-80 for all CWS's and SSU's in all localities OR provide a description of the data collection process and a list of resources accessed that resulted in a determination that this information was not readily available. See Part II, Section B and the items highlighted in red on the spreadsheet entitled "HRPDC_datack_080213.xlsx."*

Attachment 2A provides the requested description of the data collection process and list of resources accessed that resulted in a determination that certain categories of water use information is not readily available. The categories affected by data gaps are discussed.

DEQ staff provided the HRPDC staff with a data check worksheet (*"HRPDC_datack_080213.xlsx"*) for water use information. As requested, HRPDC staff has inputted information in the red highlighted cells and is submitting the updated worksheet as **Attachment 2B**. Please note that some of the water use data shown in DEQ's data check worksheet is incorrect. The updated worksheet includes corrections based on the Hampton Roads Regional Water Supply Plan text and Appendix A; comments indicating the location of the correct data in the Plan are included.

3. *Provide 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. See Part II, Section D.9.*

Attachment 3 provides the requested explanation of how demand projections account for domestic consumption, in-stream uses, and economic development.

Per DEQ staff instructions, electronic copies of this letter and enclosures are transmitted to you and Ms. Heather Mackey, DEQ Water Supply Planner, via email.

If you have any questions or need further information, please do not hesitate to contact Whitney Katchmark, Principal Water Resources Engineer, by phone at (757) 366-4342 or by email at wkatchmark@hrpdcva.gov.

Sincerely,

Dwight L. Farmer

Dwight L. Farmer
Executive Director/Secretary

TS/jc

Attachments

cc: Heather Mackey, DEQ Office of Water Supply

Attachment 1

Table 1-16, "2007 Self-Supplied Use > 300,000 gallons per month in Suffolk"
Hampton Roads Regional Water Supply Plan

Comments from DEQ draft compliance checklist, Part IV.A.1:

Provide data for agricultural self-supplied users withdrawing more than 300,000 gallons per month for Suffolk (Table 1-16). See Part II, Section A.12 and A.15.

HRPDC Response:

Table 1-16 is provided below:

Table 1- 16: 2007 Self-Supplied Use > 300,000 gallons per month in Suffolk

Business	Source Water	Type of Use	Within PWS Service Area	Groundwater Withdrawal Permit (mgd)
Albert G Horton, Jr Veterans Cemetery	Groundwater	Commercial	No	0.02
Cedar Point Golf Course	Lake	Commercial	Yes	Not applicable
Ciba Specialty Chemicals	Groundwater	Manufacturing	Yes	3.6
SPSA Regional Landfill	Groundwater	Manufacturing	Yes	1.4
Bennetts Creek Nursery	Groundwater & Ponds	Agriculture	No	No
Williams Cattle Co LLC	Ponds	Agriculture	Yes	Not applicable

Attachment 2A

Description of Data Collection Process and Resources Accessed
Water Use Information
Hampton Roads Regional Water Supply Plan

Comments from DEQ draft compliance checklist, Part IV.A.2:

Section 9 VAC 25-780-50.C.2 of the Regulation requires "a description of existing water uses in accordance with the requirements of 9 VAC 25-780-80." 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 25-780-80 for all CWS's and SSU's in all localities OR provide a description of the data collection process and a list of resources accessed that resulted in a determination that this information was not readily available. See Part II, Section B and the items highlighted in red on the spreadsheet entitled "HRPDC_datack_080213.xlsx."

HRPDC Response:

To address this section of the regulation, HRPDC staff reviewed and compiled water use information obtained from DEQ, the Virginia Department of Health, and local water utility departments. All available water use information compiled from these sources is included in the Hampton Roads Regional Water Supply Plan, Appendix A (Department of Environmental Quality Data Sheets for Local and Regional Water Supply Planning Criteria, Existing Water Source (9 VAC 25-780-70) and Existing Water Use (9 VAC 25-780-80) Information).

Data Sources:

The Hampton Roads Regional Water Supply Plan, Section 2 - Existing Water Use, describes water use information in accordance with 9 VAC 25-780-80. Water use information was collected from the following data sources:

- Virginia Department of Environmental Quality (DEQ): Groundwater withdrawal permit database; surface water withdrawal permit data base; groundwater permit compliance reports; and water use reports.

- Virginia Department of Health (VDH): Public water system water use reports; waterworks permit compliance reports; "QuickLook" reports by locality, Engineering Description Sheets for all of the non-municipally-owned community water systems (CWSs), and Source Water Assessment Reports.

- Local municipal water utilities: Water source and water use information requests to individual utilities; utility infrastructure master plans and assessment reports; water sales and service contracts between utilities; and groundwater permits and permit application materials.

- U.S. Geological Survey (USGS): Scientific Investigations Report 2007-5250, "Private Domestic–Well Characteristics and the Distribution of Domestic Withdrawals among Aquifers in the Virginia Coastal Plain."

Data Collection Process:

The data collection and review process completed by HRPDC staff is described as follows:

- HRPDC made several data requests to DEQ to obtain information from the agency's groundwater withdrawal permit database. DEQ provided multiple database exports with information on permitted facilities, including permit number, owner, facility name, locality, yearly and monthly permitted withdrawals, well number and type, well status and available depth and screening information, end use type (e.g., public water system, industrial, commercial, etc.), and available reported water use information (monthly, annual, maximum daily and monthly).

- HRPDC made additional DEQ data requests to obtain information on permitted surface water withdrawals. DEQ provided database exports with information on permitted systems, including owner name, source, location coordinates, locality, end use, watershed unit code, and available monthly and annual reported water use information. Agricultural users are only required to report use of 1 million gallons or more per month.

- HRPDC downloaded the list of waterworks and owners from VDH's website. HRPDC also requested from VDH information on privately-owned CWSs. VDH provided Engineering Description Sheets for all of the non-municipally-owned CWSs (hardcopies); these sheets provide available information on permitted capacity.

- HRPDC requested VDH survey reports to get information on the population served and number of connections served by all active public water systems. In response, VDH ran a database report to generate a "QuickLook" printout for each locality in the planning area. The QuickLook printout lacks information on average use.

- HRPDC requested Source Water Assessment Reports for each locality in the planning area. Reports were provided by VDH.

- HRPDC reviewed the 2008 USGS Scientific Investigations Report 2007-5250, "Private Domestic–Well Characteristics and the Distribution of Domestic Withdrawals among Aquifers in the Virginia Coastal Plain." USGS conducted a comprehensive analysis of private domestic well withdrawals in the Coastal Plain, and study results indicate that these withdrawals account for about 28 percent of all ground-water withdrawals in the area.

Through the data collection and review process, HRPDC staff found that some water use information is missing from DEQ and VDH databases and, therefore, HRPDC determined that the information is not readily available. The missing water use information is primarily associated with self-supplied users (SSUs) and small, privately-owned CWSs that do not regularly report their water use. These data gaps are characterized in the next section.

Data Gaps:

Data gaps exist for some categories of water use information. A discussion of data gaps by category is provided below.

Water Use Data Category	**Discussion of Data Gaps**
CWS Withdrawal Information - Average Daily Withdrawal (MGD) - Maximum Daily Withdrawal (MGD)	This information is supposed to be available from the DEQ Water Withdrawal Reports, Virginia Water Use Data System (VWUDS). Information for some privately-owned CWSs was missing from the DEQ data retrieval for the planning area. Information for several publicly-owned CWSs was also missing. It is assumed that the data was not reported to regulator and is therefore not readily available.
CWS Annual average and Average Monthly Water Use Information	This information is supposed to be available from VDH-ODW monthly permit compliance reports. Information for many privately-owned and some publicly-owned CWSs was missing from the VDH data retrieval for the planning area. It is assumed that the data was not reported to the regulator and is therefore not readily available.
CWS Peak Day Use (gpd and MGD) Information	This information is supposed to be available from VDH-ODW monthly permit compliance reports. Information for many privately-owned CWSs and several publicly-owned systems was missing from the VDH data retrieval for the planning area. It is assumed that the data was not reported to the regulator and is therefore not readily available. A peaking factor was applied in some cases to estimate the peak day use for some systems.
Self-Supplied, Non-Agricultural Use > 300,000 gallons per month of Surface Water - Estimated Annual Average Water Use (MGD)	This information is supposed to be available from the DEQ Water Withdrawal Reports, Virginia Water Use Data System (VWUDS). Information for many SSUs was missing from the DEQ data retrieval for the planning area. It is assumed that the data was not reported to regulator and is therefore not readily available.
Self-Supplied, Non-Agricultural Use > 300,000 gallons per month of Groundwater - Estimated Annual Average Water Use (MGD)	This information is supposed to be available from the DEQ Water Withdrawal Reports, Virginia Water Use Data System (VWUDS). Information for many SSUs was missing from the DEQ data retrieval for the planning area. It is assumed that the data was not reported to regulator and is therefore not readily available.

Below are a few examples from the text of the Hampton Roads Regional Water Supply Plan discussing data gaps:

- CWS use information not available:

  "Within the City of Suffolk, privately-owned CWSs served 243 people in 2007. The use for Hobson Village Waterworks and Hobson Mt. Lebanon Waterworks was not available from VDH or DEQ" (page 2-18).

- Groundwater withdrawal permit holders failed to report withdrawals in 2007:

  "Two users did not report withdrawals in 2007, but hold DEQ Ground Water Withdrawal Permits: Lancaster Farms, located in Suffolk, holds a permit for 0.03 mgd; and Norfolk City Nursery, located in Chesapeake, holds a permit for 0.007 mgd" (page 2-22).

- Systems that met the threshold for a DEQ groundwater withdrawal pemit, but did not hold permits in 2007:

  "In Isle of Wight County, 25 privately-owned CWS served 4,148 people and used 1.762 mgd of groundwater in 2007…Although 13 systems have withdrawals that meet the threshold for a DEQ Ground Water Withdrawal Permit, only 3 of the systems held a permit in 2007" (page 2-30).

  "In 2007, 13 privately-owned CWS operate in Southampton County…Seven systems had withdrawals that met the threshold for a DEQ Ground Water Withdrawal Permit, yet only four systems held permits in 2007" (page 2-30).

  "Surry County has two privately-owned CWSs that serve only residential demand…The Scotland Heights system meets the threshold for a DEQ Ground Water Withdrawal Permit, yet did not hold a permit in 2007" (page 2-30).

Existing Water Source Data Gaps: Data gaps also exist for some categories of water source information, including:

- Well construction data (depth, screen depth, diameter, and withdrawal design capacity); and

- DEQ permitted withdrawal limits and VDH permitted system capacity;

These gaps are attributed to missing information in the CWS Records, VDH and DEQ Permits, Engineering Description Sheets, and Well Completion Reports. Missing information is determined to be not readily available.

HRPDC DATA CHECK

Attachment 2B

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]	Locality	Data Sources and/or Reasons for lack of data (HRPDC notes in red)
WSP - SSU Agricultural	1100 Cattle (USDA NASS data)	N/A	N/A	N/A	7.3 ~~3.65~~	Surry	See App. A Western Tidewater worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	1500 Horses (USDA NASS data for Suffolk)	N/A	N/A	N/A	6.57 ~~3.28~~	Suffolk (city)	See Appendix A, Southside worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	1800 Beef Cows (USDA NASS data)	N/A	N/A	N/A	8.03 ~~4.01~~	Chesapeake	See Appendix A, Southside Subregion, worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	1900 Horses (USDA NASS data)	N/A	N/A	N/A	7.3 ~~3.65~~	Isle of Wight	See Appendix A, Western Tidewater Subregion, worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	2600 Horses (USDA NASS data)	N/A	N/A	N/A	5.84	Virginia Beach	
WSP - SSU Agricultural	3100 Cattle (USDA NASS data)	N/A	N/A	N/A	14.6 ~~7.3~~	Isle of Wight	See Appendix A, Western Tidewater Subregion, worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	3200 Horses (USDA NASS data)	N/A	N/A	N/A	13.87 ~~6.93~~	Chesapeake	See Appendix A, Southside Subregion, worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	3700 Cattle (USDA NASS data)	N/A	N/A	N/A	14.6 ~~7.3~~	Southampton	See Appendix A, Western Tidewater Subregion, worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	500 Beef Cows (USDA NASS data)	N/A	N/A	N/A	1.1	Virginia Beach	
WSP - SSU Agricultural	8200 Cattle (USDA NASS data for Suffolk)	N/A	N/A	N/A	35.77 ~~17.88~~	Suffolk (city)	See Appendix A, Southside worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	Bennett Creek Wholesale Nursery	N/A	N/A	N/A	146	Isle of Wight	
WSP - SSU Agricultural	Bennetts Creek Nursery	N/A	N/A	N/A	26.28 ~~25.55~~	Suffolk (city)	See Appendix A, Southside worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	Cox Farm	N/A	N/A	N/A	7.3	Surry	
WSP - SSU Agricultural	Davis Farm	N/A	N/A	N/A	29.2	Southampton	
WSP - SSU Agricultural	Franklin Turfgrass Inc., River Road Farm	N/A	N/A	N/A	219	Franklin	
WSP - SSU Agricultural	Gray Lumber Company - Bacons Castle Farm	N/A	N/A	N/A	32.85	Surry	
WSP - SSU Agricultural	Greenbrier Farms Nursery	N/A	N/A	N/A	931.115 ~~930.75~~	Chesapeake	See Appendix A, Southside Subregion, worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	John T. Butler, Jr.	N/A	N/A	N/A	18.25	Isle of Wight	
WSP - SSU Agricultural	Murphy Brown, LLC - Smithfield Carroll's Farms 16-17	N/A	N/A	N/A	14.6	Surry	
WSP - SSU Agricultural	Murphy Brown, LLC - Smithfield Carroll's Farms 6-8	N/A	N/A	N/A	21.9	~~Isle of Wight~~ Southampton	See Appendix A, Western Tidewater Subregion, worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Agricultural	Murphy Brown, LLC - Smithfield Carroll's Surry Farms 9, 10, 21	N/A	N/A	N/A	25.55	Surry	
WSP - SSU Agricultural	Murphy Brown, LLC Isle of Wight Farms - Carrolls 1-5	N/A	N/A	N/A	43.8	Isle of Wight	
WSP - SSU Agricultural	Philip Edwards	N/A	N/A	N/A	3.65	Isle of Wight	
WSP - SSU Agricultural	Southern Belle Turf Farms	N/A	N/A	N/A	7.3	Isle of Wight	
WSP - SSU Agricultural	Sunset View Farm	N/A	N/A	N/A	105.85	Isle of Wight	

HRPDC DATA CHECK

Attachment 2B

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]	Locality	Data Sources and/or Reasons for lack of data (HRPDC notes in red)
WSP - SSU Agricultural	Williams Cattle Co., LLC	N/A	N/A	N/A	21.17 ~~21.9~~	Suffolk (city)	See Appendix A, Southside worksheet SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)
WSP - SSU Non-Ag Over 300K	Albert G. Horton, Jr. Veterans Cemetary	N/A	N/A	N/A	4.745 ~~3.65~~	Suffolk (city)	See Appendix A, Southside worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	BASF (Ciba Specialty Chemicals) - Suffolk Plant	N/A	N/A	N/A	24.09 ~~25.55~~	Suffolk (city)	See Appendix A, Southside worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	BASF Corporation	N/A	N/A	N/A	89.06 ~~87.6~~	Portsmouth	See Appendix A, Southside subregion worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	BASF Corporation Williamsburg	N/A	N/A	N/A	5.84 ~~7.3~~	James City	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Bayshore Concrete Products	N/A	N/A	N/A	4.745 ~~3.65~~	Chesapeake	See Appendix A, Southside Subregion, worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Bayville Golf Club	N/A	N/A	N/A	14.965 ~~14.6~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Bow Creek Golf Course	N/A	N/A	N/A	5.84 ~~7.3~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Broad Bay Country Club	N/A	N/A	N/A	11.315 ~~10.95~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Busch Gardens Williamsburg	N/A	N/A	N/A	23.725 ~~25.55~~	James City	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Cahoon Plantation Golf Course	N/A	N/A	N/A	18.615 ~~18.25~~	Chesapeake	See Appendix A, Southside Subregion, worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Capital Concrete Incorporated - Stapleton Street Plant	N/A	N/A	N/A	6.935 ~~7.3~~	Norfolk (city)	See Appendix A, Southside subregion worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Cavalier Golf & Yacht Club	N/A	N/A	N/A	50.735 ~~51.74~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Cedar Point Golf Course	N/A	N/A	N/A	27.01 ~~25.55~~	Suffolk (city)	See Appendix A, Southside worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Chesapeake Energy Center	N/A	N/A	N/A	520.75 ~~190~~ ~~165.00000~~	Chesapeake	See Appendix A, Southside Subregion, worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Cintas Corporation / Omni Services, Inc.	N/A	N/A	N/A	21.17 ~~21.9~~	Portsmouth	See Appendix A, Southside subregion worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)

HRPDC DATA CHECK

Attachment 2B

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]	Locality	Data Sources and/or Reasons for lack of data (HRPDC notes in red)
WSP - SSU Non-Ag Over 300K	Cogentrix Virginia Leasing Corporation	N/A	N/A	N/A	605.535 ~~605.9~~	Portsmouth	See Appendix A, Southside subregion worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Colonial Williamsburg Inn	N/A	N/A	N/A	173.375 ~~175.2~~	Williamsburg	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Cypress Point Golf Course	N/A	N/A	N/A	26.645 ~~25.55~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Deer Run Golf Course	N/A	N/A	N/A	28.47 ~~29.2~~	Newport News	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Dominion Power Nuclear Power Plant - Surry	N/A	N/A	N/A	647 612.00000	Surry	
WSP - SSU Non-Ag Over 300K	Dominion Terminal Associates - Pier 11	N/A	N/A	N/A	44.165 ~~43.8~~	Newport News	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Eagle Haven Golf Course, NAB Little Creek	N/A	N/A	N/A	11.68 ~~10.95~~	Norfolk (city)	See Appendix A, Southside subregion worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Elizabeth Manor Golf and Country Club	N/A	N/A	N/A	49.64 ~~51.1~~	Portsmouth	See Appendix A, Southside subregion worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Golden Horseshoe Golf Course	N/A	N/A	N/A	82.125 ~~80.2~~	Williamsburg	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C) and SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Hell's Point Golf Course	N/A	N/A	N/A	37.23 ~~36.5~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Hercules Incorporated	N/A	N/A	N/A	1 919.90	Southampton	
WSP - SSU Non-Ag Over 300K	Heron Ridge Golf Course	N/A	N/A	N/A	54.02 ~~54.75~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	International Paper - Franklin Mill Plant	N/A	N/A	N/A	13,354.255 ~~13,355.30~~	Isle of Wight	See Appendix A, Western Tidewater Subregion, worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C) and SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	J.H. Miles and Company - Norfolk Processing Plant	N/A	N/A	N/A	55.845 ~~54.75~~	Norfolk (city)	See Appendix A, Southside subregion worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	James River Country Club	N/A	N/A	N/A	9.49 ~~10.95~~	Newport News	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Kempsville Greens Golf Course	N/A	N/A	N/A	4.745 ~~3.65~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW

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]	Locality	Data Sources and/or Reasons for lack of data (HRPDC notes in red)
WSP - SSU Non-Ag Over 300K	Kinder Morgan Bulk Terminal - Pier IX Terminal Company	N/A	N/A	N/A	32.485 ~~32.85~~	Newport News	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Kingsmill Golf Course	N/A	N/A	N/A	100.74 ~~102.2~~	James City	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Narricot Industries Incorporated	N/A	N/A	N/A	32.85	Southampton	
WSP - SSU Non-Ag Over 300K	National Linen & Uniform Service	N/A	N/A	N/A	7.3	Portsmouth	
WSP - SSU Non-Ag Over 300K	Northrop Grumman Shipbuilding	N/A	N/A	N/A	2 974.75	Newport News	
WSP - SSU Non-Ag Over 300K	Oceana Golf Course	N/A	N/A	N/A	26.28 ~~25.55~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Outdoor World Campground Williamsburg	N/A	N/A	N/A	4.745 ~~3.65~~	James City	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Princess Anne Country Club	N/A	N/A	N/A	69.35	Virginia Beach	
WSP - SSU Non-Ag Over 300K	Redwing Golf Course	N/A	N/A	N/A	43.435 ~~43.8~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Richmond Cold Storage	N/A	N/A	N/A	7.3	Isle of Wight	
WSP - SSU Non-Ag Over 300K	Sanifill of Virginia - Big Bethel Landfill	N/A	N/A	N/A	28.47 ~~29.2~~	Hampton (city)	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Servitex Division of Alsco	N/A	N/A	N/A	9.855 ~~10.95~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Sewells Point Golf Course, U.S. Navy, Norfolk Naval Base	N/A	N/A	N/A	48.18 ~~47.45~~	Norfolk (city)	See Appendix A, Southside subregion worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C) and SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C). Add surface water and groundwater.
WSP - SSU Non-Ag Over 300K	Siemens Automotive - Newport News	N/A	N/A	N/A	13.505 ~~14.6~~	Newport News	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Smithfield Foods, Inc. - Gwaltney	N/A	N/A	N/A	492.75	Isle of Wight (Smithfield Town)	
WSP - SSU Non-Ag Over 300K	Smithfield Foods, Inc. - Ham and Products Division	N/A	N/A	N/A	7.3	Isle of Wight (Smithfield Town)	
WSP - SSU Non-Ag Over 300K	Smithfield Foods, Inc. - Packing Company	N/A	N/A	N/A	182.5	Isle of Wight (Smithfield Town)	
WSP - SSU Non-Ag Over 300K	Southampton County Agri-Business Industrial Park	N/A	N/A	N/A	3.65	Southampton	
WSP - SSU Non-Ag Over 300K	SPSA Regional Landfill	N/A	N/A	N/A	12.41 ~~10.95~~	Suffolk (city)	See Appendix A, Southside worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Surry County Public Schools	N/A	N/A	N/A	3.65	Surry	
WSP - SSU Non-Ag Over 300K	The Pines Golf Course - Fort Eustis	N/A	N/A	N/A	20.44 ~~21.9~~	Newport News	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)

HRPDC DATA CHECK

Attachment 2B

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]	Locality	Data Sources and/or Reasons for lack of data (HRPDC notes in red)
WSP - SSU Non-Ag Over 300K	Tidewater Area Central Hospital Laundry, Inc. (Shared Hospital Services)	N/A	N/A	N/A	20.805 ~~21.9~~	Portsmouth	See Appendix A, Southside subregion worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Titan Ready Mix Plant - Rip Rap Road	N/A	N/A	N/A	5.84 ~~7.3~~	Hampton (city)	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Titan Virginia Ready-Mix, LLC - Campostella Ready-Mix Plant	N/A	N/A	N/A	6.93	Norfolk (city)	
WSP - SSU Non-Ag Over 300K	Titan Virginia Ready-Mix, LLC - Oceana Plant	N/A	N/A	N/A	4.745 ~~3.65~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Titan Virginia Ready-Mix, LLC - Port Norfolk Plant	N/A	N/A	N/A	4.015 ~~3.65~~	Portsmouth	See Appendix A, Southside subregion worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	TPC of Virginia Beach, LLC (now Virginia Beach National Golf Course)	N/A	N/A	N/A	89.79 ~~91.25~~	Virginia Beach	See Appendix A, Southside worksheets 70E, 80B6, 80C SSU NonAg, SW and 70F, 80B6, 80C SSU NonAg, GW
WSP - SSU Non-Ag Over 300K	Two Rivers Country Club	N/A	N/A	N/A	26.645 ~~25.55~~	James City	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Valley Proteins Incorporated	N/A	N/A	N/A	8.395	Southampton	Use fell below reporting requirements after 2006 reporting. See Appendix A, Western Tidewater Subregion, worksheet ESTIMATED WATER USE BY SELF-SUPPLIED BUSINESS USERS ON INDIVIDUAL WELLS (9 VAC 25-780-80 B8 and -80 E) for estimated ave annual business use (gpd and MGD).
WSP - SSU Non-Ag Over 300K	Williamsburg Country Club	N/A	N/A	N/A	18.25	York	
WSP - SSU Non-Ag Over 300K	Williamsburg National Golf Course	N/A	N/A	N/A	19.345 ~~18.25~~	James City	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Over 300K	Yorktown Fossil Power Plant	N/A	N/A	N/A	98,246.6 ~~298 205.0~~	York	See Appendix A, Peninsula worksheet SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C)
WSP - SSU Non-Ag Under 300K	Chesapeake Small SSU Business	N/A	N/A	N/A	3.69563	Chesapeake	
WSP - SSU Non-Ag Under 300K	Chesapeake Small SSU Business INSIDE	N/A	N/A	N/A	8.0884	Chesapeake	
WSP - SSU Non-Ag Under 300K	Chesapeake Small SSU Residential	N/A	N/A	N/A	919.8	Chesapeake	
WSP - SSU Non-Ag Under 300K	Franklin Small SSU - Business	N/A	N/A	N/A	14.6	Franklin (city)	
WSP - SSU Non-Ag Under 300K	Franklin Small SSU - Residential	N/A	N/A	N/A	0.13085 ~~0.13104~~	Franklin (city)	See Appendix A, Western Tidewater Subregion, worksheet ESTIMATED NUMBER OF RESIDENCES AND BUSINESSES THAT ARE SELF-SUPPLIED BY INDIVIDUAL WELLS WITHDRAWING LESS THAN 300,000 GALLONS PER MONTH (9 VAC 25-780-70J); ESTIMATED WATER USE BY SELF-SUPPLIED USERS ON INDIVIDUAL WELLS (9 VAC 25-780-80 B8 and -80 E)
WSP - SSU Non-Ag Under 300K	Gloucester Co Small SSU-Business	N/A	N/A	N/A	41.4421	Gloucester	
WSP - SSU Non-Ag Under 300K	Gloucester Co Small SSU-Business INSIDE	N/A	N/A	N/A	0.657	Gloucester	
WSP - SSU Non-Ag Under 300K	Gloucester Co Small SSU-Residential	N/A	N/A	N/A	628.53	Gloucester	
WSP - SSU Non-Ag Under 300K	Isle of Wight Small SSU - Business	N/A	N/A	N/A	23.6418	Isle of Wight	
WSP - SSU Non-Ag Under 300K	Isle of Wight Small SSU - Business INSIDE	N/A	N/A	N/A	3.03315	Isle of Wight	
WSP - SSU Non-Ag Under 300K	Isle of Wight Small SSU - Residential	N/A	N/A	N/A	385.248	Isle of Wight	

HRPDC DATA CHECK

Attachment 2B

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]	Locality	Data Sources and/or Reasons for lack of data (HRPDC notes in red)
WSP - SSU Non-Ag Under 300K	Isle of Wight Small SSU - Residential INSIDE	N/A	N/A	N/A	75.949 ~~64.3939~~	Isle of Wight	See Appendix A, Western Tidewater Subregion, worksheetESTIMATED NUMBER OF RESIDENCES AND BUSINESSES THAT ARE SELF-SUPPLIED BY INDIVIDUAL WELLS WITHDRAWING LESS THAN 300,000 GALLONS PER MONTH (9 VAC 25-780-70J); ESTIMATED WATER USE BY SELF-SUPPLIED USERS ON INDIVIDUAL WELLS (9 VAC 25-780-80 B8 and -80 E)
WSP - SSU Non-Ag Under 300K	James City County Small SSU - Business	N/A	N/A	N/A	28.105	James City	
WSP - SSU Non-Ag Under 300K	James City County Small SSU - Business INSIDE	N/A	N/A	N/A	75.7375	James City	
WSP - SSU Non-Ag Under 300K	James City County Small SSU - Residential	N/A	N/A	N/A	197.757	James City	
WSP - SSU Non-Ag Under 300K	Newport News Small SSU-Business	N/A	N/A	N/A	2.92	Newport News	
WSP - SSU Non-Ag Under 300K	Portsmouth small SSU Residential	N/A	N/A	N/A	0.13724 ~~0.06862~~	Portsmouth	See Appendix A, Southside subregion worksheet ESTIMATED WATER USE BY SELF-SUPPLIED USERS ON INDIVIDUAL WELLS (9 VAC 25-780-80 B8 and -80 E)
WSP - SSU Non-Ag Under 300K	Smithfield Small SSU - Residential INSIDE	N/A	N/A	N/A	6.50175	Isle of Wight	
WSP - SSU Non-Ag Under 300K	Southampton Small SSU - Business	N/A	N/A	N/A	33.4924	Southampton	
WSP - SSU Non-Ag Under 300K	Southampton Small SSU - Business INSIDE	N/A	N/A	N/A	4.06245	Southampton	
WSP - SSU Non-Ag Under 300K	Southampton Small SSU - Residential	N/A	N/A	N/A	332.661	Southampton	
WSP - SSU Non-Ag Under 300K	Suffolk small SSU Business	N/A	N/A	N/A	13.6875	Suffolk (city)	
WSP - SSU Non-Ag Under 300K	Suffolk small SSU Business INSIDE	N/A	N/A	N/A	9.08485	Suffolk (city)	
WSP - SSU Non-Ag Under 300K	Suffolk small SSU Residential	N/A	N/A	N/A	551.99	Suffolk (city)	
WSP - SSU Non-Ag Under 300K	Surry Small SSU - Business	N/A	N/A	N/A	17.4492	Surry	
WSP - SSU Non-Ag Under 300K	Surry Small SSU - Residential	N/A	N/A	N/A	151.493	Surry	
WSP - SSU Non-Ag Under 300K	Virginia Beach Small SSU Business	N/A	N/A	N/A	30.3388	Virginia Beach	
WSP - SSU Non-Ag Under 300K	Virginia Beach Small SSU Business INSIDE	N/A	N/A	N/A	79.2634 ~~79.6284~~	Virginia Beach	See Appendix A, Southside worksheet ESTIMATED WATER USE BY SELF-SUPPLIED USERS ON INDIVIDUAL WELLS (9 VAC 25-780-80 B8 and -80 E)
WSP - SSU Non-Ag Under 300K	Virginia Beach Small SSU Residential	N/A	N/A	N/A	132.796	Virginia Beach	
WSP - SSU Non-Ag Under 300K	Windsor Small SSU - Residential INSIDE	N/A	N/A	N/A	5.14431	Isle of Wight	
WSP - SSU Non-Ag Under 300K	York County Small SSU-Business	N/A	N/A	N/A	21.6628	York	
WSP - SSU Non-Ag Under 300K	York County Small SSU-Business INSIDE	N/A	N/A	N/A	2.28125 ~~2.3798~~	York	See Appendix A, Peninsula worksheet ESTIMATED NUMBER OF RESIDENCES AND BUSINESSES THAT ARE SELF-SUPPLIED BY INDIVIDUAL WELLS WITHDRAWING LESS THAN 300,000 GALLONS PER MONTH (9 VAC 25-780-70J); ESTIMATED WATER USE BY SELF-SUPPLIED USERS ON INDIVIDUAL WELLS (9 VAC 25-780-80 B8 and -80 E)
WSP - SSU Non-Ag Under 300K	York County Small SSU-Residential	N/A	N/A	N/A	87.6	York	
WSP Community Water System	Ashby Subdivision	0.062	0.111	1	22.81	Isle of Wight	
WSP Community Water System	Bethel Heights	0.004	0	1	1.46	Isle of Wight	NI (no information) on DEQ spreadsheet.
WSP Community Water System	Birdsong (formerly Byrdtown Subdivision)	0.007	0.011	1	2.555 ~~Chesapeake~~ Suffolk (City)		
WSP Community Water System	Bob Steele Waterworks	0.004	0.012	1	1.46	Isle of Wight	
WSP Community Water System	Brewer's Creek	0.029	0.063	1	10.74	Isle of Wight	
WSP Community Water System	Brooks' Duplexes	0.002	0.003	1	0.73	James City	
WSP Community Water System	Camptown Development Service District	NUMBERS INCLUDED WITH CITY OF FRANKLIN				Isle of Wight	
WSP Community Water System	Cannon Acres	0.015	0.028	1	5.475	Isle of Wight	
WSP Community Water System	Capron, Town of	0.021	0.026	1	1.69	Southampton	
WSP Community Water System	Carrsville ~~Carrisville~~	0.016	0	1	5.91	Isle of Wight	NI (no information) on DEQ spreadsheet.
WSP Community Water System	Cherry Grove Acres	0.015	0.028	0	5.475	Isle of Wight	NI (no information) on DEQ spreadsheet.

HRPDC DATA CHECK

Attachment 2B

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]	Locality	Data Sources and/or Reasons for lack of data (HRPDC notes in red)
WSP Community Water System	Chesapeake - Northwest River System	15.50 ~~11.173~~	25.1	1	4 078.04000	Chesapeake	Conjunctive use system. Additional surface water component purchased from Norfolk, stored at In-Town Lakes reservoir. See Appendix A, Southside subregion, worksheet COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE) USING SURFACE WATER RESERVOIRS (9 VAC 25-780-70 C). For CWS use, see worksheet COMMUNITY WATER SYSTEMS USING GROUND AND SURFACE WATER: water withdrawal information (9 VAC 25-780-80 B1-B3). One GW well is ASR well.
WSP Community Water System	Chesapeake - South Norfolk System	NUMBERS INCLUDED WITH CITY OF NORFOLK				Chesapeake	Conjunctive use - purchase from Norfolk. See Appendix A, Southside subregion, worksheet COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE) USING SURFACE WATER RESERVOIRS (9 VAC 25-780-70 C). Ave Daily Use = 2.63 mgd, Max Daily Use = 3.9 mgd, Annual use 2007 = 958.63.
WSP Community Water System	Chesapeake - Western Branch System	NUMBERS INCLUDED WITH CITY OF PORTSMOUTH				Chesapeake	Conjunctive use - purchase from Portsmouth. See Appendix A, Southside subregion, worksheet COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE) USING SURFACE WATER RESERVOIRS (9 VAC 25-780-70 C). Ave Daily Use = 2.92 mgd, Max Daily Use = 3.9 mgd, Annual use 2007 = 1067.05.
WSP Community Water System	Claremont, Town of	0.026	0	1	11.23	Surry	NI (no information) on DEQ spreadsheet
WSP Community Water System	Clydes Dale Mobile Home Park	0.027	0.042	1	9.82	Isle of Wight	
WSP Community Water System	Courtland, Town of	0.131	0	1	58.72	Southampton	NI (no information) on DEQ spreadsheet
WSP Community Water System	Dam Neck - US Navy	NUMBERS INCLUDED WITH CITY OF NORFOLK				Virginia Beach	
WSP Community Water System	Darden's Mill Estates	0.012	0.02	1	4.38	Southampton	
WSP Community Water System	Days Point Subdivision	0.011	0	1	4.98	Isle of Wight	NI (no information) on DEQ spreadsheet.
WSP Community Water System	Deer Run	0.007	0.01	1	2.555	Isle of Wight	
WSP Community Water System	Dendron, Town of	0.026	0.035	1	9.57	Surry	
WSP Community Water System	Duck's Trailer Court	0.001	0.001	1	0.365	Isle of Wight	
WSP Community Water System	Edward's Trailer Park	0.011	0	1	4.015	Isle of Wight	"No use data available" est. Avg Daily @ 75 gpcpd
WSP Community Water System	Fieldcrest Manufactured Home Community	0.008	0.011	1	2.92	Southampton	
WSP Community Water System	Fort Story - US Army	NUMBERS INCLUDED WITH CITY OF NORFOLK				Virginia Beach	
WSP Community Water System	Franklin, City of	1.1	1.9	1	424.88	Franklin	
WSP Community Water System	Gatling Pointe Subdivision	NUMBERS INCLUDED WITH TOWN OF SMITHFIELD				Isle of Wight	
WSP Community Water System	Gloucester County WTP	1.38	3.17	1	502.49	Gloucester	
WSP Community Water System	Greensprings Mobile Village	0.011	0.014	1	4.015	James City	
WSP Community Water System	Guilford Heights	0.0085	0	1	3.285 ~~3.1025~~	Surry	"No use data available" est. Avg Daily @ 75 gpcpd. See App. A Western Tidewater worksheet COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE): DISAGGREGATED ANNUAL AVERAGE WATER USE AMOUNTS (9 VAC 25-780-80 B9) for estimate of annual average use
WSP Community Water System	Heaths Mobile Homes	0.003	0.004	1	1.095	James City	
WSP Community Water System	Hobson Mt. Lebanon Waterworks	0.008	0	1	2.92	~~Chesapeake~~ Suffolk (City)	"No use data available" est. Avg Daily @ 75 gpcpd
WSP Community Water System	Hobson Village Waterworks	0.005	0	1	1.825	~~Chesapeake~~ Suffolk (City)	"No use data available" est. Avg Daily @ 75 gpcpd
WSP Community Water System	Indian River Water Co - Aqua Virginia, Inc.	0.116	0	1	42.49	Chesapeake	NI (no information) on DEQ spreadsheet
WSP Community Water System	Ivor, Town of	0.055	0.074	1	20.58	Southampton	
WSP Community Water System	James City Service Authority - Central System	5.82	10.998	1	1 837.11	James City	
WSP Community Water System	James City Service Authority - Glenwood Acres	0.006	0.011	1	2.28	James City	
WSP Community Water System	James City Service Authority - Kings Village	0.01	0.021	1	3.77	James City	
WSP Community Water System	James City Service Authority - Racefield	0.011	0.021	1	3.88	James City	
WSP Community Water System	James City Service Authority - Retreat	0.014	0.038	1	5.17	James City	

HRPDC DATA CHECK

Attachment 2B

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]	Locality	Data Sources and/or Reasons for lack of data (HRPDC notes in red)
WSP Community Water System	James City Service Authority - Stonehouse	NUMBERS INCLUDED WITH JCSA CENTRAL SYSTEM				James City	~~No Explanation~~ This is part of the JCSA Central System, and is therefore not listed in worksheets for 80B3, 80B4, 80B5, etc. and is not described as a JCSA system on page 1-11 to 1-12 of the Plan. Notes indicating combination with Central system are shown in App. A, Peninsula, worksheets 9 VAC 25-780-70 B, 9 VAC 25-780-80 B4. The DEQ GW Withdrawal Permit for Stonehouse system was combined with the Central System in 2009.
WSP Community Water System	James City Service Authority - Upper County	SYSTEM ELIMINATED IN 2005				James City	
WSP Community Water System	James City Service Authority - Ware Creek Manor	0.012	0.022	1	4.38	James City	
WSP Community Water System	James City Service Authority - Wexford Hills	0.028	0.053	1	10.05	James City	
WSP Community Water System	James River Shores	0.012	0.017	1	4.38	Isle of Wight	
WSP Community Water System	Kingsdale Subdivision (Artis)	0.006	0	1	2.19	Southampton	"No use data available" est. Avg Daily @ 75 gpcpd
WSP Community Water System	Kingsdale Subdivision (Moseley)	0.003	0	1	1.095	Southampton	"No use data available" est. Avg Daily @ 75 gpcpd
WSP Community Water System	Laurelwood Estates Trailer Park	0.001	0	1	3.72	Gloucester	NI (no information) on DEQ spreadsheet
WSP Community Water System	Lawne's Point	SERVED 4 CONNECTIONS, 10 PEOPLE IN 2010; GW0047000 APPLIED FOR IN 2010				Isle of Wight	
WSP Community Water System	Little Creek Amphibious Base - US Navy	NUMBERS INCLUDED WITH CITY OF NORFOLK				Virginia Beach	
WSP Community Water System	Longview Acres	0.014	0.028	1	5.11	Isle of Wight	
WSP Community Water System	NAS Oceana - US Navy	NUMBERS INCLUDED WITH CITY OF NORFOLK				Virginia Beach	
WSP Community Water System	Naval Support Activity - NW Annex	0.11	0.17	1	39.89	Chesapeake	
WSP Community Water System	Newport Development Service District	NUMBERS INCLUDED WITH WTWA				Isle of Wight	
WSP Community Water System	Newport News Waterworks	51.63	67.39	1	18843.15 ~~18 843.20~~	Newport News	See Appendix A, Peninsula worksheet Community Water Systems Using Ground and Surface Water: annual average and average monthly water use (9 VAC 25-780-80 B4)
WSP Community Water System	Newport News Waterworks - Lightfoot / Skimino Hills	0.328	0.46	1	119.87	York	
WSP Community Water System	Newsoms, Town of	0.037	0	1	13.57	Southampton	NI (no information) on DEQ spreadsheet
WSP Community Water System	Norfolk Naval Base	NUIMBERS INCLUDED WITH CITY OF NORFOLK				Norfolk (city)	
WSP Community Water System	Norfolk Naval Shipyard	NUMBERS INCLUDED WITH CITY OF NORFOLK				Portsmouth	
WSP Community Water System	Norfolk, City of	79	101.73	1	7 093.61000	Norfolk (city)	Conjunctive use system.
WSP Community Water System	Norfolk, City of - In-Town Reservoirs	NUMBERS INCLUDED WITH CITY OF NORFOLK				Norfolk (city)	
WSP Community Water System	Norfolk, City of - Western Branch Reservoirs	NUMBERS INCLUDED WITH CITY OF NORFOLK				Norfolk (city)	
WSP Community Water System	Nottoway Gardens	0.02	0.039	1	7.2	Southampton	
WSP Community Water System	Nottoway Shores	0.008	0	1	2.92	Southampton	"No use data available" est. Avg Daily @ 75 gpcpd
WSP Community Water System	Owen's Subdivision	0.008	0	1	2.92	Isle of Wight	"No use data available" est. Avg Daily @ 75 gpcpd
WSP Community Water System	Plantation Mobile Home Park	0.007	0	1	2.55	Chesapeake	NI (no information) on DEQ spreadsheet
WSP Community Water System	Portsmouth, City of	16.85	20.65	1	5 098.70000	Portsmouth	Conjunctive use system.
WSP Community Water System	Queen Anne's Court	0.009	0	1	3.285	Isle of Wight	"No use data available" est. Avg Daily @ 75 gpcpd
WSP Community Water System	R&L Trailer Park	0.004	0	1	0.97	Gloucester	NI (no information) on DEQ spreadsheet
WSP Community Water System	Red Oaks Mobile Community	0.039	0.087	1	14.2	Isle of Wight	
WSP Community Water System	Rescue Waterworks	0.011	0.017	1	4.1	Isle of Wight	
WSP Community Water System	Rollingwood	NUMBERS INCLUDED WITH NEWPORT DEVELOPMENT SERVICE DISTRICT				Isle of Wight	~~No Explanation~~ Well abandoned - system connected to Newport Development Service District (which purchases surface water, part of WTWA). See Appendix A, Western Tidewater Subregion, worksheet COMMUNITY WATER SYSTEMS (MUNCIPAL & PRIVATE) USING GROUND WATER (9 VAC 25-780-70 B).
WSP Community Water System	Rushmere - Burwell's Bay	0.011	0	1	4.13	Isle of Wight	NI (no information) on DEQ spreadsheet.

HRPDC DATA CHECK

Attachment 2B

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]	Locality	Data Sources and/or Reasons for lack of data (HRPDC notes in red)
WSP Community Water System	Rushmere Shores	0.006	0.009	1	2.19	Isle of Wight	
WSP Community Water System	Scotland Heights	0.012	0	1	4.38	Surry	~~NI (no information) on DEQ spreadsheet.~~ "No use data available" est. Avg Daily @ 75 gpcpd
WSP Community Water System	Scottswood Subdivision	0.03	0	1	13.15	Southampton	NI (no information) on DEQ spreadsheet
WSP Community Water System	Sedley	0.028	0	1	12.94	Southampton	NI (no information) on DEQ spreadsheet
WSP Community Water System	Shodon Mobile Estates	0.002	0	1	3.285 ~~3.14~~	James City	NI (no information) on DEQ spreadsheet. For estimated annual ave use, see App. A Peninsula worksheet COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE): DISAGGREGATED ANNUAL AVERAGE WATER USE AMOUNTS (9 VAC 25-780-80 B9)
WSP Community Water System	Silverleaf Mobile Home Park	0.01	0	1	3.65	Southampton	NI (no information) on DEQ spreadsheet
WSP Community Water System	Smithfield Apartments	0.009	0.015	1	3.285	Isle of Wight	
WSP Community Water System	Smithfield Heights - Sandy Mount Manor	0.029	0	1	10.6	Isle of Wight	NI (no information) on DEQ spreadsheet.
WSP Community Water System	Smithfield Mobile Home Park	0.008	0	1	2.92	Isle of Wight	NI (no information) on DEQ spreadsheet
WSP Community Water System	Smithfield, Town of	0.908	1.967	1	331.3	Isle of Wight (Smithfield Town)	
WSP Community Water System	Southampton - Boykins-Branchville System	0.05	0	1	40.47	Southampton	NI (no information) on DEQ spreadsheet
WSP Community Water System	Southampton - Drewryville System	0.011	0	1	3.86	Southampton	NI (no information) on DEQ spreadsheet
WSP Community Water System	Southampton - Edgehill System	0.018	0	1	6.77	Southampton	NI (no information) on DEQ spreadsheet
WSP Community Water System	Southampton Correctional Complex	0.268	0.295	1	101.06	Southampton	
WSP Community Water System	Southampton County Jail Farm	0.006	0.008	1	2.19	Southampton	
WSP Community Water System	Southampton Meadows Mobile Home Park	0.067	0.094	1	24.15	Southampton	
WSP Community Water System	Springfield Downs Subdivision	0.012	0.019	1	4.38	Isle of Wight	
WSP Community Water System	Suffolk, City of - G. Robert House WTP	THIS WATER TREATMENT PLANT IS NOT A SEPARATE SYSTEM. TREATS SURFACE & GROUNDWATER FOR SUFFOLK MAIN SYSTEM.				Suffolk (city)	~~No Explanation~~ This is not a separate water system. Surface and ground water for Suffolk's Main System is treated at this WTP. See page 1-36 of Regional Water Supply Plan.
WSP Community Water System	Suffolk, City of - Holland System	0.039	0.056	1	14.3	Suffolk (city)	
WSP Community Water System	Suffolk, City of - Main System (Western Tidewater Water Authority)	4.99	10.75	1	2,792.88	Suffolk (city)	Conjuctive use system. Surface and ground water is treated at Robert G. House WTP. Additional water purchased from Portsmouth.
WSP Community Water System	Suffolk, City of - Whaleyville	0.041	0.092	1	14.85	Suffolk (city)	
WSP Community Water System	Sunray Artesian Water Supply	0.004	0.007	1	1.46	Chesapeake	
WSP Community Water System	Sunray Water Company	0.005	0	1	1.825	Chesapeake	NI (no information) on DEQ spreadsheet
WSP Community Water System	Surry, Town of	0.049	0.054 ~~0.057~~	1	20.76	Surry	See App. A Western Tidewater worksheet COMMUNITY WATER SYSTEMS USING GROUND AND SURFACE WATER:WATER WITHDRAWAL INFORMATION (9 VAC 25-780-80 B1-B3)
WSP Community Water System	The Oaks Mobile Estates Trailer Court	0.011	0	1	4.015	Isle of Wight	"No use data available" est. Avg Daily @ 75 gpcpd
WSP Community Water System	Thomas Park Community	0.005	0.15	1	1.819	Isle of Wight	
WSP Community Water System	Tormentor Creek Estates	0.005	0	1	**1.71** ~~1.825~~	Isle of Wight	NI (no information) on DEQ spreadsheet. See App. A Western Tidewater worksheet COMMUNITY WATER SYSTEMS USING GROUND AND SURFACE WATER : ANNUAL AVERAGE AND AVERAGE MONTHLY WATER USE (9 VAC 25-780-80 B4) for estimate of annual average use
WSP Community Water System	Turner Property	0.007	0.013	1	2.555	Isle of Wight	
WSP Community Water System	VDOC - Saint Brides Correctional Center	0.228	0	1	83.32	Chesapeake	NI (no information) on DEQ spreadsheet
WSP Community Water System	Virginia Beach, City of	36.80 ~~26.066~~	60.05	1	13 236.28	Virginia Beach	See Appendix A, Southside worksheet COMMUNITY WATER SYSTEMS USING GROUND AND SURFACE WATER: water withdrawal information (9 VAC 25-780-80 B1-B3)
WSP Community Water System	Waterview Mobile Home Park	0.008	0.26	1	3.07	Gloucester	

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]	Locality	Data Sources and/or Reasons for lack of data (HRPDC notes in red)
WSP Community Water System	White Tail Park	0.007 ~~0.008~~	0	1	2.93	Southampton	NI (no information) on DEQ spreadsheet. For ave daily withdrawal, see App. A, Western Tidewater worksheet COMMUNITY WATER SYSTEMS USING GROUND AND SURFACE WATER: water withdrawal information (9 VAC 25-780-80 B1-B3)
WSP Community Water System	Williamsburg, City of	3.336	4.9	1	1 219.15000	Williamsburg	
WSP Community Water System	Willing Workers Club	0.003	0.004	1	1.095	Isle of Wight	
WSP Community Water System	Windsor, Town of	0.242	0.462	1	88.19	Isle of Wight (Windsor Town)	
WSP Community Water System	Wrenn's Mill Estates	1.437	2.717	1	524.505	Isle of Wight	
WSP Community Water System	Zuni	0.004	0	1	1.377	Isle of Wight	NI (no information) on DEQ spreadsheet.
WSP Community Water System	Zuni Presyterian Training Center	0.004	0.005	1	1.46	Isle of Wight	

Attachment 3

Explanation of Accounting for Domestic Consumption, Instream Uses, and Economic Development in Demand Projections
Hampton Roads Regional Water Supply Plan

Comments from DEQ draft compliance checklist, Part IV.A.3:

Provide 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. See Part II, Section D.9.

HRPDC Response:

In Section 4 Projected Water Demands, the subsection titled "Small Self-Supplied Water Users" describes the projected needs of domestic consumption. The projected needs of economic development were captured in three sections. The demand projections for Publicly-Owned CWS incorporated commercial and industrial growth because the locality per capita demands were based on total use, not just residential use. As the population grows, additional water demands are projected for economic growth. Also, the projected demands for Small and Large Self-Supplied Users addressed economic development needs. The projected demands were assumed to be constant since there is no data to support changes in use patterns and it is difficult to anticipate a large user moving into or out of the Hampton Roads region. The projected needs of in-stream uses are difficult to quantify with the available information. Projected demands from Hampton Roads localities are not anticipated to impact our in-stream uses. The significant surface water withdrawals all have permit requirements that protect in-stream uses and the water supply plan assumes that all the permit limits will remain the same.

September __, 2013

Mr. Stephen W. Calhoun
Regulatory Coordinator
Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

RE: Proposed Regulation Amending the Virginia Uniform Statewide Building Code, 13VAC5-63-210 R (72) and 13VAC5-63-320 (19), Rainwater Non-Potable Water Systems.

Dear Mr. Calhoun:

The Hampton Roads Planning District Commission (HRPDC) supports the provisions for rainwater non-potable water systems as set forth in the proposed regulation amending the Virginia Uniform Statewide Building Code, 13VAC5-63-210 R (75) and 13VAC5-63-320 (19). The proposed amendments will allow wider use of rainwater harvesting in voluntary green building applications to reduce or eliminate stormwater runoff through low impact development practices. The capture and use of rainwater reduces the environmental impact of development and protects the quality of streams and local waterways.

In areas where stormwater runoff cannot be infiltrated on site, the use of rainwater harvesting as a stormwater best management practice and as a source of non-potable water can create financial incentives for otherwise nonviable projects. In these cases, the cost of installing and maintaining a rainwater harvesting system may be offset by savings from downsized stormwater infrastructure and reduced potable water use. The proposed amendments will allow local governments to achieve development needs and project compliance with stormwater regulations while promoting environmental quality and sustainability goals.

In future updates to this section of the Virginia Uniform Statewide Building Code, HRPDC urges the Department of Housing and Community Development to continue coordination with the Department of Health and the Department of Environmental Quality to ensure that public health and environmental concerns are vetted through the code change process.

DRAFT

If you have any questions, please do not hesitate to contact Whitney Katchmark, HRPDC Principal Water Resources Engineer, at (757) 366-4342 or wkatchmark@hrpdcva.gov.

Sincerely,

Dwight L. Farmer
Executive Director/Secretary

TS/jc