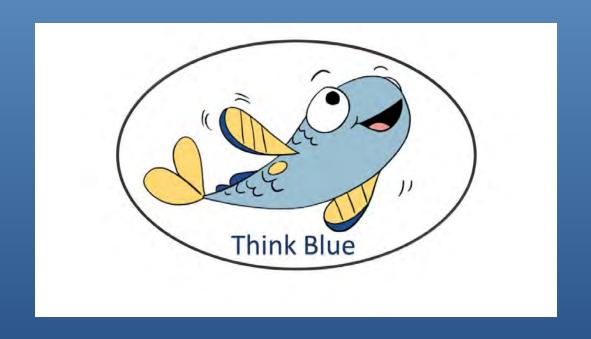
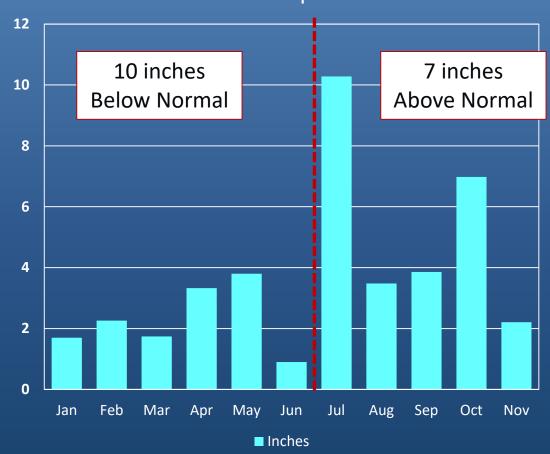
Portsmouth Water – 2021 Year in Review

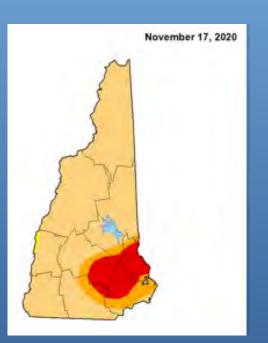


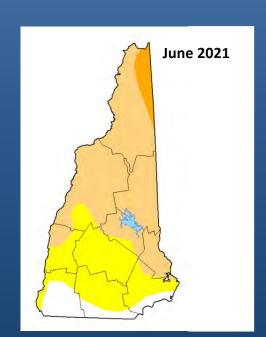
Safe Water Advisory Group February 23, 2022

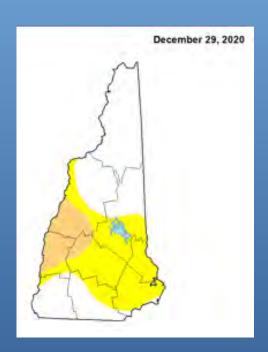
2021 Weather

Inches Precipitation







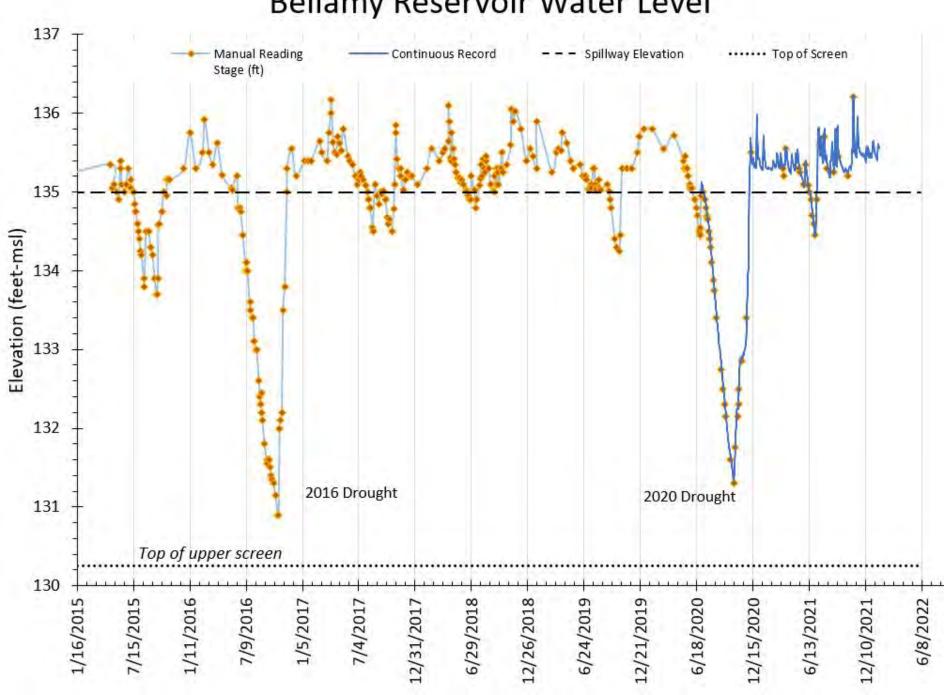




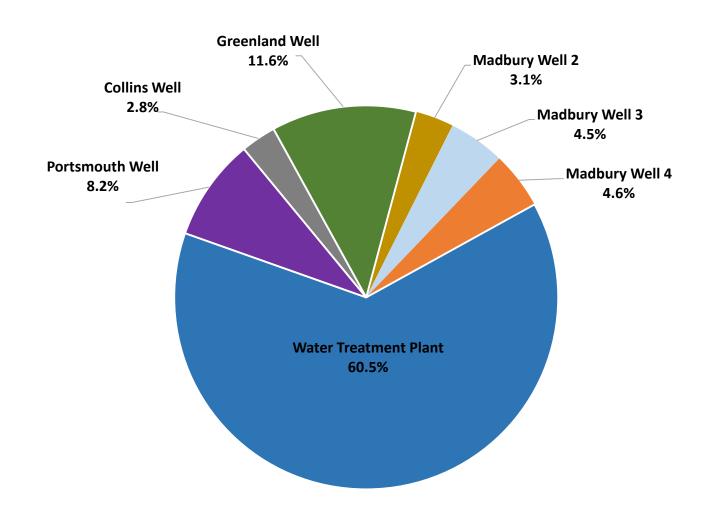
2021 Weather Summary (Boston Globe)

- Average Temperature was 54.6 degrees
 - 2.5 degrees above normal
 - Second-warmest year since 1872
- Warmest June on record
- Second warmest August on record
- Second warmest September on record
- Fourth warmest October on record

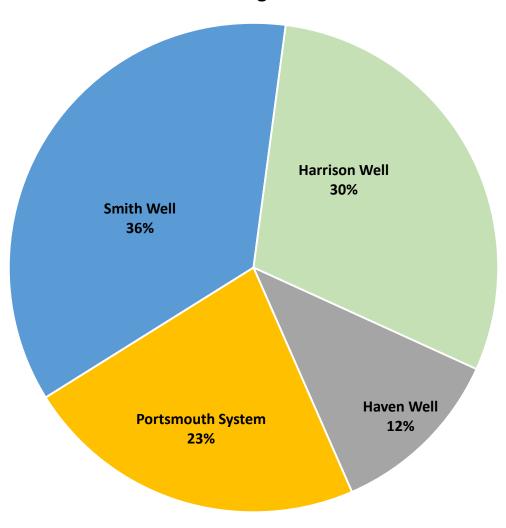
Bellamy Reservoir Water Level



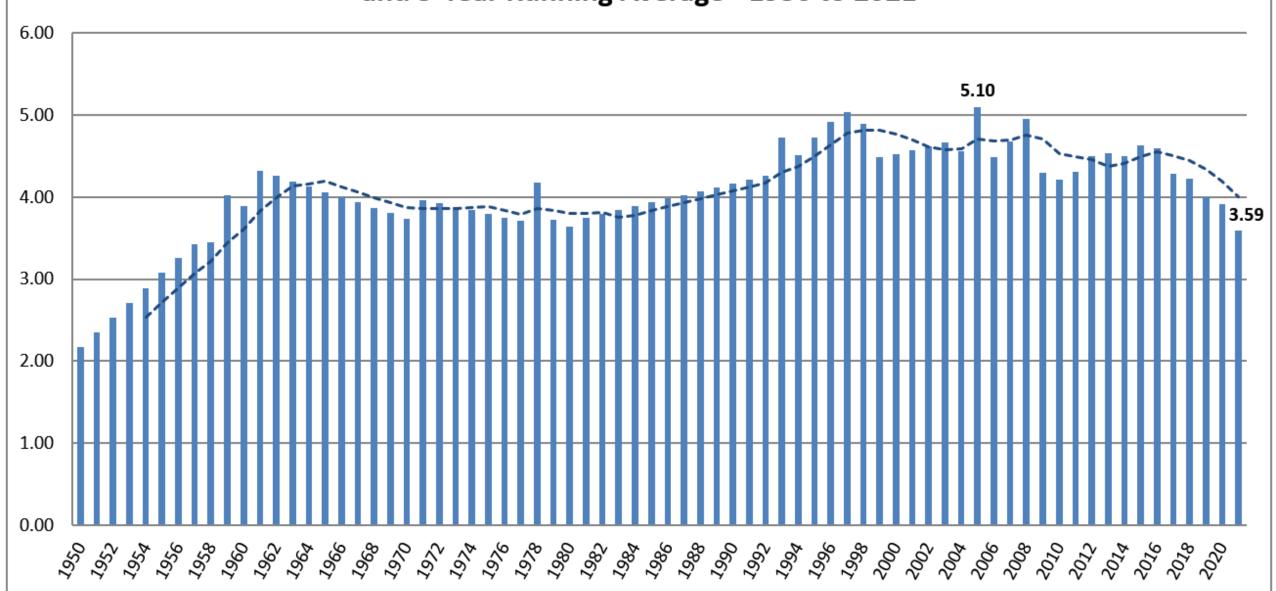
Portsmouth Water Sources Source Percentages in 2021



Pease Supply Sources Source Percentages in 2021







Water FY Sales Trend (Total Units)

	Water Units Billed
FY16	1,706,083
FY17	1,640,856
FY18	1,682,823
FY19	1,576,453
FY20	1,624,340
FY21	1,583537

6 year ave. (16 to 21) = 1,635,632



Water Main Replacements:



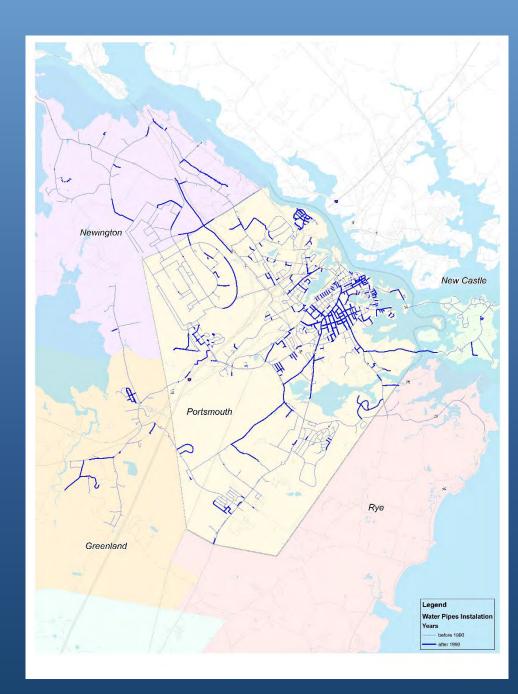
58.6 Miles of Pipe ~ 2 miles/year

1991-2000 – 16.5 miles

2001-2010 – 18.6 miles

2011-2020 – 23.6 miles



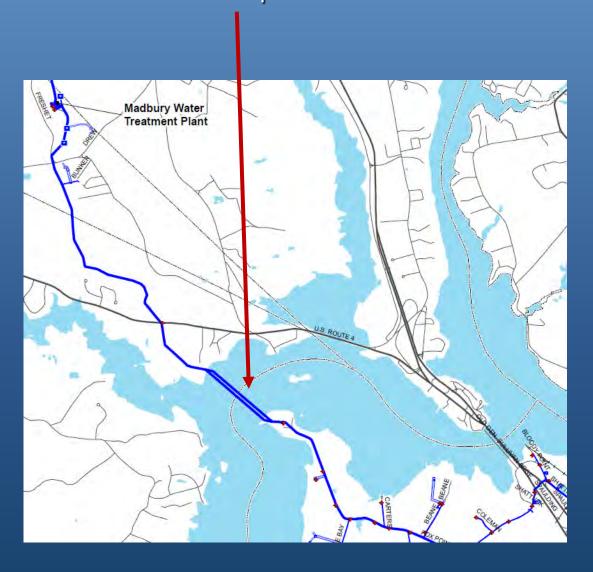


Collins Well Upgrades



- New well complete and well screen installed
- Well purging/cleaning this week and next
- Pump testing and permitting to follow
- Final upgrade goal is to bring well back to its 400 gallon-per-minute capacity. Existing well is pumping at 227 gpm.

Little Bay Water Transmission Main Replacement



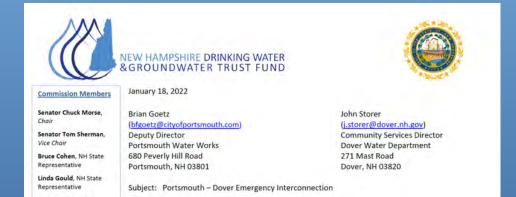
- Wetlands permit proceeding with NHDES
- \$6.14 million current total cost estimate
- Working with landowners for construction site access agreements
 - Two Durham properties
 - Newington Town property
- Bid in June/July 2022
 - Allow time for contractor to procure pipe
- Construction, winter of 2022/2023

Portsmouth – Dover Emergency Interconnection



UNIDERWOOD

Service Areas



- \$223,000 grant to fund design of pipe across bicycle/pedestrian bridge
- Construction in 2024
- We will continue to pursue other grant funds to pay for construction

Madbury Well Upgrades



- Project Underway
- New Wells will be connected to system
 - Well 4R
 - Well 5
- Brief shutdown after first of year to install new pipe

Water Quality



ANNUAL

2020 TESTING RESULTS PWSID 1951010

DRINKING WATER

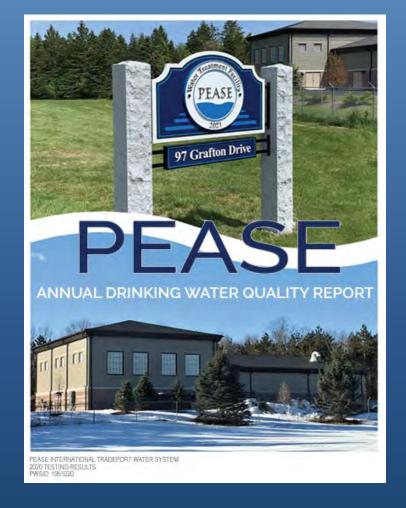
QUALITY REPORT

ity of Portsmouth Water Division is pleased to present the Annual Drinking Water Quality Report. This report summarizes the results of drinking water testing performed from 01/01/2020 to 12/31/2020, and is provided to keep you informed about the quality of the water you rely on every day. It is being sent to every water customer served from the Portsmouth water system (PWSID# 1951010).

ORTSMOUTH Through 2020, the City of Portsmouth water Thas continued to meet all water quality standards as regulated by the US Environmental Protection Agency and the NH Department of Environmental Services.

> An extensive amount of information is provided in this report. Please contact us if you would like help understanding the information provided or have suggestions for future reports.

Both water systems met all drinking water standards in 2021





Pease Water PFAS Treatment System Performance

PEASE WATER TREATMENT FACILITY PFAS RESULTS - POST TREATMENT

Gallone

		Gallons			
SAMPLED	PFAS*	Treated			
4/27/2021	ND	2,717,039			
5/4/2021	ND	4,354,049			
5/11/2021	ND	6,387,665			
5/12/2021	ND	6,830,373			
5/18/2021	ND	9,391,617			
6/15/2021	ND	23,133,046			
7/19/2021	ND	41,445,555			
8/4/2021	ND	52,901,428			
8/5/2021	ND	53,782,078			
8/11/2021	ND	58,558,918			
8/18/2021	ND	64,975,798			
8/25/2021	ND	69,830,038			
9/15/2021	ND	86,914,498			
10/13/2021	ND	106,446,219			
11/17/2021	ND	123,708,814			
ND - None Detected at Math	ad Damantalala Lina	(h /2+)			

ND = None Detected at Method Reportable Limit (2 pp

PFAS Average – 12 Month Rolling New Hampshire Regulated Compounds - All Sources In Compliance

	Parts Per Trillion (PPT)	NH WCL	RAW*	MADBURY WTP FINISHED	MADBURY WELL 2	MADBURY WELL 3	MADBURY WELL 4	PORTSMOUTH WELL	COLLINS WELL	GREENLAND WELL	PEASE WTP
PFHxS	ng/L	18	0	0	0	0	0	7	2	2	0
PFOS	ng/L	15	0	0	0	0	0	5	4	5	0
PFOA	ng/L	12	1	2	2	3	0	6	4	4	0
PFNA	ng/L	11	0	0	0	0	0	0	0	0	0

PFPrA Finding

Pilot Study with National Research Defense Council (NRDC) to test tap samples for more expansive, targeted list of PFAS

One residential tap sample from City of Portsmouth was analyzed as part of the pilot study by Eurofins labs - sample analyzed for 70 PFAS

PFPrA detected at 35 ppt

Follow-up sampling will occur in early March 2022:

- Tap sample at DPW (previous sample location not available)
- Samples at Madbury Water Treatment Facility and Portsmouth Well
- EPA lab will analyze for PFPrA
- Duplicate samples with Eurofins laboratory