# Delaware

DRINKING WATER STATE REVOVLING FUND (DWSRF)

Intended Use Plan FINAL | REVISED JULY 17, 2022

# Delaware Health and Social Services Intended Use Plan 2022 Federal Allocation Revised July 17, 2022

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#### **Background**

The Intended Use Plan (IUP) is a document that Delaware Health and Social Services (DHSS) submits annually as part of the grant application to US Environmental Protection Agency (EPA) to request the Drinking Water State Revolving Funds (DWSRF) Capitalization Grants under the Safe Drinking Water Act (SDWA) and Catalog of Federal Domestic Assistance (CFDA) 66.468.

DHSS is eligible for \$7,008,000 in federal base capitalization grant funds. DHSS will allocate \$5,008,134 in federal funds plus \$1,401,600 in state funds (20% required state match) for infrastructure improvement projects and subsidy requirements. \$1,999,866 will be used for Set-Aside activity support.

Additionally, DHSS is eligible for \$53,897,000 in federal Bipartisan Infrastructure Law (BIL) capitalization grant funds. There are three (3) distinct grants under the BIL, and they include: Supplemental, Emerging Contaminants and Lead Service Line Replacement Capitalization Grants. DHSS will allocate \$50,215,206 in federal funds plus \$1,799,200 in state funds (10% required state match for Supplemental funds only) for infrastructure improvement projects and subsidy requirements. \$3,681,794 will be used for Set-Aside activity support.

Under this IUP Delaware intends to show it has enough projects to apply for full allotment of each grant – Base, General Supplemental, LSL Replacement, and Emerging Contaminants. See **Figure 1** showing totals for the FFY2022 DWSRF Notice of Intent (NOI) solicitation:

Anticipated Actual Project State Match for federal Award Requests Projects for Projects \$27,642,500 \$27,887,331 LSLR LSLR Related \$6,378,574 \$6,378,574 EC Related EC Supplemental \$17,438,600 \$1,799,200 \$15,949,301 [17,748,501] [6,409,734] \$6,242,081 \$1,401,600 \$5,008,134 Plus Corpus Base

Figure 1: Cumulative NOI Requests FFY22

#### Goals

#### **Long Term Goals are to:**

- Assist Public Water Systems (PWSs) with achieving affordable compliance and public health protection through DHSS staff strategies and contracted Set-Aside activities
- Maintain the DWSRF in perpetuity by thoughtful use and management of the assets by expecting an adequate rate of return and positive cash flow trend
- Utilize resources and funds to target the most significant public health and compliance problems facing the State's drinking water resources
- Manage the DWSRF fund with urgency and agency

#### **Short Term Goals are to:**

- Collaborate with the DHSS Capacity Development program to assist PWSs to develop and implement asset management plans (per AWIA 2018) via training or support from our technical assistance providers. The DWSRF program is currently considering the option of requiring proof of an implemented asset management plan from PWSs for consideration of DWSRF financial support.
- Manage the NFAA account judiciously, including reallocation of WIAC approved DWSRF grant allotments by annually, as need dictates
- Provide funding to upgrade infrastructure for PWS projects in Delaware
- Decrease public health risks in drinking water in 2022-2023 for about one third of Delaware residents
- Meet the Program Activity Measure of 96% of fund utilization rate, as negotiated with EPA by continuing to encourage quick spending with loan recipients and sub-grantees
- Contract with Delaware Rural Water Association (DRWA), to provide technical assistance, training, along with strategies to small and mid-size municipalities to maintain and return to compliance with state and federal regulations
- Provide operator education through contracts with Delaware Technical and Community College (DTCC)
- Offer Sustainability and Rate Analysis Assessments to PWSs through a contract with Kash Group LLC
- Utilize Set-Aside funds as outlined in the Work Plans
- Hold quarterly meetings with Set-Aside recipients to monitor activity progress and evaluate expeditious spending
- Provide support to the DNREC Water Supply Section (WSS) for their per- and polyfluoroalkyl substances sampling plan
- Provide support to the DNREC Source Water Protection (SWP) Crop Cover Ag Strategy
- Provide support to the DNREC Underground Injection Control (UIC) in the implementation of two new technologies in the: EQuIS and PFAS Tracing.
- Utilize resources in the DHSS Office of Engineering (OE) to ensure borrowers are following crosscutter requirements on construction projects
- Monitor the Drinking Water to Clean Water Transfer, with EPA assistance

#### **Performance Evaluation Review (PER) Action Items**

The review covered the period July 1, 2019, through June 30, 2020 (State Fiscal Year (SFY) 2020). The US Environmental Protection Agency (EPA) conducted its virtual review between April 15, 2021, to August 2, 2021.

EPA commends DPH and DNREC for resolving all SFY 2019 action items and developing plans to follow the first-in first-out (FIFO) policy, increase pace, and reduce the undisbursed ratio. There are no action items or recommendations. EPA looks forward to observing DPH and DNREC's progress on these items over the next year.

#### Prior Year Action Items

1. EPA requests that DPH draw grant funds according to EPA's FIFO policy.

**Resolved**. DNREC is evaluating their policies and procedures and the ASAP draw verification process. DNREC will make necessary staffing and policy changes to ensure compliance with these requirements in the future. DNREC discussed these procedures with EPA. EPA concurs and recognizes that the policy changes will take time and that FIFO issues may still linger in the short-term but will be ultimately resolved.

- 2. Over the last five years through SFY 2019, DPH's pace has been on a declining trend. Although there was a 1% increase from SFY 2018, an 88% cumulative pace for SFY 2019 is well below the 101% rate from SFY 2015. Additionally, Delaware's undisbursed ratio has significantly risen to 13.1; the ratio states are expected to work towards is 2.0. DPH should create a plan to use funds timely and expeditiously and market the program so there is a pipeline of shovel-ready projects. **Resolved**. As discussed, Delaware submitted a cash flow model outlining their plan to increase pace and decrease the undisbursed ratio.
- 3. Since 2017, DPH has expressed interest in working with DNREC to modify the Operating Agreement (OA) to give DPH more control over the loan closing process. Per EPA and DPH's discussion on September 15, 2020, there has been movement to modify the OA. EPA requests DPH continue to update EPA throughout the process.

**Resolved.** DPH and DNREC will continue discussions to modify the OA. However, currently, there are no immediate plans to do so. EPA will be notified should anything changes.

#### **DWSRF Infrastructure Project Selection**

In May 2022, Notice of Intent (NOIs) were ranked and placed in priority order, based on public health protection and SDWA compliance. All projects listed on the PPL are considered equivalency projects. Projects have not yet had financial reviews. Anticipated subsidies are based on historical data only and are subject to change. Full applications are due on August 1, 2022. Financial reviews will be performed at that time.

The Comprehensive, Fundable and by Capitalization Fund Grant Project Priority Lists (PPLs) are attached, as **Appendix A, B, and C**, respectively.

DHSS will use all the required subsidies. The exact amounts and projects for which those amounts will be applied will be known after **July 1, 2022**, once the State budget is final. DHSS has requested state funds to help supplement disadvantaged communities' financial burden.

#### **Bypass Procedures**

Upon written notice, DHSS can bypass a project on the fundable portion of the PPL based on the following:

- Project is withdrawn by the applicant
- Project is not ready to proceed
- System is unwilling to address any Significant Non-Compliance (SNC) issues
- System is lacking technical, managerial, or financial capacity
- System is out of compliance and demonstrates unwillingness to correct A133 Audit, Single Audit requirements, Davis Bacon, or Buy America Build America (BABA) Act.
- System is not current on loan repayments from prior closed loans
- An emergency project is approved

DHSS will reinstate bypassed projects if funds become available and the project meets all criteria above. Funds that become available due to project bypass will be offered to the next project on the PPL.

#### **Emergency Project Requirements**

EPA allows States to establish procedures to identify and prioritize Emergency Projects under consideration for DWSRF funding.

Projects necessary to alleviate emergency situations that result in an imminent threat to public health can be immediately elevated to the top of the PPL upon recommendation by DHSS and the concurrence of the WIAC.

Additionally, should an emergency project arise to mitigate a public health need and the project is not yet on the PPL; DHSS will elevate the project to NOI and review status. A potential fundable project may proceed, so long as it is captured in the Annual report and identified in the next available PPL.

As of June 1, 2022, DHSS has not received any emergency project applications.

#### **Ranking Criteria**

See 2022 **DWSRF Ranking Criteria** EPA-approved changes attached as **Appendix D**.

#### **Tie-breaking procedures**

The project with the greatest number of points under the Quality Deficiencies will receive the higher ranking. If there is still tie, the system with the greater population will receive the higher ranking, or, if the tie occurs with the same borrower, the borrower will be consulted before any decisions are made.

#### **Subsidy Requirements**

DHSS will meet minimum subsidy requirements by providing principal forgiveness or grants to: Communities identified as Disadvantaged.

- The next most 'in need' communities as identified by the financial review and affordability criteria mentioned herein and based on project priority
- Applicants who meet the 2022 Additional Subsidy Provisions, Part 1) Congressional Additional Subsidy Authority Provisions

A community considered for the DWSRF Disadvantaged Community Program may receive additional subsidies to the extent that that subsidy is available and within programmatic structure.

#### **Disadvantaged Community (DAC) definition**

A disadvantaged community is one that:

- 1. Meets the Affordability Criteria; or
- 2. Is identified by <u>EPA EJScreen</u> tool at 90% (USA) percentile or higher for Environmental Justice Indexes or for "Low Income" under the Socioeconomic Indexes; or
- 3. Is identified as disadvantaged by the White House Climate and Economic Screening Tool; or
- 4. Is underserved.

#### Affordability Criteria -

Income Data – 1.5 percent of MHI will be considered affordable for a single wastewater or drinking water residential user rates; 3.0 percent of MHI will be considered affordable for combined wastewater and drinking water residential user rates. Delaware's affordability criteria accounts for existing system costs relative to Operations and Maintenance (O&M) and Capital, as well as proposed project O&M and Capital costs as a function of MHI (1.5 percent water or wastewater, 3.0 percent if both services are provided) for the project area. MHI is based on the most recent census data for the municipality or county. DWSRF loan applicants whose MHI is not representative of the census data may be required to provide documentation to obtain principal forgiveness or additional subsidization. Documentation will be in the form of a representative income survey of the majority of the residents of the project area.

#### Underserved -

As defined in SDWA section 1459A (emphasis added): "(2) INCLUSIONS.—The term 'underserved community' includes a political subdivision of a State that either, as determined by the Administrator— '(A) does not have household drinking water or wastewater services; or '(B) is served by a public water system that violates, or exceeds, as applicable, a requirement of a national primary drinking water regulation issued under section 1412, including— '(i) a maximum contaminant level; '(ii) a treatment technique; and '(iii) an action level."

In the PPL, you will find that borrowers may have been identified as DACs. If so, they will be demarcated using the identifier illustrated in **Figure 2**, which represents each of the four (4) components of the DAC definition.

Figure 2: DAC Identifiers on Project Priority List (PPL)

Disadvanta	ged Comm	unity Identifi	er	
A= Affordab	ility, pending	final financia	I reviews	
E= EPA EjS	creen			
W= White H	ouse Climat	te and Econor	nic Screening	Tool
U= Underse			_	

Each of the four (4) capitalization grants have additional subsidy (Ad Sub) requirements. In **Figure 3**, the anticipated totals are illustrated.

Figure 3: Anticipated Ad Sub totals

		Anticipated
Additional		Award Ad
Subsidy Name	Total	Sub
LSLR DAC	\$13,891,500	\$13,891,500
EC	\$6,378,574	\$6,378,574
Supplemental		
DAC	\$8,816,080	\$8,816,080
		840,960-
Base DAC	\$2,406,000	2,452,800
Base		
Congressional	\$981,120	\$981,120
	\$32,473,274	

#### **Loan Projections**

DHSS proposes to use a total of \$220,532,477 of federal and state funds in addition to other sources to provide low interest loans and grants to public water systems for infrastructure improvement projects.

#### **Other Program Information**

#### **Interest Rate Policy**

The criteria and interest rates, effective January 2021, apply to new public, private/public use, investor-owned, and private/private use WPCRF and DWSRF loan applications. Applicants may be able to obtain a lower interest rate based on projected residential user rates as a percentage of Median Household Income (MHI) above 1.5 percent, and 3.0 percent for wastewater and drinking water user rates combined.

#### Criteria:

- Interest rates shall be set at 1.0 percent per annum.
- Administrative Fees shall be set no lower than 1.0 percent per annum.
- A lower interest rate may be made available based on projected residential user rates as a percentage of Median Household Income (MHI) above 1.5 percent, and 3.0 percent for wastewater and drinking water user rates combined only after other alternatives such as extended repayment terms, principal forgiveness or supplemental grants are exhausted.
- Should any municipal applicant demonstrate that the municipal bond rate available to its organization is lower than the collective interest rate and administrative fee set by this policy, then DNREC/DHSS may match the lower bond rate by adjusting the interest rate.
- Should US Tax Reform (or other regulatory changes) have an impact on the pricing of taxexempt bonds and their relative value to taxable bonds, this policy will be reviewed and adjusted.

#### **Possible DWSRF Administrative Loan Fees**

DWSRF Administrative Loan Fees have been waived for the 2022 PPL/applicants.

#### Leveraging

DHSS does not anticipate the need to reserve the right to transfer Capitalization Grant and loan repayments monies between the State's Clean Water State Revolving Fund (CWSRF) and Drinking Water State Revolving Fund programs, as necessary to ensure the full utilization of the federal assistance during this grant year.

#### **State Match**

The State Match for both the base and supplemental capitalization grants will be made using State of Delaware Bond Bill funds.

#### **Cash Draw Ratio**

As it relates to proportionality for cash draws, note that DHSS will draw the entire state match for infrastructure projects and then move on to the federal grant funds.

#### Cross Collateralization between SRF programs—Transfer Use

As of June 1, 2022, there is \$31,161,803 available for drinking water project loans and current loan disbursement. This 'transfer back' to the DWSRF may begin in calendar year 2022. DHSS will coordinate with DNREC to receive regular account summaries. Those summaries will be reported in the next corresponding Annual Report.

#### **Cross Collateralization between SRF programs**

In FFY 12 the DWSRF program transferred \$27,050,176 in Federal funds and \$5,410,035 in State funds to the CWSRF program. Of this, \$1,298,408 was used for administrative costs (4%). This leaves \$31,161,803 available for project loans.

It is the understanding between both DNREC and DHSS that these funds will be made available back to DHSS for payments on existing loans and to make additional loans when needed by the DWSRF program on a cash flow basis.

Funds for both new and existing DWSRF loans will be used in the following order: first from the Federal capitalization grants, second from the DWSRF repayment & interest fund, then when these funds are exhausted, from the previously transferred funds to the CWSRF program.

To date, no funds have been transferred back to the DWSRF program.

#### **DWSRF** Coordination of funding priorities with State Drinking Water Enforcement Agency

The DWSRF program coordinates with the Office of Drinking Water by performing a <u>Capacity</u> <u>Development review</u>. In addition, offices collaborate throughout the year to offer technical assistance through Delaware Rural Water Association (DRWA) to systems that are on Public Notice.

#### **Davis Bacon Compliance**

DHSS agrees to comply with Davis Bacon requirements as outlined in guidance distributed by EPA. Additionally, DHSS performs site inspections during construction.

#### **Green Project Reserve**

DHSS is not participating in Green Project Reserve for 2022, as it is not in federal grant requirements. DHSS will use this coming year to learn more about this initiative and it's benefits to borrowers.

# **Sustainability Policy Description**

#### **Fix It First**

DHSS does not fund projects that are primarily for growth. Applicants are encouraged to study existing infrastructure to determine most critical needs, and then base their DWSRF applications on those needs.

#### **Capacity Development for Loan Applicants**

The DWSRF program requires the Capacity Development Program, housed in the Office of Drinking Water, review the Capacity Development portion of each full application, work with systems to increase technical, managerial, and financial capacity; ensure creation and maintenance of asset management plans; and report any serious, outstanding problems to the DWSRF program so that they may be addressed before loan closing.

#### **Asset Management**

DHSS will begin to require Asset Management Plans (AMPs) for DWSRF consideration and financial support. To date, 17 systems have started an AMP and 2 additional systems have applied. The NFAA has funded the AMP Grant program. The maximum grant amount is \$100,000. Soon, the Capacity Development program will begin reviewing submitted AMPs as a new initiative.

#### **Disadvantaged Business Enterprise Participation**

Loans using the capitalization grant and state match funds will conform to Disadvantaged Business Enterprise (DBE) steps as outlined by EPA. Borrowers must document and demonstrate good faith efforts consistent with federal regulations.

#### **Davis Bacon Act Participation**

All DWSRF-assisted projects capitalization grant and state match funds will conform to Davis Bacon wage determinations, wages, and activities as outlined by EPA. Borrowers must document and demonstrate efforts consistent with federal regulations. Davis bacon Act Participation.

#### **Efficient Expenditure**

- Loans- the DWSRF program will use a "First in-First Out" approach when making loan payments
- Set-Asides- the DWSRF program will prepare one-year set-aside budgets. During the second year of the grant, the program will review expenditures and re-budget set-aside funds for additional set-aside work or project loans per EPA approval. All funds will be expended by the end of the third of the grant.

#### **Project Management**

DHSS designates all loans to requirements of Single Audits, DBE, Crosscutters, Davis Bacon, Federal Funding Accountability and Transparency Act (FFATA), and BABA.

#### Reporting

DHSS will make all efforts to report all applicable information to: FFATA, Projects Benefits, Report, and NIMs in accordance with applicable due dates set forth by EPA.

#### **Ag Strategy**

Please refer to the 15% Base and Supplemental Capitalization Grant Set-Aside for information on the Cover Crop Program to learn how DHSS DWSRF Administration is meeting EPA's Ag Strategy recommendations.

#### **Sources and Uses**

See Table below illustrating the Sources and Uses of the fund.

#### **DWSRF SFY 23 Sources:**

Projected Fund Balance at 6/30/2022	\$ 88,762,259
Base Cap Grant	\$ 7,008,000
Base Cap Grant State Match	\$ 1,401,600
Supplemental Cap Grant	\$ 17,992,000
Supplemental Cap Grant State Match	\$ 1,799,200
Lead Cap Grant	\$ 28,350,000
Emerging Contaminants Cap Grant	\$ 7,555,000
Projected Repayments to the Fund	\$ 11,412,967
Projected Investment Income	\$ -
Total Sources for SFY 23:	\$ 164,281,026

#### **DWSRF SFY 23 Uses:**

Disbursements Projects for Construction	\$ 91,837,291
2% Technical Assistance	\$ 549,223
4% Administration	\$ 1,401,213
10% Program Management	\$ 1,758,675
15% Local Assistance	\$ 4,020,396
Total Uses for SFY 23:	\$ 99,566,799
Total Projected Fund Balance 6/30/23	\$ 64,714,227

<sup>\*</sup>note PPL exceeds expected disbursements

#### **Set-Aside Activities**

The SDWA allows states to use part of the Capitalization grant to support Set-Aside activities. Up to 31% of each Capitalization grant may be reserved for Set-Aside activities.

Delaware reserves its authority to apply remaining 2%, 4% and 10% set-asides from prior Base Grants to future capitalization grants. Delaware also reserves its authority to bank the 2%, 4% and 10% set-asides from future BIL - General Supplemental and LSL Replacement Grants.

See all Set Aside Work Plans attached as Appendix E.

### **Base Capitalization Grant Set-Asides**

•	DWSRF Base Funding								
2% Technical Assistance	Technical  Delaware Rural Water Association (DRWA)  Delaware Technical Community College (DTCC)								
4% DWSRF Administration	SRF 3.45 FTE DHSS DWSRFAudit Fees								
10% State Program Management	4.55 FTEs DHSS Office of Engineering Office of Drinking Water & Information Support Services PDHSS Public Water Supply Supervision Program DNREC Underground Injection Control Program	\$662,925.00							
15% Local Assistance/Othe r Programs	4.35 FTEs DHSS Office of Engineering Office of Drinking Water Capacity Development Program New System and Existing Systems DRWA and DTCC Contracts	\$936,362.00							

#### **Small Systems Technical Assistance (2% Base)**

Provide assistance to small systems through contractor personnel. Funds provide technical assistance to public water systems serving less than 10,000 people. Contracts with DRWA and DTCC continue to provide technical assistance and training.

#### **DRWA** contracts:

- Provide 80 on-site visits to small community water systems and municipal water systems
  to provide priority technical assistance to systems who are either already out of
  compliance or reaching non-compliance. DRWA will also provide technical assistance
  through public education and awareness regarding PFOS & PFAS and will assist systems
  with the new LLRC regulation.
- The on-site mobile training unit will be deployed upon request to demonstrate system specific needs to SRF systems for them to gain a better understanding of operational or testing methods to meet Safe Drinking Water Act (SDWA) compliance and public health benefits.
- DRWA will assist on-site with system water operators in providing the necessary technical information and guidance templates on how to establish and implement a workable cross-connection control plan management program. The program will provide quarterly CCC training to state drinking water EHS's, Food Service Inspectors, Plumbing Inspectors and the Direct Responsible in Charge of the water system with hands-on technical assistance, which includes data collection, program procedures, testing notifications, review of treatment and distribution system infrastructure site plans and providing recommendations on the types and placement of backflow prevention assemblies in the prevention of contamination into the water source. Will assist Community State Revolving Fund compliant systems in addressing potential contamination prevention from back-siphonage, backflows, cross-connections, and the need to prevent contamination of Delaware's drinking water systems. In addition, DRWA will provide two formal technical assistance training classes in identifying potential contamination sites around the treatment area and wellhead protection areas.

- Provide assistance to systems required to perform Public Notice, critical Sanitary Survey violations, systems with contamination exceedances and Emergency Response Planning
- Provide assistance and training for contamination prevention, compliance education, water operator training, and preventive maintenance planning

#### **DTCC** contracts:

- Certify and provide continuing education to Operators-In-Training and licensed water operators of small public water supply systems (non-profit)
- Provide tuition assistance for continuing education for approximately 115 Operators-In-Training and licensed water operators of small public water supply systems and provide tuition assistance for Base Level Water Operators Course to approximately 26 new operators
- Provide Base Level Water Operators with a basic math course if the student is in need
- Recruit students through advertisement in the local press to enter the Drinking Water Training program
- Administrative salary funding will be utilized for the following: to plan operations; recruit
  and interview prospective students; counsel students regarding course schedules; work
  with industry leaders to offer courses that meet the needs of operators; identify new courses
  needed; assist with tutoring needs; development of job building skills; assist with
  employment opportunities; and market program and courses to industry via varying
  methods. In addition, staff will assist with registering students, and will report and track
  the funding for students enrolled in this program

#### **DWSRF Program Administration (4% Base)**

The 4% Set-Asides will be used to fund the salaries, supplies and indirect costs of 3.45 DHSS DWSRF (Full Time Employees) FTEs and audit fees.

#### **State Program Management (10% Base)**

The 10% Set-Asides will be used to fund the salaries, supplies and indirect costs of 4.55 DHSS Office of Engineering, Office of Drinking Water, and Information Support Services FTEs.

The Public Water System Supervision (PWSS), Operator Certification, and UIC programs will be funded through this Set-Aside as follows:

#### **Operator Certification**

Operator Certification expenses are absorbed by funding positions with the EPA PWSS grant. DHSS could use the DWSRF grant as a source of funding to prop up the Operator Certification program. Proposed activities include:

- Monitor, track, and report water operator licensures
- Communicate with operators in providing assistance, training opportunities, industry and regulatory updates, and other information pertinent to drinking water
- Provide regulatory-related trainings to water operators by ODW staff
- Provide administrative review and processing of water operator licenses renewals
- Provide support and proctoring assistance to DTCC for Drinking Water Operator examinations
- Ensure public water systems that are required to have a licensed water operator do so, either by directly employing an operator or by contracting with an operator
- Assist licensed water operators in obtaining the proper endorsements for the water systems they operate
- Maintain licensed water operator data in a database
- Plan and prepare for updating aging database

#### **Public Water Supply Supervision (PWSS)**

- Monitor, track, and report compliance for approximately 470 Public Water Systems
- Upgrade from SDWIS/State 3.3 to SDWIS/State 3.4
- Develop a plan for private drinking water labs to submit their drinking water sample results electronically
- Continue to utilize EPA reporting under the Enforcement Response Policy and Enforcement Tracking Tool (ETT)
- Facilitate posting of all relevant public water systems information and sample results to Delaware's Drinking Water Watch public-facing webpage

#### **Delaware Public Health Laboratory**

- Continue analyzing samples for the presence of Legionella
- Purchase supplies and reagents to maintain higher levels of operational efficiencies and cost effectiveness
- Cross train for continuity of operations in the event of emergency situations, including flooding and other weather-related events
- Purchase benches on wheels to help in moving instruments in case of an emergency
- Continue to perform audits for the certification of drinking water testing laboratories within Delaware
- Purchase LIMS (Labwear) to reduce manual entry of sample results, will generate automated upload from instrument to LIMS
- Continue to perform in-house testing to include test samples for chemical analysis and bacteriological

#### **Underground Injection Control**

 Continue to work with DHSS and provide technical support as needed on identifying and managing potential impacts to groundwater from operations of major wastewater treatment and disposal facilities

- Develop and implement EQuIS data management application so facilities can submit data electronically and continuous monitoring data can be collected and reported in real-time
- Develop and implement real-time/contemporary web-based groundwater monitoring and UIC program management tools using MS Power BI
- Continue to perform inspections of Class V wells in Delaware

#### **Local Assistance and Other State Programs (15% Base)**

The 15% Set-Asides will be used to fund the salaries, supplies and indirect costs of 4.35 DHSS Office of Engineering and Office of Drinking Water FTEs.

The Capacity Development and Source Water Protection Programs will be funded through this Set-Aside as follows:

#### **Capacity Development**

- Provide assistance to all proposed public drinking water systems to ensure that the water system owner/operator has demonstrated adequate TMF capacity, and that the water meets all applicable SDWA requirements prior to operating
- Monitor and assist new public water systems in Lead and Copper Rule compliance
- Report the name of new and proposed PWSs for the Semi-Annual DWSRF Set-Aside reports
- Assist new CWSs and NTNCWs in their compliance with the requirement to operate under the supervision of a Delaware licensed water operator
- Provide in-depth training in CCR report creation to technical and managerial staff of CWSs in Delaware to increase compliance with the CCR
- Provide assistance to existing PWSs with an ETT score of 11 or higher or that are identified as being in need through routine regulatory activities conducted by ODW
- Evaluate and report the TMF capacities of at least one-third of Delaware's water systems
- Monitor, evaluate, train, and assist PWSs and operators in LCR compliance, schedules, and reporting
- Track and report existing PWSs appearing on the ETT report with scores of 5 and greater to technical assistance providers to facilitate achieving compliance

#### **DRWA** and **DTCC** Contracts through Capacity Development

- Provide small municipalities (population under 1000), municipal communities (population under 10,000), non-municipal communities, and seasonal water systems with 1:1 GIS technical assistance
- Conduct specialized emergency response training classes
- Conduct municipalities with Emergency Response Plans
- Create new online courses for Delaware water operators
- Revise and update existing online water operator courses
- Develop, host, and market webinars, topics include Addressing AWIA, Emerging Technologies, Drone Usage, and Addressing an Aging Workforce
- Assess and Purchase New Automated Training Devices DTCC shall research, assess, and purchase training equipment, textbooks, curriculum, and/or software pertaining to water quality control and processes to enhance classroom instruction and improve field skills

#### **Sustainability 1:1 Assistance and Cyber Security Programs**

The DWSRF Program will continue to work with Kash Srinivasan Group, LLC to provide support to the Capacity Development and DWSRF programs by assisting Delaware's public water systems (PWSs) with resources to meet EPA's Financial capacity requirements, which in turn will assist PWSs achieve and maintain long-term sustainability and compliance with the national safe drinking water regulations.

#### **Source Water Protection**

- Source Water Assessment, Characterization and Monitoring This includes providing assessments for any new system, revising, and updating existing source water assessments (e.g., delineation, contaminant sources, susceptibility assessment), providing technical assistance to solve source water problems including recommendations for potential DWSRF funded monitoring network/systems development, and resource characterization activities. The SWAP will continue the development of a statewide ambient groundwater monitoring program, including the deployment of long-term monitoring equipment with real time data telemetry capabilities, while utilizing existing DGS and DNREC Water Supply Section monitoring well infrastructure, and the Water Allocation Branch permitting process. For this grant cycle, contractual support will be utilized for miscellaneous groundwater sampling including raw water sampling of public water systems, as well as PFAS related sampling in collaboration and with guidance from the PFAS Steering Committee.
- Prioritization of State SWP activities This includes support of local efforts to develop SWP ordinances and comprehensive plans or other local approaches, support to SWPrelated UIC activities, and related needs.
- Integration of SWAPP with other state, federal, and local programs This includes work with the federal, state agencies, private organizations, and local governments with regards to source identification, characterization, and prevention.
- Motivating Local SWP activities This includes technical assistance, committee representation, information dissemination; review of local development plans and comprehensive land use plans as part of the Preliminary Land Use Service (PLUS) process.
- Manage data includes data collection, data storage, and recovery; including develop GIS data and tools, increase, and manage web availability, and improve efficiency of state and federal data reporting. Additionally, the SWAPP will work with systems to evaluate their needs for data management and operational enhancements (e.g., SCADA) that could benefit from potential DWSRF funding. For this grant cycle, contractual funding will be utilized to support the EQUIS Enterprise migration project which will be used by the Division of Water to store, share, and review analytical and permit data throughout the State including the Ambient Groundwater Monitoring project. The data stored in EQUIS will be used to inform future Division of Water permitting decisions while data stored in the WaterSTAR system will be used to increase data sharing and data access between interagency partners. Additionally, records collected as part of the "Public Well Missing Records Reconnaissance Project" will be shared between DNREC and DHSS to build a more complete database record for both DNREC and DHSS.

#### **Ag Strategy Program**

The Ag Strategy Program is expanding, including outreach to farmers who may not be in the Cover Crop program, exploration of expanded eligibilities, i.e., buffer zones, and pollinator plots. The program may also explore further incentives for farms that are close to municipal source water protection areas.

DHSS will continue work with DRWA and Sussex County Conservation District to improve upon and add GIS mapping layers.

Additionally, DHSS will explore opportunities to use existing monitoring well real-time data collection with DNREC partners which could provide beneficial data to public wells, i.e., contaminant alerts and flow in ground water.

# **Supplemental BIL Capitalization Grant**

DWSRF Supplemental Funding								
2% Technical Assistance	DRWA Contracts	\$79,195.00						
4% DWSRF Administration	3.5 FTEs DHSS DWSRF Office of Engineering	\$416,849.00						
10% State Program Management	3 FTEs DHSS Division of Public Health Laboratory	\$363,202.00						
15% Local Assistance/Othe r Programs	7 FTEs DNREC Source Water Protection DRWA Contract Sussex Conservation District Delaware Department of Transportation & DNREC Collaboration	\$1,183,453.00						

#### **Small Systems Technical Assistance (2% Supplemental)**

Provide assistance to small systems through contractor personnel. Funds provide technical assistance to public water systems serving less than 10,000 people. Contracts with Delaware Rural Water Association continue to provide technical assistance and training on Contamination Prevention and Cross Connection Control and the SRF.

#### **DRWA Contracts**

- Will assist ten Community State Revolving Fund compliant systems in addressing potential
  contamination prevention from back siphonage, backflows, cross connections, and the need
  to prevent contamination of Delaware's drinking water systems. DRWA will provide two
  formal technical assistance training classes in identifying potential contamination sites
  around the treatment facility and wellhead protection areas. Provide facility instructions on
  the essential elements that make up the effective ongoing Cross Connection Control Program.
- Aid systems found having a potential health hazard from a cross connection by referring them to DWSRF program for directions on how to apply for a loan, so the system can make compliance corrections within the treatment or distribution system.
- Will provide 80 technical assistance site visits to small Community Water Systems (CWS)

and municipal water systems. Visits can include technical, financial, and managerial capacity assistance along with promotion of the DWSRF program and 1:1 application/process help. Activities may include community/civic association meetings and acting as a liaison between interested parties and stakeholders.

- Will work closely with the Office of Drinking Water, Office of Engineering, and the DWSRF program to identify systems in need of Priority Technical Assistance under the Enforcement Targeting Tool (ETT) System. Systems may be defined as community, non-transient non-community, transient, and/or seasonal.
- Provide priority technical assistance in the form of contamination prevention, rule education, water specialist operator training and/or preventive maintenance assistance planning. Priority systems can be classified as those that are either already out of compliance or reaching noncompliance.
- Will deploy upon request, the mobile on-site training unit to demonstrate system specific
  needs to SRF systems in so that they understand either operational or testing methods to meet
  Safe Drinking Water Act (SDWA) compliance and public health benefits. Such assistance
  could include but is not limited to: SRF funding opportunities, public awareness of Drinking
  Water Standards, contamination prevention, water treatment process, and dealing with
  unregulated contaminates.

#### **DWSRF Program Administration (4% Supplemental)**

The 4% Supplemental Set-Asides will be used to fund the salaries of 3.50 DHSS DWSRF and Office of Engineering FTEs.

#### **State Program Management (10% Supplemental)**

The 10% Supplemental Set-Asides will be used to fund the salaries of 3.00 DHSS Division of Public Health Laboratory FTEs.

#### **Local Assistance and Other State Programs (15% Supplemental)**

The 15% Supplemental Set-Asides will be used to fund the salaries of 7.00 DNREC Source Water Protection FTEs.

This set-aside will fund DRWA contracts, and the Source Water Protection Program as follows:

#### **DRWA** contract:

- The Career Training for High School Students Pre-Apprenticeship Program will be open to any student that is interested in venturing into a career related to Water Treatment and Water Operations & Maintenance within a community water system.
- DRWA proposes to provide, to a minimum of five (5) Delaware high schools representing each county, a program to demonstrate the need for young adults to enter the field of drinking water distribution, operations, and water treatment.

- DRWA shall also be seeking the interest of partnering with water utilities that are willing to allow participating students to be able to work and gain field knowledge on the job where they may earn while they learn.
- Students who seek to advance their knowledge will be eligible to enroll in DRWA's two (2) year Water Systems Operation Specialist Apprenticeship Program which will offer more indepth training such as chemistry, filtration and math equations and chemical additions.

#### **Sussex Conservation District**

Sussex County Source Water Protection Agricultural Best Management Practices

#### Collaboration with Delaware Department of Transportation and DNREC

• Statewide Source Water Protection Signage Initiative

# **Emerging Contaminants BIL Capitalization Grant**

Emerging Contaminants DIE Cupitanzation Grant									
	Emerging Contaminants Funding								
2% Technical Assistance	Science and Technology and Research Institute of Delaware (STRIDE) Contract	\$78,000.00							
4% DWSRF Administration	1.5 FTEs DHSS DWSRF Office of Engineering	\$148,426.00							
10% State Program Management		\$0.00							
15% Local Assistance/Other Programs	Maryland Environmental Service (MES) Contracts DNREC Contract with Eurofins for PFAS Sampling	\$950,000.00							

#### **Small Systems Technical Assistance (2% Emerging Contaminants)**

This Emerging Contaminants set-aside will fund efforts provided by the Science, Technology, and Research Institute of Delaware (STRIDE) to provide PFAS Treatment Advice and Technical Support to Delaware Drinking Water Systems.

#### STRIDE contract will:

- Gather data: Collect price, performance, and availability data of all commercially available and developmental PFAS filter products and maintain a data base.
- Do batch adsorption tests: Compare PFAS removal efficiencies of at least six filter materials in source water from 5 Delaware drinking water systems (to be chosen by DHSS) and provide the data such that they can chose the best treatment system for contaminants in their water system.
- Do Rapid Small Column Tests (RSSCT) on water from two water systems (to be chosen by DHSS). RSSCT is a bench-scale testing procedure used to estimate the replacement frequency of an adsorbent at a full-scale treatment plant. This data will help water operators and their engineering contractors design the filter system for optimum capital and operating costs.

• Enable drinking water systems to find and install the optimum system and negotiate purchasing terms with vendors. This service will also help with supply chain issues, avoid dependence on single supply, and help the State/DHSS avoid future problems and reduce emergency use of State Revolving Funds.

#### **DWSRF Program Administration (4% Emerging Contaminants)**

The 4% Emerging Contaminants Set-Asides will be used to fund the salaries, supplies and indirect costs of 1.5 DHSS DWSRF and Office of Engineering FTEs.

#### **Local Assistance and Other State Programs (15% Emerging Contaminants)**

Multiple programs will be funded by this Emerging Contaminants set-aside through the work of Maryland Environmental Service (MES) and DNREC with Eurofins Scientific.

#### **Drinking Water Interconnection Study**

In connection with Maryland Environmental Service (MES)

#### **Mobile Emergency Response Filter**

Vendor TBD. Request for proposal closed in May 2022.

#### **PFAS Sampling**

Contract executed via Eurofins contract through DNREC

### **Lead Service Line Replacement BIL Capitalization Grant**

	Lead Service Line Replacement Funding						
2%	DRWA Contract						
Technical	120Water Contract	\$170,379.00					
Assistance	Sampling in Schools-( LSL identification)						
4%							
DWSRF	2.0 FTEs DHSS DWSRF	\$292,290.00					
Administration							
10%							
State Program		\$0.00					
Management							
15% Local		<b>*</b> 0.00					
Assistance/Other Programs		\$0.00					

#### **Small Systems Technical Assistance (2% Lead Service Line Replacement)**

Provide assistance to small systems through contractor personnel. Funds provide technical assistance to public water systems serving less than 10,000 people. Contracts with DRWA and 120Water provide technical assistance and training.

#### **DRWA & 120Water contract**

- LCR Technical Assistance and Training -- DRWA and 120Water are partnering to deliver market differentiated, high-impact and ongoing Technical Assistance to educate utility operators, superintendents, key personnel, and city managers about the complexities and nuances of Safe Drinking Water Regulatory Compliance.
- The partnership will conduct, at minimum, three instructor-led Technical Assistance Training Seminars throughout the calendar year with a focus on the Lead and Copper Rule (LCR) and the Lead and Copper Rule Improvements (LCRI). Given the evolving landscape of LCR(I), we are proposing a 5-year technical assistance program designed to give ongoing, world-class education to the utilities across the state of Delaware and Maryland.
- It is the goal of this partnership to ensure that the funding being made available to systems for LCR compliance will be used efficiently and effectively, resulting in better and more consistent outcomes for all stakeholders.

#### **Lead Sampling in Schools**

• Lead sampling in schools (non-routine, not for compliance purposes, for LSL identification)

#### **DWSRF Program Administration (4% Lead Service Line Replacement)**

The 4% Lead Service Line Replacement Set-Asides will be used to fund the salaries, supplies and indirect costs of 2.0 DHSS DWSRF FTEs.

#### **Public Review**

Due to COVID-19, and the Governor's Emergency Proclamation, a virtual public meeting will be held on June 15, 2022. DHSS will post the Fundable PPL and IUP online for public comment for 30 days. DHSS will advise the EPA when this comment period occurs and plans to share any meaningful public comment that is received.

This IUP was presented in a hearing on June 15, 2022, before the Delaware Water Infrastructure Advisory Council (WIAC) and public stakeholders. Visit this page for details of the WIAC meeting: <a href="https://dnrec.alpha.delaware.gov/events/water-infrastructure-advisory-council-16/">https://dnrec.alpha.delaware.gov/events/water-infrastructure-advisory-council-16/</a>. The presented draft IUP and associated documents were approved by the WIAC.

# This IUP and associated documents were available for public review and comment through July 15, 2022.

No written comments were provided to DHSS during public review and comment period. A meeting with the DWSRF Program and Administrator and the City of Seaford, found that the points awarded during the ranking processes were in error. This review found each project for the City of Seaford to be elevated on the PPL. Revisions were made to the PPL, and it is attached (Appendices A, B and C) to include those revisions.

# Appendix A Comprehensive PPL

	***	D 1.:				DAC? -		Funding			Anticipa		
D1-	Water System/	Population Served	Comprehensive Project Name	Project Description	A	A, E, W,	Tatal Dainta	Appropri ation	Financing	Тотпа	ted subsidy	Anticipated	Nietes
Rank	Borrower	Serveu	Project Name	Project Description	Amount	U	Total Points	ation	Financing	Terms	Subsidy	Subsidy Amount	Notes Anticipated to
				Consolidation to									be Bypassed
	Countryside		Upgrades and	Artesian - See Adam							State		for State
1	Hamlet MHP	66	Interconnect	Gould emails	\$745,470		800	State				\$745,470	Funds
			Water System	New distribution, fire	, , , , , ,								Anticipated to
			Improvements and	hydrants, water meters									be Bypassed
	Stage Village		Consolidation with	and connections to							State		for State
2	MHP	93	Delmar	Delmar	\$687,800	U	730	State			Grant	\$687,800	Funds
				System Upgrades, add									
	Willow Tree		MHP Water System	storage Kitts				Suppleme			Sup		
3	MHP	141	Upgrades	Hummock Road	\$1,700,000	U	680	ntal			DAC	\$1,700,000	
				Water Main				Suppleme			Sup		
4	New Castle	5364	Hewlett-Janvier	Replacement	\$1,490,000	W	670	ntal			DAC	\$1,490,000	
											Base		
	Delmar to Holly			Consolidation Holly				_			Congres		
5	Oak MHP	210	Water Line Extension		\$1,100,000		630	Base	2.00%	20 years	sional	\$981,120	
				Carey, Walnut and									
				Mill Street Main									
6	Milton	3200	LSL replacement	Replacement and LSL replacement	\$1,220,000		620	LSLR	2.00%	20 ****		\$0	
6	WIIIOII	3200	LSL replacement	Service line	\$1,330,000		020	LSLK	2.00%	20 years		\$0	
				improvements and									
				LSL removal \$22.5M							94%		
6	Wilmington	107976	LSL Removal	LSLR	\$22,500,000	E, W	620	LSLR				\$12,875,792	
· ·			Martin Farms LSL		<b>4</b> ,000,000	<u> </u>	020					<b>412,070,772</b>	
7	Seaford	6699	Abatement	Abatement	\$2,072,149		590	Corpus	2.00%	TBD		\$0	
			Raw Water	From Brandywine									
			Transmission	Creek to either Porter				Suppleme			Sup		
8	Wilmington	107976	Improvements	or Hoopes	\$10,000,000	E, W	580	ntal			DAC	\$5,626,080	
				Consolidation Capes				Suppleme					
9	Lewes BPW	3000	Capes Cove	Cove MHP	\$320,600		560	ntal	2.00%	20 years		\$0	
			Woolford Street LSL										
9	Seaford	6699	Abatement	Abatement	\$601,574		560	Corpus	2.00%	TBD		\$0	
1.0	P 1 .	0.70	Jackson St. Service	I CI 1	<b>0.510</b> , 0.00	A ata	520	LOLD				Φ <b>510</b> 000	
10	Frederica	870	Connections		\$512,000	A*	530	LSLR			_	\$512,000	
11	Magnalia	125	North Mair Street	Water Main	¢000 000	A *	525	Dags			Base	\$000,000	
11	Magnolia	425	North Main Street	Improvements LSL regulatory	\$900,000	A*	525	Base			DAC	\$900,000	
12	Dover	38000	LSL inventory	requirements	\$60,000	E,	480	LSLR				\$60,000	
14	20101	20000	Lon inventory	10quirements	\$60,000	L,	700	Louit				\$00,000	

	Water System/	Population	Comprehensive			DAC? - A, E, W,		Funding Appropri			Anticipa ted	Anticipated
Rank	Borrower	Served	Project Name	Project Description	Amount	U	Total Points		Financing	Terms	subsidy	Subsidy Amount Notes
				New 6" Water well and							Base	
12	Greenwood	973	Well Replacement	test well	\$378,000	A*	480	Base			DAC	\$378,000
10	New Castle	5264	Delaware Street	Water Main Extension	¢1.742.000	***	400	Suppleme		20		<b>#</b> 0
12	New Castle	5364		Water Main Extension	\$1,743,000	W	480	ntal	2.00%	20 years		\$0
			Porter Filter Plant PFAs Removal- \$45M									
13	Wilmington			Construct GAC vessels	\$4,787,405	E, W	450	EC			75% EC	\$4,787,405
10			Porter Filter Plant		+ 1,1 01,110	2,					, , , , , , ,	ψ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			PFAs Removal -									
13	Wilmington	107976	\$45M project Base	Construct GAC vessels	\$40,212,595	E, W	450	Corpus	2.00%	20 years		\$0
			Dulany Well Abandon									
	- 0 1		J	Abandonment and								
14	Seaford	6699	Rehab	Rehabilitation	\$1,901,990		430	Corpus	2.00%	20 years	<b>.</b>	\$0
1.5	Emadamiaa	070	Market Street	Water Main Renewal	¢220 000	A *	420	Daga			Base	¢229 000
15	Frederica	870	Waterline and Service		\$328,000	A*	420	Base			DAC	\$328,000
				replace water and								
16	Rehoboth Beach	1400	and the state of t	service lines	\$2,527,000		410	LSLR	2.00%	20 years		\$0
				Pressure and	+ )		-				Base	
17	Magnolia	425	Elevated Storage Tank	Redundancy	\$2,637,700	A*	405	Base			DAC	\$800,000
				Mapping and								
18	Lewes BPW	3000		Replacement Planning	\$263,000		400	LSLR	2.00%	20 years		\$0
				Well and Treatment								
10	M:14	2200		upgrades with ARPA	Ф201 201		400	D	2.000/	20		<b>MO</b>
18	Milton	3200	and WT SWFWTP PFAs	match	\$301,381		400	Base	2.00%	20 years		\$0
19	Newark			PFA WTP Upgrades	\$1 591 169		380	EC			25% FC	\$1,591,169
1)	1 vo warn	10000	SWFWTP PFAs	TITT WIT OPSIGNES	Ψ1,271,107		300	Lo			2070 20	Ψ1,001,100
			Treatment \$4.4M									
19	Newark	40000	Base	PFA WTP Upgrades	\$2,808,831		380	Corpus	2.00%	20 years		\$0
				Clearwell and								
				associated								
19	Wilmington	107976	•	infrastrucure	\$19,000,000	E, W	380	_	2.00%	20 years		\$0
20		200706	Brandywine Springs	W. M. D. 1	<b>#1.025.000</b>		255	Suppleme		20		0.0
20	Artesian	209706	Manor	Water Main Renewal	\$1,035,000		375		2.00%	20 years		\$0
20	Artesian	13511	Knox Street	Water Main Renewal	\$250,000		375	Suppleme ntal	2.00%	20 years		\$0
20	Artesian	209706			\$1,354,000		375 375		2.00%	20 years		\$0 \$0
		_0,700	Water Production		¥1,00 1,000			P 415	,	20 Juli		<b>~~</b>
20	Magnolia	425		Well Improvements	\$850,500	A*	375	Corpus	2.00%	20 years		\$0
	=			_	-			-		-		

	Water System/	Population	Comprehensive			DAC? - A, E, W,		Funding			Anticipa ted Anticipa	stad	
Rank	Borrower	Served	Project Name	Project Description	Amount	U, E, W,	Total Points	Appropri ation	Financing	Terms	_	Amount	Notes
TWIII			School Lane Solar	Install of additional	T IIII GIII		10101101105						11000
21	New Castle	5364	Panels	solar panels	\$547,000	W	370	Base	2.00%	20 years	\$0		
			SCADA	SCADA and						•			
21	New Castle	5364	Improvements	monitoring Upgrades	\$50,000	W	370	Bse	2.00%	20 years	\$0		
22	Artesian	1872	Delaware City	Interconnect	\$3,850,000		360	Corpus	2.00%	20 years	\$0		
			John, S. Laws, Oak										
	D 11 111		Streets and Elem	W. M. D. 1			- 60		• • • • •	•	•		
22	Bridgeville	2256	School		\$2,033,000		360	Corpus	2.00%	20 years	\$0		
22	Cheswold/TUI Garrison Lake	10567	Main and Commerce	Water Main Extension	\$200,000	Е	260	Сомила	2.000/	20	<b>¢</b> 0		
22	Garrison Lake	12567	Street	Loop LSL inventory and	\$290,000	Ε,	360	Corpus	2.00%	20 years	\$0		
22	Dover	38000	Brandywine Court	replacement	\$115,000	Ε,	360	LSLR	2.00%	20 years	\$115,00	0	
22	20,01	30000	Brandy wine Court	Water Main	ψ11 <i>3</i> ,000	Δ,	300	Louis	2.0070	20 years	Ψ115,00		
22	Lewes BPW	3000	Kings Highway	Replacement	\$4,300,000		360	Corpus	2.00%	20 years	\$0		
				School Lane WTP				_		-			
22	New Castle	5364	PFAs Treatment	Expansion	\$2,092,000	W	360	Corpus	2.00%	20 years	\$0		
				Pressure and									
23	Frederica	870	•	Redundancy	\$3,715,000	A*	350	Corpus	2.00%	20 years	\$0		
24	Artesian	13511	Railroad Street	Water Main Renewal	\$320,000		345	Corpus	2.00%	20 years	\$0		
25	Wilmington	107976	Porter Filter Plant	WTP Electrical	\$11,000,000	E, W	330	Corpus	2.00%	20 xx20mg	\$0		
23	w minington	10/9/0	TOTICI TITICI TIAITI	Upgrades Install of emergency	\$11,000,000	L, W	330	Corpus	2.0070	20 years	Φ		
			School Lane Natural	standby generator for									
26	New Castle	5364	Gas Generator	School Lane WTP	\$327,000	W	320	Corpus	2.00%	20 years	\$0		
27	Artesian	209706	Sparrow Run	Water Main Renewal	\$1,540,000		315	Corpus	2.00%	20 years	\$0		
			Wilmington Manor	WTP Improvements,									
27	Artesian	209706	Gardens	PFOS removal	\$3,850,000	E,	315	Corpus	2.00%	20 years	\$0		
								Suppleme					
28	Artesian	13511	Route 113		\$900,000		310	ntal	2.00%	20 years	\$0		
28	Frederica	870	LSL inventory	LSL inventory	\$102,000	A*	310	LSLR			\$102,00	0	
29	Millsboro	7500	LSL inventory	Inventory and Mapping (1964 pipes)	\$233,500		300	LSLR	2.00%	20 years			
2)	14111150010	7500	Federal Street Water	Pressure and	\$233,300		300	LSLK	2.0070	20 years			
29	Milton	3200	Tower	Redundancy	\$3,720,000		300	Corpus	2.00%	20 years	\$0		
				Upgrades to				•		,	·		
				disinfection, SCADA									
				and treatment									
30	Artesian	209706	Midvale WTP	equipment	\$2,750,000	E	295	Corpus	2.00%	20 years	\$0		
31	Lewes BPW	3000	Jones Farm	Elevated Storage Tank	\$4,320,000		290	Corpus	2.00%	20 years	\$0		

	Water System/	Population	Comprehensive			DAC? - A, E, W,		Funding Appropri			Anticipa ted Anticipated	
Rank	Borrower	Served	Project Name	Project Description	Amount	U, E, W,	Total Points	ation	Financing	Terms	subsidy Subsidy Amount	Notes
			Savannah Road	Canal Crossing Water							J J	
31	Lewes BPW	3000	Bridge	Main	\$2,260,000		290	Corpus	2.00%	20 years	\$0	
			Water System Lead									
32	DE State Fair	452	Abatement	LSL	\$1,660,000		285	Corpus	2.00%	TBD	\$0	
			Consolidation -	Interconnection Phase				~			•	
33	Tidewater	4000	Angola Meadows	2B resiliency	\$3,410,000		280	Corpus	2.00%	20 years	\$0	
34	Middletown	22582	NE Quadrant	Water System Improvements	¢1 062 297		270	Corous	2.000/	20 ***	Φ0	
34	Middletown	22362	NE Quadrant	Install of new storage,	\$1,963,287		270	Corpus	2.00%	20 years	\$0	
34	Newark	40000	Elevated Storage Tank	<b>O</b> 7	\$5,500,000		270	Corpus	2.00%	20 years	\$0	
<i>3</i> .	1 · • · · • · · · · · · · · · · · · · ·	10000	zic valou z terugo rami	Interconnection for	\$2,200,000		2,0	0 01P 000	2.0070	20 years	Ψ 0	
			Consolidation - Dairy	resiliency and								
34	Tidewater	23463	Farm Road	redundancy	\$1,650,000		270	Corpus	2.00%	20 years	\$0	
				Water System								
35	Frederica	870	Water Loop	Hydraulic Loop	\$404,000	A*	260	Corpus	2.00%	20 years	\$0	
			Water System	SCADA and				_				
35	Frederica	870	SCADA	monitoring Upgrades	\$64,000	A*	260	Corpus	2.00%	20 years	\$0	
25	Magnalia	125	I CI inventory	Inventory and	¢1 500 000	A *	260	Company	2.000/	TDD	<b>¢</b> 0	
35	Magnolia	425	LSL inventory	Replacement LSL Inventory and	\$1,500,000	A*	260	Corpus	2.00%	TBD	\$0	
35	New Castle	5364	LSL Inventory	Mapping Mapping	\$284,000	W	260	Corpus	2.00%	TBD	\$0	
36	Middletown	22582	North Broad Street	Water Main Upgrade	\$1,451,026	·	240	Corpus	2.00%	20 years	\$0	
37	Seaford	6699	LSL Inventory	Inventory	\$212,000		220	Corpus	2.00%	TBD	\$0	
38	Artesian	7035	Choptank and Westside Hunt	Bring Westside Hunt Well online and upgrade Choptank WTP	\$3,850,000		190	Corpus	2.00%	20 years	\$0	
								Fire Protectio				
39	Artesian		Slaughter Beach	Fire Protection	\$2,000,000		180	n				
37	1 11 10 10 10 11			Inventory and	<b>\$2,000,000</b>		100					
39	Newark	40000	LSL Inventory	Replacement	\$2,250,000		180	Corpus	2.00%	TBD	\$0	
			DelDOT SR 24 Love									
			Creek to Mulberry	Joint DelDOT and								
39	Tidewater	23463	Knoll	Tidewater SR 24 Reho	\$1,700,000		180	Corpus	2.00%	20 years	\$0	
40	Bethany Crest	115	DEA a Transferre	Installation of PFAs	#200 F00		170	Chat	2.000/	20 -	<b>#200 500</b>	Bypassed for
40	MHP	115	PFAs Treatment	resin Water Main	\$300,500		170	State	2.00%	20 years	\$300,500	State Funds
40	Newark	40000	Water Mains	Water Main Replacement	\$2,200,000		170	Corpus	2.00%	20 years	\$0	
τ∪	110Wark	TUUUU	,, 4.01 1/141115	Replacement	Ψ2,200,000		170	Corpus	2.00/0	20 years	ψυ	

Rank	Water System/ Borrower	Population Served	Comprehensive Project Name	Project Description	Amount	DAC? - A, E, W, U		Funding Appropri ation	Financing	Terms	Anticipa ted Anticipat subsidy Subsidy A	
			SSWC - Plant 2 Iron and Manganese	Contaminant removal								
			Removal	Treatment and								
40	Sussex Shores	350	Improvement Project	Filtration	\$4,000,000		170	Corpus	2.00%	20 years	\$0	
			Lester Farms and	Bring Lester Wells online and upgrad								
41	Artesian	7035	Hyetts	Hyetts	\$2,970,000		160	Corpus	2.00%	20 years	\$0	
42	Newark	40000	Assessment	Water Mains	\$2,100,000				2.00%	20 years	\$0 \$0	
	Angola Crest 1		WT Security	New Security	<b>42</b> ,100,000			1	2.0070	20 ) 0012	Ψ 0	
43	and 2	159	Improvements	Measures	\$50,000		130	Corpus	2.00%	20 years	\$0	
								Growth?				
43	Artesian	7035	Cedar Lane Tank	Elevated Storage Tank	\$3,685,000		130	Fire				
				Sussex Co. north of								
			Route 1 Elevated	Lewes, along route 1				Growth?				
44	Artesian	13511	Tank	Storage tank	\$3,025,000	,	80	Fire				
								*=Antici				
					\$220,532,477	]		pated				

# Appendix B Fundable PPL

Rank	Water System/ Borrower	PWSID#	Population Served		Project Description	Amount	DAC? - A, E, W, U Total	Funding Appropri Points ation	Financing	Anticipa ted Terms subsidy	Anticipated Subsidy Amount	Notes
1	Countryside Hamlet MHP	DE0000817	66	Upgrades and Interconnect	Consolidation to Artesian - See Adam Gould emails New distribution, fire	\$745,470	800	State		State Grant	\$745,470	Anticipated to be Bypassed for State Funds Anticipated to
2	Stage Village MHP Willow Tree	DE0000569	93	Improvements and Consolidation with Delmar	hydrants, water meters and connections to Delmar System Upgrades, add	\$687,800	U 730	State		State Grant	\$687,800	be Bypassed for State Funds
3	MHP	DE0000134	141	MHP Water System Upgrades	storage Kitts Hummock Road Water Main	\$1,700,000	U 680	Suppleme ntal Suppleme		Sup DAC Sup	\$1,700,000	
4	New Castle	DE0000634 Delmar DE0000567	5364	Hewlett-Janvier	Replacement	\$1,490,000	W 670	ntal		DAC Base	\$1,490,000	
5	Delmar to Holly Oak MHP	Holy Oak DE0000568	4500 210	Water Line Extension	Consolidation Holly Oak MHP	\$1,100,000	630	Base	2.00%	Congres 20 years sional	\$981,120	
6	Milton	DE0000629	3200	LSL replacement	Carey, Walnut and Mill Street Main Replacement and LSL replacement Service line improvements and LSL removal \$22.5M	\$1,330,000	620	LSLR	2.00%	20 years 94%	\$0	
6	Wilmington	DE0000663	107976	LSL Removal	LSLR	\$22,500,000	E, W 620	LSLR		LSLR	\$12,875,792	
7	Seaford	DE0000246	6699	Martin Farms LSL Abatement	Abatement	\$2,072,149	590	Corpus	2.00%	TBD	\$0	
8	Wilmington	DE0000663	107976	Raw Water Transmission Improvements	From Brandywine Creek to either Porter or Hoopes Consolidation Capes	\$10,000,000	E, W 580	Suppleme ntal Suppleme		Sup DAC	\$5,626,080	
9	Lewes BPW	DE0000602	3000	Capes Cove	Cove MHP	\$320,600	560	ntal	2.00%	20 years	\$0	
9	Seaford	DE0000246	6699	Woolford Street LSL Abatement Jackson St. Service	Abatement	\$601,574	560	Corpus	2.00%	TBD	\$0	
10	Frederica	DE0000587	870	Connections	LSL replacement	\$512,000	<b>A*</b> 530	LSLR			\$512,000	
11	Magnolia	DE0000610	425	North Main Street	Water Main Improvements	\$900,000	A* 525	Base		Base DAC	\$900,000	
12	Dover	DE0000571	38000	LSL inventory	LSL regulatory requirements	\$60,000	E, 480	LSLR			\$60,000	

	Water System/		Population				DAC? - A, E, W,		Funding Appropri		Anticipa ted	Anticipated Subsidy	
Rank	Borrower	PWSID#	Served	· ·	Project Description	Amount	U	Total Points	ation	Financing	Terms subsidy	Amount	Notes
12	Greenwood	DE0000558	973	l Well Replacement	New 6" Water well and test well	\$378,000	Δ*	480	Base		Base DAC	\$378,000	
12	Gr <b>o</b> di, wood	<b>D</b> L0000330	713	The representation		Ψ370,000	11	100	Suppleme		2.10	ψ370,000	
12	New Castle	DE0000634	5364	Delaware Street	Water Main Extension	\$1,743,000	W	480	ntal	2.00%	20 years	\$0	
				Porter Filter Plant PFAs									
				Removal- \$45M project									
13	Wilmington	DE0000663	107976		Construct GAC vessels	\$4,787,405	E, W	450	EC		75% EC	\$4,787,405	
				Porter Filter Plant PFAs									
12	Wilmington	DE0000663	107976	Removal - \$45M project	Construct GAC vessels	\$40,212,595	E, W	450	Cornus	2.00%	20 years	\$0	
13	Willington	DE0000003	10/9/0	Dulany Well Abandon and	Abandonment and	\$40,212,393	E, W	430	Corpus	2.0070	20 years	ΦΟ	
14	Seaford	DE0000246	6699	Nylon Well Rehab	Rehabilitation	\$1,901,990		430	Corpus	2.00%	20 years	\$0	
17	Scarora	DL0000240	0077	Tyron Wen Rende	TCHAOIII ATON	ψ1,701,770		130	Corpus	2.0070	Base	ΨΟ	
15	Frederica	DE0000587	870	Market Street	Water Main Renewal	\$328,000	A*	420	Base		DAC	\$328,000	
					1 of (7?) Phases to	<b>40</b> = 0,000						<del>+</del>	
				Waterline and Service Line	replace water and								
16	Rehoboth Beach	DE0000723	1400	Replacements Phase I	service lines	\$2,527,000		410	LSLR	2.00%	20 years	\$0	
					Pressure and						Base		
17	Magnolia	DE0000610	425	Elevated Storage Tank	Redundancy	\$2,637,700	A*	405	Base		DAC	\$800,000	
				T 07 1	Mapping and				T CT D				
18	Lewes BPW	DE0000602	3000	LSL inventory	Replacement Planning	\$263,000		400	LSLR	2.00%	20 years	\$0	
					Well and Treatment								
10	3.6%	DE0000629	3200	Federal Street Well and	upgrades with ARPA	<b>#201.201</b>		400	D	2 000/	20	Φ.0	
18	Milton			WT	match	\$301,381		400	Base	2.00%	20 years	\$0	
10	Navyorla	DE0000620	40000	SWFWTP PFAs Treatment	DEA WTD Unavadas	¢1 <b>5</b> 01 160		200	EC		25% EC	¢1.501.160	
19	Newark	DE0000630	40000	SWFWTP PFAs Treatment	PFA WTP Upgrades	\$1,591,169		380	EC		23% EC	\$1,591,169	
19	Newark	DE0000630	40000	\$4.4M Base	PFA WTP Upgrades	\$2,808,831		380	Corpus	2.00%	20 years	\$0	
17	Newark	DE0000030	70000	ψτ.τινι Δαςς	Clearwell and	\$2,000,031		300	Corpus	2.0070	20 years	ΨΟ	
				Porter Clearwell	associated								
19	Wilmington	DE0000663	107976	Improvements	infrastrucure	\$19,000,000	E, W	380	Corpus	2.00%	20 years	\$0	
	8			1		¥ = 2 , 4 4 4 5, 4 4 4	<del>_,</del>		Suppleme		_, , ,	7.	
20	Artesian	DE0000552	209706	Brandywine Springs Manor	Water Main Renewal	\$1,035,000		375	ntal	2.00%	20 years	\$0	
						, ,			Suppleme		·		
20	Artesian	DE00A0323	13511	Knox Street	Water Main Renewal	\$250,000		375	ntal	2.00%	20 years	\$0	
20	Artesian	DE0000552	209706	Stratford	Water Main Renewal	\$1,354,000		375	Corpus	2.00%	20 years	\$0	
20	Magnolia	DE0000610	425	Water Production Well	Well Improvements	\$850,500	A*	375	Corpus	2.00%	20 years	\$0	
					Install of additional								
21	New Castle	DE0000634	5364	School Lane Solar Panels	solar panels	\$547,000	W	370	Base	2.00%	20 years	\$0	

	W . C .		D 1.				DAC? -		Funding		I	Anticipa	
Rank	Water System/ Borrower	PWSID#	Population Served		Project Description	Amount	A, E, W,	Total Points	Appropri ation	Financing	Terms	ted Anticipated Subsidy subsidy Amount	Notes
Kalik	Bollowel	1 WSID#	Scrvcu	Tundable Hoject Name	SCADA and	Amount	0	Total Pollits	ation	Tillalicing	TCIIIIS	Subsidy Amount	Notes
21	New Castle	DE0000634	5364	SCADA Improvements	monitoring Upgrades	\$50,000	W	370	Bse	2.00%	20 years	\$0	
22	Artesian	DE0000566	1872	Delaware City	Interconnect	\$3,850,000		360	Corpus	2.00%	20 years	\$0	
				John, S. Laws, Oak Streets							-		
22	Bridgeville	DE0000559	2256	and Elem School	Water Main Renewal	\$2,033,000		360	Corpus	2.00%	20 years	\$0	
	Cheswold/TUI				Water Main Extension								
22	Garrison Lake	DE0000004	12567	Main and Commerce Street	Loop	\$290,000	Ε,	360	Corpus	2.00%	20 years	\$0	
22	Davies	DE0000571	20000	Daniel de marier a Carret	LSL inventory and	<b>#115.000</b>	Г	260	LCLD	2.000/	20	Ф115 000	
22	Dover	DE0000571	38000	Brandywine Court	replacement Water Main	\$115,000	E,	360	LSLR	2.00%	20 years	\$115,000	
22	Lewes BPW	DE0000602	3000	Kings Highway	Replacement	\$4,300,000		360	Corpus	2.00%	20 years	\$0	
22	2011002211	BE0000002	2000	1211190 1219111111	School Lane WTP	\$ 1,500,000		300	o orpus	2.0070	20 years	Ψ	
22	New Castle	DE0000634	5364	PFAs Treatment	Expansion	\$2,092,000	W	360	Corpus	2.00%	20 years	\$0	
					Pressure and						•		
23	Frederica	DE0000587	870	Water Storage Tower	Redundancy	\$3,715,000	A*	350	Corpus	2.00%	20 years	\$0	
24	Artesian	DE00A0323	13511	Railroad Street	Water Main Renewal	\$320,000		345	Corpus	2.00%	20 years	\$0	
2.5	*****	DE0000662	107076	D ( E'l  D	WTP Electrical	<b>#11</b> 000 000	D 111	220		2.000/	20	ΦO	
25	Wilmington	DE0000663	107976	Porter Filter Plant	Upgrades	\$11,000,000	E, W	330	Corpus	2.00%	20 years	\$0	
				School Lane Natural Gas	Install of emergency standby generator for								
26	New Castle	DE0000634	5364	Generator	School Lane WTP	\$327,000	W	320	Corpus	2.00%	20 years	\$0	
27	Artesian	DE0000552	209706	Sparrow Run	Water Main Renewal	\$1,540,000		315	Corpus	2.00%	20 years	\$0	
				Wilmington Manor	WTP Improvements,								
27	Artesian	DE0000552	209706	Gardens	PFOS removal	\$3,850,000	Ε,	315	Corpus	2.00%	20 years	\$0	
									Suppleme				
28	Artesian	DE00A0323	13511	Route 113	Water Main Renewal	\$900,000		310	ntal	2.00%	20 years	\$0	
28	Frederica	DE0000587	870	LSL inventory	LSL inventory	\$102,000	A*	310	LSLR			\$102,000	
29	Millsboro	DE0000622	7500	LSL inventory	Inventory and Mapping (1964 pipes)	\$233,500		300	LSLR	2.00%	20 years		
2)	Willisooro			Federal Street Water	Pressure and	Ψ233,300		300	Louis	2.0070	20 years		
29	Milton	DE0000629	3200	Tower	Redundancy	\$3,720,000		300	Corpus	2.00%	20 years	\$0	
					Upgrades to						•		
					disinfection, SCADA								
					and treatment								
30	Artesian	DE0000552	209706	Midvale WTP	equipment	\$2,750,000		295	Corpus	2.00%	20 years	\$0	
31	Lewes BPW	DE0000602	3000	Jones Farm	Elevated Storage Tank	\$4,320,000		290	Corpus	2.00%	20 years	\$0	
31	Lewes BPW	DE0000602	3000	Savannah Road Bridge	Canal Crossing Water Main	\$2,260,000		290	Corpus	2.00%	20 years	\$0	
<i>3</i> 1	Lewes D1 W	DE0000002	3000	Water System Lead	TVICILI	Ψ2,200,000		270	Corpus	2.0070	20 years	\$0	
32	DE State Fair	DE0000595	452	Abatement	LSL	\$1,660,000		285	Corpus	2.00%	TBD	\$0	

	Water System/		Population				DAC? - A, E, W,		Funding Appropri		Antic	ipa ted Anticipated Subsidy	
Rank	Borrower	PWSID#	Served		Project Description	Amount		Total Poi		Financing	Terms subsi		Notes
_	<u>'</u>			Consolidation - Angola	Interconnection Phase								
33	Tidewater	DE0000248	4000	Meadows	2B resiliency	\$3,410,000		280	Corpus	2.00%	20 years	\$0	
					Water System								
34	Middletown	DE0000614	22582	NE Quadrant	Improvements	\$1,963,287		270	Corpus	2.00%	20 years	\$0	
					Install of new storage,								
34	Newark	DE0000630	40000	Elevated Storage Tank	pressure and turnover	\$5,500,000		270	Corpus	2.00%	20 years	\$0	
					Interconnection for								
				Consolidation - Dairy Farm	resiliency and								
34	Tidewater	DE0000991	23463	Road	redundancy	\$1,650,000		270	Corpus	2.00%	20 years	\$0	
					Water System								
35	Frederica	DE0000587	870	Water Loop	Hydraulic Loop	· ·	A*	260	Corpus	2.00%	20 years	\$0	
					SCADA and								
35	Frederica	DE0000587	870	Water System SCADA	monitoring Upgrades	. ,	A*	260	Corpus	2.00%	20 years	\$0	
2.5	N.C. 11	DE0000610	40.5	TOI:	Inventory and		ماه ۸	260		2 000/	The P	фо	
35	Magnolia	DE0000610	425	LSL inventory	Replacement		A*	260	Corpus	2.00%	TBD	\$0	
2.5	N C 4	DE0000634	50.CA	I CI I	LSL Inventory and		***	260	C	2.000/	The state of the s	ФО	
35	New Castle	DE0000634	5364	LSL Inventory	Mapping			260	Corpus	2.00%	TBD	\$0	
36	Middletown	DE0000614	22582	North Broad Street	Water Main Upgrade			240	Corpus	2.00%	20 years	\$0	
37	Seaford	DE0000246	6699	LSL Inventory	Inventory	, ,		220	Corpus	2.00%	TBD	\$0	
					Bring Westside Hunt Well online and								
				Choptank and Westside	upgrade Choptank								
38	Artesian	DE00A0349	7035	Hunt	WTP			190	Corpus	2.00%	20 years	\$0	
30	7 H testan	DE00/10319	7033	Trunt	Inventory and	+- ) )		170	Сограз	2.0070	20 years	ΨΟ	
39	Newark	DE0000630	40000	LSL Inventory	Replacement			180	Corpus	2.00%	TBD	\$0	
	1,0,0,00	BECCCCC	10000	DelDOT SR 24 Love	Joint DelDOT and			100	o crp us	2.0070	122	Ψ.	
39	Tidewater	DE0000991	23463	Creek to Mulberry Knoll				180	Corpus	2.00%	20 years	\$0	
	Bethany Crest				Installation of PFAs	. , ,			1		,	•	Bypassed for
40	MHP	DE0000628	115	PFAs Treatment	resin			170	State	2.00%	20 years	\$300,500	State Funds
					Water Main						J		
40	Newark	DE0000630	40000	Water Mains	Replacement	\$2,200,000		170	Corpus	2.00%	20 years	\$0	
				SSWC - Plant 2 Iron and	Contaminant removal								
				Manganese Removal	Treatment and								
40	Sussex Shores	DE0000557	350	Improvement Project	Filtration	\$4,000,000		170	Corpus	2.00%	20 years	\$0	
					Bring Lester Wells								
					online and upgrad								
41	Artesian	DE00A0349	7035	Lester Farms and Hyetts	Hyetts			160	Corpus	2.00%	20 years	\$0	
42	Newark	DE0000630	40000	Conditions Assessment	Water Mains	\$2,100,000		150	Corpus	2.00%	20 years	\$0	

Rank	Water System/ Borrower	PWSID#	Population Served		Project Description	Amount	DAC? - A, E, W, U		Funding Appropri ation	Financing		Anticipa ted subsidy	Anticipated Subsidy Amount	Notes
43	Angola Crest2	DE0000999	159	WT Security Improvements	New Security Measures			130	One is a TNC, one is a CWS	2.00%	20 years		\$0	
						\$211,822,477								

KEY:

\*=Anticipated

-		Anticipated federal Award for Projects	
1	110,000		LSLR Related
\$6,378,574		\$6,378,574	EC Related
\$17,438,600	\$1,799,200	\$15,949,301	[17,748,501]
\$6,242,081	\$1,401,600	\$5,008,134	[6,409,734] Plus Corpus
	Requests \$27,642,500 \$6,378,574 \$17,438,600	\$6,378,574 \$17,438,600 \$1,799,200	Actual Project State Match for Requests Projects \$27,642,500 \$27,887,331 \$6,378,574 \$17,438,600 \$1,799,200 \$15,949,301

	Disad	lvantaged	Community	/ Identifier
A= Affordability,	pending final f	inancial rev	iews	
E= EPA EjScree	n			
W= White House	Climate and l	Economic S	creening To	ool
U= Underserved			ı	

			Anticipated
	Additional		Award Ad
	Subsidy Name	Total	Sub
	LSLR DAC	\$13,664,792	13,664,792
	EC	\$6,378,574	6,378,574
	Supplemental		
	DAC	\$8,816,080	8,816,080
			840,960-
ı	Base DAC	\$2,406,000	2,452,800
	Base		
	Congressional	\$981,120	981,120

# **Appendix C Funding by Grant PPL**

	Water System/		Population				DAC? - A, E, W, To	Anticipated tal Subsidy
Rank	Borrower	PWSID#	Served	Project Name	Project Description	Amount	U Po	ints Amount
		Ba	se FFY 22	Capitalization Gra	nt Projects			
		Delmar						
	Delmar to	DE0000567						
	Holly Oak	Holy Oak	4500		Consolidation Holly			
5	MHP	DE0000568	210	Water Line Extension	Oak MHP Water Main	\$1,100,000	63	981,120
10	Magnolia	DE0000610	425	North Main Street	Improvements New 6" Water well	\$900,000	A* 52	5 \$900,000
11	Greenwood	DE0000558	973	Well Replacement	and test well	\$378,000	A* 48	0 \$378,000
13	Frederica	DE0000587	870	Market Street Elevated Storage	Water Main Renewal Pressure and	\$328,000	A* 42	\$328,000
15	Magnolia	DE0000610	425	Tank	Redundancy	\$2,637,700	A* 40	5 \$800,000
	Ü	DE0000629	3200	Federal Street Well	Well and Treatment upgrades with ARPA			·
17	Milton			and WT	match	\$301,381	40	0 \$0
				School Lane Solar	Install of additional			
20	New Castle	DE0000634	5364	Panels	solar panels	\$547,000	W 37	0 \$0
				SCADA	SCADA and			
20	New Castle	DE0000634	5364	Improvements	monitoring Upgrades	\$50,000	W 37	
					TOTALS	\$6,242,081		\$2,406,000
			DWcDi	E Course Fund Duo	: a a t a			
			DWSK	F Corpus Fund Pro	jects			
				Porter Filter Plant PFAs Removal -				
12	Wilmington	DE0000663	107976		Construct GAC vessels	\$40,212,595	E, W 45	0 \$0
1,2	vv minington	BE0000005	107770	Martin Farms LSL	Construct Gric Tessels	Ψ10,212,333	15, 11	0 40
43	Seaford	DE0000246	6699	Abatement	Abatement	\$2,072,149	59	0 \$0
.5				Woolford Street LSL		<del></del>		
43	Seaford	DE0000246	6699	Abatement	Abatement	\$601,574	56	0 \$0
				Dulany Well				
				Abandon and Nylon	Abandonment and			
45	Seaford	DE0000246	6699	Well Rehab	Rehabilitation	\$1,901,990	43	0 \$0
				SWFWTP PFAs				
				Treatment \$4.4M				
18	Newark	DE0000630	40000	Base	PFA WTP Upgrades	\$2,808,831	38	0 \$0
				Dt C1 11	Clearwell and			
18	Wilmington	DE0000663	107976	Porter Clearwell Improvements	associated infrastrucure	\$19,000,000	E, W 38	0 \$0
19	Artesian	DE00000552	209706	Stratford	Water Main Renewal	\$1,354,000	E, W 38	
1 1 9	1 ii coiaii	DE0000332	207100	Suanold	., ator main Renewal	Ψ1,337,000	37.	\$0

	Water System/		Population				DAC? - A, E, W,		Anticipated Subsidy
Rank	Borrower	PWSID#	Served	Project Name	Project Description	Amount		Points	Amount
				Water Production					
19	Magnolia	DE0000610	425	Well	Well Improvements	\$850,500	A*	375	\$0
21	Artesian	DE0000566	1872	Delaware City	Interconnect	\$3,850,000		360	\$0
				John, S. Laws, Oak					
21	Bridgeville	DE0000559	2256	Streets and Elem School	Water Main Renewal	\$2,033,000		360	\$0
	Cheswold/TU	DE0000339	2230	School	water Main Renewar	\$2,033,000		300	<b>\$</b> 0
	I Garrison			Main and Commerce	Water Main Extension				
21	Lake	DE0000004	12567	Street	Loop	\$290,000	E,	360	\$0
					Water Main				
21	Lewes BPW	DE0000602	3000	Kings Highway	Replacement	\$4,300,000		360	\$0
					School Lane WTP				
21	New Castle	DE0000634	5364	PFAs Treatment	Expansion	\$2,092,000	W	360	\$0
	F 1 '		0=0	W . G . T	Pressure and	<b>*** -1 - * * * *</b>			
22	Frederica	DE0000587	870	Water Storage Tower	Redundancy	\$3,715,000	A*	350	\$0
23	Artesian	DE00A0323	13511	Railroad Street	Water Main Renewal WTP Electrical	\$320,000		345	\$0
24	Wilmington	DE0000663	107976	Porter Filter Plant	Upgrades	\$11,000,000	E, W	330	\$0
24	William grou	DL0000003	107770	1 ofter 1 fitter 1 funt	Install of emergency	\$11,000,000	ь, ч	330	\$0
				School Lane Natural	standby generator for				
25	New Castle	DE0000634	5364	Gas Generator	School Lane WTP	\$327,000	W	320	\$0
26	Artesian	DE0000552	209706	Sparrow Run	Water Main Renewal	\$1,540,000		315	\$0
				Wilmington Manor	WTP Improvements,				
26	Artesian	DE0000552	209706	Gardens	PFOS removal	\$3,850,000	E,	315	\$0
		DE0000629	3200	Federal Street Water	Pressure and				
28	Milton			Tower	Redundancy	\$3,720,000		300	\$0
					Upgrades to				
					disinfection, SCADA and treatment				
29	Artesian	DE0000552	209706	Midvale WTP	equipment	\$2,750,000	E	295	\$0
30	Lewes BPW	DE0000602	3000		Elevated Storage Tank	\$4,320,000	L	290	\$0 \$0
50	Zewes Zi w	D20000002	5000		Canal Crossing Water	\$ 1,520,000		200	ΨΟ
30	Lewes BPW	DE0000602	3000	Bridge	Main	\$2,260,000		290	\$0
				Water System Lead					
31	DE State Fair	DE0000595	452	Abatement	LSL	\$1,660,000		285	\$0
				Consolidation -					
32	Tidewater	DE0000248	4000	Angola Meadows	2B resiliency	\$3,410,000		280	\$0
	3.C.1.U.	DE0000011	22.502	NE O 1	Water System	01.052.25=		270	
33	Middletown	DE0000614	22582	NE Quadrant	Improvements	\$1,963,287		270	\$0

Antici Su		DAC? - A, E, W,				Population		Water System/	
Ai	Points	U	Amount	Project Description	Project Name	Served	PWSID#	Borrower	Rank
				Install of new storage,	Elevated Storage				
	270		\$5,500,000	pressure and turnover	Tank	40000	DE0000630	Newark	33
				Interconnection for					
				resiliency and	Consolidation - Dairy				
	270		\$1,650,000	redundancy	Farm Road	23463	DE0000991	Tidewater	33
				Water System					
	260	A*	\$404,000	Hydraulic Loop	Water Loop	870	DE0000587	Frederica	34
				SCADA and	Water System				
	260	A*	\$64,000	monitoring Upgrades	SCADA	870	DE0000587	Frederica	34
				Inventory and					
	260	A*	\$1,500,000	Replacement	LSL inventory	425	DE0000610	Magnolia	34
				LSL Inventory and					
	260	W	\$284,000	Mapping	LSL Inventory	5364	DE0000634	New Castle	34
	240		\$1,451,026	Water Main Upgrade	North Broad Street	22582	DE0000614	Middletown	35
	220		\$212,000	Inventory	LSL Inventory	6699	DE0000246	Seaford	44
				Bring Westside Hunt					
				Well online and					
				upgrade Choptank	Choptank and				
	190		\$3,850,000	WTP	Westside Hunt	7035	DE00A0349	Artesian	36
				Inventory and					
	180		\$2,250,000	Replacement	LSL Inventory	40000	DE0000630	Newark	37
					DelDOT SR 24 Love				
				Joint DelDOT and	Creek to Mulberry				
	180		\$1,700,000	Tidewater SR 24 Reho	Knoll	23463	DE0000991	Tidewater	38
				Water Main					
	170		\$2,200,000	Replacement	Water Mains	40000	DE0000630	Newark	39
					SSWC - Plant 2 Iron				
				Contaminant removal	and Manganese				
				Treatment and	Removal			Sussex	
	170		\$4,000,000	Filtration	Improvement Project	350	DE0000557	Shores	39
				Bring Lester Wells					
				online and upgrad	Lester Farms and				
	160		\$2,970,000	Hyetts	Hyetts	7035	DE00A0349	Artesian	40
					Conditions				
	150		\$2,100,000	Water Mains	Assessment	40000	DE0000630	Newark	41
				New Security	WT Security			Angola	
	130		\$50,000	Measures	Improvements	159	DE0000999	Crest2	42
			\$152,386,952	TOTALS					

	Water System/	DIVICID II	Population		D 1 (D 1)		DAC? - A, E, W, Total	Anticipated Subsidy
Rank	Borrower	PWSID#	Served	5	Project Description	Amount	U Points	Amount
				Porter Filter Plant PFAs Removal-				
12	Wilmington	DE0000663	107976		Construct GAC vessels	\$4,787,405	E, W 450	\$4,787,405
12	, minington	BECCCCC	10/5/0	SWFWTP PFAs	Construct Gric vessels	ψ1,707,103	2, 11	ψ 1,7 07,103
				Treatment - \$4.4M				
18	Newark	DE0000630	40000	EC	PFA WTP Upgrades	\$1,591,169	380	\$1,591,169
					TOTALS	\$6,378,574		\$6,378,574
		Lead Service	e Line Ren	lacement Capitaliz	ation Grant Projects			
			1	The second second	Carey, Walnut and			
		DE0000629	3200		Mill Street Main			
		DE0000029	3200		Replacement and LSL			
6	Milton			LSL replacement	replacement	\$1,330,000	620	\$0
					Service line			
					improvements and			
_	****	D	105056	I OT D	LSL removal \$22.5M	<b>*** *</b> ** <b>*</b> **	- W (00	<b>***</b>
6	Wilmington	DE0000663	107976	LSL Removal	LSLR	\$22,500,000	E, W 620	\$12,875,792
9	Frederica	DE0000507	970	Jackson St. Service Connections	LSL replacement	Ø512 000	A * 520	Ø512 000
9	Frederica	DE0000587	870	Connections	LSL regulatory	\$512,000	<b>A*</b> 530	\$512,000
11	Dover	DE0000571	38000	LSL inventory	requirements	\$60,000	E, 480	\$60,000
11	Bover	DE0000371	30000	Waterline and	1 of (7?) Phases to	\$00,000	L, 400	\$00,000
	Rehoboth			Service Line	replace water and			
14	Beach	DE0000723	1400	Replacements Phase I	service lines	\$2,527,000	410	\$0
				•	Mapping and	, ,, ,,,,,,,		
16	Lewes BPW	DE0000602	3000	LSL inventory	Replacement Planning	\$263,000	400	\$0
					LSL inventory and			
21	Dover	DE0000571	38000	Brandywine Court	replacement	\$115,000	E, 360	\$115,000
27	Frederica	DE0000587	870	LSL inventory	LSL inventory	\$102,000	<b>A*</b> 310	\$102,000
•	NCH 1	DE0000622	7500	TOL:	Inventory and	0000 500	200	
28	Millsboro	DE0000622	7500	LSL inventory	Mapping (1964 pipes)	\$233,500	300	012 ((4 502
					TOTALS	\$27,642,500		\$13,664,792
			State 1	Bond Bill Fund Pro	jects			
					Consolidation to			
	Countryside			Upgrades and	Artesian - See Adam			
1	Hamlet MHP	DE0000817	66	Interconnect	Gould emails	\$745,470	800	\$745,470

Rank	Water System/ Borrower	PWSID#	Population Served	Project Name	Project Description	Amount	DAC? - A, E, W, Tota U Poin	
				Water System	New distribution, fire			
	C. 1711			*	hydrants, water meters			
2	Stage Village MHP	DE0000569	93	Consolidation with Delmar	and connections to  Delmar	\$687,800	U 730	\$687,800
	Bethany	DE0000369	93	Deliliai	Installation of PFAs	\$087,800	0 730	\$087,800
39	Crest MHP	DE0000628	115	PFAs Treatment	resin	\$300,500	170	\$300,500
					TOTALS	\$1,733,770		\$1,733,770
		DWSRF Su	pplemental	FFY22 Capitaliza	tion Grant Projects			
					System Upgrades, add			
	Willow Tree			MHP Water System	storage Kitts			
3	MHP	DE0000134	141	Upgrades	Hummock Road	\$1,700,000	U 680	\$1,700,000
	N. G. 1	D. D. O. O. C. A.		TT 1 T	Water Main		*** <=0	44.400.000
4	New Castle	DE0000634	5364	Hewlett-Janvier	Replacement	\$1,490,000	W 670	\$1,490,000
				Raw Water	From Brandywine			
_	33711	DE0000663	107076	Transmission	Creek to either Porter	<b>#10.000.000</b>	E W 500	Φ <b>5</b> ( <b>2</b> ( 000
7	Wilmington	DE0000663	107976	Improvements	or Hoopes	\$10,000,000	E, W 580	\$5,626,080
0	I DDW	DE0000602	2000	0 0	Consolidation Capes	#220 COO	5.60	ФО.
8	Lewes BPW	DE0000602	3000	Capes Cove	Cove MHP	\$320,600	560	\$0
11	New Castle	DE0000634	5364		Water Main Extension	\$1,743,000	W 480	\$0
		D-0000	• • • • • • • • • • • • • • • • • • • •	Brandywine Springs				
19	Artesian	DE0000552	209706	Manor	Water Main Renewal	\$1,035,000	375	\$0
19	Artesian	DE00A0323	13511	Knox Street	Water Main Renewal	\$250,000	375	\$0
27	Artesian	DE00A0323	13511	Route 113	Water Main Renewal	\$900,000	310	\$0
					TOTALS	\$17,438,600		\$8,816,080

Grand Totals \$211,822,477

			Anticipated	
	Actual Project	State Match for	federal Award	
	Requests	Projects	for Projects	
LSLR	\$27,642,500		\$27,887,331	LSLR Related
EC	\$6,378,574		\$6,378,574	EC Related
Supplemental	\$17,438,600	\$1,799,200	\$15,949,301	[17,748,501]
Base	\$6,242,081	\$1,401,600	\$5,008,134	[6,409,734] Plus Corpus

	Disadvantaged Community Identifie
A= Affordability, pe	ending final financial reviews
E= EPA EjScreen	
W= White House C	Climate and Economic Screening Tool

		Anticipated
Additional		Award Ad
Subsidy Name	Total	Sub
LSLR DAC	\$13,664,792	13,664,792
EC	\$6,378,574	6,378,574
Supplemental		
DAC	\$8,816,080	8,816,080
		840,960-
Base DAC	\$2,406,000	2,452,800
Base		
Congressional	\$981,120	981,120

	Water System/		Population				DAC? - A, E, W, To	Anticipated tal Subsidy
Rank	Borrower	PWSID#	Served	Project Name	Project Description	Amount	U Po	ints Amount
		Ba	se FFY 22	Capitalization Gra	nt Projects			
		Delmar						
	Delmar to	DE0000567						
	Holly Oak	Holy Oak	4500		Consolidation Holly			
5	MHP	DE0000568	210	Water Line Extension	Oak MHP Water Main	\$1,100,000	63	981,120
10	Magnolia	DE0000610	425	North Main Street	Improvements New 6" Water well	\$900,000	A* 52	5 \$900,000
11	Greenwood	DE0000558	973	Well Replacement	and test well	\$378,000	A* 48	0 \$378,000
13	Frederica	DE0000587	870	Market Street Elevated Storage	Water Main Renewal Pressure and	\$328,000	A* 42	\$328,000
15	Magnolia	DE0000610	425	Tank	Redundancy	\$2,637,700	A* 40	5 \$800,000
	Ü	DE0000629	3200	Federal Street Well	Well and Treatment upgrades with ARPA			·
17	Milton			and WT	match	\$301,381	40	0 \$0
				School Lane Solar	Install of additional			
20	New Castle	DE0000634	5364	Panels	solar panels	\$547,000	W 37	0 \$0
				SCADA	SCADA and			
20	New Castle	DE0000634	5364	Improvements	monitoring Upgrades	\$50,000	W 37	
					TOTALS	\$6,242,081		\$2,406,000
			DWcDi	E Course Fund Duo	: a a t a			
			DWSK	F Corpus Fund Pro	jects			
				Porter Filter Plant PFAs Removal -				
12	Wilmington	DE0000663	107976		Construct GAC vessels	\$40,212,595	E, W 45	0 \$0
1,2	vv minington	BE0000005	107770	Martin Farms LSL	Construct Gric Tessels	Ψ10,212,333	L, ** 13	0 40
43	Seaford	DE0000246	6699	Abatement	Abatement	\$2,072,149	59	0 \$0
.5				Woolford Street LSL		<del></del>		
43	Seaford	DE0000246	6699	Abatement	Abatement	\$601,574	56	0 \$0
				Dulany Well				
				Abandon and Nylon	Abandonment and			
45	Seaford	DE0000246	6699	Well Rehab	Rehabilitation	\$1,901,990	43	0 \$0
				SWFWTP PFAs				
				Treatment \$4.4M				
18	Newark	DE0000630	40000	Base	PFA WTP Upgrades	\$2,808,831	38	0 \$0
				Dt C1 11	Clearwell and			
18	Wilmington	DE0000663	107976	Porter Clearwell Improvements	associated infrastrucure	\$19,000,000	E, W 38	0 \$0
19	Artesian	DE00000552	209706	Stratford	Water Main Renewal	\$1,354,000	E, W 38	
1 1 9	1 ii coiaii	DE0000332	207100	Suanold	., ator main Renewal	Ψ1,337,000	37.	\$0

	Water System/		Population				DAC? - A, E, W,		Anticipated Subsidy
Rank	Borrower	PWSID#	Served	Project Name	Project Description	Amount		Points	Amount
				Water Production					
19	Magnolia	DE0000610	425	Well	Well Improvements	\$850,500	A*	375	\$0
21	Artesian	DE0000566	1872	Delaware City	Interconnect	\$3,850,000		360	\$0
				John, S. Laws, Oak					
21	Bridgeville	DE0000559	2256	Streets and Elem School	Water Main Renewal	\$2,033,000		360	\$0
	Cheswold/TU	DE0000339	2230	School	water Main Renewar	\$2,033,000		300	<b>\$</b> 0
	I Garrison			Main and Commerce	Water Main Extension				
21	Lake	DE0000004	12567	Street	Loop	\$290,000	E,	360	\$0
					Water Main				
21	Lewes BPW	DE0000602	3000	Kings Highway	Replacement	\$4,300,000		360	\$0
					School Lane WTP				
21	New Castle	DE0000634	5364	PFAs Treatment	Expansion	\$2,092,000	W	360	\$0
	F 1 '		0=0	W . G . T	Pressure and	<b>*** -1 - * * * *</b>			
22	Frederica	DE0000587	870	Water Storage Tower	Redundancy	\$3,715,000	A*	350	\$0
23	Artesian	DE00A0323	13511	Railroad Street	Water Main Renewal WTP Electrical	\$320,000		345	\$0
24	Wilmington	DE0000663	107976	Porter Filter Plant	Upgrades	\$11,000,000	E, W	330	\$0
24	William grou	DL0000003	107770	1 ofter 1 fitter 1 funt	Install of emergency	\$11,000,000	ь, ч	330	\$0
				School Lane Natural	standby generator for				
25	New Castle	DE0000634	5364	Gas Generator	School Lane WTP	\$327,000	W	320	\$0
26	Artesian	DE0000552	209706	Sparrow Run	Water Main Renewal	\$1,540,000		315	\$0
				Wilmington Manor	WTP Improvements,				
26	Artesian	DE0000552	209706	Gardens	PFOS removal	\$3,850,000	E,	315	\$0
		DE0000629	3200	Federal Street Water	Pressure and				
28	Milton			Tower	Redundancy	\$3,720,000		300	\$0
					Upgrades to				
					disinfection, SCADA and treatment				
29	Artesian	DE0000552	209706	Midvale WTP	equipment	\$2,750,000	E	295	\$0
30	Lewes BPW	DE0000602	3000		Elevated Storage Tank	\$4,320,000	L	290	\$0 \$0
50	Zewes Zi w	D20000002	5000		Canal Crossing Water	\$ 1,520,000		200	ΨΟ
30	Lewes BPW	DE0000602	3000	Bridge	Main	\$2,260,000		290	\$0
				Water System Lead					
31	DE State Fair	DE0000595	452	Abatement	LSL	\$1,660,000		285	\$0
				Consolidation -					
32	Tidewater	DE0000248	4000	Angola Meadows	2B resiliency	\$3,410,000		280	\$0
	3.C.1.U.	DE0000011	22.502	NE O 1	Water System	01.052.25=		270	
33	Middletown	DE0000614	22582	NE Quadrant	Improvements	\$1,963,287		270	\$0

Antici Su		DAC? - A, E, W,				Population		Water System/	
Ai	Points	U	Amount	Project Description	Project Name	Served	PWSID#	Borrower	Rank
				Install of new storage,	Elevated Storage				
	270		\$5,500,000	pressure and turnover	Tank	40000	DE0000630	Newark	33
				Interconnection for					
				resiliency and	Consolidation - Dairy				
	270		\$1,650,000	redundancy	Farm Road	23463	DE0000991	Tidewater	33
				Water System					
	260	A*	\$404,000	Hydraulic Loop	Water Loop	870	DE0000587	Frederica	34
				SCADA and	Water System				
	260	A*	\$64,000	monitoring Upgrades	SCADA	870	DE0000587	Frederica	34
				Inventory and					
	260	A*	\$1,500,000	Replacement	LSL inventory	425	DE0000610	Magnolia	34
				LSL Inventory and					
	260	W	\$284,000	Mapping	LSL Inventory	5364	DE0000634	New Castle	34
	240		\$1,451,026	Water Main Upgrade	North Broad Street	22582	DE0000614	Middletown	35
	220		\$212,000	Inventory	LSL Inventory	6699	DE0000246	Seaford	44
				Bring Westside Hunt					
				Well online and					
				upgrade Choptank	Choptank and				
	190		\$3,850,000	WTP	Westside Hunt	7035	DE00A0349	Artesian	36
				Inventory and					
	180		\$2,250,000	Replacement	LSL Inventory	40000	DE0000630	Newark	37
					DelDOT SR 24 Love				
				Joint DelDOT and	Creek to Mulberry				
	180		\$1,700,000	Tidewater SR 24 Reho	Knoll	23463	DE0000991	Tidewater	38
				Water Main					
	170		\$2,200,000	Replacement	Water Mains	40000	DE0000630	Newark	39
					SSWC - Plant 2 Iron				
				Contaminant removal	and Manganese				
				Treatment and	Removal			Sussex	
	170		\$4,000,000	Filtration	Improvement Project	350	DE0000557	Shores	39
				Bring Lester Wells					
				online and upgrad	Lester Farms and				
	160		\$2,970,000	Hyetts	Hyetts	7035	DE00A0349	Artesian	40
					Conditions				
	150		\$2,100,000	Water Mains	Assessment	40000	DE0000630	Newark	41
				New Security	WT Security			Angola	
	130		\$50,000	Measures	Improvements	159	DE0000999	Crest2	42
			\$152,386,952	TOTALS					

	Water System/	DIVICID II	Population		D 1 (D 1)		DAC? - A, E, W, Total	Anticipated Subsidy
Rank	Borrower	PWSID#	Served	5	Project Description	Amount	U Points	Amount
				Porter Filter Plant PFAs Removal-				
12	Wilmington	DE0000663	107976		Construct GAC vessels	\$4,787,405	E, W 450	\$4,787,405
12	, minington	BECCCOCC	10/5/0	SWFWTP PFAs	Construct Gric vessels	ψ1,707,103	2, 11	ψ 1,7 07,103
				Treatment - \$4.4M				
18	Newark	DE0000630	40000	EC	PFA WTP Upgrades	\$1,591,169	380	\$1,591,169
					TOTALS	\$6,378,574		\$6,378,574
		Lead Service	e Line Ren	lacement Capitaliz	ation Grant Projects			
			1	The second second	Carey, Walnut and			
		DE0000629	3200		Mill Street Main			
		DE0000029	3200		Replacement and LSL			
6	Milton			LSL replacement	replacement	\$1,330,000	620	\$0
					Service line			
					improvements and			
_	****	D	105056	T OT D	LSL removal \$22.5M	<b>*** *</b> ** <b>*</b> **	- W (00	<b>***</b>
6	Wilmington	DE0000663	107976	LSL Removal	LSLR	\$22,500,000	E, W 620	\$12,875,792
9	Frederica	DE0000507	970	Jackson St. Service Connections	LSL replacement	Ø512 000	A * 520	Ø512 000
9	Frederica	DE0000587	870	Connections	LSL regulatory	\$512,000	<b>A*</b> 530	\$512,000
11	Dover	DE0000571	38000	LSL inventory	requirements	\$60,000	E, 480	\$60,000
11	Bover	DE0000371	30000	Waterline and	1 of (7?) Phases to	\$00,000	L, 400	\$00,000
	Rehoboth			Service Line	replace water and			
14	Beach	DE0000723	1400	Replacements Phase I	service lines	\$2,527,000	410	\$0
				•	Mapping and	, ,, ,,,,,,,		
16	Lewes BPW	DE0000602	3000	LSL inventory	Replacement Planning	\$263,000	400	\$0
					LSL inventory and			
21	Dover	DE0000571	38000	Brandywine Court	replacement	\$115,000	E, 360	\$115,000
27	Frederica	DE0000587	870	LSL inventory	LSL inventory	\$102,000	<b>A*</b> 310	\$102,000
•	NCH 1	DE0000622	7500	TOL:	Inventory and	0000 500	200	
28	Millsboro	DE0000622	7500	LSL inventory	Mapping (1964 pipes)	\$233,500	300	012 ((4 502
					TOTALS	\$27,642,500		\$13,664,792
			State 1	Bond Bill Fund Pro	jects			
					Consolidation to			
	Countryside			Upgrades and	Artesian - See Adam			
1	Hamlet MHP	DE0000817	66	Interconnect	Gould emails	\$745,470	800	\$745,470

Rank	Water System/ Borrower	PWSID#	Population Served	Project Name	Project Description	Amount	DAC? - A, E, W, To U Po	~
				Water System	New distribution, fire			
	C. 1711			•	hydrants, water meters			
2	Stage Village MHP	DE0000569	93	Consolidation with Delmar	and connections to  Delmar	\$687,800	U 73	\$687,800
	Bethany	DE0000369	93	Demiai	Installation of PFAs	\$007,000	0 73	\$087,800
39	Crest MHP	DE0000628	115	PFAs Treatment	resin	\$300,500	17	9300,500
					TOTALS	\$1,733,770		\$1,733,770
DWSRF Supplemental FFY22 Capitalization Grant Projects								
					System Upgrades, add			
	Willow Tree			MHP Water System	storage Kitts			
3	MHP	DE0000134	141	Upgrades	Hummock Road	\$1,700,000	U 68	\$1,700,000
	N. G. 1	D. T. C. C. C. A.		TT 1 T	Water Main	04 400 000		44 400 000
4	New Castle	DE0000634	5364	Hewlett-Janvier	Replacement	\$1,490,000	W 67	\$1,490,000
				Raw Water	From Brandywine			
_	33711	DE0000663	107076	Transmission	Creek to either Porter	<b>#10.000.000</b>	E W 50	Φ5.626.000
7	Wilmington	DE0000663	107976	Improvements	or Hoopes	\$10,000,000	E, W 58	\$5,626,080
0	I DDW	DE0000602	2000	0 0	Consolidation Capes	#220 COO	5.0	0.00
8	Lewes BPW	DE0000602	3000	Capes Cove	Cove MHP	\$320,600	56	* * * * * * * * * * * * * * * * * * * *
11	New Castle	DE0000634	5364		Water Main Extension	\$1,743,000	W 48	\$0
		D-00000	• • • • • • • • • • • • • • • • • • • •	Brandywine Springs				-
19	Artesian	DE0000552	209706	Manor	Water Main Renewal	\$1,035,000	37	* * *
19	Artesian	DE00A0323	13511	Knox Street	Water Main Renewal	\$250,000	37	
27	Artesian	DE00A0323	13511	Route 113	Water Main Renewal	\$900,000	31	
					TOTALS	\$17,438,600		\$8,816,080

Grand Totals \$211,822,477

			Anticipated	
	Actual Project	State Match for	federal Award	
	Requests	Projects	for Projects	
LSLR	\$27,642,500		\$27,887,331	LSLR Related
EC	\$6,378,574		\$6,378,574	EC Related
Supplemental	\$17,438,600	\$1,799,200	\$15,949,301	[17,748,501]
Base	\$6,242,081	\$1,401,600	\$5,008,134	[6,409,734] Plus Corpus

	Disadvantaged Community Identifie			
A= Affordability, pending final financial reviews				
E= EPA EjScreen				
W= White House C	Climate and Economic Screening Tool			

		Anticipated
Additional		Award Ad
Subsidy Name	Total	Sub
LSLR DAC	\$13,664,792	13,664,792
EC	\$6,378,574	6,378,574
Supplemental		
DAC	\$8,816,080	8,816,080
		840,960-
Base DAC	\$2,406,000	2,452,800
Base		
Congressional	\$981,120	981,120

# Appendix D 2022 DWSRF PPL Ranking Criteria Approval



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

# 1650 Arch Street Philadelphia, Pennsylvania 19103-2029

March 22, 2022

Ms. Sandi Spiegel
Public Health Treatment Program Administrator
Drinking Water State Revolving Fund
Division of Public Health
Delaware Department of Health and Social Services
417 Federal Street, Office 207
Dover, DE 19901

Dear Ms. Spiegel:

We reviewed the revised Drinking Water State Revolving Fund (DWSRF) Project Priority List (PPL) Ranking Criteria submitted on March 3, 2022. The PPL Ranking Criteria establishes the criteria to be used for ranking projects eligible for financing with the DWSRF. We hereby approve the revision to the Delaware DWSRF PPL Ranking Criteria, as submitted.

This most recent revision to the Department of Health and Social Service's (DHSS) DWSRF PPL Ranking Criteria includes the following changes:

- 1. Under Affordability, changed "Disadvantaged Community" to "Underserved Community."
- 2. Adjusted System Information to add more population ranges and additional points to systems that serve less than 500 people. Added points to the Type "Community."
- 3. Added additional points to the Storage "chronic" and "acute" criteria.
- 4. Under Treatment, added points for "Installing a Backwash Recovery System."
- 5. Under Distribution, added points for "Lead Component Service Line Replacement."
- 6. Under Source, added points for "Source Water Protection/Well Field Development."
- 7. Under Sustainability, added points if the project has a "joint Clean Water State Revolving Fund (CWSRF) project occur simultaneously."
- 8. Merged/created three categories from the Sustainability section to create a Plans section. The criteria are Consumer Confidence Report, Cross Connection Control Plans, and Cyber Security/Vulnerability Assessment and Plans.

If you or your staff has any questions, please contact Paul Sobchenko EPA's DE DWSRF Project Officer at (215) 814-2055 or me at (215) 814-2094.

Sincerely,

Jeffrey Boylan, Chief Infrastructure and Assistance Section Water Division

# Appendix E 2022 DWSRF Set-Aside Work Plans



Delaware Health and Social Services Set-Aside Work Plan October 1, 2022 - September 30, 2023 2022 Federal Allocation

As part of the Drinking Water State Revolving Fund (DWSRF) capitalization grant application, DHSS is required to submit a Set-Aside Work Plan, herein.

DHSS will report progress on the deliverables shown in the following Set-Aside Work Plan outputs and outcomes as required by EPA and listed below. Each Set-Aside deliverable is assigned a specific unique identifier corresponding to the approved work plan to be used in semi-annual reports, which will include the following:

- Achievements of the outputs and outcomes established in the Intended Use Plan (IUP) and Work Plan
- Reason for any delays if established outputs and outcomes are not met
- Pertinent information on public health or environmental results achieved

Set-Aside reports are due to EPA Region III on May 15, 2023 and November 15, 2023. The report formats have been developed by DHSS and accepted by EPA Region III.

Please refer to the budget details for Set-Aside activities per line item.

Set-Aside Work Plan 2022 Federal Allocation DHSS DE Division of Public Health

2%
Technic

Technical Assistance \$137,332

Work years to implement activities: 1 year (October 1, 2022 - September 30, 2023)

# **Delaware Rural Water Association (DRWA) and Delaware Technical Community College (DTCC)**

Relationship to On-Going Program

DRWA and the Environmental Training Center at DTCC remain the sole providers of on-site technical assistance and operator education respectively.

# Progress Made To-Date

DRWA has provided technical assistance since 1999, helping small systems comply with Safe Drinking Water Act (SDWA) Regulations.

DTCC has provided operator education since 1999, helping water operators maintain licensure and compliance with SDWA Regulations.

#### **DRWA**

Future Plans

DRWA shall provide onsite technical assistance to municipal and community water systems in Delaware. In addition to the work described below, DRWA will work with the Office of Drinking Water (ODW), the Office of Engineering (OE), and the Drinking Water State Revolving Fund (DWSRF) to identify systems in need of technical assistance, including Cross Connection Control planning.

# Objectives and Outputs

- Delaware Rural Water Association (DRWA) will provide 80 onsite technical assistance site visits to small Community Water Systems (CWS) and municipal water systems. Onsite visits can include technical, financial, and managerial capacity assistance along with promotion of the DWSRF Program and one-on-one application/process help. Activities may include community association meetings, water infrastructure meetings, workforce development training also EPA Region III activities and workshops and acting as a liaison between interested parties and stakeholders. Coordinate with ODW, OE, and DWSRF to identify systems in need of priority technical assistance such as community, non-transient non-community (NTNC), transient, and/or seasonal systems in need of assistance due to non-compliance or potential non-compliance
- Provide assistance to systems required to perform Public Notice, critical Sanitary Survey violations, systems with contamination exceedances, and Emergency Response Planning
- Provide assistance and training for contamination prevention, compliance education, water operator training, and preventive maintenance planning

- Provide assistance to a minimum of ten (10) Community State Revolving Fund compliant systems in addressing potential contamination prevention from back-siphonage, backflows, cross-connections, and the need to prevent contamination of Delaware's drinking water systems.
- Provide on-site assistance with the system water operators in providing the necessary technical information and guidance templates on how to establish and implement a workable cross-connection control plan management program.
- Provide assistance, alongside Hydro Corp., to 5 community water systems in performing Cross Connection Control plan implementation. DRWA and Hydro Corporation will also conduct 4 Cross-Connection Control Planning Management virtual workshops for municipal operations specialists and municipal members. Deploy, upon request, the mobile on-site training unit to demonstrate specific compliance needs to SRF systems and other stakeholder/interested parties

#### Outcomes and Benefits

- 80 municipal and small water systems will receive technical, financial, and managerial assistance
- Systems in danger of being non-compliant or are in non-compliance will receive priority technical assistance
- Non-compliant water systems will receive training and tools to help return to compliance
- Systems will receive contamination and/or preventive maintenance education and training
- Ten community water systems will receive Cross Connection Control Planning training and assistance
- Facilities will have instruction on the essential elements that make up an effective ongoing Cross Connection Control Program
- DWSRF borrowers or applicants will be provided with system-specific training

#### **Evaluation**

DRWA will meet with DWSRF Program representative(s) quarterly to review deliverable accomplishments. Successes and barriers will be evaluated, and adjustments will be made accordingly. The DWSRF will provide the EPA with Set-Aside reports for the periods of October 1, 2022 – March 31, 2023, and April 1, 2023 - September 30, 2023.

# **DTCC**

#### Future Plans

DTCC will provide training for new and licensed water operators, develop, and improve training programs, recruit new students to enter the Drinking Water Training program, and assist in job placement for new operators.

*Objectives and Outputs 2023-11, 2023-12, and 2023-13 semesters)* 

- Certify and provide continuing education for approximately 115 Operators-In-Training and licensed water operators of small public water supply systems (non-private)
- Provide tuition assistance for Base Level Water Operators Course to approximately 26 new operators

- Provide approximately 75 total training events during the fall, spring, and summer semesters that have been approved for water operators.
- Provide Base Level Water Operators with a basic math course if the student is in need
- Market the program to Delaware water operators annually and assist in placing new water operators in jobs for the Delaware Drinking Water Industry.
- Provide tuition assistance to fifteen (15) water operators seeking endorsements who operate small public (non-profit) water systems and six (6) limited water operators of small public water systems (non-profit)

# Outcomes and Benefits

- 115 water operators will enhance their technical skills with continued education and certification
- 26 new water operators will be able to enroll in the Base Level Water Operator's Course
- Base Level Water Operators will gain knowledge in basic math skills
- Delaware's drinking water industry will have new recruits
- Successful administrative support and oversight of technical training programs will continue

#### **Evaluation**

DTCC will meet with DWSRF Program representative(s) quarterly to review deliverable accomplishments. Successes and barriers will be evaluated, and adjustments will be made accordingly. The DWSRF will provide the EPA with Set-Aside reports for the periods of October 1, 2022 – March 31, 2023, and April 1, 2023 - September 30, 2023.

4%

#### **DWSRF** Administration

\$ 263,247

Please refer to the Intended Use Plan for 4% activities.

10%

# **State Program Management**

\$662,925

Work years to implement activities: 1 year (October 1, 2022 - September 30, 2023)

# **Operator Certification**

Costs of maintaining the Operator Certification program are minimal. Office of Drinking Water (ODW) coordinates with DTCC to provide provisions and proctoring for Drinking Water Operator Examinations.

#### Relationship to On-Going Program

The Operator Certification program ensures that operators of Delaware's public water systems are properly trained and therefore able to operate their water systems in compliance with the SDWA.

#### Progress Made To-Date

Currently there are approximately 443 active licensed water operators and 147 Approved Sampler/Tester-only individuals.

#### Future Plans

DHSS will continue to administer the Operator Certification program in coordination with the Advisory Council for Certification of Public Water Systems Operators and ODW.

#### *Objectives and Outputs*

- Monitor, track, and report water operator licensures to EPA
- Communicate with operators in providing assistance, training opportunities, industry and regulatory updates, and other information pertinent to drinking water
- Provide regulatory-related trainings to water operators by ODW staff
- Provide administrative review and processing of water operator licenses renewals
- Provide support and proctoring assistance to DTCC for Drinking Water Operator examinations
- Assist licensed water operators in obtaining the proper endorsements for the water systems they operate
- Maintain licensed water operator data in a database
- Plan and prepare for updating aging database

# Outcomes and Benefits

- Regulatory oversight of all water operator licensure via ODW staff
- Vast majority of Delaware public water systems requiring a licensed water operator will be in compliance with the requirements, currently at a rate of 99%
- Information about important drinking water topics reaches a large segment of the drinking water professional community
- The number of water operator examinations and passing rates will be monitored for use in decision-making regarding examination quality and effectiveness
- Licensure renewal and associated continuing education compliance is tracked and maintained administratively via a database Increased training opportunities for Delaware licensed water operators.

#### **Evaluation**

ODW will meet with DWSRF Program representative(s) quarterly to review deliverable accomplishments. Successes and barriers will be evaluated, and adjustments will be made accordingly. The DWSRF will provide the EPA with Set-Aside reports for the periods of October 1, 2022 – March 31, 2023, and April 1, 2023 - September 30, 2023.

# **Public Water Supply Supervision**

# Relationship to On-Going Program

The set-aside funds are used to supplement the Public Water Supply Supervision (PWSS) program in carrying out activities including staff training, enforcement of SDWA regulations, data management, laboratory certification, and compliance assistance.

#### Progress Made To-Date

The PWSS program has helped Delaware's public water systems maintain compliance with SDWA regulations and health-based standards, resulting in 98% compliance.

#### Future Plans

The PWSS Program will work with applicable stakeholders on the upgrade from the Safe Drinking Water Information System (SDWIS)/State 3.3 to SDWIS/State 3.4. PWSS will also plan and develop for electronic submittals of drinking water sample results analyzed by private Delaware-certified drinking water laboratories.

#### *Objectives and Outputs*

- Monitor, track, and report compliance for approximately 470 Public Water Systems
- Upgrade from SDWIS/State 3.3 to SDWIS/State 3.4
- Develop a plan for private drinking water labs allowing them to submit their drinking water sample results electronically
- Ensure public water systems that are required to have a licensed water operator do so, either by directly employing an operator or by contracting with an operator
- Continue to utilize EPA reporting under the Enforcement Response Policy and Enforcement Tracking Tool (ETT)
- Facilitate posting of all relevant public water systems information and sample results to Delaware's Drinking Water Watch public-facing webpage
- Determine progress with cross-connection control plan development necessary to ensure compliance at or prior to the compliance deadline, development of asset management plans, lead service line inventories, and awareness of PFAS Drinking Water MCL development.

# Outcomes and Benefits

- Approximately 95% of Delaware's population served by public water systems will receive water that meets all health-based standards
- SDWIS/State 3.4 will allow for improved functionality of the drinking water database
- Electronic submittals for private laboratory sample results will allow for improved efficiency in storing and reporting drinking water sample data
- Public water systems with an ETT score of 11 or greater will be monitored quarterly and offered technical assistance and/or increased enforcement
- Public water systems and the general public will have access to all sample results for all public water systems
- Lead service line (LSL) inventories will assist with the removal of all LSLs in Delaware to assure lead-free drinking water.
- Cross-connection control plans will reduce/prevent the unnecessary contamination of public drinking water systems.
- Awareness of PFAS in drinking water and the environment will promote discussion regarding monitoring, control technologies, and outreach for public water systems and the public.

#### **Evaluation**

PWSS will meet with DWSRF Program representative(s) quarterly to review deliverable accomplishments. Successes and barriers will be evaluated, and adjustments will be made accordingly. The DWSRF will provide the EPA with Set-Aside reports for the periods of October 1, 2022 – March 31, 2023, and April 1, 2023 - September 30, 2023.

# **Delaware Public Health Laboratory**

Relationship to On-Going Program

The Delaware Public Health Laboratory (DPHL) is within the Department of Health and Social Services, Division of Public Health. The primary responsibilities of the Laboratory, regarding the Safe Drinking Water Act, is to ensure the safety of drinking water sources in order to protect public health through the prevention of water borne diseases and contaminants.

#### Progress Made To-Date

The Delaware Public Health Laboratory continues to ensure consistency, reliability and quality of all analytical work involving drinking water samples obtained from public and private sources. Beyond the routine work the laboratory has made significant strides in expanding its testing capacity by embarking on advanced methodology's such as EPA method 525.2 for pesticides.

• Two staff members visited the Maryland State Laboratory to shadow a chemist preforming EPA method 525.2; they brought back valuable information to help bring the method up in our laboratory

#### Future Plans

- Implement and validate updated EPA approved methodologies per the Safe Drinking Water Act
- Implement EPA method 525.2 for pesticides, this will include the purchase of reagents required for analysis
- Achieve certification for EPA method 525.2
- Pursue grant funds to maintain updated technologies including equipment and supplies as required by the US EPA program.
- Maintain compliance with EPA, state standards, and regulations
- Continue to perform the responsibilities of the certification officer program for the state of Delaware. This includes sending another staff member to Certification Officer training in Organics
- Ensure that the DPHL meets all certification testing standards defined by the EPA
- Ensure that the laboratory is cooperating and integrating with associated programs to ensure best use of funding, personnel, and equipment

## Objectives and Outputs

- Pursue the purchase of a GC/MS to analyze drinking water samples for the presence of pesticides.
- Pursue the purchase of benches on wheels; this will help in moving instruments in case of emergency.
- Continue analyzing samples for the presence of *Legionella* utilizing molecular methods.
- Continue to purchase of supplies and reagents to maintain higher levels of operational efficiencies and cost effectiveness. (Approximate cost for supplies and reagents is \$260,000 annually including instrument gases and instrument maintenance contracts)
- Continue to cross train for continuity of operations in the event of emergency situations including flooding and other weather-related events.

- Estimated amount of laboratory tests that will be performed from October 2022 to September 2023:
  - Samples for chemical analysis 5990
  - Samples for bacteriological 7569
  - Tests reported 98,729
- The Delaware Public Health Laboratory will continue to perform audits for the certification of drinking water testing laboratories within Delaware.
- Reduce manual entry of sample results use funds for LIMS (Labware) to create automated upload from instrument to LIMS.

#### Outcomes and Benefits

- The Delaware Public Health Laboratory continues to provide reliable and consistent monitoring for the drinking water program in Delaware. To ensure the health and safety of the citizens and visitors of Delaware.
- The Laboratory continues to maintain preparedness for emergency response and disaster in cooperation with other emergency responders including the 31<sup>st</sup> Civil Support Team (US National Guard) in Delaware.
- Among programs the Delaware Public Health Laboratory is ensuring that our role meets
  all the needs and requirements for the successful implementation of other components that
  influence and affect drinking water covered by the Delaware Department of Health and
  Social Services.

#### **Evaluation**

The Public Health Laboratory will meet with DWSRF Program representative(s) quarterly to review deliverable accomplishments. Successes and barriers will be evaluated, and adjustments will be made accordingly. The DWSRF will provide the EPA with Set-Aside reports for the periods of October 1, 2022 – March 31, 2023, and April 1, 2023 - September 30, 2023.

#### **Underground Injection Control Program**

Relationship to On-Going Program

The Underground Injection Control (UIC) program continues to be administered by DNREC's Division of Water. This regulatory program controls real and potential sources of groundwater contamination.

# Progress Made To-Date

Delaware's Underground Injection Control program has efficiently monitored on-site wastewater treatment and disposal systems (OWTDS's), Class V injection wells, groundwater remediation projects, large OWTDS's, Aquifer Storage, and Recovery (ASR) wells.

#### Future Plans

- Continue to work with Division of Public Health and provide technical support as needed on identifying and managing potential impacts to groundwater from operations of major wastewater treatment and disposal facilities
- Develop and implement EQuIS data management so facilities can submit data electronically and continuous monitoring data can be collected and reported in real-time

- Develop real-time/contemporary web-based groundwater monitoring and UIC program management tools using MS Power BI
- Continue to perform inspections of Class V wells in Delaware

#### *Objectives and Outputs*

- Review 20 Large OWTDS's permit applications
- Inspect 250 OWTDS's, and other UIC facilities
- Preform 10 recon inspections to identify and close (if found) automotive floor drains, large capacity cesspools, and industrial discharges with direct discharges to ground water (if existing)
- Migrate operation and monitoring databases of current active wastewater treatment and disposal facilities into EQuIS
- Develop Power BI permitting and monitoring applications for best management practices
- Participate in Public outreach and educational events
- Participate in the development of a pollution control strategy for the Chesapeake Basin Watershed

# Outcomes and Benefits

- Potential groundwater impacts can be identified accurately in advance; and managed efficiently
- Groundwater contamination from underground injection facilities will decrease
- Public will gain knowledge of pollution prevention or pollution reduction opportunities
- Power BI and EQuIS applications will provide powerful tools to manage and visualize data ensuring a more data-driven integrated approach to decision-making and greater protection of groundwater resources

#### **Evaluation**

UIC will meet with DWSRF Program representative(s) quarterly to review deliverable accomplishments. Successes and barriers will be evaluated, and adjustments will be made accordingly. The DWSRF will provide the EPA with Set-Aside reports for the periods of October 1, 2022 – March 31, 2023, and April 1, 2023 - September 30, 2023.

#### 15%

**Local Assistance/Other Programs** 

\$936,362

Work years to implement activities: 1 year (October 1, 2022 - September 30, 2023)

# **Capacity Development Program NEW systems**

Relationship to On-Going Program

This portion of the Capacity Development program assists new drinking water system owner/operators and DWSRF applicants in building technical, managerial, and financial (TMF) capacity.

# Progress Made To-Date

All new and newly discovered public water systems (PWSs) that will be regulated by ODW have been given TMF assistance, thus ensuring, that the water system can open and/or maintain compliance with SDWA regulations. Since the initiation of the Capacity Development program, all DWSRF loan applicants have been assessed for TMF and offered assistance in areas identified.

#### Future Plans

- Track and identify trends in TMF capacity for all Delaware public water systems triennially
- Assist new community water systems (CWSs) and Non-transient non-community water systems (NTNCWSs) to prepare for Lead and Copper Rule (LCR) compliant sampling plans upon activation as a public water system
- Maintain increased educational efforts to prospective new systems so that initial operations are not impeded by non-compliance
- Assist new CWSs and NTNCWs to be compliant with the SDWA for their three-year term as a new PWS in Delaware
- Encourage and assist PWSs to develop and implement asset management plans that include best practices for asset management as required by America's Water Infrastructure Act (AWIA).

# Objectives and Outputs

- Provide assistance to all proposed public drinking water systems to ensure that the water system owner/operator has demonstrated adequate TMF capacity, and that the water meets all applicable SDWA requirements prior to operating
- Monitor and assist new public water systems in LCR/LCRR compliance
- Report the name of new and proposed PWSs for the Semi-Annual DWSRF Set-Aside reports
- Assist new CWSs and NTNCWs in their compliance with the requirement to operate under the supervision of a Delaware licensed water operator

#### **Outcomes** and **Benefits**

- 100% of new water systems will open and remain in compliance with the SDWA for their three-year term as a new PWS in Delaware
- 100% of new public water systems will be assisted with lead and copper rule compliance
- New public water systems identified in need of assistance shall be referred to DRWA

#### **Capacity Development Program EXISTING Systems**

Relationship to On-Going Program

This portion of Capacity Development assists existing water systems with maintaining technical, managerial, and financial capacity.

#### Progress Made To-Date

The Capacity Development Program has provided technical and managerial assistance to existing water systems to facilitate compliance with the Lead and Copper Monitoring Rule, the Consumer Confidence Rule, and other regulatory requirements under the SDWA. The number of existing systems out of compliance with the requirement to operate under the purview of a license water operator remains low.

#### Future Plans

- Improve compliance with the SDWA by facilitating a better understand of the regulations, including LCR revisions, CCR, and other state and federal regulation in development
- Encourage and assist PWSs to develop and implement asset management plans that include best practices for asset management as required by AWIA.
- Refer existing public water systems with a score of 11 or higher on the ETT list to external assistance providers

# Objectives and Outputs

- Provide in-depth training in CCR report creation to technical and managerial staff of CWSs in Delaware to increase compliance with the CCR
- Provide assistance to existing PWSs with an ETT score of 11 or higher or that are identified as being in need through routine regulatory activities conducted by ODW
- Evaluate and report the TMF capacities of at least one-third of Delaware's water systems
- Monitor, evaluate, train, and assist PWSs and operators in LCR compliance, schedules, and reporting
- Track and report existing PWSs appearing on the ETT report with scores of 5 and greater to technical assistance providers to facilitate achieving compliance.

# Outcomes and Benefits

- PWSs will be better equipped to create and distribute CCR reports per the requirements of the SDWA
- All existing public water systems with an ETT score of 11 or higher and those that are otherwise identified as being in need of assistance will be offered TMF assistance
- One-third of Delaware's PWSs will be assessed for TMF capacities
- Delaware's CWSs and NTNC water systems will be monitored, evaluated, and assisted in LCR sampling compliance, schedules, and reporting; training will be conducted for Delaware PWSs on LCR compliance and on LCRR compliance requirements
- Existing public water systems will be offered the opportunity to receive TMF capacity assistance to achieve compliance

#### Evaluation

Capacity Development will meet with DWSRF Program representative(s) quarterly to review deliverable accomplishments. Successes and barriers will be evaluated, and adjustments will be made accordingly. The DWSRF will provide the EPA with Set-Aside reports for the periods of October 1, 2022 – March 31, 2023, and April 1, 2023 - September 30, 2023.

## **DRWA**

#### Relationship to On-Going Program

DHSS will continue to contract with DRWA to provide Geographical Information Systems (GIS) Surveys for community water systems such as small municipal and non-municipal water systems. DRWA shall provide: Specialized Emergency training and assist four municipals to develop an emergency response plan.

#### Future Plans

Delaware Rural Water Association (DRWA) will provide on-site technical assistance in basic GIS distribution surveys for community water systems (small and medium municipals including Tidewater and Artesian operated systems). The Delaware Rural Water Association (DRWA) will provide multiple emergency response, confined space and safety hands-on workshops to SRF funded community and municipal employees

The Specialized Emergency Response training provides municipals employees instruction on how to respond and prepare for different types of natural or man-made disasters.

#### Objectives and Outputs

• Five (5) small community water systems (population under 1000), Five (5) municipal communities (population under 10,000) and a minimum of Five (5) seasonal water systems will be provided with GIS on-site technical assistance and system distribution maps Provide multiple emergency response, confined space, and safety hands-on workshops to SRF funded community and municipal employees. Workshops will consist of how to respond to different types of emergencies, how to establish a command post, staging areas, preparing for long-haul disasters, self-contained breathing apparatus usage, fittings and types, blood borne pathogens, controlled bleeding at the job site and working with ropes and rigging Operators will be shown how to manage and track supplies needed for short-and long-term outages and what types of specialized tools are required.

# Outcomes/Benefits

- Smaller systems will be able to map out locations of assets. The compilation of location data will provide the aforementioned water systems with first step of EPA's Core Asset Management criteria
- The Specialized Emergency Response training provides towns with a strategy in the event they have an emergency

#### Evaluation

DRWA will meet with DWSRF Program representative(s) quarterly to review deliverable accomplishments. Successes and barriers will be evaluated, and adjustments will be made accordingly. The DWSRF will provide the EPA with Set-Aside reports for the periods of October 1, 2022 – March 31, 2023, and April 1, 2023 - September 30, 2023.

#### **DTCC**

Relationship to on-going program

DHSS will continue to contract with DTCC to assist with continued education and certification of water operators.

#### Future Plans

DTCC will continue to offer online classes to water operators to allow flexibility for water operators seeking continuing education.

# Objectives and Outputs

- Develop one "Train the Trainer" course for the instructors to include updated teaching methods, utilization of hands-on equipment and implementation of new hands-on assessments. Up to eight (8) instructors will be paid to attend these two three (3) hour sessions.
- Develop one new in-person class: Class on PFAS contamination and treatment.
- Update and improve existing water courses to modern standards.
- Host one Emergency Response workshop to address both climate and health emergencies. One additional workshop addressing one of the following issues: Emerging Technology, Aging Workforce, PFAS, New Lead and Copper Regulations. Workshop Topics will be approved by DHSS personnel.

# Outcomes and Benefits

- Delaware water operators will receive training to ensure system operators are well trained to maintain their systems in compliance
- Online training will be updated with the most current methods
- Webinar will allow managers to be aware of changes in the water system industry
- Water operator skills will be enhanced by the instruction on water quality process control equipment and/or software technology

#### **Evaluation**

DTCC will meet with DWSRF Program representative(s) quarterly to review deliverable accomplishments. Successes and barriers will be evaluated, and adjustments will be made accordingly. The DWSRF will provide the EPA with Set-Aside reports for the periods of October 1, 2022 – March 31, 2023, and April 1, 2023 - September 30, 2023.

#### **Sustainability 1:1 Assistance**

The DWSRF Program will continue to work with Kash Srinivasan Group, LLC to provide 1:1 assistance to small and medium municipal public water systems to engage in long range planning activities for their utilities. At least five municipalities will develop custom implementation of Financial Analysis tools developed by the University of North Carolina.

#### **Source Water Protection**

# Relationship to On-Going Program

The Source Water Protection (SWP) program continues to be administered by Department of Natural Resources and Environmental Control (DNREC)'s Division of Water. This regulatory program controls wellhead and source-water protection activities.

#### Future Plans

The Delaware Source Water Assessment and Protection Program (SWAPP) will help public water systems receive assistance from the DWSRF by the following activities: Source Water Assessment, Characterization, and Monitoring; Prioritization of State SWP activities; Integration of SWAPP with other state, federal, and local programs; Motivating Local SWP activities; and Managing Information.

# Objectives and Outputs

- Source Water Assessment, Characterization and Monitoring This includes providing assessments for any new system, revising and updating existing source water assessments (e.g. delineation, contaminant sources, susceptibility assessment), providing technical assistance to solve source water problems including recommendations for potential DWSRF funded monitoring network/systems development, and resource characterization activities. The SWAP will continue the development of an ambient groundwater monitoring program, including the deployment of long-term monitoring equipment with real time data telemetry capabilities, while utilizing existing Delaware Geological Survey (DGS) and DNREC Water Supply Section monitoring well infrastructure, and the Water Allocation Branch permitting process
- Prioritization of State SWP activities This includes support of local efforts to develop SWP ordinances and comprehensive plans or other local approaches, support to SWPrelated UIC activities, and related needs
- Integration of SWAPP with other state, federal, and local programs This includes work with the federal, state agencies, private organizations, and local governments with regards to source identification, characterization, and prevention
- Motivating Local SWP activities This includes technical assistance, committee representation, information dissemination; review of local development plans and comprehensive land use plans as part of the Preliminary Land Use Service (PLUS) process and participation on the New Castle County Resource Protection Area Technical Advisory Committee (RPATAC)
- Managing Information This includes data collection, data storage, and recovery, GIS development, web availability, state, and federal data reporting capacity. Additionally, the SWAPP will work with systems to evaluate their needs for data management and operational enhancements (e.g., SCADA) that could benefit from potential DWSRF funding. For this grant cycle, contractual funding will be utilized to support the EOUIS Enterprise migration project which will be used by the Division of Water to store, share, and review analytical/permit data throughout the State including the Ambient Groundwater Monitoring project. In addition, the SWAPP will commence discovery and needs assessment, in collaboration with the Office of Drinking Water, Delaware Geological Survey, and DNREC Division of Water to determine the feasibility of creating an interagency data repository to using WaterSTAR, formally RBDMS Environmental, as a set of tools for managing laboratory analytical and field data. For this grant cycle the SWAPP working closely with the Well Permitting Branch will pilot a "Public Well Missing" Records Reconnaissance Project" in which the SWAPP will work with the Office of Drinking Water and licensed water well contractors to investigate, locate, survey, and inspect public wells with incomplete or missing records in order to build a more complete database record for both DNREC and DHSS

# Outcomes/Benefits

- Provide assessments for any new system, revising and updating existing source water assessments (e.g., delineation, contaminant sources, susceptibility assessment), providing technical assistance to solve source water problems including recommendations for potential DWSRF funded monitoring network/systems development, and resource characterization activities. The SWAP will continue the development of a statewide ambient groundwater monitoring program, including the deployment of long-term monitoring equipment with real time data telemetry capabilities, while utilizing existing Delaware Geological Survey (DGS) and DNREC Water Supply Section monitoring well infrastructure, and the Water Allocation Branch permitting process. For this grant cycle, contractual support will be utilized for miscellaneous groundwater sampling including raw water sampling of public water systems, as well as PFAS related sampling in collaboration and with guidance from the PFAS Steering Committee. Water quality data results collected as part of the ambient groundwater monitoring program or traditional groundwater sampling efforts will be shared with the Office of Drinking Water and other appropriate partners to inform and facilitate future regulatory decisions.
- Support local efforts to develop SWP ordinances and comprehensive plans or other local approaches, support to SWP-related UIC activities, and related needs
- Work with the federal, state agencies, private organizations, and local governments with regards to source identification, characterization, and prevention.
- Provide technical assistance, committee representation, information dissemination; review of local development plans and comprehensive land use plans as part of the Preliminary Land Use Service (PLUS) process and participation on the New Castle County Resource Protection Area Technical Advisory Committee (RPATAC)
- Manage data, including develop GIS, web availability, state, and federal data reporting capacity. Additionally, the SWAPP will work with systems to evaluate their needs for data management and operational enhancements (e.g. SCADA) that could benefit from potential DWSRF funding. For this grant cycle, contractual funding will be utilized to support the EQUIS Enterprise migration project which will be used by the Division of Water to store, share, and review analytical and permit data throughout the State including the Ambient Groundwater Monitoring project. The data stored in EQUIS will be used to inform future Division of Water permitting decisions while data stored in the WaterSTAR system will be used to increase data sharing and data access between interagency partners. Additionally, records collected as part of the "Public Well Missing Records Reconnaissance Project" will be shared between DNREC and DHSS in order to build a more complete database record for both DNREC and DHSS
- Cover Crop Program—Ag Strategy
- DWSRF proposes, to meet EPA's recommended Ag Strategy, to continue to fund the Cover Crop Program this grant cycle

#### **Evaluation**

SWP will meet with DWSRF Program representative(s) quarterly to review deliverable accomplishments. Successes and barriers will be evaluated, and adjustments will be made accordingly. The DWSRF will provide the EPA with Set-Aside reports for the periods of October 1, 2022 – March 31, 2023, and April 1, 2023 - September 30, 2023.

# Ag Strategy Program—Year Four (See 2018 IUP and Work plan for Year One details)

Year Four of the Ag Strategy Program expands on Year One work, including outreach to farmers who may not be in the Cover Crop program, exploration of expanded eligibilities, i.e.: buffer zones, and pollinator plots. The program may also explore further incentives for farms that are close to municipal source water protection areas.

Upon completion of the project, the District provides a report to the Department as to how much cover crop was planted and feasibly of aforementioned program expansions.

# **Supplemental BIL Capitalization Grant**

2%

Technical Assistance \$79.195

Work years to implement activities: 1 year (October 1, 2022 - September 30, 2023)

# **Delaware Rural Water Association (DRWA)**

Relationship to On-Going Program

DRWA remains one of two of the sole providers of on-site technical assistance and operator education respectively.

#### Progress Made To-Date

DRWA has provided technical assistance since 1999, helping small systems comply with Safe Drinking Water Act (SDWA) Regulations.

#### **DRWA**

- Delaware Rural Water Association (DRWA) will assist a minimum of ten (10) Community State Revolving Fund compliant systems in addressing potential contamination prevention from back-siphonage, backflows, cross-connections, and the need to prevent contamination of Delaware's drinking water systems.
- DRWA will provide technical assistance visits to 10 community and or municipalities on understanding the Cross Connection Control Plan Regulation, highlighting on the methods of Program Administration, surveying, and testing procedures.
- On-site assistance shall provide facilities with instructions on the essential elements that
  make up the effective on-going Cross Connection Control Program. Community water
  systems found having a potential health hazard from a cross connection shall be referred
  to the DWSRF Program for directions on how to apply for a loan so the system can make
  compliance corrections within the treatment or distribution system

- Delaware Rural Water Association (DRWA) will provide 80 onsite technical assistance site visits to small Community Water Systems (CWS) and municipal water systems. Onsite visits can include technical, financial, and managerial capacity assistance along with promotion of the DWSRF Program and one-on-one application/process help.
- DRWA will work with the DWSRF manager, Office of Drinking Water Capacity Development Office, and Office of Engineering in identifying systems in need of priority technical assistance under the Enforcement Targeting Tool (ETT) System. Systems may be defined as community, non-transient non-community, transient and/or seasonal.
- Any system found in need of infrastructure improvements shall be referred to the DWSRF program for future assistance. Assistance may include contamination prevention, rule education, water specialist operator training and/or preventive maintenance assistance planning. Priority systems can be classified as those that are either already out of compliance or reaching non-compliance.
- DRWA will deploy upon request the mobile on-site training unit to demonstrate system specific needs to SRF systems so that they understand either operational or testing methods to meet the Safe Drinking Water Act (SDWA) compliance and public health benefits. Such assistance could include, but not be limited to, SRF funding opportunities, public awareness of Drinking Water Standards, contamination prevention, lead service line identification assistance, water treatment process and dealing with unregulated contaminates.

4% DWSRF Administration \$416,849

Please refer to the Intended Use Plan for 4% activities.

10% State Program Management \$363,202

Please refer to the Intended Use Plan for 10% activities.

15% Local Assistance/Other Programs \$1,183,453

Work years to implement activities: 1 year (October 1, 2022 - September 30, 2023)

DHSS in collaboration with Delaware Rural Water Association, DNREC, Sussex County, and the Delaware Department of Transportation will work to provide local assistance to residents of the state of Delaware in the form of workforce development, source water protection best management practices and source water protection signage initiatives

#### **DRWA** contract:

- The Career Training for High School Students Pre-Apprenticeship Program will be open to any student that is interested in venturing into a career related to Water Treatment and Water Operations & Maintenance within a community water system.
- DRWA proposes to provide, to a minimum of five (5) Delaware high schools representing each county, a program to demonstrate the need for young adults to enter the field of drinking water distribution, operations, and water treatment.
- DRWA shall also be seeking the interest of partnering with water utilities that are willing to allow participating students to be able to work and gain field knowledge on the job where they may earn while they learn.
- Students who seek to advance their knowledge will be eligible to enroll in DRWA's two (2) year Water Systems Operation Specialist Apprenticeship Program which will offer more in-depth training such as chemistry, filtration and math equations and chemical additions.

#### **Sussex Conservation District**

Sussex County Source Water Protection Agricultural Best Management Practices

- This project will focus primarily on the runoff and leaching from agriculture, which is considered a nonpoint source of pollution. The Chesapeake Bay Program defines a nonpoint source of pollution as a diffuse source of pollution that cannot be attributed to a clearly identifiable, specific physical location or a defined discharge channel. This includes the nutrients that runoff the ground from any land use croplands, feedlots, lawns, parking lots, streets, forests, etc. and enter waterways. It also includes nutrients that enter through air pollution, through the groundwater, or from septic systems.
- Protecting Delaware's drinking water through the implementation of water quality best management practices (BMP) is imperative for every Delaware citizen to have access to clean drinking water. The implementation of these BMPs is needed to meet the goals and objectives of the Chesapeake Bay Watershed Implementation Plan (WIP), Inland Bays Pollution Control Strategy, and Total Maximum Daily Loads in Sussex County, Delaware.
- The Sussex Conservation District (SCD) will increase implementation and track best management practices made by agricultural producers and landowners within established source water protection areas in Sussex County. An SCD agricultural conservation planner will work with these producers and landowners to educate them on the importance their property plays in protecting the State's drinking water resources and assist them in identifying opportunities for the implementation of various Source Water Protection Area (SWPA) practices established in the USDA-NRCS Environmental Quality Incentive Program (EQIP). The SCD planner will work with agricultural producers in Sussex County to address resource concerns in the SWPA areas, making recommendations on how to best address those concerns, and planning the priority practices. Planners will also assist the landowner through the NRCS EQIP financial assistance application process through to contract obligation and practice implementation. SCD will track and report these BMPs located in SWPA.

- Producers located in the established SWPA will be eligible for a 90% incentive rate on 32 eligible USDA-NRCS SWPA priority practices, leaving only 10% of the implementation cost to be covered by the landowner. It is hoped that SCD can partner with the Delaware Rural Water Association's Source Water Program and their relationships with local water utilities to help share the cost of the practices, leaving the landowner with no more than 5% of the cost.
- NRCS and the Sussex Conservation District will provide financial assistance towards the
  implementation of cover crops (partially funded by DWSRF) and other water quality BMPs
  to reduce runoff from agricultural fields and the uptake of excess nutrients, resulting in an
  improvement to drinking water sources and overall water quality. Data specifying detailed
  information about each BMP will be tracked and reported annually.
- Additionally, SCD will promote this partnership and activities through our outreach and education programs including print and news media, social media outlets, and one-on-one conversations with Sussex County landowners. SCD will also include this as part of its soil health outreach events including workshops and field days.

# Collaboration with Delaware Department of Transportation and DNREC

Statewide Source Water Protection Signage Initiative

• This project will combine efforts from DHSS, DelDot, and DNREC. DHSS will bring on a consultant for the creation and placement of watershed identification and spill mitigation information for new roadway signs in Delaware.

# **Emerging Contaminants BIL Capitalization Grant**

2%

**Technical Assistance** 

\$78,000

Work years to implement activities: 1 year (October 1, 2022 - September 30, 2023)

The Science, Technology, and Research Institute of Delaware (STRIDE) will provide PFAS Treatment Advice and Technical Support to Delaware Drinking Water Systems.

#### **STRIDE** contract will:

- Gather data: Collect price, performance, and availability data of all commercially available and developmental PFAS filter products and maintain a data base.
- Do batch adsorption tests: Compare PFAS removal efficiencies of at least six filter materials in source water from 5 Delaware drinking water systems (to be chosen by DHSS) and provide the data such that they can chose the best treatment system for contaminants in their water system.

- Do Rapid Small Column Tests (RSSCT) on water from two water systems (to be chosen by DHSS). RSSCT is a bench-scale testing procedure used to estimate the replacement frequency of an adsorbent at a full-scale treatment plant. This data will help water operators and their engineering contractors design the filter system for optimum capital and operating costs.
- Enable drinking water systems to find and install the optimum system and negotiate purchasing terms with vendors. This service will also help with supply chain issues, avoid dependence on single supply, and help the State/DHSS avoid future problems and reduce emergency use of State Revolving Funds

# 4% DWSRF Administration \$148,426

Please refer to the Intended Use Plan for 4% activities.

15%

**Local Assistance/Other Programs** \$950,000

Work years to implement activities: 1 year (October 1, 2022 - September 30, 2023)

DHSS will partner with Maryland Environmental Services, DNREC, and (vendor) to provide local assistance in the management, monitoring, and treatment of emerging contaminants.

# **Drinking Water Interconnection Study:**

- In connection with Maryland Environmental Service (MES)
- The idea of an interconnection study has been pondered for some time. Recent discussions centered on options to respond to the PFAS above Health Advisory Limit detections in the Town of Blades. Alternate sources of potable water were trucked in bottles and through water trailers as permanent treatment was designed and manufactured. The State of Delaware is conducting statewide sampling of PFAS in public water systems (PWS) and looked for options beyond point treatment to mitigate and respond to what started as a list of systems to sample that each alone could require treatment the way the Town of Blades did. The assessment of opportunities to connect existing regulated water systems to other existing regulated water systems could provide answers for a multitude of challenges involving quantity and quality of water resources. The effort would also be able to identify areas where no public water is currently available to residents and those residents are vulnerable to past, present, or future groundwater contamination. We will be clear that we are not promoting the expansion of utilities into these areas but the assessment of all else will bring these locations to light
- The product will need to answer these 4 questions:
  - Where is all the current infrastructure?
  - Where are the opportunities for connections?
  - How would the connection be achieved?
  - o How do we update, maintain, and use this dataset?

# **Mobile Emergency Response Filter**

• Vendor TBD. Requests for proposal closed in May 2022.

# **PFAS Sampling:**

Contract executed via Eurofins contract through DNREC.

# Lead Service Line Replacement Capitalization Grant

2%

**Technical Assistance** 

\$170,379

Work years to implement activities: 5 years (October 1, 2022 - September 30, 2027)

Provide assistance to small systems through contractor personnel. Funds provide technical assistance to public water systems serving less than 10,000 people. Contracts with DRWA and 120Water as well as collaboration with the Department of Education provide technical assistance and training.

#### **DRWA & 120Water contract:**

- LCR Technical Assistance and Training -- DRWA and 120Water are partnering to deliver market differentiated, high-impact and ongoing Technical Assistance to educate utility operators, superintendents, key personnel, and city managers about the complexities and nuances of Safe Drinking Water Regulatory Compliance.
- The partnership will conduct, at minimum, three instructor-led Technical Assistance Training Seminars throughout the calendar year with a focus on the Lead and Copper Rule (LCR) and the Lead and Copper Rule Improvements (LCRI). Given the evolving landscape of LCR(I), we are proposing a 5-year technical assistance program designed to give ongoing, world-class education to the utilities across the state of Delaware and Maryland.
- It is the goal of this partnership to ensure that the funding being made available to systems for LCR compliance will be used efficiently and effectively, resulting in better and more consistent outcomes for all stakeholders.

#### Sampling in Schools

• Lead sampling in schools (non-routine, not for compliance purposes, for LSL identification)

4%

**DWSRF** Administration

\$292,290

Please refer to the Intended Use Plan for 4% activities.

# **Set Asides in Reserve**

The SDWA allows states to use part of the Capitalization grant to support Set-Aside activities. Up to 31% of each Capitalization grant may be reserved for Set-Aside activities.

Delaware reserves its authority to apply remaining 2%, 4% and 10% set-asides from prior Base Grants to future capitalization grants. Delaware also reserves its authority to bank the 2%, 4% and 10% set-asides from future BIL - General Supplemental and LSL Replacement Grants. A summary of banked reserves is below:

Delaware	2022 Allotment	2022 Request	2022 Reserve Set-Asides	Total to date Reserve Set- Asides
DWSRF Base (Received 5/16/22)	\$7,008,000	\$7,008,000		
2%	\$140,160	\$137,332	\$2,828	\$2 <i>,</i> 828
4%	\$280,320	\$263,247	\$17,073	\$17,073
10%	\$700,800	\$662,925	\$37,875	\$37,875
15%	\$1,051,200	\$936,362		
DWSRF Supplemental	\$17,992,000	\$17,992,000		
2%	\$359,840	\$79,195	\$280,645	\$280,645
4%	\$719,680	\$416,849	\$302,831	\$302,831
10%	\$1,799,200	\$363,202	\$1,435,998	\$1,435,998
15%	\$2,698,800	\$1,183,453		
DWSRF Lead Service Lines	\$28,350,000	\$28,350,000		
2%	\$567,000	\$170,379	\$396,621	\$396,621
4%	\$1,134,000	\$292,290	\$841,710	\$841,710
10%	\$2,835,000	\$0	\$2,835,000	\$2,835,000
15%	\$4,252,500	\$0		
DWSRF Emerging Contaminants	\$7,555,000	\$7,555,000		
2%	\$151,100	\$78,000	\$73,100	\$73,100
4%	\$302,200	\$148,426	\$153,774	\$153,774
10%	\$755,500	\$0	\$755,500	\$755,500
15%	\$1,133,250	\$950,000		
Total	\$60,905,000		\$7,132,955	\$7,132,955