

Commonwealth of Virginia
Drinking Water State Revolving Fund Program
Intended Use Plan for FY 2008

In accordance with the federal Safe Drinking Water Act Amendments (SDWA) of 1996 (P.L.104-182), which established a Drinking Water State Revolving Fund (DWSRF) Program to eligible states through a capitalization grant, the Virginia Department of Health (VDH) Office of Drinking Water (ODW) is making application for federal funding in the amount of \$8,673,000 in FY 2008 DWSRF grant funds. Also, as previously discussed with the Environmental Protection Agency (EPA), VDH is requesting a one-time transfer of the remaining balance of federal funds from the Operator Certification Expenditure Reimbursement Grant (ERG) in the amount of \$6,899, to bring the total federal funding available for the FY2008 DWSRF to \$8,679,899.

The VDH has primary enforcement responsibility, or primacy, for the Commonwealth's drinking water programs, and as such, is the designated agency to apply for and administer the capitalization grant for the DWSRF Program and related state funds. The FY 2008 grant application consists of the Intended Use Plan (IUP), the Project Priority List (Attachment 1), the Comprehensive Project List (Attachment 2), and the Set-Aside Workplan (Attachment 3). The *Virginia Drinking Water State Revolving Fund Program - Program Design Manual*, dated January 7, 2008, is part of the IUP and outlines the Program's overall goal, the set-aside and construction aspects of the Program, entities eligible for funding, interest rates and terms, and criteria used to establish a Project Priority List. The IUP undergoes public comment via mailings, internet, and a public meeting that will be held in Richmond in August, 2008 (see attached list). The IUP cover letter is also placed in the General Notices section of the Virginia Register.

The attached Funding Summary (Page 2) details the cumulative funding available for FY08 and the projected distribution between capitalization and set-aside funds. The DWSRF Allocation Summary (Page 3) details all major funding allocations since the program's inception in FY97. The detail of set-aside funds reserved and allocated is captured, along with this year's allocation of Set-Aside funds, in Attachment 3.

Virginia's 20% state match for the capitalization grant is deposited into a dedicated state loan fund, the *Virginia Water Supply Revolving Fund* (§62.1-233 et seq.), established under the *Code of Virginia*. Also specified in the *Code of Virginia*, and in conjunction a VDH Memorandum of Understanding, are roles and responsibilities for the Virginia Resources Authority (VRA) pertaining to individual construction loans and processes.

In order to meet the established goal of providing 15% of the amounts credited to the state loan fund as loan assistance to waterworks that regularly serve fewer than 10,000 persons, VDH will bypass higher ranked projects if necessary to meet this goal.

Summary
Virginia Drinking Water State Revolving Fund Program
Intended Use Plan
FY 2008

I. SOURCES

Federal	FY 2008	Allocation =	\$8,673,000	based on a national appropriation of \$829.029 million
		ERG reprogrammed =	<u>\$6,899</u>	Balance per M. Hoover on 5/1/08
				\$8,679,899
State's General Fund		20% match required =	\$1,735,980	
SUBTOTAL 1				\$10,415,879
Other state funds =			\$0	
Total state funds this year		\$1,735,980		
SUBTOTAL 2				\$10,415,879
Other sources =				
	interest earned (0945)		\$3,363	from the 7-23-2007 Commonwealth Accounting & Report System
	interest earned (VWSRF)		\$735,047	from VRA August 2007(interest earnings through 6/30/07)
	repaid principal to 6-30-2007		\$3,993,437	from VRA August 2007 P & I repayments report
	repaid interest to 6-30-2007		\$577,794	from VRA August 2007 P & I repayments report
		\$5,309,641		
SUBTOTAL 3				\$15,725,520
TRANSFER from DEQ's CWSRF			\$0	
Grand Total Funds Available =			\$15,725,520	

II. USE for Set-asides

Category	Maximum % and Name	Percent chosen	Amount
1	4% Administration and Technical Assistance	4.00%	347,196
2	2% Small System Technical Assistance	2.00%	173,598
3	10% State Program Management	10.00%	867,990
4	15% Local Assistance and other State Programs	8.00%	694,392
Sub-total		24.00%	\$2,083,176

III. USE for Loan funds

Federal Allocation =	\$8,679,899		
minus set asides	<u>\$2,083,176</u>		
Federal loan funds	\$6,596,723	76.06045% of federal grant	
plus 20% match required =	<u>\$1,735,980</u>		
SUBTOTAL			\$8,332,703
plus Other state funds =	\$0		
SUBTOTAL			\$8,332,703
plus other sources =	\$5,309,641		
SUBTOTAL			\$13,642,344
plus Transfer from DEQ's CWSRF	\$0		
TOTAL Amount available	\$13,642,344		
Amount available after subtracting Set-asides =			\$13,642,344
Amount loaned to Demonstration Project for Southwest Virginia Endowment =			\$0
<hr/>			
Balance available for individual project loan and subsidies =			\$13,642,344
Subsidies --up to 30% of grant may be used =		30.00%	\$2,601,900
Loans =			<u>\$11,040,444</u>
Total =			\$13,642,344

**Virginia Department of Health, Office of Drinking Water
DWSRF Allocation Summary**

	Total Federal Funds Available by Fiscal Year	Federal Construction Loan Funds Allocated	Set-Asides Allocated for the Year	State Match Allocated for the Year	Award Amount
FY97	24,142,768	22,965,072	1,177,696	5,888,480	30,031,248
FY98	19,194,932	11,116,240	8,078,692	2,779,060	21,973,992
FY99	14,563,600	13,385,819	1,177,781	2,912,720	17,476,320
FY00	15,135,800	13,843,960	1,291,840	3,027,160	18,162,960
FY01	15,198,400	13,453,271	1,745,129	3,531,060	18,729,460
FY02	11,127,600	9,753,958	1,373,642	4,500,000	15,627,600
FY03	11,060,700	9,178,787	1,881,913	4,500,000	15,560,700
FY04	11,473,900	9,649,860	1,824,040	2,294,780	13,768,680
FY05	11,449,600	9,402,656	2,046,944	2,289,920	13,739,520
FY06	8,761,500	7,090,890	1,670,610	1,752,300	10,513,800
FY07	9,841,124	6,661,460	3,179,664	1,968,225	11,809,349
FY08	8,679,899	6,596,723	2,083,176	1,735,980	10,415,879
TOTAL	160,629,823	133,098,696	27,531,127	37,179,685	197,809,508

Summary of VDH Set-Asides Reserved and Awarded

4% Set-Aside	Total Federal Allocation	Max Allowable	Amt Awarded	Amt Reserved in IUP	Amt Recaptured	Amt Remaining
FY97	29,442,400	1,177,696	1,177,696	0	0	0
FY98	13,895,300	555,812	555,812	0	0	0
FY99	14,563,600	582,544	582,544	0	0	0
FY00	15,135,800	605,432	605,432	0	0	0
FY01	15,198,400	607,936	575,776	32,160	0	32,160
FY02	11,127,600	445,104	314,236	130,868	0	130,868
FY03	11,060,700	442,428	442,428	0	0	0
FY04	11,473,900	458,956	458,956	0	0	0
FY05	11,449,600	457,984	457,984	0	0	0
FY06	8,761,500	350,460	350,460	0	0	0
FY07	9,841,124	393,645	556,673	0	163,028	(163,028)
FY08	8,679,899	347,196	347,196	0	0	0
TOTAL	160,629,823	6,425,193	6,425,193	163,028	163,028	0

2% Set-Aside	Total Federal Allocation	Max Allowable	Amt Awarded	Amt Reserved in IUP	Amt Recaptured	Amt Remaining
FY97	29,442,400	588,848	588,848	0	0	0
FY98	13,895,300	277,906	277,906	0	0	0
FY99	14,563,600	291,272	291,272	0	0	0
FY00	15,135,800	302,716	302,716	0	0	0
FY01	15,198,400	303,968	166,028	137,940	0	137,940
FY02	11,127,600	222,552	96,368	126,184	0	126,184
FY03	11,060,700	221,214	85,540	135,674	0	135,674
FY04	11,473,900	229,478	0	229,478	0	229,478
FY05	11,449,600	228,992	0	228,992	0	228,992
FY06	8,761,500	175,230	44,000	131,230	0	131,230
FY07	9,841,124	196,822	196,822	0	0	0
FY08	8,679,899	173,598	173,598	0	0	0
TOTAL	160,629,823	3,212,596	2,223,098	989,498	0	989,498

10% Set-Aside	Total Federal Allocation	Max Allowable	Amt Awarded	Amt Reserved in IUP	Amt Recaptured	Amt Remaining
FY97	29,442,400	2,944,240	294,424	2,649,816	0	2,649,816
FY98	13,895,300	1,389,530	277,906	1,111,624	0	1,111,624
FY99	14,563,600	1,456,360	105,149	1,351,211	0	1,351,211
FY00	15,135,800	1,513,580	239,902	1,273,678	0	1,273,678
FY01	15,198,400	1,519,840	261,075	1,258,765	0	1,258,765
FY02	11,127,600	1,112,760	611,036	501,724	0	501,724
FY03	11,060,700	1,106,070	1,001,945	104,125	0	104,125
FY04	11,473,900	1,147,390	1,021,084	126,306	0	126,306
FY05	11,449,600	1,144,960	1,144,960	0	0	0
FY06	8,761,500	876,150	876,150	0	0	0
FY07	9,841,124	984,112	1,934,112	0	950,000	(950,000)
FY08	8,679,899	867,990	867,990	0	0	0
TOTAL	160,629,823	16,062,982	8,635,733	8,377,249	950,000	7,427,249

VIRGINIA'S CURRENT YEAR PROGRAM OVERVIEW

The Virginia DWSRF Program activity incorporates the federal, state match, program revenue and repayments, and miscellaneous additional funds to implement the statewide programs to insure adequate and safe drinking water to citizens. The construction loan and grant funds, in conjunction with the set-aside funds, provide funding sources for infrastructure projects, planning projects, sample testing, capacity development initiatives, state administrative costs, training, technical assistance, wellhead and source water protection, and other activities designed to enhance the state's water programs.

The construction funds will be provided to waterworks that serve less than 10,000 persons, with 30% of the grant allotted to disadvantaged waterworks. Actual usage of the 30% is subject to individual determinations on loan terms for each applicant meeting the definition of disadvantaged. The attached Project Priority List (Attachment 1) details the construction projects to be funded, in priority order, with a funding breakdown and other relevant project information. The Comprehensive Project List (Attachment 2) details all eligible projects submitted during this state application process, and provides additional projects to be funded, should funding become available.

The set-aside funds will be used to maintain and advance waterworks support initiatives that contribute to the sustainability of safe drinking water. The set-asides funds are made available to assist waterworks owners in preparing for future waterworks challenges. Although the waterworks will be the direct benefactors of these funding efforts, the initiatives may originate with any number of concerned parties and may be used in cooperative efforts with other entities to maximize the outcome.

VDH is requesting twenty-four percent (24%), or \$2,083,176, of the thirty-one percent (31%) available for current year set-asides, and ODW will allocate all eligible pre-award costs to the grant, retroactively upon award.

Of the thirty-one percent (31%) total set-aside funding available, seven percent (7%) of the Local Assistance and other State Programs funding was not requested, leaving an additional \$607,593 for funding of eligible construction projects.

LONG AND SHORT TERM GOALS

The Virginia Department of Health is committed to promoting and protecting the health of Virginians. That mission is supported by a number of critical functions including activities implemented by the Office of Drinking Water (ODW). ODW supports the mission through regulatory, technical, and financial programs designed to enhance the quality of water provided to the citizens of the Commonwealth. The Virginia Drinking Water State Revolving Fund (DWSRF) program provides VDH with the means to achieve these goals.

VDH has a goal to utilize the DWSRF resources to provide a long-term, sustainable program focused on providing technical, financial, and managerial resources to waterworks owners. VDH will accomplish this through an integrated assistance program to provide technical and financial resources targeted to waterworks that exhibit a specific need for assistance. VDH has established the following priorities for the DWSRF program:

A. Long Term

- Insure the integrity and longevity of the DWSRF program and related funding to benefit the greatest number of Virginians over the greatest number of years.
- Protect the public health and welfare by planning and directing activities that assure adequate water quantity and quality are provided to users of waterworks.
- Assist waterworks owners in complying with federal and state mandated drinking water regulations through programmatic, technical, and construction assistance.
- Assist waterworks owners to develop strategies for maintaining adequate capacity (managerial, technical, and financial capability and well-trained operators) to provide safe drinking water for the long term.
- Assist waterworks owners in the protection of their source waters by developing or assisting to develop source water protection programs.
- Assist waterworks owners in correcting problems related to drinking water quality through both programmatic and construction assistance.
- Market the technical and financial assistance available to waterworks owners and consumers.
- Provide assistance and education to waterworks owners to develop long-term strategies for sustainable infrastructure.

B. Short Term

- Allocate DWSRF Program money as soon as possible so Virginians may benefit.
- Assist waterworks owners by creating innovative technical assistance programs.
- Promote consolidation and regionalization of water supplies and waterworks through both programmatic and construction assistance.
- Provide a source of low cost financing for drinking water needs.
- Require that all new Community and Nontransient Noncommunity water systems beginning operation after October 1, 1999, demonstrate the technical, financial, and managerial capacity required to operate a waterworks.
- Insure that operator certification regulations meeting EPA national requirements are applied and that coordination is achieved to provide training courses, especially for the lower classifications of licensed operators needed at the smaller waterworks.

DEMONSTRATION PROJECT FOR STATE OF VIRGINIA

The SDWA authorizes Virginia to establish a special demonstration project to loan funds to a regional endowment to "...finance new drinking water facilities..." in an area of Southwest Virginia encompassing Planning Districts 1 and 2. This endowment was established to assist in meeting the special needs of Southwest Virginia. In prior years, VDH elected to provide a total of \$10 million from its capitalization grants as loans to the endowment. That goal has been reached and no additional funding is provided. The relationship between this special endowment program and the Virginia DWSRF Program is that of the loan and the common goal of correcting health needs.

TRANSFER OF FUNDS

Subject to the maximums allowed under the SDWA, set-aside funds may be transferred between another set-aside or between the State Loan Fund, but no grant payments (per the DWSRF Program Rule) for the State Loan Fund may be transferred to a set-aside. No transfers are expected.

No Department of Environmental Quality (DEQ) CWSRF repayment revenue is planned for transfer into the DWSRF Program under Section 302 of the Safe Drinking Water Act Amendments of 1996. Such transfer funds can only be used as loan funds, not grants. VDH has not requested funds from DEQ as VDH's drinking water projects that are ready to proceed can be fully funded without a transfer.

FINANCIAL HEALTH

The DWSRF Program will be managed to maximize both the tangible and intangible benefits available to waterworks owners and Virginians. The financial health of the program is reflected in both the active non-construction activities and in loans. Both areas are integrated and affect the other's success, i.e. activities promoting or enhancing delivery of a safe potable drinking water reduce the demand on the loan area by insuring the long-term well being of the waterworks. A State Loan Fund will be maintained in perpetuity for providing financial assistance as authorized and limited by the SDWA. A State Loan Fund will be maintained in accordance with the SDWA and will be credited with all payments, repayments of principal and interest on loans, interest on loan accounts and any other source of income accruing to a State Loan Fund. By coordinating the two areas of non-construction and project loans, the overall long-term financial health of the program will be maintained for the maximum benefit of Virginians. This coordination will be done by the strategic coupling of programmatic considerations with the results of a planning model that examines the aggregate effects of altering financial parameters of the program. Procedures will be revised or implemented, as needed, based on the results of the annual assessment. Virginia is currently assessing the financial structure of the overall program and initiating actions to further advance the financial sustainability of the program in later years. The changes will be reflected in the FY2009 IUP and grant application, and will specifically address principal forgiveness ratios, administrative fees and interest rates assessed on loans, along with investment functions for the fund itself.

In the Disadvantaged Program as described in VDH's *Program Design Manual*, loan subsidies in the form of principal forgiveness will decrease the loan funds available; however, principal forgiveness coupled with a comprehensive business plan (capacity development) will reduce the demand on the loan fund by insuring the long term well-being of the waterworks. These

initiatives allow waterworks to undertake projects they could not otherwise construct and, therefore, protect the public health. This strategy is one of the strong themes encouraged by Congress.

A unique feature of the Virginia DWSRF Program is the federal statutory language allowing a pilot demonstration project in Southwest Virginia. The Commonwealth has made loan(s) to a regional endowment, and such loan(s) will be repaid with terms and conditions in the same manner as all other project loans. These loan funds will be invested; investment proceeds can be for uses other than normally specified by Congress to assist communities in Southwest Virginia in correcting water problems.

USE OF FUNDS **PROJECTS:**

The Project Priority List (Attachment 1) contains those construction projects VDH targets to receive dollars from this year's funding. The Comprehensive Project List (Attachment 2) shows the ranking of all projects submitted during the state application process.

SET-ASIDES:

The set-asides are four categories of non-project funds that will be used for specified purposes up to a maximum amount allowable by federal statute and available through the current year grant award. Schedule 3 lists the suggested uses of set-aside funds proposed during the solicitation or public input phase of IUP development. Attachment 3 outlines the detailed workplan and budgeted spending for this IUP set-aside funding. An overview of major funding initiatives for the set-aside funds is given below.

A. Administration and Technical Assistance: \$347,196 is the entire 4% available and allowed for the current year.

1. Administration – These funds will support the administrative functions of the Program, including one (1) critical staff position supported in prior years by this funding source. This position is one of the Project Engineers. The estimated annual cost of this position is \$105,037. Other administrative costs pertain to the review of applications and selected projects, application workshops, environmental reviews, analysis of applicants' ability to repay loans, and VDH travel to EPA/CIFA meeting.

From this grant, VDH has budgeted \$218,201 to the Virginia Resources Authority (VRA) for credit analysis summaries for each project, project loan closings, funding disbursements, accounting tasks, compliance review of closed loans, annual audit of the construction loan fund, and participation with VDH in EPA's annual onsite program review.

Funds are also provided for legal assistance in contract renewals/commitments and audit services in the amounts of \$3,000 each.

2. Technical Assistance – No new money is added this year.

B. Small System Technical Assistance: \$173,598 is the entire 2% available and allowed.

1. Funding is provided to support two (2) part-time inspector positions to cover transient non-community waterworks. Funding is provided in the amount of \$41,140.
2. Training - Provide specialty seminars and training events for waterworks owners/operators on various topics. Virginia Tech was awarded a contract in the amount of \$155,295 and \$130,458 is requested from this year's funding for that purpose. Funds were provided in earlier grants; new money is added this year. An additional \$2,000 is provided for scholarships to training courses for disadvantaged operators/owners.

C. State Program Management: \$867,990 is the entire 10% available and allowed for the current year.

1. Public Water System Supervision

- Improve the process to implement new federal rules. Funds will pay for one (1) part-time position to coordinate the efforts needed by the state to develop and process the adoption of any necessary regulations. Funds were provided in earlier grants; new money is added this year.
- Continue the consolidation of regulatory oversight of the transient noncommunity waterworks within the Office of Drinking Water by supporting nine (9) full-time positions.
- Secure two (2) replacement vehicles for staff travel to meetings and training, and to perform inspections and site visits to waterworks facilities. These funds will also provide for routine repairs and maintenance of these and existing vehicles.
- Continue funds for a contract for a part-time computer support technician's activities to upgrade database.
- Continue funds to support a courier system to deliver required samples to Division of Consolidated Laboratory Services (DCLS).

2. Source Water

- Improve VDH's ability to assist waterworks to implement new federal rules. Funds will pay for one (1) FTE to coordinate the efforts needed by the state to oversee source water activities including specialized projects in Karst areas, contracts to waterworks to do specialized studies, and independent studies initiated by VDH. This IUP continues funding included in earlier grants.

3. Capacity Development

- No activity under the 10% capacity development; funded under 15% set-aside.

4. Operator Programs

- Contract with Virginia Tech to conduct Waterworks Operators Short Courses and Class VI Operators Short Courses.
- Continue activity from prior grant to provide support for the distance learning website at Mountain Empire Community College. New funds will be added to continue this activity.

D. Local Assistance and other State Programs: \$694,392 which is 8.0% instead of the entire 15% available and allowed, with no more than 10% in a category.

Loan and Protection Measures – No new money is added this year.

Capacity Development

- Funding for one (1) full-time and one (1) part-time position to develop and oversee all capacity development programs, data collection, and reporting. Expenditures also include travel related to program development and data collection.
- Technical Assistance - continue funds for capacity development/project planning technical assistance grants. New money is added this year.
- Leak detection program grant – this new activity will assist waterworks owners by providing specific funds for leak detection activities. The results will provide owners the information needed to upgrade aged waterlines. Funds were provided in earlier grant; new money is added this year (2005 IUP activity).
- Short course entitled “Establishing a Successful and Sustainable Waterworks: Revenues, Rates, and Funding Short Course” will assist waterworks owners in identifying their funding, staffing and other needs as well as how to approach budgeting, rate making and business plan development. New money is added this year (2007 IUP activity).
- Purchase computer printing equipment for the Central Office training staff. The printers will be used to prepare training material for conducting the short courses. The projected cost is \$1,000.

Source Water – No new money is added this year.

Wellhead Protection

- Funds are proposed for use in supplementing existing state efforts to further protect source water. Collaboration has been established between Virginia Department of Environmental Quality (DEQ) and ODW to further initiatives begun in 2005. While DEQ assumes the lead in funding and coordination with waterworks, ODW provides funding and project approval input.

Over the past year, increased funding coordination and collaboration has occurred between DEQ and ODW in an effort to optimize the state's program and resources. Recently, DEQ has submitted four (4) reimbursement requests for projects, and three (3) projects have been newly-awarded which total \$182,858. Funds were provided in earlier grants and new money is added this year.

Contractual – a new RFP will be issued to continue and expand upon the Source Water Protection Program services that were being provided by the Olver contract. There are twenty (20) Virginia waterworks with wellhead protection plans in various stages of development. See attached draft schedule of Plans in Development as of 07/18/07. New funding will be added this year.

Receivership Program

- The Virginia legislature has granted the State Health Commissioner statutory authority to petition the circuit court to place a waterworks into receivership. The pilot program, however, has not been implemented.

Receivership is a limited tool in VDH's enforcement arsenal. Although there are continuing procurement issues that VDH must still address for ease of administration, VDH has the authority and capability to petition a court to place a waterworks into receivership, if necessary. Several years ago VDH solicited its field offices for possible receivership cases and determined that none fit the criteria. It is extremely difficult to project potential funding needs for possible receivership cases in the future. VDH cannot anticipate when a waterworks may be referred from a field office that will fit the criteria for receivership, nor the size of such waterworks--both factors having a direct correlation to the amount of money needed to hire a receiver to operate and maintain the waterworks for approximately one year while the waterworks is in receivership.

Virginia Department of Health, Office of Drinking Water
HFY2008 DWSRF Set-Aside Suggested Use Schedule
HSchedule 3

H

HThe Virginia Department of Health received these suggestions during the solicitation / public input phase of developing the Intended Use Plan, and considered them in the development of the set-aside portion of the Intended Use Plan.

H

<u>H Name</u>	<u>Suggested Amount</u>	<u>Activity Description</u>	<u>Funded Yes/No</u>	<u>Amount</u>
<u>H</u> Jim Spencer, Tazewell County	\$50,000.00	Requesting that at least \$50,000 be made available for leak detection either in stand alone projects or part of planning projects.	Yes	\$50,000.00
<u>H</u> Mountain Empire Community College	\$52,000.00	To support continued development of the web site by hiring a full time Information Technology Specialist to enter material on the web and purchase of computer software, peripherals and expendable materials related to the computer.	Yes	\$46,000.00
<u>H</u>	-	-	-	-
<u>H</u> TOTALS	\$102,000.00		-	\$96,000.00

H

ATTACHMENT 1

FY 2008 Virginia DWSRF Program										Designation Codes:											
										H = health											
										O = other											
										N = not eligible											
										P = in pipeline; pending											
										I I	projects are in the pipeline for correction of problems										
										V	with their response/lack of response to our solicitation request.										
PWS ID	County or City	Owner Name	Owner Type	Project Name	Project Description	Project Problem	Project Benefit	Population	Project Connections	Designation	Activity	Point Total	Rank	Project Total Cost	Requested Amount	Eligible Amount (estimated) from this Grant	Cummulative	Grant Remaining			
13,642,344																					
2165466	Rockingham	Lilly Gardens Subd Sanitary District	P-O	Lilly Gardens Sanitation-Lilly System Upgrade	Installation of 8,000 linear feet of 4" water line.	The existing well is classified as groundwater under the influence of surface water.	The connection to a municipal source will provide the 62 residences with a reliable, safe public water supply.	165	62	H		61	1	\$456,490	\$456,490	456,490	456,490	13,185,854			
2015120	Augusta	Augusta County Service Authority	P-O	ACSA- Churchville Membrane Filtration Project	The project will consist of a 480 sf addition to the Churchville Well no. 3 treatment building, a 240,000 gpd membrane filtration system, 750 gallon filtration tank, addition of a 50 gpm pump for the Crawford Manor well 7,200 LF of 4 inch pipe, and replacement of the existing submersible pump at Well No. 3.	Water samples from Well No. 3 have occasionally yielded positive results for both total and fecal coliform. VDH is analyzing data and a declaration of groundwater under the influence of surface water is likely to occur.	Installation of membrane filtration treatment will provide the residents with a safe public water supply with increased protection against gastrointestinal illnesses through improvements in filtration and will allow the Crawford well to return to service (currently GUIDSW).	1103	418	H		22	2	\$1,029,500	\$1,026,892	1,026,892	1,483,382	12,158,962			
1169650	Scott	Scott County Public Service Authority	P-O	Scott Co. PSA- Little Valley Water Project	Installation of 21,146 LF of 6" water line; installation of 250 LF of 2" water line; installation of 2,150 LF of 3/4" water line; installation of 11 fire hydrants for fire protection; installation of one (1) PRV Station; installation of all water service line appurtenances; new water service offered to 30 households; and improved water service to 12 existing customer households.	Samples collected from private wells were positive for both fecal and total coliform. Most of these private wells are in Karst topography and are therefore susceptible for surface water influence.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality.	118	42	H		27	3	\$743,083	\$743,083	267,510	1,750,892	11,891,452			
1051728	Dickenson	Dickenson County Public Service Authority	P-O	Dickenson Co. PSA-Multi-C Water Project	The proposed project will consist of approximately 84,550 LF of 4" and 6,050 LF of 2" water line and appurtenances, six (6) pump stations, two (2) hydropneumatic tanks, four (4) 10,000 gravity tanks, and one (1) pressure reducing station.	Samples collected from private wells in these communities were positive for both fecal and total coliform. Over 50% of the samples collected exceeded the SMCL for iron and manganese.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality.	353	126	H		27	4	\$2,483,000	\$1,200,000	480,000	2,230,892	11,411,452			
1169200	Scott	Scott County Public Service Authority	P-O	Scott Co. PSA- Fort Blackmore Water Extension	The proposed project will include installation of 45,544 LF of 8" water line; installation of 2,613 LF of 6" water line; installation of 2,400 LF of 2/4" water line; installation of 23 fire hydrants for fire protection; installation of one (1) PRV station; installation of all water service line appurtenances; and new water service to 96 total households.	Samples collected from private wells were positive for total coliform. Over 65% of the samples collected exceeded the SMCL for iron and manganese. These wells are located in Karst topography.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality.	269	96	H		27	5	\$1,669,479	\$1,669,479	534,233	2,765,125	10,877,219			

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1195100	Wise	Big Stone Gap, Town of	P-O	Town of Big Stone Gap Water System Replacement	The proposed project includes renovation and improvements to the existing 4.0 MGD WTP and the construction of approximately 115,000 LF of 8" and smaller waterline to replace existing inadequate waterline. WTP work will consist of improvements to the raw water intake, replacement and improvement of the chemical application system, enhancement to the existing settling basins, filter media replacement, control equipment upgrades, and a new SCADA system. Waterline will be replaced with 12 inch, 8 inch, 6 inch and 4 inch lines.	The town's water treatment plant is in need of renovation. The distribution system contains old galvanized water lines which are leaking and often undersized. Unaccounted for losses exceed 30%.	Renovation of the water plant and replacement of failing water lines will provide the residents reliable public water supply with adequate pressure and will reduce the town's operation and maintenance costs.	8467	3528	H		51	6	\$8,113,000	\$2,242,890	1,121,445	3,886,570	9,755,774
3001833	Accomack	Tangier, Town of	P-O	Tangier Island Water System Upgrade	The Town of Tangier's water system is in need of major repair/rehab work. The initial phase includes installation of water meters on all residential and commercial connections so a billing structure can be set up to recover revenues. Currently the water billing is on a flat monthly rate. A new well will be constructed and the existing elevated storage tank will be rehabilitated. The tank shows significant rust on the outside.	The town does not collect water bills on an as-consumed basis. Revenues have lagged expenses and the distribution system is in need of repair. Existing wells are not cased and are often inundated by the Chesapeake Bay. As new wells are added, the existing wells will be abandoned.	Installation of 330 meters will enable residents to be billed on an as-consumed basis. A new well would be built to meet current standards and would provide a safer water source.	604	311	H		50	7	\$936,280	\$936,280	936,280	4,822,850	8,819,494
1750100	Radford	Radford, City of	P-O	Radford City-Raw Water Intake Extension Project	The installation of approximately 620 LF of 30-inch raw water intake line; 2,430 LF of 3-inch compressed air line; four 33-inch passive intake screens; one air backwash system and other associated appurtenances required to replace the raw water intake for the City of Radford WTP.	The existing raw water intake structure is susceptible to sedimentation due to its proximity to the Little River and its influence on the New River's flow.	Extending the intake structure further into the New River and lowering the elevation will provide the city with a more reliable source of raw water during low flow conditions.	15859	4609	H		38	8	\$1,342,525	\$1,195,525	1,195,525	6,018,375	7,623,969
2770900	Roanoke County	Western Virginia Water Authority	P-O	Orange Avenue Line Rehabilitation	Rehabilitate 2,650 feet of the failed 1950's era 12-inch diameter cast iron pipe using a selected trenchless rehabilitation process.	The existing line being replaced is over 50 years old and fail frequently. Line repairs require disruption of traffic on Orange Ave. which is a major roadway.	The replacement of the water line will provide a more reliable water service to the residents plus eliminate major traffic disruptions.	310	132	H		36	9	\$400,000	\$400,000	400,000	6,418,375	7,223,969
1167050	Russell	Russell County Water & Sewage Authority	P-O	Kingland Heights - West View Water Line Replacement	The project will replace the existing water line around the Kingland Heights loop and will be reconnected to the 8" main adjacent to Castlewood High School. The project includes 7,500 LF of 6" water line and 1,020 LF of 4" water line.	Existing water lines being replaced are 2" and 3" diameter lines that run under a quarry stockpile area and experience frequent breaks and leaks. Some of the line is galvanized.	The project will improve the reliability of service to the 41 existing residences by replacing water lines that frequently fail.	104	41	H		35	10	\$446,492	\$417,530	417,530	6,835,905	6,806,439

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1195650	Wise	Pound, Town of	P-O	Town of Pound's Downtown Waterline Replacement Project	Installation of 3,800 LF of 6-inch water line; installation of 2 fire hydrants; restoration of 3,800 LF; and 25 service connections.	The town's accountability is less than 40%. The town wants to replace old downtown water lines in conjunction with its downtown revitalization project.	This project will provide the town with a more reliable water supply by eliminating losses in the downtown area.	2725	1090	H		28	11	\$270,740	\$270,740	270,740	7,106,645	6,535,699				
1035295	Carroll 3	Hillsville, Town of	P-O	Town of Hillsville Motley Hill Tank Improvements	Construct approximately 19,735 LF of 2", 6", 8", and 10" waterlines, a new Motley Hill finished water booster station, a 100,000 gallon water storage tank that is expandable to 200,000 gallon, related appurtenances, demolition of the existing hydro-tank and associated booster station.	Existing water lines are old and often leak and existing hydro tank needs to be replaced.	This project will provide the town with a more reliable water supply by eliminating frequent losses. Increased storage in the high pressure area will provide more effective storage for the low pressure area.	2229	796	H		28	12	\$1,075,695	\$1,075,695	1,075,695	8,182,340	5,460,004				
1185105	Tazewell 2	Tazewell County Public Service Authority	P-O	Cedar Land Farms Water System Rehab/replacement	This project consists of the rehab/replacement of approximately 21,400 LF of 6-inch water line; 5,000 LF of 4-inch water line; 350 LF of 2-inch water line; and approximately 5,250 LF of 3/4-inch service line.	Unaccounted for water losses in this system is approximately 35%.	Residents will receive water from a safe reliable supply with adequate pressure and quantity.	2912	1120	H		27	13	\$1,216,147	\$1,216,147	1,216,147	9,398,487	4,243,857				
2003443	Albemarle	Little Keswick Enterprises LLC	I-O	Little Keswick School New Building	This project includes a new source and improvements to the existing distribution system.	The existing distribution system is over 40 years old. A new source is needed to provide adequate service and pressure.	The addition of a new source and upgrades to the distribution system will provide adequate water pressure and flow to the school buildings and residences.	81	10	H		15	14	\$51,730	\$51,730	0	7,527,116	4,243,857				
2560100	Alleghany	Clifton Forge, Town of	P-O	Clifton Forge Metering Program - Phase II	This project involves the installation of 926 water meters for existing water customers. The majority of the beneficiaries are residential customers.	Town's water system has few water meters and no way to accurately determine system leakage which is estimated to be approximately 40% using generally accepted consumption figures.	This project will give the Town the ability to manage the water system and help to determine the amount of water loss that is occurring in the system. Phase II is a continuation of the water meter installation project that began in 2007.	2593	926	H		32	15	\$1,250,000	\$1,250,000	1,537,450	10,314,566	2,706,407				

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2560100	Alleghany	Clifton Forge, Town of	P-O	Town of Clifton Forge Phase I WTP Improvements	The proposed project includes filter media replacement, filter valves and controls replacement, installation of a streaming current monitor, flash mix basin and tube settler installation and the construction of a new motor control center.	The town has received a Notice of Violation from VDH for failure to maintain the water plant in a reliable operable condition.	The NOV requires the town to replace all filter media, repair all filter control valves and rate of flow controllers, and install coagulation control equipment. Residents will benefit from a more up to date WTP.	4289	1471	H		32	16	\$1,057,996	\$1,057,996	1,250,000	8,777,116	1,456,407
1169200	Scott 1	Scott County Public Service Authority	P-O	Scott Co. PSA-Blackwater Water Project	Installation of 48,000 LF of 6" water line; installation of 5,800 LF of 4" water line; installation of 3,000 LF of 2" water line; installation of 1,400 LF of 3/4" water line; installation of one (1) 22,000 gallon water storage tank; installation of one (1) water booster station; installation of water service line appurtenances; and new water service offered to 70 households.	Samples collected from private wells were positive for both E. coli and total coliform. Most of these private wells are in Karst topography and are also experiencing declining production due to drought conditions.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality and declining quantity.	196	70	H		21	17	\$1,802,567	\$1,787,567	0	8,777,116	1,456,407
1191883	Washington	Washington County Service Authority	P-O	WCSA-Red Fox Lane Waterline Extension	The project would connect to an existing 4 inch water line paralleling Clinchburg Road and extend it 3,125 feet to the south along Red Fox Lane and then Racon Drive.	Samples collected from private wells were positive for both E. coli and total coliform.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality and declining quantity.	50014	18966	H		19	18	\$72,491	\$63,491	0	3,886,570	1,456,407
1191883	Washington	Washington County Service Authority	P-O	WCSA-Rich Valley Rd/Maiden Creek Rd WL Extension	The project provides for extending water lines to the project area from the existing Rt. 740 pressure zone and the Blackwell Chapel pressure zone. Improvements include 30,974 feet of 6 inch waterline, 2,620 feet of 4 inch waterline, one (1) pressure reducing station and associated valves; hydrants, etc.	Water samples collected from existing private wells were positive for total coliform and E. coli contamination.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality.	130	46	H		18	19	\$1,101,936	\$1,035,936	1,035,936	4,922,506	420,471
1185685	Tazewell	Tazewell County Public Service Authority	P-O	Raven/Doran Water	This project consists of the rehab/replace of approximately 2,800 LF of 10-inch water line; 1,000 LF of 8-inch water line; 21,870 LF of 6-inch water line; 13,440 LF of 4-inch water line; 790 LF of 2-inch water line; and approximately 23,400 LF of 3/4 inch service line.	Experiencing problems with water loss and leaks in the water lines.	The project will improve the water pressure with the rehab/replace of water lines.	3408	1271	H		27	20	\$2,143,173	\$2,143,173	420,471	7,527,116	0
2015725	Augusta	Augusta County Service Authority	P-O	ACSA-Berry Farm Membrane Filtration Project	The project will consist of a 1,050 of addition to the Berry Farm Treatment Building, a 1 MGD membrane filtration system, replacement of the existing ion exchange softener system, a 24,500 gallon filtrate tank, a new raw water pump station (500-700 gpm capability), and associated appurtenances and equipment.	Water samples are showing more frequent positive results for both total and fecal coliform. VDH is analyzing data and a declaration of groundwater under the influence of surface water is likely to occur.	Installation of membrane filtration treatment will provide the residents with a safe public water supply.	1618	613	H		17	21	\$1,505,700	\$1,505,700	10,314,566	0	

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4057800	Essex	Tappahannock, Town of	P-O	Town of Tappahannock - Water Loop	Approximately 1,000 LF of 10 inch water line and a "T" that will connect two dead end sections of the Town's water system.	The existing configuration of the distribution system has two dead-end sections with inadequate means to flush and the water has long detention time in the system.	Eliminating the dead-ends by looping the two sections will enable the water to be moved and eliminate the water becoming stale.	2068	1084	O		8	22	\$58,715	\$58,715		10,314,566	0
1105	Lee 1	Lee County Public Service Authority	P-O	Lee Co. PSA- Thompson Settlement Water Extension	Installation of 46,000 LF of 8-inch water line; installation of 1,600 LF of 4-inch water line; installation of 1,500 LF of 2-inch water line; installation of 2,550 LF of 3/4-inch service line; related appurtenances; and 85 residential connections.	Inadequate water quality, quantity and/or contamination of water supply.	This project will provide the residents with safe reliable drinking water.	238	85	I		17	23	\$2,188,361	\$2,158,361		10,314,566	0
1191883	Washington 3	Washington County Service Authority	P-O	WCSA-Mendota Road Phase II	The proposed project would construct 10,500 feet of 8" waterline. This project is the second phase of a larger project which will extend water all the way to the Mendota community.	Water samples collected from existing private wells were positive for total coliform and E. coli contamination.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality.	39	14	I		17	24	\$559,451	\$538,451		10,314,566	0
6033425	Caroline 16	Ladysmith Water Company	I-O	Ladysmith Water Co.-Lake Caroline WTP	Replace existing 400 gpm filters and clarifier with two 400 gpm contact filters and clarifier units enlarge existing clear well by 300,000 gallons.	WTP in need of emergency repairs and immediate major improvements.	The project will provide adequate storage for existing community of Lake Caroline for current and future needs.	2450	980	I		46	25	\$3,000,000	\$3,000,000		10,314,566	0
1035088	Carroll 3	Carroll County Public Service Authority	P-O	Carroll Co. PSA- Airport Road/Route 100 Connector	The proposed Airport Road/Route 100 Connector Project includes approximately 47,000 LF of 10" and smaller water lines and related appurtenances.	Unsafe and unreliable drinking water supply source.	The project will provide a safe reliable source of drinking water to customers.	6496	2320	I		30	26	\$2,323,100	\$2,239,520		10,314,566	0
1520070	Bristol 1	Bristol Virginia Utilities	P-O	Solar Hill- Oakview Water Line Replacement	The project will include 6" DI water line replacement in the Solar Hill area, 12" DI main line replacement on Oakview and Clinton Avenues, replacement of existing galvanized and asbestos-cement water lines with new ductile iron and/or PVC water lines of equal size.	Experiencing problems with old and leaking water lines.	The project will provide a reliable and consistent supply of water.	17308	6834	I		28	27	\$750,000	\$750,000		10,314,566	0

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2187812	Warren 7	Shenandoah Shores Cooperative Water Assoc. Inc.	P-O	SSCWA Improvement Project	Replace 310 gallon hydro tank with 3,500 gallon or nearest standard size; replace 35 gallon hydro tank with 1,200 gallon; install air-vacuum release; replace small mains 1"-2" with 4"; replace 5 HP booster pumps capacity of 55 gpm at 50 PSI with 10 HP 350 gpm.	Experiencing problems with water main leaks and low water pressure.	The project will provide the residents with a consistent flow of water and pressure flow.	1150	289	I		19	28	\$1,076,455	\$876,455		10,314,566	0
6061200	Fauquier 9	Fauquier County Water & Sanitation Authority	P-O	Marshall Water Systems Phase I Improvements	The project consists of 12" of water main for 9,000 LF with all joints, valves and hydrant. This is a component of an overall larger project that will provide two storage tanks, two additional wells and another 10,000 LF main replacement.	Problems with water leakage, pressure and interruption of continuity of water flow.	The project will reduce the problem with water leakage and increase pressure and flow to customers.	1346	464	I		16	29	\$2,199,638	\$2,199,638		10,314,566	0
1077	Grayson 3	Virginia-Carolina Regional Water Auth-Water System	P-O	Virginia-Carolina Regional Water Auth-Water System	The proposed project includes a 1.0 MGD WTP and 19,560 feet of 8" and 12" waterlines, one booster pump station and one (1) 0.5 MG storage tank for VA only improvements.	Inadequate water quality and/or quantity of groundwater sources.	The project will provide a safe reliable water source to the citizens of the regional area.	3931	1810	I		26	30	\$8,001,563	\$1,884,263		10,314,566	0
1169200	Lee 1	Lee County Public Service Authority	P-O	Lee Co. PSA-Blackwater-Lee County Water Project	Installation of 23,200 LF of 8-inch water line; installation of 34,075 LF of 6-inch water line; installation of 1,100 LF of 4-inch water line; installation of 600 LF of 2-inch water line; installation of 12,340 LF of 3/4-inch service line; construction of one (1) 50,000 gallon water storage tank; construction of one (1) water booster station; construction of one (1) pressure-reducing valve; construction of one (1) pressure porportioning valve; related system appurtenances; and 177 residential connections.	Unreliable quality and quantity of water supplies.	The project will provide a safe reliable water supply source.	328	117	I		26	31	\$2,010,876	\$1,010,876		10,314,566	0
1520070	Bristol 1	Bristol Virginia Utilities	P-O	Bristol VA Utilities-WTP Emergency Generator	The project will include construction of a new 50 kW diesel-powered electric generator and transfer switch. The generator will be sized so as to power both the WTP and the intake structure.	Experiencing unreliable electric power service from existing generator	The new generator will improve the power service to the WTP.	17308	6834	I		13	32	\$860,860	\$860,860		10,314,566	0
3131210	Northampton 22	Exmore, Town of	P-O	Town of Exmore Water System Improvements	To develop two new wells including an aquifer test plan, to make repairs and undertake maintenance items including tank painting. Any excess funds will be used to repair sections of the distribution system, service of both pumps at the wells, and to replace the meters for commercial customers with larger meters.	Unreliable drinking water source with the risk of failure to the wells and associated pumps.	The project will allow the Town to continue to provide safe drinking water to the citizens and commercial customers.	1393	606	I		13	33	\$350,000	\$350,000		10,314,566	0

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1173723	Smyth 3	Saltville, Town of	P-O	Town of Saltville #11 Well Development	Installation of a new 300 gpm well pump and membrane filtration treatment system at the site of Well No. 11 with a separate 14 foot diameter chlorine contact tank and finished water pumps. Finished water from Well No. 11 would be pumped through approximately 25 feet of new 6 inch pipe into the existing 8 inch distribution line in the road.	Existing groundwater well source overstressed.	The addition of a new source will lessen the impact and prolong the life of each source.	2480	1016	I		12	34	\$1,368,700	\$1,368,700		10,314,566	0
2770900	Roanoke County 5	Western Virginia Water Authority	P-O	U.S. Rte 220 Waterline Extension Project	The project will extend an existing 12" diameter transmission line in Roanoke County 65,000 feet North in order to supply public water.	Inadequate and unreliable water source with MTBE contamination.	The project will provide a safe reliable drinking water to the public.	213	76	I		10	35	\$5,500,000	\$5,500,000		10,314,566	0
1195050	Wise 1	Appalachia, Town of	P-O	Town of Appalachia WTP & Pump Stations Improvement	The proposed project includes renovation and improvements to the existing 1.0 MGD WTP and replacement of the Exeter and Imboden pumps and motors. The WTP work will consist of replacing the flash mixer, flocculators, filter media, rate of flow controller, headloss gauge, surface wash mechanism, turbidimeters, coagulation control equipment, chemical feed equipment and fixing cracks in the sediment basins.	Unreliable source of water.	The project will provide a safe reliable water source.	2466	1121	N			36	\$300,000	\$300,000		10,314,566	0

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																		13,642,344						
2165466	Rockingham	Lilly Gardens Subd Sanitary District	P-O	Lilly Gardens Sanitation-Lilly System Upgrade	Installation of 8,000 linear feet of 4" water line.	The existing well is classified as groundwater under the influence of surface water.	The connection to a municipal source will provide the 62 residences with a reliable, safe public water supply.	165	62	H		61	1	\$456,490	\$456,490	456,490	456,490	13,185,854						
2015120	Augusta	Augusta County Service Authority	P-O	ACSA- Churchville Membrane Filtration Project	The project will consist of a 480 sf addition to the Churchville Well no. 3 treatment building, a 240,000 gpd membrane filtration system, 750 gallon filtration tank, addition of a 50 gpm pump for the Crawford Manor well, 7,200 LF of 4 inch pipe, and replacement of the existing submersible pump at Well No. 3.	Water samples from Well No. 3 have occasionally yield positive results for both total and fecal coliform. VDH is analyzing data and a declaration of groundwater under the influence of surface water is likely to occur.	Installation of membrane filtration treatment will provide the residents with a safe public water supply and will allow the Crawford well to return to service (currently GUIDSW).	1103	418	H		22	2	\$1,029,500	\$1,026,892	1,026,892	1,483,382	12,158,962						
1169650	Scott	Scott County Public Service Authority	P-O	Scott Co. PSA- Little Valley Water Project	Installation of 21,146 LF of 6" water line; installation of 250 LF of 2" water line; installation of 2,150 LF of 3/4" water line; installation of 11 fire hydrants for fire protection; installation of one (1) PRV Station; installation of all water service line appurtenances; new water service offered to 30 households; and improved water service to 12 existing customer households.	Samples collected from private wells were positive for both fecal and total coliform. Most of these private wells are in Karst topography and are therefore susceptible for surface water influence.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality.	118	42	H		27	3	\$743,083	\$743,083	267,510	1,750,892	11,891,452						
1051728	Dickenson	Dickenson County Public Service Authority	P-O	Dickenson Co. PSA-Multi-C Water Project	The proposed project will consist of approximately 84,544 LF of 5" and 6,050 LF of 2" water line and appurtenances, six (6) pump stations, two (2) hydropneumatic tanks, four (4) 10,000 gravity tanks, and one (1) pressure reducing station.	Samples collected from private wells in these communities were positive for both fecal and total coliform. Over 50% of the samples collected exceeded the SMCL for iron and manganese.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality.	353	126	H		27	4	\$2,483,000	\$1,200,000	480,000	2,230,892	11,411,452						
1169200	Scott	Scott County Public Service Authority	P-O	Scott Co. PSA- Fort Blackmore Water Extension	The proposed project will include installation of 45,544 LF of 8" water line; installation of 2,613 LF of 6" water line; installation of 2,400 LF of 2 1/2" water line; installation of 23 fire hydrants for fire protection; installation of one (1) PRV station; installation of all water service line appurtenances and new water service to 96 total households.	Samples collected from private wells were positive for total coliform. Over 65% of the samples collected exceeded the SMCL for iron and manganese. These wells are located in Karst topography.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality.	269	96	H		27	5	\$1,669,479	\$1,669,479	534,233	2,765,125	10,877,219						

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1195100	Wise	Big Stone Gap, Town of	P-O	Town of Big Stone Gap Water System Replacement	The proposed project includes renovation and improvements to the existing 4.0 MGD WTP and the construction of approximately 115,000 LF of 8" and smaller waterline to replace existing inadequate waterline. WTP work will consist of improvements to the raw water intake, replacement and improvement of the chemical application system, enhancement to the existing settling basins, filter media replacement, control equipment upgrades, and a new SCADA system. Waterline will be replaced with 12 inch, 8 inch, 6 inch and 4 inch lines.	The town's water treatment plant is in need of renovation. The distribution system contains old galvanized water lines which are leaking and often undersized. Unaccounted for losses exceed 30%.	Renovation of the water plant and replacement of failing water lines will provide the residents a reliable public water supply with adequate pressure and will reduce the town's operation and maintenance costs.	8467	3528	H		51	6	\$8,113,000	\$2,242,890	1,121,445	3,886,570	9,755,774											
3001833	Accomack	Tangier, Town of	P-O	Tangier Island Water System Upgrade	The Town of Tangier's water system is in need of major repair/rehab work. The initial phase includes installation of water meters on all residential and commercial connections so a billing structure can be set up to recover revenues. Currently the water billing is on a flat monthly rate. A new well will be constructed and the existing elevated storage tank will be rehabilitated. The tank shows significant rust on the outside.	The town does not collect water bills on an as-consumed basis. Revenues have lagged expenses and the distribution system is in need of repair. Existing wells are not cased and are often inundated by the Chesapeake Bay. As new wells are added, the existing wells will be abandoned.	Installation of 330 meters will enable residents to be billed on an as-consumed basis. A new well would be built to meet current standards and would provide a safer water source.	604	311	H		50	7	\$936,280	\$936,280	936,280	4,822,850	8,819,494											
1750100	Radford	Radford, City of	P-O	Radford City-Raw Water Intake Extension Project	The installation of approximately 620 LF of 30-inch raw water intake line; 2,430 LF of 1/2 inch compressed air line; four 33-inch passive intake screens; one air backwash system and other associated appurtenances required to replace the raw water intake for the City of Radford WTP.	The existing raw water intake structure is susceptible to sedimentation due to its proximity to the Little River and its influence on the New River's flow.	Extending the intake structure further into the New River and lowering the elevation will provide the city with a more reliable source of raw water during low flow conditions.	15859	4609	H		38	8	\$1,342,525	\$1,195,525	1,195,525	6,018,375	7,623,969											
2770900	Roanoke County	Western Virginia Water Authority	P-O	Orange Avenue Line Rehabilitation	Rehabilitate 2,650 feet of the failed 1950's era 12-inch diameter cast iron pipe using a selected trenchless rehabilitation process.	The existing line being replaced is over 50 years old and fail frequently. Line repairs require disruption of traffic on Orange Ave. which is a major roadway.	The replacement of the water line will provide a more reliable water service to the residents plus eliminate major traffic disruptions.	310	132	H		36	9	\$400,000	\$400,000	400,000	6,418,375	7,223,969											

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1167050	Russell 2	Russell County Water & Sewage Authority	P-O	Kingland Heights West View Water Line Replacement	The project will replace the existing water line around the Kingland Heights loop and will be reconnected to the 8" main adjacent to Castlewood High School. The project includes 7,500 LF of 6" water line and 1,020 LF of 4" water line.	Existing water lines being replaced are 2" and 3" diameter lines that run under a quarry stockpile area and experience frequent breaks and leaks. Some of the line is galvanized.	The project will improve the reliability of service to the 41 existing residences by replacing water lines that frequently fail.	104	41	H		35	10	\$446,492	\$417,530	417,530	6,835,905	6,806,439		
1195650	Wise 1	Pound, Town of	P-O	Town of Pound's Downtown Waterline Replacement Project	Installation of 3,800 LF of 6-inch water line; installation of 2 fire hydrants; restoration of 3,800 LF; and 25 service connections.	The town's accountability is less than 40%. The town want to replace old downtown water lines in conjunction with its downtown revitalization project.	This project will provide the town with a more reliable water supply by eliminating losses in the downtown area.	2725	1090	H		28	11	\$270,740	\$270,740	270,740	7,106,645	6,535,699		
1035295	Carroll 3	Hillsville, Town of	P-O	Town of Hillsville Motley Hill Tank Improvements	Construct approximately 19,735 LF of 2", 6", 8", and 10" waterlines, a new Motley Hill finished water booster station, a 100,000 gallon water storage tank that is expandable to 200,000 gallon, related appurtenances, demolition of the existing hydro-tank and associated booster station.	Existing water lines are old and often leak and existing hydro tank needs to be replaced.	This project will provide the town with a more reliable water supply by eliminating frequent losses. Increased storage in the high pressure area will provide more effective storage for the low pressure area.	2229	796	H		28	12	\$1,075,695	\$1,075,695	1,075,695	8,182,340	5,460,004		
1185105	Tazewell 2	Tazewell County Public Service Authority	P-O	Cedar Land Farms Water System Rehab/replacement	This project consists of the rehab/replacement of approximately 21,400 LF of 6-inch water line; 5,000 LF of 4-inch water line; 350 LF of 2-inch water line; and approximately 5,250 LF of 3/4-inch service line.	Unaccounted for water losses in this system is approximately 35%.	Residents will receive water from a safe reliable supply with adequate pressure and quantity.	2912	1120	H		27	13	\$1,216,147	\$1,216,147	1,216,147	9,398,487	4,243,857		
2003443	Albemarle 10	Little Keswick Enterprises LLC	I-O	Little Keswick School New Building	This project includes a new source and improvements to the existing distribution system.	The existing distribution system is over 40 years old. A new source is needed to provide adequate service and pressure.	The addition of a new source and upgrades to the distribution system will provide adequate water pressure and flow to the school buildings and residences.	81	10	H		15	14	\$51,730	\$51,730	0	9,398,487	4,243,857		

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2560100	Alleghany 5	Clifton Forge, Town of	P-O	Clifton Forge Metering Program - Phase II	This project involves the installation of 926 water meters for existing water customers. The majority of the beneficiaries are residential customers.	Town's water system has few water meters and no way to accurately determine system leakage which is estimated to be approximately 40% using generally accepted consumption figures.	This project will give the Town the ability to manage the water system and help to determine the amount of water loss that is occurring in the system. Phase II is a continuation of the water meter installation project that began in 2007.	2593	926	H		32	15	\$1,537,450	\$1,537,450	1,537,450	10,935,937	2,706,407		
2560100	Alleghany 5	Clifton Forge, Town of	P-O	Town of Clifton Forge Phase I WTP Improvements	The proposed project includes filter media replacement, filter valves and controls replacement, installation of a streaming current monitor, flash mix basin and tube settler installation and the construction of a new motor control center.	The town has received a Notice of Violation from VDH for failure to maintain the water plant in a reliable operable condition.	The NOV requires the town to replace all filter media, repair all filter control valves and rate of flow controllers, and install coagulation control equipment. Residents will benefit from a more up to date WTP.	4289	1471	H		32	16	\$1,250,000	\$1,250,000	1,250,000	12,185,937	1,456,407		
1169200	Scott 1	Scott County Public Service Authority	P-O	Scott Co. PSA-Blackwater Water Project	Installation of 48,000 LF of 6" water line; installation of 5,800 LF of 4" water line; installation of 3,000 LF of 2" water line; installation of 1,400 LF of 3/4" water line; installation of one (1) 22,000 gallon water storage tank; installation of one (1) water booster station; installation of water service line appurtenances; and new water service offered to 70 households.	Samples collected from private wells were positive for both E. coli and total coliform. Most of these private wells are in Karst topography and are also experiencing declining production due to drought conditions.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality and declining quantity.	196	70	H		21	17	\$1,802,567	\$1,787,567	0	12,185,937	1,456,407		
1191883	Washington 3	Washington County Service Authority	P-O	WCSA-Red Fox Lane Waterline Extension	The project would connect to an existing 4 inch water line paralleling Clinchburg Road and extend it 3,125 feet to the south along Red Fox Lane and then Racoon Drive.	Samples collected from private wells were positive for both E. coli and total coliform.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality and declining quantity.	50014	18966	H		19	18	\$72,491	\$63,491	0	12,185,937	1,456,407		
1191883	Washington 3	Washington County Service Authority	P-O	WCSA-Rich Valley Rd/Maiden Creek Rd WL Extension	The project provides for extending water lines to the project area from the existing Rt. 740 pressure zone and the Blackwell Chapel pressure zone. Improvements include 30,974 feet of 6 inch waterline, 2,620 feet of 4 inch waterline, one (1) pressure reducing station and associated valves; hydrants, etc.	Water samples collected from existing private wells were positive for total coliform and e coli contamination.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality.	130	46	H		18	19	\$1,101,936	\$1,035,936	1,035,936	13,221,873	420,471		

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1185685	Tazewell 2	Tazewell County Public Service Authority	P-O	Raven/Doran Water	This project consists of the rehab/replacement of approximately 2,800 LF of 10-inch water line; 1,000 LF of 8-inch water line; 21,870 LF of 6-inch water line; 13,440 LF of 4-inch water line; 790 LF of 2-inch water line; and approximately 23,400 LF of 3/4 inch service line.	Experiencing problems with water loss and leaks in the water lines.	The project will improve the water pressure with the rehab/replacement of water lines.	3408	1271	H		27	20	\$2,143,173	\$2,143,173	420,471	13,642,344	0						
2015725	Augusta 6	Augusta County Service Authority	P-O	ACSA-Berry Farm Membrane Filtration Project	The project will consist of a 1,050 of addition to the Berry Farm Treatment Building, a 1 MGD membrane filtration system, replacement of the existing ion exchange softener system, a 24,500 gallon filtrate tank, a new raw water pump station (500-700 gpm capability), and associated appurtenances and equipment.	Water samples are showing more frequent positive results for both total and fecal coliform. VDH is analyzing data and a declaration of groundwater under the influence of surface water is likely to occur.	Installation of membrane filtration treatment will provide the residents with a safe public water supply.	1618	613	H		17	21	\$1,505,700	\$1,505,700	0	13,642,344	0						
4057800	Essex 18	Tappahannock, Town of	P-O	Town of Tappahannock - Water Loop	Approximately 1,000 LF of 10 inch water line and a "T" that will connect two dead end sections of the Town's water system.	The existing configuration of the distribution system has two dead-end sections with inadequate means to flush and the water becomes stale.	Eliminating the dead-ends by looping the two sections will enable the water to be moved and eliminate the water becoming stale.	2068	1084	O		8	22	\$58,715	\$58,715	0	13,642,344	0						
1105	Lee 1	Lee County Public Service Authority	P-O	Lee Co. PSA-Thompson Settlement Water Extension	Installation of 46,000 LF of 8-inch water line; installation of 1,600 LF of 4-inch water line; installation of 1,500 LF of 2-inch water line; installation of 2,550 LF of 3/4-inch service line; related appurtenances; and 85 residential connections.	Inadequate water quality, quantity and/or contamination of water supply.	This project will provide the residents with safe reliable drinking water.	238	85	I		17	23	\$2,188,361	\$2,158,361		13,642,344	0						
1191883	Washington 3	Washington County Service Authority	P-O	WCSA-Mendota Road Phase II	The proposed project would construct 10,500 feet of 8" waterline. This project is the second phase of a larger project which will extend water all the way to the Mendota community.	Water samples collected from existing private wells were positive for total coliform and e coli contamination.	The project will provide the residents with safe reliable drinking water and eliminate their dependence on private wells with poor water quality.	39	14	I		17	24	\$559,451	\$538,451		13,642,344	0						
6033425	Caroline 16	Ladysmith Water Company	I-O	Ladysmith Water Co.-Lake Caroline WTP	Replace existing 400 gpm filters and clarifier with two 400 gpm contact filters and clarifier units enlarge existing clear well by 300,000 gallons.	WTP in need of emergency repairs and immediate major improvements.	The project will provide adequate storage for existing community of Lake Caroline for current and future needs.	2450	980	I		46	25	\$3,000,000	\$3,000,000		13,642,344	0						

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1035088	Carroll 3	Carroll County Public Service Authority	P-O	Carroll Co. PSA-Airport Road/Route 100 Connector	The proposed Airport Road/Route 100 Connector Project includes approximately 47,000 LF of 10" and smaller water lines and related appurtenances.	Unsafe and unreliable drinking water supply source.	The project will provide a safe reliable source of drinking water to customers.	6496	2320	I		30	26	\$2,323,100	\$2,239,520		13,642,344	0		
1520070	Bristol 1	Bristol Virginia Utilities	P-O	Solar Hill-Oakview Water Line Replacement	The project will include 6" DI water line replacement in the Solar Hill area, 12" DI main line replacement on Oakview and Clinton Avenues replacement of existing galvanized and asbestos-cement water lines with new ductile iron and/or PVC water lines of equal size.	Experiencing problems with old and leaking water lines.	The project will provide a reliable and consistent supply of water.	17308	6834	I		28	27	\$750,000	\$750,000		13,642,344	0		
2187812	Warren 7	Shenandoah Shores Cooperative Water Assoc. Inc.	P-O	SSCWA Improvement Project	Replace 310 gallon hydro tank with 3,500 gallon or nearest standard size; replace 35 gallon hydro tank with 1,200 gallon; install air-vacuum release; replace small mains 1"-2" with 4"; replace 5 HP booster pumps capacity of 55 gpm at 50 PSI with 10 HP 350 gpm.	Experiencing problems with water main leaks and low water pressure.	The project will provide the residents with a consistent flow of water and pressure flow.	1150	289	I		19	28	\$1,076,455	\$876,455		13,642,344	0		
6061200	Fauquier 9	Fauquier County Water & Sanitation Authority	P-O	Marshall Water Systems Phase I Improvements	The project consists of 12" of water main for 9,000 LF with all joints, valves and hydrant. This is a component of an overall larger project that will provide two storage tanks, two additional wells and another 10,000 LF main replacement.	Problems with water leakage, pressure and interruption of continuity of water flow.	The project will reduce the problem with water leakage and increase pressure and flow to customers.	1346	464	I		16	29	\$2,199,638	\$2,199,638		13,642,344	0		
1077	Grayson 3	Virginia-Carolina Regional Water Authority	P-O	Virginia-Carolina Arth-Water System	The proposed project includes a 1.0 MGD WTP and 19,560 feet of 8" and 12" waterlines, one booster pump station and one (1) 0.5 MG storage tank for VA only improvements.	Inadequate water quality and/or quantity of groundwater sources.	The project will provide a safe reliable water source to the citizens of the regional area.	3931	1810	I		26	30	\$8,001,563	\$1,884,263		13,642,344	0		
1169200	Lee 1	Lee County Public Service Authority	P-O	Lee Co. PSA-Blackwater-Lee County Water Project	Installation of 23,200 LF of 8-inch water line; installation of 34,075 LF of 6-inch water line; installation of 1,100 LF of 4-inch water line; installation of 600 LF of 2-inch water line; installation of 12,340 LF of 3/4-inch service line; construction of one (1) 50,000 gallon water storage tank, construction of one (1) water booster station; construction of one (1) pressure-reducing valve; construction of one (1) pressure proportioning valve; related system appurtenances; and 177 residential connections.	Unreliable quality and quantity of water supplies.	The project will provide a safe reliable water supply source.	328	117	I		26	31	\$2,010,876	\$1,010,876		13,642,344	0		

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1520070	Bristol 1	Bristol Virginia Utilities	P-O	Bristol VA Utilities-WTP Emergency Generator	The project will include construction of a new 50 kW diesel-powered electric generator and transfer switch. The generator will be sized so as to power both the WTP and the intake structure.	Experiencing unreliable electric power service from existing generator	The new generator will improve the power service to the WTP.	17308	6834	I		13	32	\$860,860	\$860,860		13,642,344	0		
3131210	Northampton 22	Exmore, Town of	P-O	Town of Exmore Water System Improvements	To develop two new wells including an aquifer test plan, to make repairs and undertake maintenance items including tank painting. Any excess funds will be used to repair sections of the distribution system, service of both pumps at the wells, and to replace the meters for commercial customers with larger meters.	Unreliable drinking water source with the risk of failure to the wells and associated pumps.	The project will allow the Town to continue to provide safe drinking water to the citizens and commercial customers.	1393	606	I		13	33	\$350,000	\$350,000		13,642,344	0		
1173723	Smyth 3	Saltville, Town of	P-O	Town of Saltville - #11 Well Development	Installation of a new 300 gpm well pump and membrane filtration treatment system at the site of Well No. 11 with a separate 14 foot diameter chlorine contact tank and finished water pumps. Finished water from Well No. 11 would be pumped through approximately 25 feet of new 6 inch pipe into the existing 8 inch distribution line in the road.	Existing groundwater well source overstressed.	The addition of a new source will lessen the impact and prolong the life of each source.	2480	1016	I		12	34	\$1,368,700	\$1,368,700		13,642,344	0		
2770900	Roanoke County 5	Western Virginia Water Authority	P-O	U.S. Rte 220 Waterline Extension Project	The project will extend an existing 12" diameter transmission line in Roanoke County 65,000 feet North in order to supply public water.	Inadequate and unreliable water source with MTBE contamination.	The project will provide a safe reliable drinking water to the public.	213	76	I		10	35	\$5,500,000	\$5,500,000		13,642,344	0		
1195050	Wise 1	Appalachia, Town of	P-O	Town of Appalachia WTP & Pump Stations Improvement	The proposed project includes renovation and improvements to the existing 1.0 MGD WTP and replacement of the Exeter and Imboden pumps and motors. The WTP work will consist of replacing the flash mixer, flocculators, filter media, rate of flow controller, headloss gauge, surface wash mechanism, turbidimeters, coagulation control equipment, chemical feed equipment, and fixing cracks in the sediment basins.	Unreliable source of water.	The project will provide a safe reliable water source.	2466	1121	N			36	\$300,000	\$300,000		13,642,344	0		