

Massachusetts Water Resources Authority



MWRA's Response to COVID

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Executive Director

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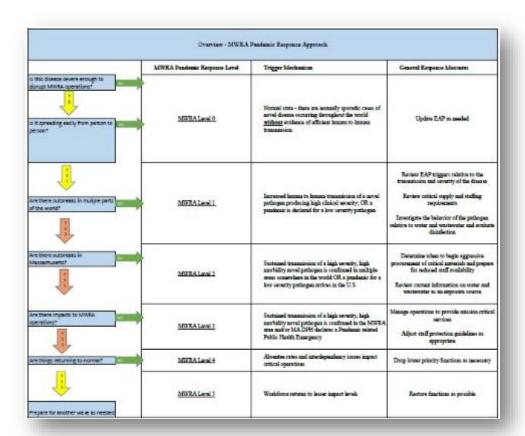
- On Saturday, March 14, Senior Staff convened to develop a list of "core functions"
- The next week, all office staff were sent home to telework, if possible
- Maintenance crews were put on standby rotations
- Treatment plant and other critical staff continued to report to work, under CDC safety guidelines





Utilized Existing Pandemic Response Plan

- MWRA developed a Pandemic Response Plan in 2003 to ensure the continuity of operations and safety of staff
- The Plan was used as a starting point when COVID hit and is updated on an ongoing basis applying lessons learned
- Part of the Plan included a stockpile of PPE, which was regularly rotated, putting us in a good position at the start of the pandemic

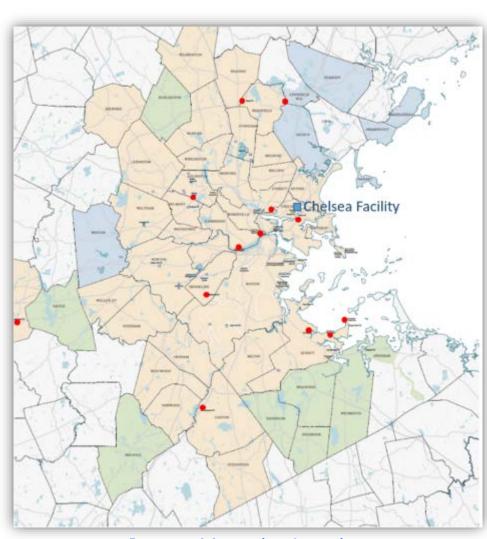




Operations and Maintenance Staff

- Field crews and plant staff have staggered start times
- Chelsea crews are utilizing remote locations to muster
- One person per vehicle, but piloting multi-person vehicles with barriers





Remote Mustering Locations



Operations and Maintenance Staff

- As staff returned to work, full compliance with the Commonwealth of Massachusetts Re-Opening Plan safety requirements and CDC COVID-19 guidance
- PPE required at all times and all employees self-certifying that they are healthy







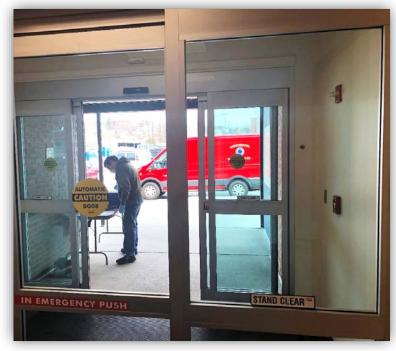




Operations and Maintenance Staff

 Procedures in place for community staff to drop off water quality samples safely







Contract Tracing and Deep Cleaning

- In the event that an employee tests positive for COVID, contact tracing and notifications are done immediately
- Work area and common areas are deep cleaned by outside vendor







Impact on Construction Projects

 MWRA and its contractors had to quickly adopt the Governor's mandates for safe construction sites, including training, hand washing stations and daily self health certifications





% of WO's Completed

Effects of COVID on Maintenance Metrics

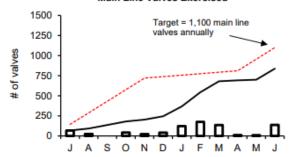
 Routine maintenance dropped during the 4th quarter of FY20, but is starting to recover

Percent of Total Wastewater Transport Calculated Using Meters



Preventive Maintenance Compliance Best in Class Target Best in Class Target Industry Benchmark 70% J A S O N D J F M A M J

Main Line Valves Exercised



During the month of June FY20, 137 main line valves were exercised. The total exercised for the fiscal year to date is 838. Below YTD target due to high priority CIP project (WASM 1) and Covid 19.

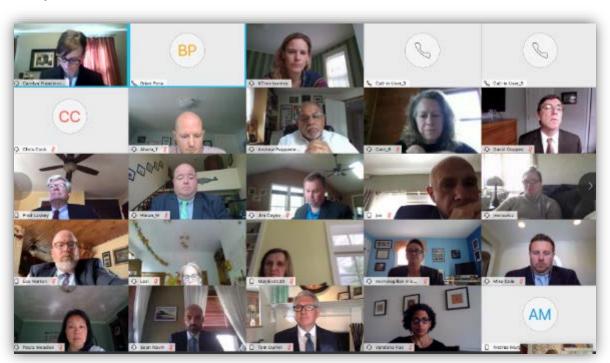
During the month of June FY20, 102 blow off valves were exercised. The total exercised for the fiscal year to date is 440. Below YTD target due to high priority CIP project (WASM 1) and Covid 19.

- Over 400 financial, administration, engineering, planning and support staff are teleworking under a new Telework Policy
- No face-to-face meetings
- Visitors to MWRA facilities very limited - and must self-certify that they are healthy



Virtual Meetings

- Like everyone else, all MWRA meetings are being held virtually
- All hiring done remotely
- Since March, MWRA Board of Directors meetings have been held virtually





Installed Protective Barriers and Signage (Lots of Signage)







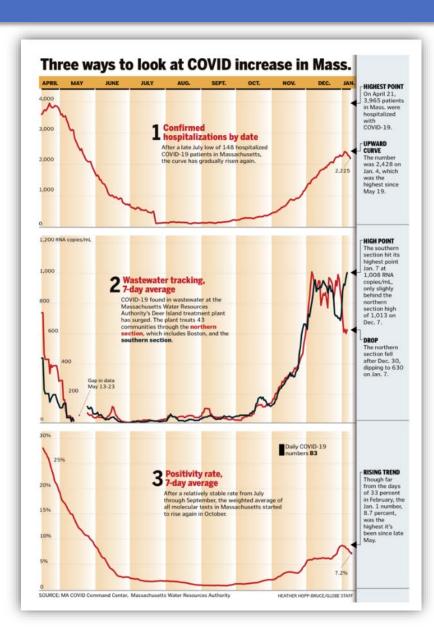






COVID Wastewater Testing

- Since the pandemic began, MWRA
 has been working with Biobot
 Analytics on sampling wastewater
 at Deer Island to track the amount
 of COVID in the north and south
 systems as an additional tool for
 the public health community
- Testing results are posted on MWRA's website
- The program has garnered local and national media attention and the Boston Globe uses it as one of the key graphs to watch





On-Site COVID Testing

- In December, MWRA began providing weekly on-site testing at three locations for employees
- The response has been excellent and has helped to stop the spread among staff



- MWRA has been working to try to move critical water and wastewater workers up on the distribution list
- Currently exploring options for onsite staff vaccinations





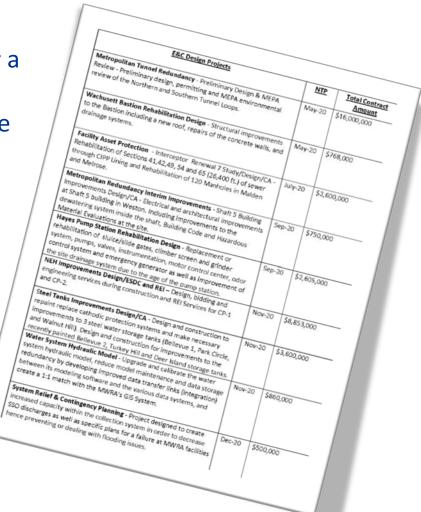
Future Challenges: What Will The "New Normal" Look Like?

- Child and adult care issues
- Teleworking going forward
- In-person training vs on-line
- New technologies
- Staffing levels
- Future space needs



Possible Stimulus Funding

 In anticipation of a possible post-COVID federal stimulus package, MWRA has been pulling together a list of potential water and wastewater projects that could be "shovel-ready"





Impact of COVID-19 on Project Design Schedules

- During the first half of FY2021, 21 design projects were scheduled to be awarded
 - 7 were awarded
 - 3 are in process
 - 4 have been advertised
 - 7 are scheduled to be awarded by June 30th
- Projects are now starting to proceed at a normal pace



Upcoming Design Projects

Project	RFP Advertisement Date	Estimated Contract Amount (\$000s)
Deer Island Clarifier Rehabilitation Phase 2 - Resident Engineering Inspection	Mar-21	\$3.0
Deer Island Digester and Storage Tank Rehab Design/Engineering Services During Construction	Apr-21	\$4.1
Wachusett Lower Gatehouse Pipe Replacement Resident Engineering Inspection	Apr-21	\$0.5
Masonry/Structural Repairs Design/Engineering Services During Construction	Apr-21	\$1.6
Deer Island Odor Control Rehabilitation - Design/Engineering Services During Construction	Apr-21	\$5.1
Deer Island Cryogenics Plant Equipment Replacement-Design	Apr-21	\$3.3
Braintree/Weymouth Improvements - Resident Engineering Inspection	Apr-21	\$0.6
Cottage Farm Rehabilitation - Design/Construction Administration/Resident Engineering Inspection	Apr-21	\$2.5
Somville-Marginal CSO Facility Rehabilitation Design/Construction Administration	May-21	\$1.5
Section 80 Rehabilitation Design/Construction Administration	May-21	\$2.5
Deer Island Fire System Replacement - Resident Engineering Inspection	May-21	\$2.1



Upcoming Design Projects

Project	RFP Advertisement Date	Estimated Contract Amount (\$000s)
Hingham Pump Station Rehabilitation Design	Jul-21	\$0.9
Removal of Quinapoxet Dam Resident Engineering Inspection	Aug-21	\$0.1
Cathodic Protection Metropolitan System Design/Construction Administration	Sep-21	\$9.2
Clinton Wastewater Treatment Plant Rehab Design/Engineering Services During Construction/Resident Engineering Services	Oct-21	\$1.5
Sect 25, 75, 59, & 60 Resident Engineering Inspection	Jan-22	\$3.7
Northern Extra High Improvements Resident Engineering Inspection	Jan-22	\$2.6
Design/Engineering Services DI Old Administration Building Demolition	Feb-22	\$0.7
Residuals Facility Upgrades - Design	Feb-22	\$1.2
Pumping Stations Rehabilitation-Design/Construction Administration	Feb-22	\$3.9
Beacon Street Line Design/Engineering Services During Construction	Apr-22	\$0.9
Deer Island Combined Heat and Power Design/Engineering Services During Construction/Resident Engineering Inspection	Feb-22	\$5.6