



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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FINAL 2022 INTENDED USE PLAN

For the

CLEAN WATER STATE REVOLVING

FUND

May 9, 2022



This information is available in alternate format. Contact Glynis Bugg at 617-348-4040.

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EXECUTIVE SUMMARY

The Massachusetts Department of Environmental Protection (MassDEP) is pleased to present the Final Calendar Year 2022 Intended Use Plan (IUP). The IUP details the projects, borrowers and amounts that are being offered financing through the Clean Water State Revolving Fund (CWSRF) loan program. The CWSRF is a joint federal-state financing program that provides subsidized loans to improve and protect water quality and public health in the Commonwealth.

Massachusetts is offering approximately \$963 million to finance clean water projects across the Commonwealth. As noted in Table 1, approximately \$898 million is recommended to finance 67 new construction projects, \$41 million towards financing 4 previously approved multi-year projects, and an additional \$15 million to finance 17 planning projects. A total of \$3 million has been allocated to the emergency set-aside account, and an additional \$5 million will be directed to the Community Septic Management Program to remediate failed septic systems in participating communities.

Twenty-seven proposals, totaling approximately \$4.8 million, as shown in Table 2, are recommended to receive financial assistance for their Asset Management Planning (AMP) projects. Communities will receive 60% of the project cost, up to \$150,000, as a grant from the Massachusetts Clean Water Trust (the Trust), totaling approximately \$2.9 million for the 2022 applicants. The balance of the cost may be funded by local contributions of cash and/or in-kind services. All or part of the local contribution may be borrowed from the Trust at the standard 2% interest rate for a term of up to five years.

2022 Highlights

- On November 15, 2021, President Biden signed into Law the Bipartisan Infrastructure Law (BIL) into law. The BIL provides two new federal grants through the Clean Water State Revolving Fund (CWSRF):
 1. Supplemental Clean Water State Revolving Fund Grant
 2. Emerging Contaminants Grant

These grants will be provided annually over the next five years. For fiscal year 2022, Massachusetts expects to receive \$60.428 million for the CWSRF Supplemental Grant and \$3.175 million in the Emerging Contaminants Grant. The Supplemental CWSRF Grant requires that Massachusetts provide at least \$29.6 million, 49% of its total grant amount, as loan forgiveness based on the affordability tier system. The Emerging Contaminant Grant requires that the entire \$3.17 million be provided as loan forgiveness for any eligible project.

Using supplemental funds, Massachusetts anticipates being able to offer fixed percentages of additional loan forgiveness for eligible projects on the 2022 IUP. These fixed percentages are anticipated to be consistently applied to the future IUPs covered under these new BIL federal grants subject to funds availability. MassDEP, in consultation with the Massachusetts Clean Water Trust, may amend this IUP as necessary given that the United States Environmental Protection Agency (USEPA) continues to issue guidance to states on the

implementation of the expanded SRF program. The large increase in the 2022 IUP capacity is evidence of the additional BIL funding being put to use in the Commonwealth, and Massachusetts looks forward to financing more projects at a lower cost to communities throughout the Commonwealth.

Some of the key provisions of BIL include amendments to the Clean Water Act (CWSRF Base Program):

American Iron and Steel – The American Iron and Steel procurement requirement is permanent for *all* CWSRF construction projects going forward.

Build America, Buy America (BABA) Act – BIL also expands domestic sourcing requirements with the inclusion of the Build America, Buy America Act (BABA). Starting on **May 14, 2022**, all steel, iron, manufactured products, non-ferrous metals, plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables), glass (including optic glass), lumber, and drywall used in infrastructure projects for federal financial assistance programs must be produced in the United States. The Made in America Office at the Office of Management and Budget (OMB) has developed initial overarching implementation guidance: <https://www.whitehouse.gov/wp-content/uploads/2022/04/M-22-11.pdf>. The USEPA will be issuing SRF specific implementation guidance.

BIL establishes an additional subsidy range of 10% to 30% for the annual CWSRF capitalization grant.

- Congress requires that states use 10% of the annual CWSRF capitalization grant for additional subsidy. Massachusetts expects a capitalization grant award of \$39.3 million in 2022. Additional subsidy will be provided in the form of loan forgiveness for communities that might otherwise not be able to afford to undertake the project. MassDEP and the Trust will continue to provide additional subsidy as a fixed percentage of principal. Further details may be found in section II(a) of this IUP. Information about the Trust's Affordability Calculation may be found on the following webpage: <https://www.mass.gov/info-details/the-disadvantaged-community-program#the-affordability-calculation>.
- MassDEP is also offering additional subsidy for all projects with a renewable energy component.
- To better address specific state priorities, *Section 302 of the 1996 Safe Drinking Water Act Amendments*, allow states the flexibility to move funds between the CWSRF and the Drinking Water State Revolving Fund (DWSRF) programs. Massachusetts will transfer non-federal funds from the CWSRF to the DWSRF program in the amount of \$19.2 million (33% of the 2022 DWSRF capitalization grant amount of \$16.5 million and the supplemental grant amount of \$41.7 million). Additionally, the CWSRF Emerging Contaminant Grant will be transferred to DWSRF, as detailed below. Massachusetts reserves authority of future transfers of Supplemental BIL funds.

- BIL allows states the flexibility to move funds between the CWSRF and the Drinking Water State Revolving Fund (DWSRF) programs. Due to great demand for PFAS remediation in drinking water, Massachusetts will transfer \$3.17 million of CWSRF Emerging Contaminant supplemental funds to the DWSRF Emerging Contaminant program (100% of the grant amount). This transfer will not adversely impact the CWSRF projects in this IUP.

MassDEP appreciates the efforts that proponents have invested in the development of applications and recognizes their efforts to enhance and protect the quality of waters of the Commonwealth.

TABLE 1
CLEAN WATER STATE REVOLVING FUND
Calendar Year 2022 CWSRF Intended Use Plan

NEW PROJECTS

Rating	Applicant	SRF ID	Project	Project Cost	2022 IUP Cost
148	FITCHBURG (PF)	6936	CSO 010, 032, 045, 083 Separation/Rehabilitation	\$28,323,000	\$28,323,000
136	LYNN WATER AND SEWER COMMISSION (PF)(H)	7024	West Lynn Sewer Separation - Phases 3, 4, & 5	\$68,833,914	\$25,000,000
134	NEW BEDFORD (BC)(PF)	7004	Wastewater Collection System Improvements	\$69,165,000	\$6,820,000
131	NEW BEDFORD (PF)	7089	Pumping Station Improvements (R)	\$28,840,000	\$28,840,000
129	NANTUCKET (H)#	7163	Phase 2 Surfside WWTF Improvements	\$10,145,000	\$10,145,000
123	CHICOPEE (PF)	6973	South Fairview Sewer Separation Project - Phase A	\$12,298,000	\$12,298,000
123	TAUNTON (PF)(H)	7160	2023 Sewer & Drain Improvements	\$3,000,000	\$3,000,000
120	FALL RIVER (PF)(H)	7050	Mothers Brooks Sewer Replacement Project	\$10,004,000	\$10,004,000
117	HAVERHILL (PF)(H)	7053	Sewer Collection System Upgrades	\$1,120,000	\$1,120,000
117	ORLEANS (BC)(H)	7150	Meetinghouse Pond Area Collection System and PS	\$32,906,000	\$32,906,000
116	HAVERHILL (PF)(H)	7041	Haverhill MA Locke Street Sewer Separation Project	\$26,650,000	\$26,650,000
115	SPRINGFIELD WATER AND SEWER COMMISSION (PF)	7225	Primary Treatment Upgrade at the SRWTF	\$14,010,000	\$14,010,000
114	BOSTON WATER AND SEWER COMMISSION (BC)(H)	6943	Dorchester Interceptor Relief Sewer Construction	\$45,000,000	\$20,000,000
114	SPRINGFIELD WATER AND SEWER COMMISSION (PF)(W)	7223	Grit Removal System Upgrade at the SRWTF	\$28,151,826	\$28,151,826
112	BOSTON WATER AND SEWER COMMISSION (H)(S)	6951	Dorchester Interceptor Storage Tank Construction	\$31,200,000	\$10,000,000
110	HAVERHILL (H)(PF)(S)#	6997	Haverhill WWTP Upgrades	\$48,860,000	\$13,293,088
109	EASTHAMPTON (PF)#	6961	Easthampton WWTF Upgrades	\$13,142,000	\$13,142,000
108	BOSTON WATER AND SEWER COMMISSION (H)	6959	Stormwater Detention Basin Construction	\$19,000,000	\$10,000,000
108	LOWELL (PF)(H)	6981	North Bank WWTF	\$26,600,000	\$26,600,000
108	NAHANT	7199	Sewer Collection System Repair & Replacement 2022	\$15,265,000	\$15,265,000
107	FALMOUTH (PF)	6986	Falmouth WWTF TASA Improvements	\$20,000,000	\$20,000,000
106	BILLERICA (PF)(H)#	6939	Billerica Infiltration/Inflow Rehabilitation	\$962,500	\$962,500
106	FALL RIVER (PF)(H)	7009	Birch Street Sewer Separation	\$30,825,000	\$30,825,000
105	CHATHAM	7074	Taylors Pond/Mill Creek (1D-2B) Sewer Extension	\$14,696,000	\$14,696,000
104	LAWRENCE (PF)(H)	7023	Lawrence Sewer and Drainage Improvements	\$6,426,000	\$6,426,000
103	CHATHAM	7079	Chatham Stage Harbor (1C-5/1E-2) Sewer Extension	\$11,010,500	\$11,010,500
103	CHATHAM	7072	Chatham Mill Pond Pumping Station Upgrade 2022	\$2,268,000	\$2,268,000

102 QUINCY (PF)(H)#	7019 Quincy Sewer Improvements	\$7,128,700	\$7,128,700
101 MASSACHUSETTS WATER RESOURCES AUTHORITY	7212 Somerville Marginal CSO New Pipe Connection	\$1,000,000	\$1,000,000
101 NORTHAMPTON (PF)(H)	7096 Northampton WWTP Upgrades	\$20,497,339	\$20,497,339
101 REVERE (PF)#	7099 Phase 13 Construction- I/I, IDDE, P.S. & Drainage	\$12,000,000	\$12,000,000
101 SWAMPSCOTT (H)	7194 Sewer Rehabilitation In Areas Beyond Staceys Brook	\$1,362,000	\$1,362,000
101 OAK BLUFFS (PF)	7207 Oak Bluffs WWTF ENR Upgrade Project	\$23,000,000	\$23,000,000
100 ACUSHNET (PF)	7229 CWMP Needs Area 2 Sewer Extension	\$14,048,000	\$14,048,000
100 MASSACHUSETTS WATER RESOURCES AUTHORITY	7216 CHE008 Pipeline Replacement Improvement	\$662,000	\$662,000
99 BARNSTABLE (PF)(H)#	6953 Wastewater Pump Station Replacement Project	\$5,540,000	\$5,540,000
99 ORLEANS (H)	7118 Permeable Reactive Barrier Implementation	\$63,320,000	\$17,094,000
98 KINGSTON (PF)	7021 Effluent Recharge Site No. 3	\$7,040,000	\$7,040,000
98 PLYMOUTH (PF)(H)#	7083 Camelot Drive Sewer Extension Project	\$8,600,000	\$8,600,000
98 HAVERHILL (PF)(H)	7084 Coffin and Hanover Pump Station Upgrades	\$1,900,000	\$1,900,000
98 NEW BEDFORD (PF)	7097 Sassaquin Pond Water Quality Improvements	\$9,340,000	\$9,340,000
97 BILLERICA (PF)(H)	6974 Brown Street Force Main Rehabilitation/Replacement	\$14,905,800	\$14,905,800
97 LOWELL (PF)(H)	7167 Critical Sewer Improvements & Green Infrastructure	\$3,317,600	\$3,317,600
96 GREATER LAWRENCE SANITARY DISTRICT	7039 North Bank Interceptor CSO Storage Facility	\$54,250,000	\$30,836,000
95 QUINCY (PF)(H)	7119 Wollaston Stormwater Capacity Improvements	\$4,920,000	\$4,920,000
94 SAUGUS (PF)#	6960 Comprehensive Sewer System Rehabilitation- PS-4	\$2,284,730	\$2,284,730
94 HULL (PF)	7239 Collection System Improvements Phase 2	\$14,043,500	\$14,043,500
92 BROCKTON (PF)(H)	7175 2023 Sewer System Rehabilitation	\$2,800,000	\$2,800,000
91 FRANKLIN (H)	6979 BSI Rehab & Replacement with New BS Pump Station	\$22,508,640	\$22,508,640
91 GREATER LAWRENCE SANITARY DISTRICT (RE)#	6962 CSO and Climate Resiliency Improvements	\$19,164,000	\$19,164,000
90 MASSACHUSETTS WATER RESOURCES AUTHORITY	7241 Fort Point Channel CSO BOS062, BOS06, BOS070/DBC	\$7,000,000	\$7,000,000
90 FAIRHAVEN (PF)(S)	7238 Wastewater Treatment Facility Upgrades Project	\$49,925,850	\$49,925,850
90 TAUNTON (PF)(H)	7210 2023 Pump Station Improvements	\$4,000,000	\$4,000,000
89 FRAMINGHAM (PF)(H)	6999 Worcester Road Sewer Pumping Station Replacement	\$7,830,000	\$7,830,000
89 MEDFIELD (H)#	7034 Medfield Sewer Infrastructure Rehabilitation	\$1,648,395	\$1,648,395
88 BOSTON WATER AND SEWER COMMISSION (H)(S)	7012 South Boston Sewer Separation	\$77,521,000	\$10,000,000
88 NEW BEDFORD (PF)	7054 Wastewater Treatment Plant Improvements	\$16,375,000	\$5,000,000
88 CHATHAM	7129 WPCF Sludge Processing Upgrades	\$4,750,000	\$4,750,000
86 BILLERICA (PF)(H)#	6940 Darby and Waterview Avenue Pump Stations	\$2,525,000	\$2,525,000

85 TYNGSBOROUGH (PF)(H)	7025 Phase 3 Sewer Extension & Sunset Park	\$23,323,000	\$23,323,000
84 BARRE (PF)#	7117 Barre Wastewater Treatment Facility Upgrades	\$7,236,000	\$7,236,000
84 GLOUCESTER (PF)	6990 Riggs Point and Riverdale Park PS Upgrades	\$2,635,000	\$2,635,000
83 HAVERHILL (PF)(H)	6970 Closure of Northern Mound of Haverhill Landfill	\$7,036,912	\$7,036,912
83 BROCKTON (PF)(H)(RE)	7100 AWRF Solids Management Improvements	\$34,800,000	\$34,800,000
82 LITTLETON (H)#	7020 Littleton Sewer System Expansion	\$39,950,000	\$39,950,000
81 ACTON (H)	7191 Acton Great Road Sewer Project	\$20,854,000	\$20,854,000
81 ACTON (H)	7067 Acton MFPB WWTF - New Groundwater Discharge	\$3,820,000	\$3,820,000
TOTAL OF NEW PROJECTS		\$1,243,564,206	\$898,082,380

(Count: 67)

(Average Rating: 101.96)

(BC) - Base Capitalization

(D) - Dropped by Applicant

(H) - Housing Choice Communities

(PF) - Affordability Criteria

(RE) - Potential Renewable Energy Projects

(S) - CWSRF General Supplemental

(W) - Water Infrastructure Finance and Innovation Act (WIFIA)

- Projects contains Energy Efficiency, Renewable Energy and/or meets EPA's definition of a Green Project (<https://www.epa.gov/greeningepa/energy-and-emissions-epa>)

MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS

Applicant	SRF ID Project	Project Cost	2022 IUP Cost
MASSACHUSETTS WATER RESOURCES AUTHORITY	4117 Facility Asset Protection	\$48,927,945	\$15,848,326
MASSACHUSETTS WATER RESOURCES AUTHORITY	4150 DITP Asset Protection Phase 3	\$66,500,000	\$21,924,275
MASSACHUSETTS WATER RESOURCES AUTHORITY	4446 Nut Island HW Odor Control & HVAC - Contract 7548	\$57,565,399	\$2,565,399
MASSACHUSETTS WATER RESOURCES AUTHORITY	6822 DITP Clarifier #2	\$149,527,777	\$1,000,000
TOTAL OF MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS		\$322,521,121	\$41,338,000

(Count: 4)

MassDEP PRIORITY PROJECTS

Applicant	SRF ID Project	Project Cost	2022 IUP Cost
COMMUNITY SEPTIC MANAGEMENT	3850 Community Septic Management Program	\$5,000,000	\$5,000,000
EMERGENCY SRF SET-A-SIDE	2977	\$3,000,000	\$3,000,000
TOTAL OF MassDEP PRIORITY PROJECTS		\$8,000,000	\$8,000,000

(Count: 2)

PLANNING PROJECTS

Applicant	SRF ID Project	Project Cost	2022 IUP Cost
BOSTON WATER AND SEWER COMMISSION (H)	7063 Sewer and Drain Model Updates and Recalibration	\$2,500,000	\$2,500,000
CANTON (H)	7230 Massapoag Flood Mitigation - Reservoir Management	\$259,000	\$259,000
CANTON (H)	7231 Green Infrastructure and Flood Mitigation	\$252,000	\$252,000
CONCORD	7190 Integrated Water Resources Plan Phase 2	\$950,000	\$950,000
EDGARTOWN	7244 Edgartown Clean Water Management Planning	\$491,100	\$491,100
FALL RIVER (H)	7016 CSO Facility Treatment Study	\$1,400,000	\$1,400,000
GREAT BARRINGTON (H)	7116 Collection System CMOM & Asset Management Program	\$400,000	\$400,000
HINGHAM (H)	7142 Stormwater Master Plan	\$500,000	\$500,000
HINSDALE	7108 Collection System CMOM & Asset Management Program	\$192,500	\$192,500
HOOSAC WATER QUALITY DISTRICT	7103 WWTF Facilities Plan & Capital Improvements	\$150,000	\$150,000
NEW BEDFORD	7002 Phase 1 - Sewer System Evaluation Survey Program	\$1,820,000	\$1,820,000
NEW BEDFORD	7107 Phase 3 Illicit Connection Identification Program	\$1,950,000	\$1,950,000
PITTSFIELD	7171 Pittsfield IWRMP	\$2,500,000	\$2,500,000
QUINCY (H)	7234 Sewer and Drainage Infrastructure Investigations	\$200,000	\$200,000
REVERE	7123 Phase 14 Investigations- I/I and IDDE	\$1,200,000	\$1,200,000
SAUGUS	6971 Sewer Flow Metering & Subsystem Re-Prioritization	\$200,000	\$200,000
SAUGUS	7132 Lincoln Avenue Force Main Evaluation	\$400,000	\$400,000
TOTAL OF PLANNING PROJECTS		\$15,364,600	\$15,364,600

(Count: 17)

TOTAL OF INTENDED USE PLAN **\$1,589,449,927** **\$962,784,980**

TABLE 2
CLEAN WATER STATE REVOLVING FUND
Calendar Year 2022 CWSRF ASSET MANAGEMENT PLANNING PROJECTS

ASSET MANAGEMENT PLANNING PROJECTS

Rating	Applicant	SRF ID	Project	Project Cost	Grant Amount
99	BILLERICA (H)	7198	Billerica Stormwater Asset Management Plan	\$231,750	\$139,000
96	DOUGLAS	7070	Douglas Sewer Asset Management Plan	\$126,500	\$75,900
94*	WINCHENDON	7048	Winchendon Water and Sewer Asset Management Plan	\$125,000	\$75,000
93*	ERVING	7214	Town of Erving 2022 Sewer AMP	\$142,500	\$85,500
86	EDGARTOWN	7233	Edgartown Wastewater Asset Management Plan	\$162,500	\$97,500
85	GREENFIELD	7208	Greenfield Water and Wastewater AMP	\$146,057	\$87,634
85	MASHPEE	7226	Mashpee Stormwater Asset Management Plan	\$100,000	\$60,000
84	ARLINGTON	7219	Arlington Asset Management Plan	\$246,000	\$147,600
83	BOLTON (H)	7188	Bolton Stormwater Asset Management Plan	\$100,000	\$60,000
79	MONTAGUE	7015	Montague Asset Management Project	\$250,000	\$150,000
79	FITCHBURG	7114	Stormwater Asset Management Plan	\$249,994	\$149,992
79*	AVON	7221	Avon Asset Management System Expansion & Upgrades	\$80,115	\$48,069
78	MILLIS	7193	Asset Management Program - Phase 3	\$250,000	\$150,000
77	MARSHFIELD	7148	Marshfield - Stormwater Asset Management	\$260,000	\$150,000
75*	NORTHFIELD	7200	Northfield Wastewater Asset Management Project	\$117,430	\$70,458
74	LONGMEADOW	7007	Longmeadow Stormwater Asset Management Project	\$250,000	\$150,000
70	SOUTH ESSEX SEWERAGE DISTRICT	7110	SESD Asset Management Project FY 2022	\$125,000	\$75,000
70	ACTON (H)	7195	Acton Asset Management Plan	\$211,000	\$126,600
70*	PLAINVILLE (H)	7217	Plainville Asset Management Plan - Phase 2	\$250,000	\$150,000
69	AGAWAM	7205	Agawam Asset Management Plan	\$200,000	\$120,000
68	NORTH BROOKFIELD	7165	Asset Management Plan	\$184,077	\$110,446
53*	RUTLAND (H)	7138	Rutland Asset Management	\$128,750	\$77,250
51	STOW	6967	Stow Culvert Inventory	\$48,000	\$28,800
48	SAUGUS	7137	Utility Network Asset Management Planning	\$250,000	\$150,000
41	METHUEN (H)	7227	Methuen Asset Management Plan	\$200,000	\$120,000
40	WESTMINSTER	7153	Westminster DPW Asset Management Inventory	\$248,015	\$148,065
35*	LUNENBURG	7220	Lunenburg Asset Management Inventory	\$128,005	\$76,605
TOTAL OF ASSET MANAGEMENT PLANNING PROJECT				\$4,810,693	\$2,879,419

(Count: 27)

*Á Small System

TOTAL OF PROJECT PRIORITY LIST	\$4,810,693	\$2,879,419
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BACKGROUND

In 1987, Congress established a program of capitalization grants for States to create Clean Water State Revolving Fund (CWSRF) loan programs. These programs provide state-administered subsidized loans to finance the construction of publicly owned water pollution abatement projects. Under the CWSRF program, states provide a 20% match to the federal capitalization grant to create the loan fund. Projects to be financed are selected using a priority ranking system based upon the public health and environmental protection benefits of the proposed projects and improved compliance.

The CWSRF is jointly administered by the Massachusetts Department of Environmental Protection (MassDEP) and the Massachusetts Clean Water Trust (Trust). MassDEP manages the technical aspects of the project development, while the Trust manages the disbursement of funds and the sale of bonds to provide capital to the program.

Pursuant to the applicable provisions of the Federal Water Pollution Control Act of 1972, as amended, Chapter 21 of the General Laws, and 310 CMR 44.00, MassDEP has developed its Calendar Year 2022 Intended Use Plan/Project Priority List (IUP/PPL), with its attendant ranking of water pollution abatement projects. A project must appear on the PPL and the IUP Project Listing to receive financial assistance under the State Revolving Fund (SRF) Loan program.

This IUP includes approximately \$963 million in financing and describes Massachusetts' intended uses for all funds available in the CWSRF program for 2022, including the projects that Massachusetts expects to provide financial assistance to and an overview of how the state will comply with federally mandated requirements.

All new eligible CWSRF projects qualify for loans at an interest rate at, or below, 2%. The Commonwealth subsidizes these loans, funding the spread between market interest rates and the awarded rate. This subsidy will continue to be allotted to the SRF programs in this and upcoming budget cycles. Certain priority projects, with the primary purpose of nutrient reduction, may be eligible for 0% interest rate loans, provided they meet specific statutory requirements. Prior to committing to permanent financing, MassDEP will review all submitted information to determine a projects' eligibility for the reduced interest rate.

This IUP contains a list of 27 Clean Water proposals totaling \$4.8 million that will receive grant funding for their Asset Management Planning projects. These communities will receive 60% of the project cost, up to \$150,000, as a grant from the Trust, totaling \$2.9 million. The remaining project costs are to be funded by local contributions of cash and/or in-kind services. All or part of the local contribution may also consist of a loan from the Trust at the standard 2% interest rate with a term of up to five years.

All new projects receiving financial assistance from the CWSRF will be eligible for loans at 2% or, in certain instances, below 2%. The Commonwealth subsidizes these loans, funding the spread between market interest rates and the awarded rate. This subsidy will continue to be allotted to the SRF programs in this and upcoming budget cycles. Certain priority projects, with the primary purpose of nutrient enrichment reduction, may

be eligible for 0% interest loans. Prior to committing to permanent financing, MassDEP will review all submitted information to determine a project's eligibility for the reduced interest rate. The standard term for constructions loans is 20 years.

To be considered for financing priority, communities must have appropriated the necessary local project funds or have committed to a schedule to obtain those funds by **June 30, 2022**.

Completed loan applications must be submitted to MassDEP at the earliest possible time, but not later than **October 14, 2022**. A complete application must contain the local funding authorization and the required supporting documentation. Any project not meeting these deadlines will be removed from the IUP Project Listing. Projects offered financing that do not advance, may be replaced by the highest ranked project on the PPL that is ready to proceed. Following receipt of a complete loan application package, MassDEP must issue a Project Approval Certificate to the Trust, no later than December 31, 2022, certifying the total costs of the project determined to be eligible for financial assistance. The Trust then proceeds to execute loan commitments.

All SRF related documents, including this IUP, the priority ranking system, loan application forms, regulations, and IUPs from the previous year, may be found on the MassDEP website at: <http://www.mass.gov/eea/agencies/massdep/water/grants/state-revolving-fund.html>.

I. CALENDAR YEAR 2022 PROJECT FINANCING

In 2022, MassDEP expects to finance 67 new construction projects, 4 carryover projects, and 17 planning projects totaling \$963 million. Included in this amount is a \$3 million emergency reserve to finance unanticipated problems of acute public health concern that may arise during the year. Also included is a \$5 million allocation to the Community Septic Management Program. Table 1 is the proposed financing list for 2022 and Table 3 the extended PPL. Tables 2 and 4 list the projects that have been selected to receive grants from the Trust for their Asset Management Planning projects.

Following are some of the more notable CWSRF program components and requirements:

A. Additional Subsidy

As required in federal law applicable to the 2022 CWSRF capitalization grant, a minimum of 20% additional subsidy shall be provided, and no less than 10% of the grant and no more than 30%, based on the affordability tier system, provided eligible applicants exist. In the 2022 CWSRF IUP, Massachusetts intends to disburse a minimum of \$7.9 million of the capitalization grant in additional subsidy to eligible projects. In addition, Massachusetts expects to receive \$60.48 million for the CWSRF Supplemental Grant. The Supplemental CWSRF Grant requires that Massachusetts provide at least \$29.6 million, 49% of its total grant amount, as loan forgiveness to eligible projects based on the affordability tier system.

Eligible construction projects appearing on the 2022 IUP will receive additional subsidy, to the extent that funds are available, in the form of loan forgiveness based on the affordability tier system described below and provided as a set percentage based on the community's tier ranking.

Massachusetts has established an affordability criteria to calculate and distribute loan forgiveness. The assignment of communities to an affordability tier is based on an adjusted per capita income (APCI) calculation. Tier rankings are calculated annually by comparing a community's APCI as a percentage of the Commonwealth's APCI. See the following table for the tier breakdown.

Tier	Percent of State APCI	Minimum Loan Forgiveness
1	Greater than 80%, but less than 100%	3.3%
2	Greater than 60%, but less than 80%	6.6%
3	Less than 60%	9.9%

Projects that have a renewable energy component will qualify as a Tier 1 community and receive loan forgiveness for the portion of the loan that is financing the renewable energy component.

*Loan forgiveness will be disbursed over construction contracts that are executed by **June 30, 2023**, and may be limited to the lesser of the executed contracts or the IUP cost. Planning projects are not eligible for loan forgiveness.*

In addition to meeting the Affordability Criteria, under Chapter 259 of the Acts of 2014, *An Act Improving Drinking Water and Wastewater Infrastructure*, applicants for additional subsidy are required to:

1. establish water enterprise funds (or equivalent separate restricted accounts), and
2. not have made any transfers from such enterprise fund in the last five years to fund the community's general operating budget.

B. Housing Choice Initiative

Communities that have earned the Housing Choice designation at the time of the SRF project solicitation are eligible to have their loan's interest rate reduced by 0.5% (for example from 2% to 1.5% for a standard term loan). However, under no circumstance can the interest rate fall below 0%. For example, if a community qualifies for a 0% interest loan for a nutrient reduction project, it cannot receive an added discount through the Housing Choice designation. Housing Choice initiative communities must also certify to the enterprise account requirements noted above.

C. Green Infrastructure

Congress requires that at least 10% of the federal CWSRF capitalization and supplemental BIL grants be dedicated to green infrastructure projects, or components, as defined by the United State Environmental Protection Agency (USEPA). For Massachusetts, this requires that \$10 million be allocated towards Green Infrastructure projects that minimize greenhouse gas emissions and energy use. For 2022, MassDEP will work to determine the value of the green projects or portions of projects that qualify as green. The total value of green components of those projects will be determined when detailed project applications are submitted. MassDEP expects to meet the minimum \$10 million that USEPA requires to be allocated towards green infrastructure projects.

D. Applicant Cap

The Massachusetts SRF regulations (310 CMR 44) place a limit on any one proponent receiving any more than 33% of the available financing each year. Because of the shortfall of available funds relative to the number of worthwhile projects, and to extend financial assistance to as many highly ranked projects as possible, MassDEP is implementing an applicant cap of \$50 million for the 2022 financing period. MassDEP, however, reserves the right to waive the applicant cap limitation if MassDEP determines that one or more projects on the IUP Project Listing are not ready to proceed. If the applicant cap is waived, communities may see an increase in financing for projects not fully financed on the IUP listing.

E. Fiscal Sustainability Planning

For treatment works proposed for repair, replacement, or expansion, the USEPA requires that borrowers develop and implement a fiscal sustainability plan (FSP) that includes:

- an inventory of critical assets that are a part of the treatment works;
- an evaluation of the condition and performance of inventoried assets or asset groupings;
- a certification that the recipient has evaluated and will be implementing water and energy conservation efforts as part of the plan; and
- a plan for maintaining, repairing, and, as necessary, replacing the treatment works, and a plan for funding such activities; or
- a certification that the borrower has developed and implemented a plan that meets these requirements.

Except for the third bullet above, these are all components of an Asset Management Plan (AMP). The AMP grant program is designed to help communities cover 60% or up to \$150,000 of the costs associated with developing an AMP. The USEPA issued a Best

Management Practices guide for the development of asset management plans, which may be used as a basis for the development of an FSP <https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=P1000LP0.txt>. There are numerous other guidance documents available on the USEPA website and several other states (New Mexico and New Jersey, among others) have developed detailed guidance on the development of asset management plans, which is publicly available.

At project completion, MassDEP requires certification from the borrower's Project Engineer stating that an FSP has been developed and implemented. The development of FSPs is an eligible SRF cost, and borrowers on the 2022 IUP may request an increase to their project cost to cover the development of the FSP or can apply in future years for the AMP grant program <https://www.mass.gov/service-details/asset-management-planning-grant-program>.

F. Cost and Effectiveness

USEPA requires a certification that the borrower:

- has studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project; and
- has selected, to the maximum extent practicable, a project that maximizes the potential for efficient water use, reuse, recapture, conservation, and energy conservation, considering:
 - the cost of constructing the project;
 - the cost of operating and maintaining the project over its life; and
 - the cost of replacing the project.

MassDEP expects that applicants will have evaluated the cost of their project, as well as the effectiveness of the solution, in the required planning element such as a Comprehensive Wastewater Management Plan or a Project Evaluation Report. These reports typically evaluate alternatives and compare their various life cycle costs. The only additional work is to evaluate that the project maximizes the potential for efficient water use and energy conservation. This evaluation, if not already complete, can be appended to the planning document.

A Cost and Effectiveness Certification form is required to be submitted with each Loan Application package.

G. Architectural and Engineering (A/E) Services Procurement

The USEPA requires that A/E services that are paid with federal funds be procured using the qualifications-based selection process under 40 U.S. Code § 11 or an equivalent state qualifications-based requirement.

There are two Massachusetts statutes for procuring A/E services: Chapter 149 for vertical construction; and Chapter 30B for horizontal construction. Chapter 149 appears to meet the qualifications-based selection requirement while Chapter 30B does not.

Rather than add a third method of procurement or forcing communities into using a different method of procurement for horizontal construction and/or owner's project manager services, the Trust has chosen to not use federal funds for any A/E services. SRF federal funds will still be available for construction services. However, on large projects that receive federal funds for construction, the A/E services may be split out into a separate loan using non-federal funds.

H. Project Accounting

The USEPA requires that project accounts be maintained in accordance with the most recent applicable standard. The current standard is Governmental Accounting Standards Board (GASB) Statement No. 34, which was issued in June 1999 and details governmental reporting requirements including standards for reporting infrastructure assets.

E. Technical Assistance

Amendments to the Clean Water Act through the Bipartisan Infrastructure Law allow States to use 2% of the capitalization and supplemental grants for technical assistance provided by nonprofits. Massachusetts intends to reserve the entirety of this set-aside for use in future IUPs.

II. SHORT- AND LONG-TERM GOALS

The following are the goals that Massachusetts has set for its CWSRF.

Short-Term Goals

- Finance highly ranked, construction ready, water improvement projects.
- Prioritize projects that promote nutrient removal, especially those which implement the Cape Cod 208 Plan recommendations.
- Prioritize projects that eliminate or abate Combined Sewer Overflow discharges.
- Promote the asset management planning and cybersecurity best management practices by providing grants through the Trust's Asset Management Planning grant program.
- Allocate at least 10% of the annual federal grant to Green Infrastructure projects, or components, for projects that minimize greenhouse gas emissions and energy use.
- Encourage energy efficiency/conservation by providing enhanced subsidy to projects that include renewable energy components for the portion of the loan that is financing the renewable energy component.
- Ensure that wastewater treatment projects financed through the SRF fully consider cost-effective energy efficiency measures and/or renewable energy strategies.

- Finance eligible projects addressing unanticipated problems of acute public health concern that arise during the year and constitute an imminent public health threat.
- Provide targeted outreach and engage with communities across the Commonwealth about SRF program benefits, priorities, and opportunities to improve water quality and reduce project costs.

Long-Term Goals

- Ensure that the CWSRF program remains accessible to assist communities across the Commonwealth to maintain compliance with the Clean Water Act, particularly communities with small systems.
- Identify and prioritize additional subsidy for projects in the IUP that serve Disadvantaged Communities.
- Assist stormwater and wastewater treatment plant operators to finance projects to address the impact of climate change and resiliency concerns on the safe and continuous operation of the utility.
- Promote systematic Asset Management Planning for water, wastewater, and stormwater utilities to achieve long-term sustainability and deliver consistent service in a cost-efficient manner.
- Establish and efficiently manage a permanent source of financing for the construction of publicly owned water pollution abatement facilities to enhance and protect the quality of the waters of the Commonwealth.
- Promote public engagement and program transparency by publishing informative and readily accessible program materials and reports.

III. ALLOCATION OF FUNDS

A. Criteria and Method for Distribution of Funds

Massachusetts seeks to finance projects that mitigate documented threats to public health and/or impacts to the environment, and for which proponents have completed comprehensive planning and alternatives analysis. Details supplied through the Project Evaluation Form (PEF) help MassDEP determine the extent to which projects meet the goals of the program. Once all projects have been rated and ranked following the *Clean Water State Revolving Fund 2022 Project Evaluation Form* instructions and guidance, <https://www.mass.gov/lists/state-revolving-fund-applications-forms#2020-project-evaluation-form-instructions-and-guidance>, the PPL is developed as shown in Table 3. With input from the Trust, MassDEP identifies all the sources of funds and spending limits and develops the IUP Project Listing as shown in Table 1.

To be considered eligible for financing, projects must meet State and Federal eligibility requirements, must be ready to proceed during the financing period, have appropriated local funds necessary to finance the project, and have a MassDEP-approved planning element. An approvable planning element can be a Project Evaluation Report,

Comprehensive Water Resources Management Plan, Long-term combined sewer overflow (CSO) Strategy, Stormwater Management Plan, or other MassDEP sanctioned planning document. Projects on Cape Cod are required to be consistent with the Cape Cod Area-Wide Section 208 Water Quality Management Plan. Four Cape Cod communities: Barnstable, Chatham, Falmouth, and Orleans have proposals on this IUP; the Cape Cod Commission has determined that the projects are consistent with the Cape Cod 208 Plan.

Eligibility includes consistency with the assurances described in this document and the requirements contained within MassDEP's financial assistance regulations <https://www.mass.gov/regulations/310-CMR-4400-the-clean-water-state-revolving-fund>. Certain projects on the 2022 PPL may have higher priority point totals than the projects on the IUP Project Listing. That occurred because those projects on the PPL are not ready to proceed. An important indicator of readiness to proceed is that a project has completed the State Environmental Review Process.

MassDEP reserves the right to increase the amount allocated to any project appearing on this IUP, should additional federal or state funding or program loan capacity become available.

B. Project Bypass Procedure

A project on the IUP Project Listing may be bypassed if MassDEP determines that the bypassed project will not be ready to proceed during the financing period. Project(s) bypassed may be replaced by the highest ranked priority project(s) on the PPL that are ready to proceed, or the funds may be used for cost increases to other projects approved previously. Complete project applications not received by MassDEP by **October 14, 2022**, will be automatically considered for bypassing.

The Trust and MassDEP will not add projects to the PPL/IUP beyond those that may qualify for emergency assistance. MassDEP, considering any material program change that would require amendments to this IUP, will provide public notice and an appropriate comment period before issuing an amended IUP.

C. Types of Projects to be Financed and Financing Rates

Any water pollution abatement project of an eligible borrower is eligible to receive financial assistance from the Trust. Such eligible projects include, but are not limited to:

- Wastewater Treatment Projects, as defined in 310 CMR 44.03;
- Infiltration Inflow (I/I) Projects, as defined in 310 CMR 44.03;
- Collection System Projects, as defined in 310 CMR 44.03. However, 85% of the expected wastewater flow into the proposed collection system must be for wastewater flows in existence as of July 1, 1995;
- Nonpoint Source Projects, as defined in 310 CMR 44.03;
- Nutrient Management Projects, as defined in 310 CMR 44.03;

- Stormwater Projects;
- Green Infrastructure Projects; and
- The planning or design for any project in one of the categories identified above.

Costs of construction that MassDEP determines as being necessary for the completion of the project are eligible for financing through the loan and can receive a subsidy under the loan, subject to the applicant cap. Although costs for design are eligible, they will not be financed during this financing period due to the high demand for construction financing.

All projects on the IUP are eligible for 2% interest rate loans. Certain projects that are primarily for nutrient removal are eligible for 0% interest rate loans. These nutrient removal projects will be evaluated in accordance with 310 CMR 44.04(2) and a determination will be made as to the eligibility for 0% interest loans before the loan is permanently financed.

IV. FINANCIAL MANAGEMENT

A. Source of State Match

Based on the anticipated 2022 CWSRF federal grant of \$39.3 million from USEPA, the required 20% state match equals \$7.9 million. In addition, for 2022, Massachusetts expects to receive \$60.48 million for the CWSRF Supplemental Grant, the required 10% state match equals \$6.05 million. These state match funds are provided to the Trust from the Commonwealth's Capital Plan.

B. Fee Income

The Trust charges an amount not to exceed \$5.50 per \$1,000 as a loan origination fee to offset the costs incurred during its bond issuance. Recipients of SRF loans are charged an annual administrative fee of 0.15% (15 basis points) against the outstanding loan principal to fund salaries and expenses of the Trust and MassDEP related to SRF project development and loan management. As of June 30, 2021, the Trust had a balance of approximately \$51.5 million in its Administrative Account.

C. Program Administration

The Commonwealth of Massachusetts intends to use the full 4% of the Federal capitalization grant and the supplemental BIL grant funds for administrative support of activities related to the CWSRF. Use of those funds is detailed in the CWSRF Grant Application that the Trust files each year with the USEPA.

D. Anticipated Cash Draw Ratio

Massachusetts will draw 100% of the state match funds before drawing federal funds. This will ensure that Massachusetts remains in compliance with the required cash draw ratios.

E. Transfer of Funds Between CWSRF and DWSRF

Section 302 of the 1996 Safe Drinking Water Act Amendments allows states the flexibility to move funds between the Clean and the Drinking Water SRF programs to better address specific state priorities. The USEPA allows an equivalent of up to 33% of the Drinking Water grant to be transferred between the CWSRF and DWSRF.

The CWSRF IUP capacity frequently allows Massachusetts to finance all the requested projects. This year, a third of the requested CWSRF construction projects will not be offered financing. Generally, a third of requested DWSRF construction projects go unfinanced. The level of federal grant funding of the DWSRF is insufficient to meet the need for project financing. Transferring a limited amount of funds from the CWSRF to the DWSRF this year and in the future will help increase the overall capacity of the DWSRF and reduce the number of unfinanced projects. Massachusetts will transfer funds from the CWSRF to the DWSRF program in the amount of \$5.4 million (33% of the 2022 DWSRF grant amount of \$16.5 million).

BIL allows states the flexibility to move funds between the CWSRF and the DWSRF programs. Due to great demand for PFAS remediation in drinking water projects, Massachusetts will transfer \$3.17 million of CWSRF Emerging Contaminant supplemental funds to the DWSRF Emerging Contaminant program (100% of the grant amount). This transfer will not adversely impact CWSRF project financing in this IUP.

F. Estimated Sources and Uses

The sources of funds available to the Massachusetts CWSRF include the federal capitalization grant, the federal supplemental BIL grants, state match and borrower loan repayments. The Trust may leverage these funds up to 3 times. Under this authority, the Trust will offer to finance approximately \$963 million in projects.

V. Program Management

A. Assurances and Special Conditions

MassDEP and the Trust have provided the required assurances and certifications as part of the Operating Agreement (OA) between Massachusetts and the USEPA. The OA describes the mutual obligations among USEPA, MassDEP, and the Trust. The purpose of the OA is to provide a framework of procedures to be followed in the management and administration of the CWSRF.

The OA addresses the commitment to key CWSRF requirements, including:

- Section 602(a) Environmental Reviews: The CWSRF will conduct environmental reviews according to the State Environmental Review Process developed for the SRF.
- Section 603(b) (3) Binding Commitments: The CWSRF will enter into binding commitments for 120% of each quarterly grant payment within one year of receipt of the payment.

- Section 602(b) (4) Expeditious and Timely Expenditures: The CWSRF will expend all funds in the CWSRF in a timely manner.
- Consistency with Planning. The Commonwealth agrees that it will not provide assistance to any project unless that project is consistent with plans developed under Section 205(j), 208, 303(e), 319, or 320.

B. Federal Requirements

A number of federal requirements apply to CWSRF projects in an amount equal to the capitalization grant including:

- Single Audit Act (2 CFR 200 Subpart F)
- Federal Funding Accountability and Transparency Act (FFATA) reporting
- Disadvantaged Business Enterprise compliance (all projects)
- Federal environmental crosscutters (all projects)
- Project signage to enhance the public awareness
- Ineligible Costs: any costs that are prohibited including but not limited to: 2 CFR 200.216, Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment.

MassDEP and the Trust will identify the group of projects that must comply with these requirements in the USEPA grant application. Frequently, the group of projects changes as projects move towards construction, usually due to attrition. If changes are made to the group of projects, appropriate amendments to the grant application will be made.

C. Davis-Bacon Wage Rates

The amendments to the Clean Water Act, as part of the Water Resources Reform and Development Act, apply the Davis-Bacon Act requirements to all treatment works projects going forward. The Davis-Bacon requirements do not apply to nonpoint source or decentralized wastewater treatment projects. MassDEP ensures that the required Davis-Bacon language is included in contracts and conducts field verifications of project compliance with the wage rate requirements.

D. American Iron and Steel and the Build America, Buy America Act

The amendments to the Clean Water Act, as part of WRRDA, apply the American Iron and Steel (AIS) requirements to all treatment works projects. Furthermore, BIL extends this procurement requirement to *all* CWSRF construction projects going forward with the inclusion of the **Build America, Buy America Act (BABA)**. Starting on May 14, 2022, all steel, iron, manufactured products, non-ferrous metals, plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables), glass (including optic glass), lumber, and drywall used in infrastructure projects for federal financial assistance programs must be produced in the United States. MassDEP ensures that the required procurement language is included in contracts and conducts field verifications of

project compliance. Appropriate AIS and BABA language has also been included in the Project Regulatory Agreement and the Financing Agreement.

E. Audits and Reporting

MassDEP and the Trust will comply with all the auditing and reporting requirements of the USEPA. A single audit is conducted annually and reporting to the USEPA is done through the Office of Water State Revolving Fund (OWSRF) data system, Annual Report, and FFATA reporting.

VI. Public Review and Comment

Notice of the availability of the Draft Calendar Year 2022 IUP/PPL was be made on February 18, 2022. Pursuant to the provisions for adequate alternative public access to agency hearings, set forth in Section 20 of Chapter 20 of the Acts of 2021, an Act Extending Certain COVID-19 Measures Adopted During the State of Emergency, a public hearing on the Draft IUP took place virtually on March 22, 2022. Records of the testimony received will be maintained in MassDEP's files. MassDEP took into consideration the testimony received to finalize this IUP.

TABLE 3
CLEAN WATER STATE REVOLVING FUND
Calendar Year 2022 CWSRF Project Priority List

NEW PROJECTS

Rating	Applicant	NPDES/PERMIT	SRF ID Project	Project Cost
148	FITCHBURG (PF)	MA0100986	6936 CSO 010, 032, 045, 083 Separation/Rehabilitation	\$28,323,000
136	LYNN WATER AND SEWER COMMISSION (PF)(H)	MA0100552	7024 West Lynn Sewer Separation - Phases 3, 4, & 5	\$68,833,914
134	NEW BEDFORD (BC)(PF)	MA0100781	7004 Wastewater Collection System Improvements	\$69,165,000
131	NEW BEDFORD (PF)	MA0100781	7089 Pumping Station Improvements (R)	\$28,840,000
129	NANTUCKET (H)#	GW	7163 Phase 2 Surfside WWTF Improvements	\$10,145,000
123	CHICOPEE (PF)	MA0101508	6973 South Fairview Sewer Separation Project - Phase A	\$12,298,000
123	TAUNTON (PF)(H)	MA0100897	7160 2023 Sewer & Drain Improvements	\$3,000,000
120	FALL RIVER (PF)(H)	MA0100382	7050 Mothers Brooks Sewer Replacement Project	\$10,004,000
117	HAVERHILL (PF)(H)	MA0101621	7053 Sewer Collection System Upgrades	\$1,120,000
117	ORLEANS (BC)(H)	GW	7150 Meetinghouse Pond Area Collection System and PS	\$32,906,000
116	HAVERHILL (PF)(H)	MA0101621	7041 Haverhill MA Locke Street Sewer Separation Project	\$26,650,000
115	SPRINGFIELD WATER AND SEWER COMMISSION (PF)	MA0101613	7225 Primary Treatment Upgrade at the SRWTF	\$14,010,000
114	BOSTON WATER AND SEWER COMMISSION (BC)(H)	MAS010001	6943 Dorchester Interceptor Relief Sewer Construction	\$45,000,000
114	SPRINGFIELD WATER AND SEWER COMMISSION (PF)(W)	MA0101613	7223 Grit Removal System Upgrade at the SRWTF	\$28,151,826
112	BOSTON WATER AND SEWER COMMISSION (H)(S)	MAS010001	6951 Dorchester Interceptor Storage Tank Construction	\$31,200,000
110	HAVERHILL (H)(PF)(S)#	MA0101621	6997 Haverhill WWTP Upgrades	\$48,860,000
109	EASTHAMPTON (PF)#	MA0101478	6961 Easthampton WWTF Upgrades	\$13,142,000
108	BOSTON WATER AND SEWER COMMISSION (H)	MAS010001	6959 Stormwater Detention Basin Construction	\$19,000,000
108	LOWELL (PF)(H)	MA0100633	6981 North Bank WWTF	\$26,600,000
108	NAHANT	MA0100552	7199 Sewer Collection System Repair & Replacement 2022	\$15,265,000
107	FALMOUTH (PF)	GW	6986 Falmouth WWTF TASA Improvements	\$20,000,000
106	BILLERICA (PF)(H)#	MA0101711	6939 Billerica Infiltration/Inflow Rehabilitation	\$962,500
106	FALL RIVER (PF)(H)	MA0100382	7009 Birch Street Sewer Separation	\$30,825,000
105	CHATHAM	GW	7074 Taylors Pond/Mill Creek (1D-2B) Sewer Extension	\$14,696,000
104	LAWRENCE (PF)(H)	MA0100447	7023 Lawrence Sewer and Drainage Improvements	\$6,426,000
103	CHATHAM	GW	7072 Chatham Mill Pond Pumping Station Upgrade 2022	\$2,268,000

103	CHATHAM	GW	7079 Chatham Stage Harbor (1C-5/1E-2) Sewer Extension	\$11,010,500
102	QUINCY (PF)(H)#	MA0103284	7019 Quincy Sewer Improvements	\$7,128,700
101	NORTHAMPTON (PF)(H)	MA0101818	7096 Northampton WWTP Upgrades	\$20,497,339
101	REVERE (PF)#	MA0103284	7099 Phase 13 Construction- I/I, IDDE, P.S. & Drainage	\$12,000,000
101	SWAMPSCOTT (H)	MA0101907	7194 Sewer Rehabilitation In Areas Beyond Staceys Brook	\$1,362,000
101	OAK BLUFFS (PF)	GW	7207 Oak Bluffs WWTF ENR Upgrade Project	\$23,000,000
101	MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	7212 Somerville Marginal CSO New Pipe Connection	\$1,000,000
100	MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	7216 CHE008 Pipeline Replacement Improvement	\$662,000
100	ACUSHNET (PF)	MA0100781	7229 CWMP Needs Area 2 Sewer Extension	\$14,048,000
99	BARNSTABLE (PF)(H)#	GW	6953 Wastewater Pump Station Replacement Project	\$5,540,000
99	ORLEANS (H)	GW	7118 Permeable Reactive Barrier Implementation	\$63,320,000
98	PLYMOUTH (PF)(H)#	MA0100587	7083 Camelot Drive Sewer Extension Project	\$8,600,000
98	HAVERHILL (PF)(H)	MA0101621	7084 Coffin and Hanover Pump Station Upgrades	\$1,900,000
98	KINGSTON (PF)	GW	7021 Effluent Recharge Site No. 3	\$7,040,000
98	NEW BEDFORD (PF)	MA0100781	7097 Sassaquin Pond Water Quality Improvements	\$9,340,000
97	BILLERICA (PF)(H)	MA0101711	6974 Brown Street Force Main Rehabilitation/Replacement	\$14,905,800
97	LOWELL (PF)(H)	MA0100633	7167 Critical Sewer Improvements & Green Infrastructure	\$3,317,600
96	GREATER LAWRENCE SANITARY DISTRICT	MA0100447	7039 North Bank Interceptor CSO Storage Facility	\$54,250,000
95	QUINCY (PF)(H)	MA0103284	7119 Wollaston Stormwater Capacity Improvements	\$4,920,000
94	SAUGUS (PF)#	MA0100552	6960 Comprehensive Sewer System Rehabilitation- PS-4	\$2,284,730
94	HULL (PF)	MA0101231	7239 Collection System Improvements Phase 2	\$14,043,500
92	BROCKTON (PF)(H)	MA0101010	7175 2023 Sewer System Rehabilitation	\$2,800,000
91	GREATER LAWRENCE SANITARY DISTRICT (RE)#	MA0100447	6962 CSO and Climate Resiliency Improvements	\$19,164,000
91	FRANKLIN (H)	MA0102598	6979 BSI Rehab & Replacement with New BS Pump Station	\$22,508,640
90	FAIRHAVEN (PF)(S)	MA0100765	7238 Wastewater Treatment Facility Upgrades Project	\$49,925,850
90	MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	7241 Fort Point Channel CSO BOS062, BOS06, BOS070/DBC	\$7,000,000
90	TAUNTON (PF)(H)	MA0100897	7210 2023 Pump Station Improvements	\$4,000,000
89	FRAMINGHAM (PF)(H)	MA0103284	6999 Worcester Road Sewer Pumping Station Replacement	\$7,830,000
89	MEDFIELD (H)#	MA0100978	7034 Medfield Sewer Infrastructure Rehabilitation	\$1,648,395
88	BOSTON WATER AND SEWER COMMISSION (H)(S)	MAS010001	7012 South Boston Sewer Separation	\$77,521,000

88	NEW BEDFORD (PF)	MA0100781	7054 Wastewater Treatment Plant Improvements	\$16,375,000
88	CHATHAM	GW	7129 WPCF Sludge Processing Upgrades	\$4,750,000
86	BILLERICA (PF)(H)#	MA0101711	6940 Darby and Waterview Avenue Pump Stations	\$2,525,000
85	TYNGSBOROUGH (PF)(H)	MA0100633	7025 Phase 3 Sewer Extension & Sunset Park	\$23,323,000
84	GLOUCESTER (PF)	MA0100625	6990 Riggs Point and Riverdale Park PS Upgrades	\$2,635,000
84	BARRE (PF)#	MA0103152	7117 Barre Wastewater Treatment Facility Upgrades	\$7,236,000
83	HAVERHILL (PF)(H)	MA0101621	6970 Closure of Northern Mound of Haverhill Landfill	\$7,036,912
83	BROCKTON (PF)(H)(RE)	MA0101010	7100 AWRP Solids Management Improvements	\$34,800,000
82	LITTLETON (H)#	TBD	7020 Littleton Sewer System Expansion	\$39,950,000
81	ACTON (H)	GW	7067 Acton MFPB WWTF - New Groundwater Discharge	\$3,820,000
81	ACTON (H)	GW	7191 Acton Great Road Sewer Project	\$20,854,000
80	SALEM (PF)(H)	MA0100501	6992 Ocean Avenue West Pump Station Improvements	\$8,462,000
80	BRAINTREE (PF)	MA0103284	6993 Howard Street Force Main Rehabilitation	\$2,500,000
80	SALEM (PF)(H)	MA0100501	7055 Canal Street Flood Mitigation Project - Phase 2B	\$37,500,000
78	BILLERICA (PF)(H)	MA0101711	6941 Sewer Contracts 37 & 38	\$47,063,503
75	BARNSTABLE (PF)(H)#	GW	6952 Wastewater Pump Station Improvements	\$2,860,000
74	EASTHAMPTON (PF)#	MA0101478	6969 Easthampton Wastewater Pump Station Elimination	\$3,477,000
73	NORTH ANDOVER (H)	MA0100447	7049 Sewer Pump Station Rehabilitation	\$4,245,000
73	GREATER LAWRENCE SANITARY DISTRICT (RE)#	MA0100447	7140 GLSD WWTF Energy System Improvements	\$8,446,000
72	ROCKPORT (PF)	MA0100145	7147 2021 Sewer Rehabilitation Project Subarea 4/4A	\$1,673,000
70	SAUGUS (PF)#	MA0100552	7046 Lynnhurst School Pump Station	\$770,000
68	PALMER (PF)#	MA0101168	7243 Solids Handling Improvements & Roof Replacement	\$4,610,000
65	SOUTHBRIDGE (PF)#	MA0100901	7085 Headworks Upgrades	\$5,860,000
64	AGAWAM (PF)	MA0101613	7033 Drainage Infrastructure Improvements (East)	\$4,223,000
64	FALL RIVER (PF)(H)	MA0100382	7069 Ferry Street Sewer Pump Station Rehabilitation	\$1,342,950
63	METHUEN (PF)(H)	MA0100447	7037 Riverside Drive Sewer Improvements	\$790,000
62	WESTFIELD (PF)	MA0101800	6982 Westfield Administration Building	\$3,194,400
62	SHREWSBURY	MA0100412	7127 Rolfe & Maple Ave PS Upgrade and FM Replacement	\$9,355,000
62	MARION	MA0100030	7133 Creek Road Pump Station Resiliency Improvements	\$2,300,000
61	BARNSTABLE (PF)(H)	GW	6954 Sewer System Rehab/Infiltration and Inflow Removal	\$755,000
61	AGAWAM (PF)	MA0101613	7018 Drainage Infrastructure Improvements (West)	\$4,588,000
60	WINTHROP (PF)#	MA0103284	7061 Sewer System Infiltration Program	\$3,610,740

57	BELCHERTOWN (PF)(H)	MA0102148	6977 Sargent St. to South Main St. Sewer Replacement	\$3,733,000
57	MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	7206 Hayes Pump Station Improvements	\$11,000,000
55	WINTHROP (PF)	MA0103284	6945 Ingleside Park Drainage Improvements	\$12,244,000
54	METHUEN (PF)(H)	MA0100447	7064 Burnham Road Sewer Pump Station Rehabilitation	\$4,800,000
53	QUINCY (PF)(H)	MA0103284	7232 Quincy / Adams Shore Stormwater System Upgrades	\$3,630,000
53	TEWKSBURY (PF)(H)	MA0100633	7032 Sewer Pump Station Upgrades	\$1,075,000
52	LAWRENCE (PF)(H)	MA0100447	7035 Lawrence DPW Yard Flood Mitigation	\$2,200,000
50	ANDOVER (H)	MA0100447	7180 Shawsheen Village Sewer Pump Station Upgrades	\$4,987,500
49	BOSTON WATER AND SEWER COMMISSION (H)	MAS010001	7014 2022 Sewer and Drain Improvements City-Wide	\$31,986,000
49	BOSTON WATER AND SEWER COMMISSION (H)	MAS010001	7136 Rehabilitation of the New Boston Main Interceptor	\$54,153,536
49	SUDBURY (H)	TBD	7139 WWTF & Collection System	\$20,000,000
46	TEWKSBURY (PF)(H)	MA0100633	7105 Bridge Street Culvert Reconstruction	\$2,460,000
45	WINTHROP (PF)	MA0103284	6944 Morton Street Drainage Improvements	\$11,265,000
45	HUDSON (PF)	MA0101788	7235 Hudson Wastewater Pump Station Improvements	\$2,280,000
44	AVON (PF)	TBD	7104 Avon Industrial Park Localized Sewer District	\$14,601,100
44	METHUEN (PF)(H)	MA0100447	7078 Drainage Infrastructure Improvements	\$3,294,000

TOTAL OF NEW PROJECTS
\$1,584,898,935

(Count: 104)

(Average Rating: 87.31)

(BC) - Base Capitalization

(D) - Dropped by Applicant

(H) - Housing Choice Communities

(PF) - Affordability Criteria

(RE) - Potential Renewable Energy Projects

(S) - CWSRF General Supplemental

(W) - Water Infrastructure Finance and Innovation Act (WIFIA)

- Projects contains Energy Efficiency, Renewable Energy and/or meets EPA's definition of a Green Project (<https://www.epa.gov/greeningepa/energy-and-emissions-epa>)

MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS

Applicant	NPDES/PERMIT	SRF ID	Project	Project Cost
MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	4117	Facility Asset Protection	\$48,927,945
MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	4150	DITP Asset Protection Phase 3	\$66,500,000
MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103268	4446	Nut Island HW Odor Control & HVAC - Contract 7548	\$57,565,399
MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	6822	DITP Clarifier #2	\$149,527,777
TOTAL OF MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS				\$322,521,121

(Count: 4)

MassDEP PRIORITY PROJECTS

Applicant	NPDES/PERMIT	SRF ID	Project	Project Cost
COMMUNITY SEPTIC MANAGEMENT	N/A	3850	Community Septic Management Program	\$5,000,000
EMERGENCY SRF SET-A-SIDE	N/A	2977		\$3,000,000
TOTAL OF MassDEP PRIORITY PROJECTS				\$8,000,000

(Count: 2)

PLANNING PROJECTS

Applicant	SRF ID	Project	Project Cost
BOSTON WATER AND SEWER COMMISSION (H)	7063	Sewer and Drain Model Updates and Recalibration	\$2,500,000
CANTON (H)	7230	Massapoag Flood Mitigation - Reservoir Management	\$259,000
CANTON (H)	7231	Green Infrastructure and Flood Mitigation	\$252,000
CONCORD	7190	Integrated Water Resources Plan Phase 2	\$950,000
EDGARTOWN	7244	Edgartown Clean Water Management Planning	\$491,100
FALL RIVER (H)	7016	CSO Facility Treatment Study	\$1,400,000
GREAT BARRINGTON (H)	7116	Collection System CMOM & Asset Management Program	\$400,000
HINGHAM (H)	7142	Stormwater Master Plan	\$500,000
HINSDALE	7108	Collection System CMOM & Asset Management Program	\$192,500
HOOSAC WATER QUALITY DISTRICT	7103	WWTF Facilities Plan & Capital Improvements	\$150,000
NEW BEDFORD	7002	Phase 1 - Sewer System Evaluation Survey Program	\$1,820,000
NEW BEDFORD	7107	Phase 3 Illicit Connection Identification Program	\$1,950,000
PITTSFIELD	7171	Pittsfield IWRMP	\$2,500,000
QUINCY (H)	7234	Sewer and Drainage Infrastructure Investigations	\$200,000
REVERE	7123	Phase 14 Investigations- I/I and IDDE	\$1,200,000
SAUGUS	6971	Sewer Flow Metering & Subsystem Re-Prioritization	\$200,000
SAUGUS	7132	Lincoln Avenue Force Main Evaluation	\$400,000
TOTAL OF PLANNING PROJECTS			\$15,364,600

(Count: 17)

TOTAL OF PROJECT PRIORITY LIST**\$1,930,784,656**

TABLE 4
CLEAN WATER STATE REVOLVING FUND
Calendar Year 2022 CWSRF ASSET MANAGEMENT PLANNING PROJECTS

ASSET MANAGEMENT PLANNING PROJECTS

Rating	Applicant	SRF ID	Project	Project Cost
99	BILLERICA (H)	7198	Billerica Stormwater Asset Management Plan	\$231,750
96	DOUGLAS	7070	Douglas Sewer Asset Management Plan	\$126,500
94*	WINCHENDON	7048	Winchendon Water and Sewer Asset Management Plan	\$125,000
93*	ERVING	7214	Town of Erving 2022 Sewer AMP	\$142,500
86	EDGARTOWN	7233	Edgartown Wastewater Asset Management Plan	\$162,500
85	GREENFIELD	7208	Greenfield Water and Wastewater AMP	\$146,057
85	MASHPEE	7226	Mashpee Stormwater Asset Management Plan	\$100,000
84	ARLINGTON	7219	Arlington Asset Management Plan	\$246,000
83	BOLTON (H)	7188	Bolton Stormwater Asset Management Plan	\$100,000
79	MONTAGUE	7015	Montague Asset Management Project	\$250,000
79	FITCHBURG	7114	Stormwater Asset Management Plan	\$249,994
79*	AVON	7221	Avon Asset Management System Expansion & Upgrades	\$80,115
78	MILLIS	7193	Asset Management Program - Phase 3	\$250,000
77	MARSHFIELD	7148	Marshfield - Stormwater Asset Management	\$260,000
75*	NORTHFIELD	7200	Northfield Wastewater Asset Management Project	\$117,430
74	LONGMEADOW	7007	Longmeadow Stormwater Asset Management Project	\$250,000
70	SOUTH ESSEX SEWERAGE DISTRICT	7110	SESD Asset Management Project FY 2022	\$125,000
70	ACTON (H)	7195	Acton Asset Management Plan	\$211,000
70*	PLAINVILLE (H)	7217	Plainville Asset Management Plan - Phase 2	\$250,000
69	AGAWAM	7205	Agawam Asset Management Plan	\$200,000
68	NORTH BROOKFIELD	7165	Asset Management Plan	\$184,077
53*	RUTLAND (H)	7138	Rutland Asset Management	\$128,750
51	STOW	6967	Stow Culvert Inventory	\$48,000
48	SAUGUS	7137	Utility Network Asset Management Planning	\$250,000
41	METHUEN (H)	7227	Methuen Asset Management Plan	\$200,000
40	WESTMINSTER	7153	Westminster DPW Asset Management Inventory	\$248,015
35*	LUNENBURG	7220	Lunenburg Asset Management Inventory	\$128,005

TOTAL OF ASSET MANAGEMENT PLANNING PROJECT **\$4,810,693**

(Count: 27)

*A Small System **TOTAL OF PROJECT PRIORITY LIST** **\$4,810,693**