



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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September 15, 2022

Andrea Traviglia
Drinking Water Quality and Protection Section
USEPA- Region 1
5 Post Office Square, Suite 100
Mail Code: OEP 06-2
Boston, MA 02109-3912

Subject: Submittal of SFY 2022 –Capacity Development Annual Report (SDWA Section 1420(c)(3))

Dear Ms. Traviglia:

The Massachusetts Department of Environmental Protection (MassDEP) is the agency responsible for administering the provisions of the Safe Drinking Water Act, (the Act) Section 42 U.S.C. § 300g-9 (c)(3). The Act requires MassDEP, the State agency with primacy for the Act, to prepare an annual report showing the progress the agency has made in adopting its Capacity Development Strategy, which is designed to improve the technical, financial and managerial capacity of public water systems in the State.

The attached report fulfills the requirements of the Act by demonstrating that MassDEP has successfully implemented its Capacity Development Strategy and that this initiative has had a direct and positive impact on the quality of drinking water in Massachusetts. A few examples of the work that MassDEP has completed include:

- Registering and evaluating 18 new public water systems (see Appendix B).
- Evaluating 308 public water systems via the sanitary surveys process (see Appendix C).
- Evaluating, categorizing and providing technical assistance and outreach to address the needs of the systems with the 540 technical, financial and managerial “Scheduled Actions” identified during activities such as sanitary surveys, notices of non-compliance, and administrative consent orders (see Appendix D).

If you have any questions, please contact me at yvette.depeiza@mass.gov, Michael Celona (michael.celona@mass.gov), or Michael Maynard (michael.maynard@mass.gov).

Sincerely,

Yvette DePeiza
Director - Drinking Water Program

Massachusetts Department of Environmental Protection

cc: EPA: Andrea Traviglia, Jane Downing, Kevin Reilly, Denise Springborg; MassDEP: Michael Maynard, Michael Celona
Y:DWPARCHIVE\BOSTON\EPA-Capacity-Annual Report-SFY22- Final - Report and Cover Letter

Implementation of the Capacity Development Program

Annual Review of Capacity Program Required by SDWA Section 1420

**Period
(July 1, 2021 - June 30, 2022)**

Massachusetts Department of Environmental Protection
Bureau of Water Resources
Division of Watershed Management
Drinking Water Program

September 2022

EXECUTIVE SUMMARY

The Massachusetts Department of Environmental Protection (MassDEP) is the responsible agency for administering the provisions of the Public Health Service Act (Title XIV) also called the Safe Drinking Water Act (SDWA), Section 42 U.S.C.A. § 300g-9 (c)(3).

Section 2012 of the America's Water Infrastructure Act (AWIA) requires MassDEP to develop and submit an updated Capacity Development Strategy to EPA by December 31, 2021. MassDEP submitted the updated Capacity Development Strategy as required and EPA approved MassDEP's new Capacity Strategy in February 2022.

Section 1420(c)(3) of the SDWA required MassDEP to submit to EPA a report annually stating the progress the agency has made in adopting its capacity development strategy. Attached is the required annual report for the period July 1, 2021- June 30, 2022.

If you have any questions concerning the report please do not hesitate to contact Michael Celona at Michael.Celona@mass.gov or Michael Maynard at Michael.Maynard@mass.gov.

IMPLEMENTATION OF CAPACITY DEVELOPMENT STRATEGY

MassDEP's Capacity Development Strategy focuses on improving the technical, financial, and managerial operations of public water systems in the Commonwealth. Section 1420 of the SDWA requires MassDEP to continuously implement its strategy and annually update EPA concerning progress or changes to the strategy. This report should be considered MassDEP's annual update concerning implementation of the strategy. The implementation of this strategy has contributed to a very effective drinking water program. The following list of accomplishments is indicative of the effectiveness of this program.

MassDEP has the following responses to the EPA Capacity Development reporting requirements for the period July 1, 2021-June 30, 2022:

A. New System Review for Community and Non-Transient Non-Community Systems (as required by SDWA Sec 1420 (c))

- 1. Has the State's legal authority (statutes) to implement the New Systems Program changed within the previous reporting year? **No***
- 2. Has there been any modification to the State control points? **No***
- 3. List of new Community and Non community systems during SFY 2022. See Figure 1 below for a breakdown of the total number of new PWS during SFY 2022. Review and approval of a NSBP and/or successful completion of a sanitary survey are required before a new system can become operational in Massachusetts.*

Figure 1: New Public Water Systems in SFY 2022

Type of Public Water System	Number of Systems
Community Systems	4
Non-Transient Non Community Systems	1
Transient Non Community System	13
Total	18

B. Existing System Review (as required by SDWA Sec 1420 (c))

1. *During the previous year, which programs, tools, and/or activities were used, and how did each assist existing PWS in acquiring and maintaining TFM capacity?*

MassDEP has improved the technical, financial and managerial ability of PWSs by continuing to integrate the components of the strategy into the daily operations of the drinking water program. Some of the program activities that are used include the following:

- a. Sanitary Surveys - MassDEP Drinking Water Program performs sanitary surveys on all public water systems. During the sanitary survey, staff identifies technical, financial and managerial deficiencies and makes recommendations as to how the systems should improve. Staff also has the option of taking enforcement action if the deficiencies have a direct impact on providing a safe and fit supply of water.

The sanitary survey selection process is based on a three-year cycle for community and non-transient non-community systems and a five-year cycle for transient non-community systems. Figure 2 provides the number of sanitary surveys that were completed at PWS during SFY 2022. A list of all of the systems is included in Appendix C.

Figure 2: Sanitary Surveys Completed in SFY 2022

Type of Public Water System	Number of Completed Surveys
Community Systems	157
Non-Transient Non-Community Systems	114
Transient Non-Community System	37
Total	308

MassDEP Regional Drinking Water Program Chiefs also have the authority to prioritize systems based on public health protection, emergency need or regional prioritization. The prioritization of systems is based on an evaluation of the technical, financial and/or managerial capability of the system.

- b. State Revolving Loan Funds (SRF) Priority Systems

As required by Section 1452(a)(3) of the SDWA, prior to receiving SRF money, systems must demonstrate that they have sufficient technical, financial and managerial capacity or they must demonstrate that the use of the SRF funds will result in the system developing technical, financial and managerial capacity. The MassDEP Drinking Water Program reviews all systems seeking

SRF funding to determine their need for technical, financial and managerial assistance and makes the required capacity recommendations regarding their participation in the SRF program.

- c. Training and Technical Assistance - MassDEP continued to offer a variety of training opportunities for operators and those interested in the field as well as technical assistance for operators. Efforts included: worked with and often provided subject experts to technical assistance providers to conduct trainings for PWS: Massachusetts Rural Water Association, RCAP Solutions, EPA Environmental Finance Center and other drinking water and public health associations.
 - i. Training and Technical Assistance Providers – Worked with and often provided subject experts to technical assistance providers to conduct trainings for PWS: Massachusetts Rural Water Association, RCAP Solutions, EPA Environmental Finance Center and other drinking water and public health associations.
 - ii. YouTube training videos - Staff continue to develop training videos on a variety of topics including Lead in Schools and Daycares and PFAS sampling. Also available are previous videos including RTCR, LCR, lead in drinking water at schools and childcare facilities, and Source Water Protection. They are posted on MassDEP’s YouTube page at <https://www.youtube.com/channel/UCswijd-Vuwa0jMR4EroSm8w>
 - iii. Operator Certification - The Operator Certification program involves activities related to the licensing and continuing education of water treatment and distribution operators. The training provided to certified operators by technical assistance providers noted above supported technical, financial and managerial operations of public water systems.
 - iv. Wellhead Protection Program – MassDEP Drinking Water Program staff provided technical assistance to water supply systems for wellhead and source protection compliance.
 - v. Planning - MassDEP continued to promote planning for public water systems.
 - vi. In addition MassDEP continued to promote and identify training opportunities and tools to support the following program elements to improve the technical, financial and managerial capacity of public water systems. Training opportunities included:
 - Opening & Closing your PWS
 - Lead and Copper Rule Revisions

- Asset Management
- Cybersecurity
- Operator Certification
- Rate Setting
- PFAS- Emerging Contaminants
- Lead in Drinking Water in Schools and Childcare Facilities

Specific Tools Used:

- Weekly Distribution of the Program Director emails
- Bi-weekly distribution of the *In the Main* e-newsletter
- Centralized email hub for PWS to contact the program
- Board of Health & state / local agency referrals
- Use of MassDEP DWP website to distribute program updates
- Use of MassDEP YouTube Channel to broadcast technical meetings
- Monthly/quarterly conference calls with PWS during and after the COVID-19 emergency
- Attendance and participation in trainings and workshops
- Outreach, training, and technical assistance to address Sanitary Survey scheduled actions
- Continued discussions and development of joint programs with agencies that can directly affect water quality, including the Department of Public Health, the Board of Certification of Plumbers, the Department of Agricultural Resources, Well Drillers, and Board of Building Regulations and Standards
- DWP online training calendar located at:
<https://www.mass.gov/service-details/trainings-for-public-water-system-operators>

2. *Based on the existing system strategy, how has the State continued to identify systems in need of capacity development assistance?*

The state has continued to identify systems in need of capacity assistance via the sanitary survey process, partnerships with technical assistance providers, staff's routine review of system data (database/desk audits), and daily interaction with the public water systems.

Sanitary Surveys:

During the 2022 SFY, MassDEP Drinking Water Program used the sanitary survey process to identify systems in need of capacity development assistance. The Drinking Water Program completed 308 sanitary surveys. See list in Appendix C. While conducting sanitary surveys and completing Notice of Non-Compliance and Administrative Consent Orders, MassDEP field staff identified 540 technical, financial and managerial "Scheduled Actions". PWS are required to address these deficiencies during an agreed upon time frame or face the possibility of progressive

enforcement and penalties. Examples of scheduled actions are provided in Appendix D.

Enforcement Targeting Tool (ETT):

MassDEP also used the ETT to identify systems that were in need of specific capacity assistance. Systems that were noted as repeat violators with eleven (11) or more points were targeted for capacity evaluation and action if needed.

3. *Has the state performed a review of the existing system strategy during the previous year, discuss the review and how findings have been or may be addressed?* **Yes**

The MassDEP continues to review the existing system strategy and make improvements. In an effort to promote technical, financial and managerial capacity, during this past year, the drinking water staff updated sanitary survey questions, developed a list of financial and managerial “Recommended/Corrective Actions” and provided training materials to staff. The Recommended/Corrective Actions list is used by the DWP staff during sanitary survey write-up, enforcement actions or as a tool for technical assistance. See Appendix D for the List of Capacity Recommended/Corrective Actions.

4. *Did the State make any modifications to the existing system strategy?* **Yes**

The strategy was modified and USEPA approved the new strategy in February 2022. The modifications included the formal addition of asset management to the strategy.

CONCLUSION

MassDEP is continuing to implement its Capacity Development Strategy. Continuing under the newly revised strategy, MassDEP continues to track and evaluate public water systems that have received technical assistance through education, training, and outreach in order to establish a historical baseline of information. By tracking and establishing a baseline, MassDEP is able to demonstrate that the Capacity Strategy continues to promote the public health and the general welfare of the consumers of public drinking water in the Commonwealth.

This report fulfills the requirements of section 1420(c)(3) of the SDWA by demonstrating that MassDEP has successfully implemented its Capacity Development Strategy and that this initiative has had a direct and positive impact on the quality and quantity of drinking water in Massachusetts. MassDEP believes that as a direct result of the technical and compliance assistance, education and outreach programs associated with the Capacity Development Strategy and provided by the MassDEP, the public water systems in Massachusetts have improved their technical, financial and managerial operations and their consumers/customers are drinking water that consistently meets all required federal and state standards. Specifically, Massachusetts exceeds the National GPRA Target for GPRA-Community Systems (87%) and is slightly below the National GPRA Target for GPRA-Population Population (92%) (see Appendix E). The statistics indicate that 96.3% of GRPA-community systems provide, and 90.5% of Massachusetts population served by CWSs receive, drinking water that meets all applicable health based drinking water standards through approaches including effective treatment & source water protection.

The GPRA statistics are calculated each quarter using the most recent 4 quarters of health-based compliance information in SDWISFED for community systems.

APPENDIX A GLOSSARY OF TERMS AND ACRONYMS USED IN THIS REPORT

- Capacity:** Refers to the capabilities required of a public water system in order to achieve and maintain compliance with the drinking water rules. It has three elements:
- Technical:** Technical capacity or capability means that the water system meets standards of engineering and structural integrity necessary to serve customer needs. Technically capable water systems are constructed, operated, and maintained according to accepted quality standards.
- Financial:** Financial capacity or capability means that the water system can raise and properly manage the money it needs to operate efficiently over the long term.
- Managerial:** Managerial capacity or capability means that the water system's management structure is capable of providing proper stewardship of the system. Governing boards or authorities are actively involved in oversight of system operations.
- MassDEP:** The Massachusetts Department of Environmental Protection. This agency is responsible for administering the drinking water rules in our state.
- DWSRF:** The Drinking Water State Revolving Loan Fund. Congress authorized this fund in 1996. In Massachusetts, MassDEP administers the DWSRF.
- EPA:** Environmental Protection Agency. This federal agency oversees state programs, sets MCLs and provides technical assistance. EPA determines when a state's capacity development program is in compliance with the Safe Drinking Water Act.
- MCL:** Maximum Containment Level. This is the maximum allowable level for a given drinking water contaminant.
- PWS:** Public Water System as defined in the Safe Drinking Water Act.
- SDWA:** The Safe Drinking Water Act passed by the US Congress in 1974 and amended in 1986 and 1996.
- TFM:** Technical, financial, and managerial. The abbreviation is used to save space in the report and avoid frequent repetition of these terms.

APPENDIX B
SFY 2022
New Community (COM), Non-Transient Non-Community (NTNC), and
Transient Non-Community (TNC) Public Water Systems Registered

PWSID	PWS NAME	CLASS
1066008	CATAMOUNT SPORTSMENS CLUB	NC
1091016	FLIS MARKET	NC
1214005	MINERAL HILLS WINERY/GODARD RED HEN FARM	NC
1217007	THE BREWERY AT FOUR STAR FARMS	NC
1263010	SAVOY HOLLOW GENERAL STORE	NC
2028022	HIGHLAND RIDGE CONDOMINIUMS	COM
2037038	ENCLAVE AT BOXBOROUGH	COM
2125025	PINE HILL VILLAGE	COM
2125026	CRAFTSMAN VILLAGE CONDOMINIUMS	COM
2125027	HARVARD LANES	NC
2212002	CHURCH OF LATTER DAY SAINTS	NC
3184017	FRESH WATER DAILY	NC
4133003	BLUEDROP WATER @ BROOKVILE CHURCH	NC
4211003	BLUEDROP WATER @ NORTH ATTLEBOROUGH DPW	NC
4244003	BLUEDROP WATER @ RANDOLPH DPW	NC
4292004	BEST ICE VENDING	NC
4334094	WESTPORT SCHOOLS COMPLEX	NTNC
4336008	ROCKY MOUNTAIN SPRING WATER VENDING	NC

APPENDIX C
List of 308 Sanitary Survey Inspections Completed during the Reporting Period
July 1, 2021 – June 30, 2022

PWSID	PWS NAME	CLASS
1004000	ADAMS FIRE DISTRICT	COM
1008000	AMHERST DPW WATER DIVISION	COM
1043002	BRIMFIELD HOUSING AUTHORITY	COM
1053033	122 MAIN STREET	COM
1058000	CHESHIRE WATER DEPT	COM
1070000	DALTON FIRE DISTRICT	COM
1074001	SOUTH DEERFIELD WATER SUPPLY DISTRICT	COM
1106002	NORTHFIELD MT HERMON SCHOOL	COM
1111001	THE MACDUFFIE SCHOOL	COM
1111002	GRANBY HOUSING AUTHORITY	COM
1113017	BARD COLLEGE AT SIMONS ROCK	COM
1120002	HAMPDEN HOUSING AUTHORITY	COM
1121011	BEAVER POND MEADOWS	COM
1132008	ASHMERE WATER SERVICE	COM
1132009	BISSELVILLE ESTATE	COM
1148000	LANESBOROUGH FIRE AND WATER DISTRICT	COM
1148001	BERKSHIRE VILLAGE COOPERATIVE	COM
1148008	GREYLOCK ESTATES HOMEOWNERS ASSOCIATION	COM
1193000	MONTEREY WATER COMPANY	COM
1193003	GOULD FARM	COM
1203000	MILL RIVER WATER TAKERS ASSOCIATION	COM
1279000	SOUTHWICK WATER DEPT	COM
1283003	STOCKBRIDGE WATER DEPT	COM
1289001	CLIFFSIDE APARTMENTS	COM
1289002	POND RIDGE CONDO ASSN	COM
1311001	WEST WARREN WATER DISTRICT	COM
2002000	ACTON WATER SUPPLY DISTRICT	COM
2002010	PINE HILL CONDOMINIUM	COM
2011000	ASHBURNHAM WATER DEPARTMENT	COM
2011004	ASH/WIN JOINT WATER AUTHORITY	COM
2019000	AYER DPW WATER DIVISION	COM
2019001	DEVENS MASSDEVELOPMENT	COM

2028012	MEADOWBROOK VILLAGE CONDOMINIUMS	COM
2028017	SAWYER HILL ECOVILLAGE	COM
2032000	BLACKSTONE WATER DEPARTMENT	COM
2034028	SUNSET RIDGE CONDOMINIUMS	COM
2034031	CENTURY MILL ESTATES	COM
2037013	APPLEWOOD COMMUNITY CORPORATION	COM
2037014	LIBERTY HOUSE CONDOMINIUM	COM
2045004	WAGON WHEEL COMMUNITY, INC.	COM
2054005	CHARLTON MANOR REST HOME	COM
2054040	WOODLAND WALK APARTMENTS	COM
2077000	DOUGLAS WATER DEPARTMENT	COM
2084000	EAST BROOKFIELD WATER DEPARTMENT	COM
2101000	FRANKLIN WATER DEPARTMENT	COM
2110004	COUNTRYSIDE CONDOMINIUM	COM
2115001	WEST GROTON WATER SUPPLY DISTRICT	COM
2115009	STILL MEADOW	COM
2125014	HARVARD GREEN CONDOMINIUMS	COM
2134000	HOLDEN WATER DIVISION, DPW	COM
2138000	HOPEDALE WATER DEPARTMENT	COM
2139000	HOPKINTON WATER DEPARTMENT	COM
2140013	BRIARWOOD TOWNHOMES	COM
2141000	HUDSON WATER SUPPLY	COM
2147008	LANCASTER WOODS CONDOMINIUMS	COM
2151000	LEICESTER WATER SUPPLY DISTRICT	COM
2151002	HILLCREST WATER DISTRICT	COM
2170000	MARLBOROUGH DPW WATER DIV. (MWRA)	COM
2177000	MEDWAY WATER DEPARTMENT	COM
2186000	AQUARION WATER COMPANY, MILLBURY	COM
2212000	NORTH BROOKFIELD WATER DEPARTMENT	COM
2215000	NORTHBOROUGH WATER DEPARTMENT (MWRA)	COM
2226000	AQUARION WATER COMPANY OXFORD	COM
2226011	PINEWOOD ON THE GREEN CONDOS	COM
2232000	PEPPERELL DPW WATER DIVISION	COM
2257003	COOL SANDY BEACH COMMUNITY WATER SYSTEM	COM
2278000	SOUTHBRIDGE WATER DEPARTMENT	COM

2280002	SAINT JOSEPHS ABBEY	COM
2282000	STERLING WATER DEPARTMENT	COM
2286000	JUNIPER HILL WATER COMPANY	COM
2286012	THE MEETING HOUSE @ STOW CONDO	COM
2286033	REGENCY AT STOW CONDOMINIUMS	COM
2287000	STURBRIDGE WATER DEPARTMENT	COM
2287020	STURBRIDGE RETIREMENT COOP. CORP.	COM
2287025	STURBRIDGE CROSSING CONDOMINIUM	COM
2303000	UPTON DPW WATER/WASTEWATER DIVISION	COM
2303004	ROCKWOOD MEADOWS	COM
2316000	WEBSTER WATER DEPARTMENT	COM
2332001	HOLMES PARK WATER DISTRICT	COM
2343000	WINCHENDON WATER DEPARTMENT	COM
3014000	ASHLAND WATER AND SEWER DEPT.	COM
3030001	SALEM AND BEVERLY WATER SUPPLY BOARD	COM
3038020	ANDREWS FARM WATER CO.,INC.	COM
3056000	CHELMSFORD WATER DISTRICT	COM
3067000	CONCORD WATER DEPT	COM
3071000	DANVERS WATER DEPT.	COM
3078002	GLEN RIDGE RESIDENTS TRUST	COM
3078008	AQUARION WATER CO. (SPRINGDALE FARMS)	COM
3092000	ESSEX WATER DEPT.	COM
3100000	FRAMINGHAM WATER DEPT. (MWRA)	COM
3119000	HAMILTON WATER DEPT	COM
3144000	IPSWICH DPU WATER DEPT	COM
3157000	LINCOLN WATER DEPT	COM
3165000	MALDEN WATER DIVISION (MWRA)	COM
3168000	MARBLEHEAD WATER DEPT. (MWRA)	COM
3180000	MERRIMAC WATER DEPARTMENT	COM
3184000	MIDDLETON WATER DEPT.	COM
3199000	NEEDHAM WATER DEPT	COM
3206000	NEWBURYPORT WATER DEPARTMENT	COM
3248000	REVERE WATER DIVISION (MWRA)	COM
3252000	ROCKPORT WATER DEPT	COM
3254000	ROWLEY WATER DEPARTMENT	COM
3295001	TEWKSBURY HOSPITAL	COM
3298002	EAGLE TOR TRUST	COM
3301000	TYNGSBOROUGH WATER DISTRICT	COM
3315000	WAYLAND WATER DEPARTMENT	COM

3317000	WELLESLEY WATER DIVISION	COM
3344000	WINCHESTER WATER DEPT	COM
3347000	WOBURN WATER DEPT.	COM
4001000	ABINGTON/ROCKLAND JOINT WTR. WORKS	COM
4003000	ACUSHNET WATER DEPARTMENT	COM
4016000	ATTLEBORO WATER DEPT	COM
4020003	COTUIT FIRE DISTRICT WATER DEPARTMENT	COM
4020004	HYANNIS WATER SYSTEM, TOWN OF BARNSTABLE	COM
4036002	NORTH SAGAMORE WATER DISTRICT	COM
4052025	PINETREE VILLAGE	COM
4052026	CRANBERRY VILLAGE INC	COM
4052044	WATERVIEW PARK LLC	COM
4052054	MEADOW WOODS MOBILE HOME PARK	COM
4052061	CARVER MUNICIPAL BUILDINGS	COM
4052069	TOWNHOUSES AT CHANCE COURT	COM
4062000	MENEMSHA WATER COMPANY	COM
4072000	DARTMOUTH WATER DIVISION	COM
4075000	DENNIS WATER DISTRICT	COM
4076000	DIGHTON WATER DISTRICT	COM
4076002	NORTH DIGHTON FIRE DISTRICT	COM
4082000	DUXBURY WATER DEPARTMENT	COM
4083000	EAST BRIDGEWATER WATER DEPT	COM
4089000	EDGARTOWN WATER DEPARTMENT	COM
4099000	FOXBORO WATER DEPARTMENT	COM
4102035	FREETOWN WATER COMMISSION	COM
4122000	HANOVER WATER DEPT	COM
4131000	WEIR RIVER WATER SYSTEM	COM
4145006	PROVIDENCE HOUSE	COM
4146004	LAKE POINT VILLAGE	COM
4169000	MARION WATER DIVISION	COM
4182015	NEMASKET HEALTH CARE CENTER	COM
4211000	NORTH ATTLEBORO WATER DEPT	COM
4219000	NORWELL WATER DEPARTMENT	COM
4220000	NORWOOD WATER DEPT. (MWRA)	COM
4221000	OAK BLUFFS WATER DISTRICT	COM
4231000	PEMBROKE WATER DIVISION DPW	COM
4238000	PLAINVILLE WATER DEPARTMENT	COM
4239000	PLYMOUTH WATER DEPARTMENT	COM
4239010	MCI PLYMOUTH	COM
4239045	AQUARION WATER COMPANY	COM

4247061	THE RESERVE AT SPRING HILL	COM
4261024	UPPER CAPE REGIONAL WATER COOPERATIVE	COM
4273000	SOMERSET WATER DEPARTMENT	COM
4296017	SCOTTS GROVE LLC	COM
4310000	WAREHAM FIRE DISTRICT	COM
4318091	PLEASANT WATER	COM
4318107	WELLFLEET APARTMENTS	COM
4334078	MAYNARD STATE LLC	COM
4336000	WEYMOUTH WATER DEPARTMENT	COM
4350001	WRENTHAM DEVELOPMENTAL CENTER	COM
1013004	DOUBLE EDGE THEATRE	NC
1022006	CAMP WATITOH	NC
1069007	GREENWOOD MUSIC CAMP	NC
1074002	WOOLMAN HILL	NC
1090008	GUILDER HILLS HOMEOWNERS ASSOCIATION	NC
1091003	DCR ERVING STATE FOREST	NC
1108008	4H CAMP HOWE INC	NC
1108014	HAMMOND ACRES WATER CORP	NC
1111036	DUFRESNE RECREATIONAL AREA	NC
1112002	DCR GRANVILLE STATE FOREST	NC
1117006	DCR SKINNER STATE PARK	NC
1132006	CAMP TACONIC	NC
1132011	BERKSHIRE LAKE CAMP	NC
1135013	HOLLAND SENIOR CENTER	NC
1143007	DCR C M GARDNER STATE FOREST	NC
1143011	KNIGHTVILLE DAM WATER SYSTEM	NC
1148016	MT GREYLOCK CAMPSITE PARK LLC	NC
1152010	PLEASANT VALLEY WILDLIFE SANCTUARY	NC
1154000	LEVERETT VILLAGE CO OP	NC
1191001	PARTRIDGE HOLLOW CAMPING	NC
1191004	SUNSETVIEW FARM CAMPING AREA	NC
1193019	KSA MASS LLC	NC
1193022	ROADSIDE STORE	NC
1194002	MONTGOMERY TOWN BUILDINGS	NC
1195001	YMCA CAMP HI ROCK	NC
1200007	NEW ASHFORD MOTOR INN	NC
1203009	CAMP WA WA SEGOWEA	NC
1209001	HISTORIC VALLEY CAMPGROUND	NC
1225003	LAUREL RIDGE CAMPING AREA	NC

1225012	BERKSHIRE SPORTS ACADEMY	NC
1225014	MOUNTAIN VIEW CAMPGROUND INC	NC
1225022	DCR TOLLAND STATE FOREST	NC
1225034	OTIS POULTRY FARM INC	NC
1225045	OTIS WOODLANDS CLUB INC	NC
1227018	RONDEAUS DAIRY BAR	NC
1227019	RUSSOS SEAFOOD AND STEAK HOUSE	NC
1233002	CAMP DANBEE	NC
1236016	DCR BERKSHIRE REGIONAL HQ	NC
1237005	PUB 116	NC
1249013	HILLTOP ORCHARD AND FURNACE BROOK WINERY	NC
1256002	H A MOSES SCOUT RESERVATION	NC
1268017	HAGERS FARM MARKET	NC
1272003	CAMP ANDERSON FOUNDATION	NC
1283010	CAMP MAH KEE NAC	NC
1297006	CAMP KINDERLAND	NC
1297007	FRIENDS OF DANCE NEW ENGLAND	NC
1319001	DCR WENDELL STATE FOREST	NC
1339004	FRANKIE BS INC	NC
1341009	WAUBEEKA GOLF LINKS LLC	NC
1349006	WORTHINGTON GOLF LINKS	NC
2034012	626 MAIN STREET	NC
2054027	DADS RESTAURANT	NC
2054035	RONNIES SEAFOOD INC.	NC
2077005	LAKE MANCHAUG CAMPING	NC
2125010	HARVARD PLAZA	NC
2179007	NEW ENGLAND STEAK AND SEAFOOD	NC
2179021	DUNKIN DONUTS MENDON	NC
2222003	LAKE DEAN CAMPGROUND	NC
2241010	DCR WACHUSETT MT STATE RESERVATION	NC
2280006	BLACK AND WHITE GRILLE PIZZERIA	NC
2286032	HONEY POT HILL ORCHARDS	NC
2287010	STURBRIDGE CAMPGROUND	NC
2290022	YMCA CAMP BLANCHARD	NC
3038012	FAR CORNER FARM GOLF COURSE INC.	NC
3092003	ESSEX MEETING AND RETREAT CENTER, LLC	NC
3160005	HERITAGE FARMS ICE CREAM	NC
3301047	VILLAGE CROSSING	NC
4001002	ROCKY MOUNTAIN SPRING WATER	NC
4052010	PINE WOOD WAY CAMPING AREA LLC	NC

4052014	CRANBERRYACRES JELLYSTONE PARK	NC
4052063	COUNTRY JUNCTION PLAZA	NC
4062001	MENEMSHA INN	NC
4082001	CAMP WING DUXBURY STOCKADE	NC
4086005	SHERATON FOUR POINTS	NC
4086053	STARFISH CONDOMINIUM TRUST	NC
4096004	CAPE COD COUNTRY CLUB	NC
4102010	CAMP WELCH, THOMAS CHEW MEMORIAL	NC
4102034	FORGE POND CAMPGROUND INC	NC
4102036	DCR FREETOWN STATE FOREST	NC
4133003	BLUEDROP WATER @ BROOKVILE CHURCH	NC
4146011	LAKEVILLE GOLF CLUB	NC
4146012	ROYAL PIZZA (BT REALTY TRUST)	NC
4146017	POQUOY BROOK GOLF COURSE	NC
4146020	THE BACK NINE CLUB	NC
4146028	J AND J SEAFOOD	NC
4146043	COUNTY LAKE PROPERTIES	NC
4172043	SEA MIST RESORT	NC
4239006	PINEWOOD LODGE	NC
4239007	INDIANHEAD RESORT	NC
4239011	ELLIS HAVEN	NC
4239012	BLUEBERRY HILL CAMPGROUND	NC
4239013	HEDGES POND RECREATIONAL AREA	NC
4239031	CAMP SQUANTO, BOY SCOUTS OF AMERICA	NC
4239034	WIND IN THE PINES	NC
4239054	ROCKY MOUNTAIN SPRING WATER VENDING	NC
4239056	CROSSWINDS GOLF CLUB	NC
4240003	PLYMPTON PLAZA	NC
4240006	HARVEST FARM SPRINGS PUBLIC WATER SUPPLY	NC
4244002	ROCKY MT.SPRG.WTR (RANDOLPH) VND	NC
4244003	BLUEDROP WATER @ RANDOLPH DPW	NC
4247025	CHRISTIAN LIFE CHURCH	NC
4247041	PLAZA PIZZA	NC
4247043	CUMBERLAND FARMS #2314	NC
4247051	CAMP RAMSBOTTOM	NC
4247053	JOHNSON AND WALES EQUESTRIAN CENTER	NC
4261020	SANDWICH TOWN HALL SPRING	NC

4265001	SEEKONK SWIMMING AND TENNIS CLUB	NC
4292004	BEST ICE VENDING	NC
4293006	ROCKY MOUNTAIN SPRING WATER VENDING	NC
4293010	PRIMO WATER VENDING UNIT TAUNTON	NC
4318011	OCEAN PINES CONDOMINIUMS	NC
4318119	WELLFLEET COMMERCE CENTER, LLC	NC
4334024	TEN COUSINS	NC
4334042	COMPTON CLAMBAKES, LLC	NC
4334089	PARTNERS VILLAGE STORE	NC
4336008	ROCKY MOUNTAIN SPRING WATER VENDING	NC
1120008	GREATHORSE COUNTRY CLUB	NTNC
1120022	2 ALLEN ST PROFESSIONAL BLDG	NTNC
1143003	GATEWAY REGIONAL SCHOOL	NTNC
1253007	ROWE ELEMENTARY SCHOOL	NTNC
1263003	SAVOY ELEMENTARY SCHOOL	NTNC
2017012	MONTESSORI CENTER, INC.	NTNC
2037008	BOXBOROUGH REGENCY	NTNC
2054029	LFB USA, INC.	NTNC
2054075	LFB USA 92 (RABBIT)	NTNC
2080003	WEBCO CHEMICAL CORPORATION	NTNC
2110003	TOUCHSTONE COMMUNITY SCHOOL	NTNC
2139001	METROWEST YMCA	NTNC
2147005	UNIFIED 2 PACKAGING GROUP	NTNC
2222004	OAKHAM COUNTRY DAY SCHOOL	NTNC
2286003	STOW SHOPPING CENTER	NTNC
2290009	SUTTON PUBLIC SCHOOLS	NTNC
3205021	RUPP REALTY TRUST	NTNC
3301030	BUSINESS PARK WEST CONDOMINIUM TRUST	NTNC
4003009	LITTLE PEOPLES COLLEGE	NTNC
4027001	BERKLEY MIDDLE SCHOOL/TOWN OFFICES	NTNC
4042003	STILES AND HART BRICK COMPANY	NTNC
4044013	V A BOSTON HEALTHCARE SYSTEM BROCKTON	NTNC
4052007	CARVER ELEMENTARY SCHOOL	NTNC
4052056	MARKETPLACE SQUARE LLC.	NTNC
4052064	CARVER HIGH SCHOOL AND MIDDLE SCHOOL	NTNC
4062008	CHILMARK SCHOOL	NTNC

4145007	SACRED HEART EARLY CHILDHOOD CENTER	NTNC
4239003	THE NEW TESTAMENT CHURCH	NTNC
4239030	THE HOME FOR LITTLE WANDERERS	NTNC
4240004	DENNETT ELEMENTARY SCHOOL	NTNC
4240007	FIRST CONGREGATIONAL CHURCH	NTNC
4250002	ROCHESTER MEMORIAL SCHOOL	NTNC
4250007	SEMASS RESOURCE RECOVERY FACILITY	NTNC
4261004	YMCA CAMP LYNDON	NTNC
4296004	MARTHAS VINEYARD AIRPORT	NTNC
4334001	WESTPORT HARBOR WATER ASSOCIATION INC	NTNC

APPENDIX D
Capacity Issues Identified as Scheduled Actions

Number and Type of Capacity Issues Identified as Scheduled Actions SFY 2018 – 2022					
Capacity Issues	SFY 2018	SFY 2019	SFY 2020	SFY 2021	SFY 2022
Documentation Submittal	640	779	280	239	215
Public Notification	0	3	4	3	7
Planning	284	328	70	46	67
Collect Samples	23	62	2	5	8
Installation	156	133	62	26	39
Well/Source Issue	180	243	58	33	23
Emergency/ERP	62	98	39	64	38
Treatment/ Distribution	71	124	32	132	26
Meter	49	50	12	14	3
Staffing Plan	32	38	21	26	9
Maintenance Plan/ Program	38	35	3	62	60
Distribution Maps	33	20	21	12	4
Storage/Tanks	229	72	24	75	40
Total Scheduled Actions	1,885	1,985	628	737	540

Examples of Documentation Submittal Scheduled Actions

COMPLETE AND SUBMIT DOC SHOWING COMPLETED XCONN	AVERAGE PH ON C-ADD FORMS
BRP WS29 FOR CL AT HIGHLAND BOOSTER STATION	COMPLETE & SUBMIT RTCR
CORRECTIONS TO FORM G	DOCUMENT CHEMICAL FEED COMPLIANCE
DOCUMENT PEAK FLOW WELL 03G	FILL OUT C-ADD FORM FOR WELL 2 CORRECTLY
IN ASR REPORT FLOW FROM EACH SOURCE	INSPECT NAWTP CLEARWELL SUBMIT PLAN TO ADDRESS CRACKS
PREP, IMPLEMENT, PROVIDE SCHED TO ADDRESS PH HUMIDITY/VENT	PREPARE UV-A FORM EACH MO, SUBMIT DEC LOG & 10TH OF EA MO.
PROVIDE 02G METER INSTALL DATE & RESUBMIT '20 ASR RDGS	PROVIDE DOCUMENTATION OF TURBIDIMETER CALIBRATION
PROVIDE PLAN FOR COLLECTING SAMPLES AT STORAGE TANK	PROVIDE UPDATE ON CHEMICAL SAFETY UPGRADES
RECORD PH ON EAST ST GWR FORMS	PROVIDE WRITTEN PLAN TO ENSURE OPERATOR INSPECTS WELLS EA MO
RECORD CHLORINE ADDED TO TANKS ON CADD FORM	REPORT BOTH GRAB & ANALYZER SAMPLES ON C-ADD AND LOG BOOK

Examples of Installation Scheduled Actions

INSTALL ANTI-SIPHON ON ALL CHEMICAL FEEDS	INSTALL ANTI-SIPHON ON NACLO PUMP
INSTALL BACK FLOW PREVENTION DEVICE AT DISTRIBUTION LINE	INSTALL EMERG CHEM INJECT PORT FOR 01G SUBMIT PHOTO (SD-6)
INSTALL FLOOD ALARM IN MASON ST BS PIPE GALLEY	INSTALL HBVB ON ALL THREADED FAUCETS
INSTALL HBVBS ON THREADED TAPS	INSTALL HOA SWITCHES ON ALL CHEMICAL PUMPS
INSTALL HOSE BIB ON HYDRO TANK	INSTALL HOSE BIBS ON ALL OUTSIDE FAUCETS
INSTALL HYDRANT AND DEVELOP FLUSHING PLAN	INSTALL KOH DAY TANK AT ALL WELLS
INSTALL LEVEL ALARMS ON TANKS	INSTALL LIGHT SWITCH AWAY FROM 02G TANK SUBMIT PHOTO (SD-20)
INSTALL LOCK ON HATCH SECURING TANKS AND SAMPLE TAPS	INSTALL NEW PRES GAUGE ON HYDRO TANK
INSTALL OVERFLOW ON STORAGE TANK	INSTALL SAMPLE TAP FOR TANK

Examples of Well/Source Scheduled Actions

CONFIRM ADEQUATE SEAL ON CLEARWELL HATCH	CONFIRM CLEARWELL HATCHES ARE SEALED
FIX FENCE AT CHESTNUT WELL 2	INSPECT WELL PENETRATIONS
MOVE ENROACHING NEIGHBOR MATERIALS OUT OF ZONE 1	PAINT WELL 03G CASING AND SUBMIT DOCUMENTATION
PROVIDE SCHEDULE FOR CLEARWELL RECOMMENDATIONS	PROPERLY ABANDON UNUSED WELL(S) & SUBMIT BRP WS 36
REGRADE AT WELLHEAD TO AVOID POOLING	REHAB WELL #2 PUMPING STATION
REMOVE DEBRIS FROM ZONE I	REMOVE GAS AND EQUIPMENT FROM ZONE I
REMOVE GROWTH FROM WELL 3 DRAINAGE BASIN	REMOVE PORTAPOTTYS FROM 02G ZONE I SUBMIT PHOTO
REPAIR WELL 4 WELL HOUSE	REPLACE WELL CAP (SD-1)
REVEAL WELLHEAD FOR INSPECTION, FUTURE INSPECTION- DRAINAGE	SEND SUMP TO REGISTERED UIC OUTSIDE ZONE I AND SUBMIT DOC
SET WELL 01G AT 250 GPM SO WON'T OVERPUMP	REMOVE PICNIC TABLES FROM ZONE I

Examples of Treatment/Distribution Scheduled Actions

ALT PROTECT SUMP FROM CHEMICAL LINE AND QUILL IN VAULT	CLARIFY USE OF PIPE IN TANK FACIA
COMPLETE TREATMENT SYSTEM MODIFICATIONS	CONTAINMENT FOR TSPP DAY TANK
CUT AND CAP OLD TREATMENT SYSTEM PIPING	DIG TRENCH UNDER JERSEY STREET OVERFLOW
EVALUATE 2900-GAL HYDROPNEUMATIC TANK	FIX LEAKING PUMPS AT WAMPUS BOOSTER STATION
INSPECT AIR RELIEF VALVE DISCHARGES	INSPECT ATMOSPHERIC TANK
INSPECT HFSA PIPE IN CONTAINMENT AREA AND CORRECT	MAINTAIN SECONDARY STD PH 6.5-8.5
REMOVE LEAVES FROM PERIMETER PIT BEFORE DRAIN	SAWTP FINAL FINAL CHEMICAL INTERLOCK FLOW PACING
CEASE BACKWASH OF RSC UNITS	PROPERLY SCREEN PUMP VENTS
RECORD ALL MAINT ACTIVITIES OF AS TREATMENT	RAISE PT TANK SAMPLE TAP
INSTITUTE CHLORINE LEVEL ALARM AT MAYFLOWER2 STATION	INSPECT HFSA PIPE IN CONTAINMENT AREA AND CORRECT

Examples of Sample Collection Scheduled Actions	
ACCESS AND INSPECT PRIVATE HOME PT	COLLECT ANNUAL SAMPLE AFTER FILTER ON BW LINE-& IN 30 DAYS
MOVE RW SAMPLE TAP	MPA TESTING FALL RW03G, RW02G, RW06G, RW04G
PERFORM MPA TESTING EAST AND WEST WELLS	CHECK VALVE SHOULD BE INSTALLED IF NOT SUBMIT SAMPLE SOP

Examples of Emergency/ERP Scheduled Actions	
UPDATE EMERGENCY CONTACT LIST, POST AND SUBMIT TO DEP	AMEND CONTRACT WITH OPERATORS TO INCLUDE ER TRAINING
CONDUCT AND DOCUMENT ER TRAINING	CONDUCT ANNUAL EMERGENCY RESPONSE TRAINING
CREATE WRITTEN ALARM TESTING PROCEDURE	DEVELOP ER PLAN & TRAINING
DEVELOP SOPS FOR ALARM TESTING	EMERGENCY EYEWASH AND SHOWER
ERP TRAINING COMPLETED	PREPARE & MAINTAIN WRITTEN ALARM TESTING PROCEDURE
PREPARE A PLAN SO THAT THE HIGH CL ALARM SHUTS DOWN PLANT	PREPARE AND SUBMIT NEW ERP CHECKLIST
TEST HIGH ALARM, PROVIDE DEP W/ALARM TESTING RESULTS	UPDATE ALARM SYSTEM
UPDATE ERP TO INCLDUE ALGAE RESPONSE PLAN AND SUBMIT CHKLIST	UPDATE ERP TO INCLUDE ALGAL BLOOM RESPONSE
UPDATE ERP WITH EMERGENCY CL APPLICATION AT MASON ROAD WTP	PROVIDE TRAINING FOR ALL OPERATORS ON ALL EQUIPMENT, ALARM
PREPARE ER PLAN	WRITTEN PLAN AND SCHEDULE TO SECURE FACILITIES

Examples of Meter Scheduled Actions	
CALIBRATE OR REPLACE WATER METER	MOVE WATER METER ABOVE GROUND
RELOCATE WATER METERS	

Examples of Staffing Plan Scheduled Actions	
UPDATE STAFFING PLAN AND SUBMIT TO MASSDEP	WATER SUPPLIER MUST OBTAIN 1T-OIT LICENSE TO MAINTAIN WTP
STAFFING PLAN	SUBMIT STAFFING PLAN

Examples of Public Notification Scheduled Actions	
COMPLETE A CROSS CONNECTION SURVEY	POST A COPY OF CCR
POST CCR	POST CCR ON WEBSITE AND LOCALLY AT THE WATER OFFICE
PERFORM TIER 2 PN	

Examples of Planning Scheduled Actions	
COMPLETE A CROSS CONNECTION SURVEY	UPDATE TCR PLAN
UPDATE TCR PLAN AND MAP	COMPLETE ASSET MANAGEMENT PLAN
COMPLETE CAPACITY EVALUATION FORM	COMPLY WITH REDUNDANCY REQUIREMENTS
CONDUCT AUDIT OF CROSS CONNECTION PROGRAM	CONDUCT CROSS CONNECTION SURVEY - GET CERTIFICATE ON NEW SYS
CONDUCT XC SURVEY OR DISCONNECT IRRIGATION SYSTEM	CONSULT W/DEP, DISCUSS PLAN TO INSTALL TAPS IF NEEDED
CONFIRM COMPLIANCE WITH METHOD 334	CONTACT WMA STAFF TO DETERMINE ANY CHANGES IN METERING

Example of Maintenance/Maintenance Plan Scheduled Actions	
DEVELOP HYDRANT MAINT RESP AGREEMENT WITH TOWN AND SUBMIT	AFFIX PERMANENT LABELS FOR EA TRTMT UNIT, SUBMIT PHOTOS
CONFIRM ALL EQUIPMENT O&M MANUALS ON-HAND	CONFIRM OVERFLOW DISCHARGES CONFORM TO GUIDELINES
CONNECT WELL 4 ELECTRIC CONDUIT AND SECURE	DEVELOP WRITTEN MAINTENANCE PROGRAM
DEVELOP WRITTEN RESIDUALS MANAGEMENT PLAN	ESTABLISH A WRITTEN MAINTENANCE SCHEDULE
ESTABLISH FORMAL PREVENTATIVE MAINTENANCE PROGRAM	ESTABLISH FORMAL WRITTEN DS MAINTENANCE PROGRAM
FINALIZE O&M MANUALS	PERPARE CURRENT O&M FOR EA FACILITY
PERPARE O&M MANUAL FOR SYSTEM	PREVENT WATER FROM COLLECTING UNDER OFFICE PT

Examples of Distribution Map Scheduled Actions	
SUBMIT A DISTRIBUTION SYSTEM MAP	SUBMIT DISTRIBUTION MAP CLEARLY SHOWING WINTER OPERATION
UPDATE DISTRIBUTION MAP	DISTRIBUTION MAP

Examples of Storage Tank Scheduled Actions	
INSPECT STORAGE TANK	BEGIN PERFORMING TOP OF TANK INSPECTIONS
CLEAN AND INSPECT INSIDE AND OUTSIDE OF ALL TANKS IN 2022	COMPLETE ANNUAL ROOFTOP INSPECTION ON 2MG TANK
CONTROL TRESPASSING AT RICHMOND HILL TANK	CORRECT DISLODGED SCREEN AT SUMMIT TANK
EVALUATE THE NEED FOR ADDITIONAL STORAGE	HAVE ALL 5 STORAGE TANKS INSPECTED AND CLEANED
HAVE STORAGE TANK INSPECTED & CLEANED	HAVE STORAGE TANK INSPECTED AND SUBMIT REPORT
INSPECT ALL TANKS AND SUBMIT REPORTS WITH ACTION PLANS	INSPECT STORAGE TANK AND SUBMIT REPORT
PERFORM MONTHLY TANK INSPECTIONS SUBMIT FORMS TO MASSDEP	PERFORM TANK INSPECTIONS, SUBMIT DEC 2021 TO DEP

APPENDIX E

Government Performance and Results Act (GPRA)
2nd Quarter Results - FY 2022
Massachusetts Drinking Water Systems & Population in
Compliance with health-based standards

The Government Performance and Results Act (GPRA) statistics are calculated each quarter using the most recent 4 quarters of health-based compliance information in SDWISFED for community systems.

	GPRA-COMMUNITY SYSTEMS	GPRA-POPULATION
‘18 National Target	87%	92%
‘22 Actual Region I	95.8%	93.0%
‘22 MA	96.3%	90.5%

The primary goal of the Drinking Water Program is to ensure that the water delivered to customers meets all health-based standards, which are defined by compliance with Maximum Contaminant Levels (MCLs), Maximum Residual Disinfectant Levels (MRDLs) and Treatment Techniques (TTs).

The GPRA statistics indicate that Massachusetts exceeds the National GPRA Target for GPRA-Community Systems (87%) and is slightly below the National GPRA Target for GPRA-Population Population (92%). The statistics indicate that 96.3% of GRPA-community systems provide, and 90.5% of Massachusetts population served by CWSs receive, drinking water that meets all applicable health based drinking water standards through approaches including effective treatment & source water protection.