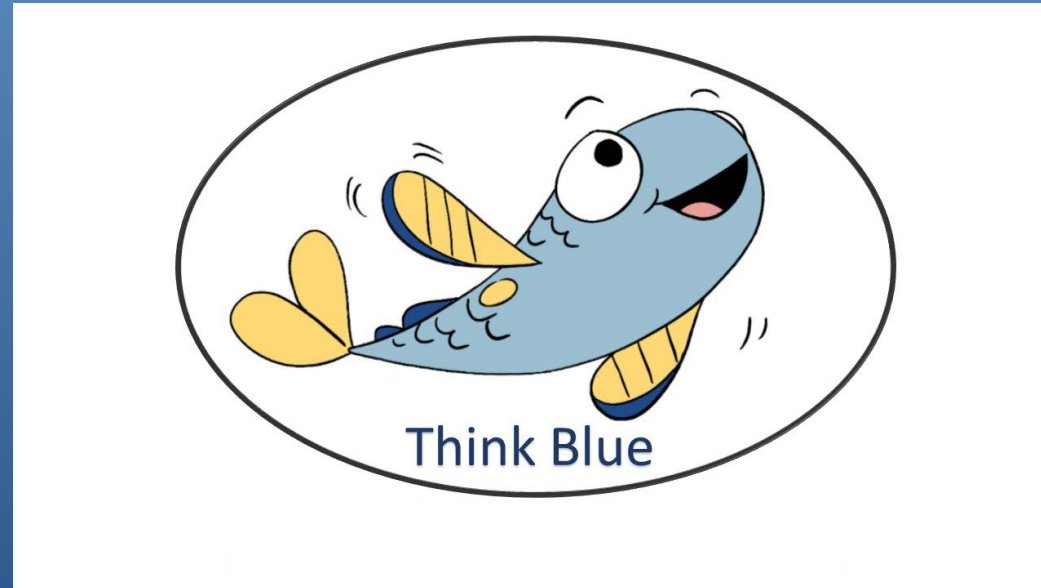
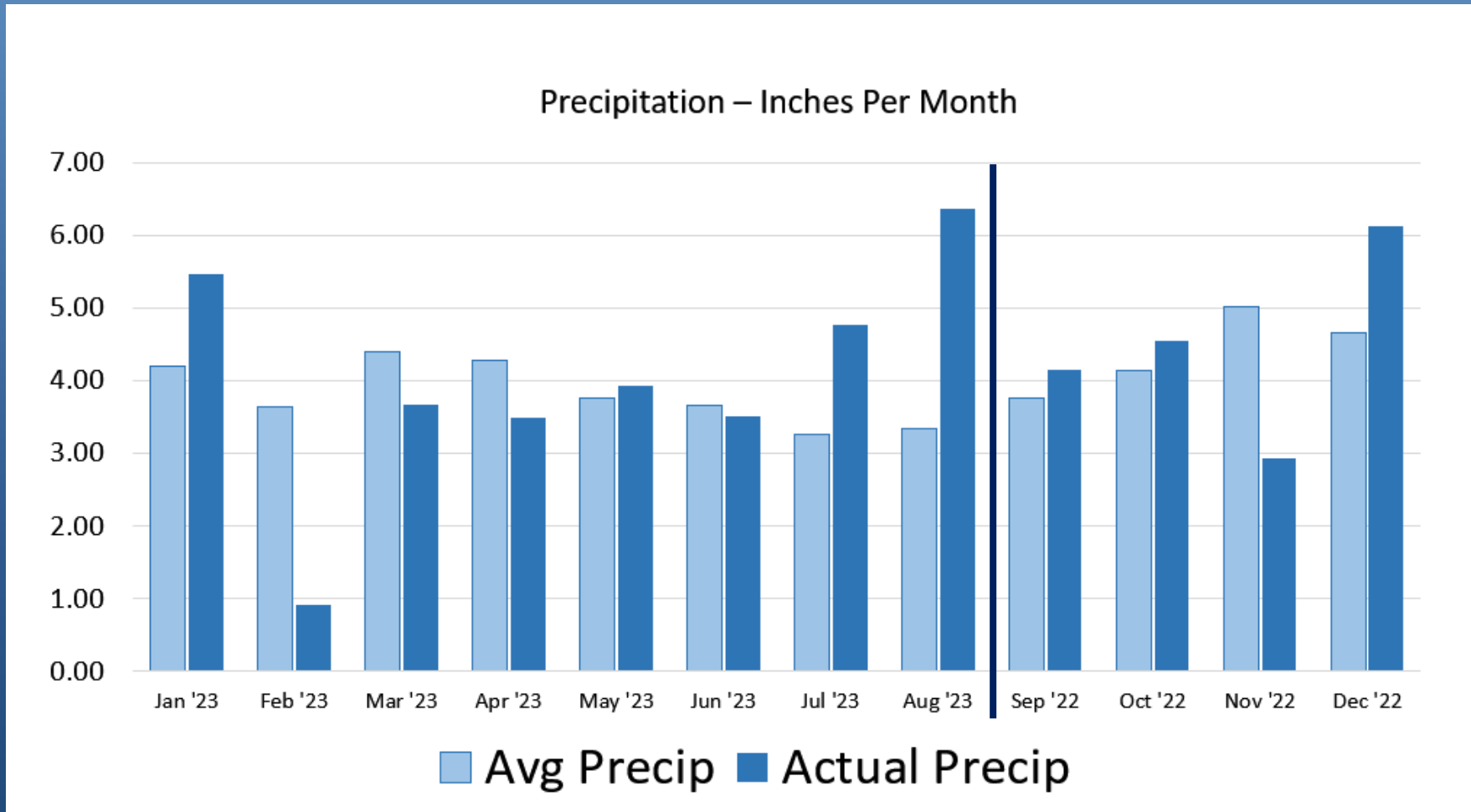


# Portsmouth and Pease Water Update



Safe Water Advisory Group  
September 20, 2023

# Weather – Last 12 Months



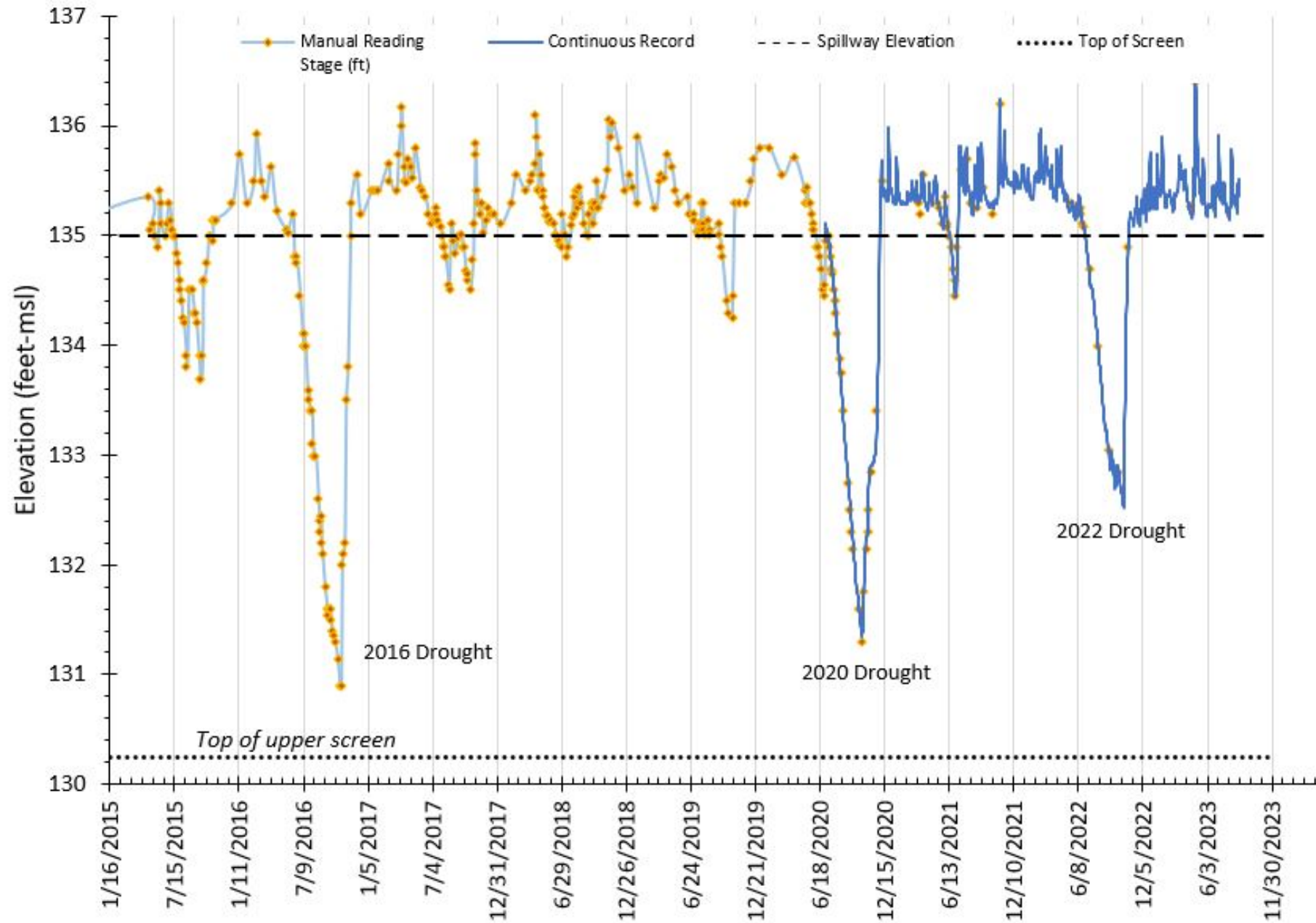
**Average = 45 inches**

**Actual = 50 inches**

**5 inches above normal**

**\* 5 inches so far in  
September 2023**

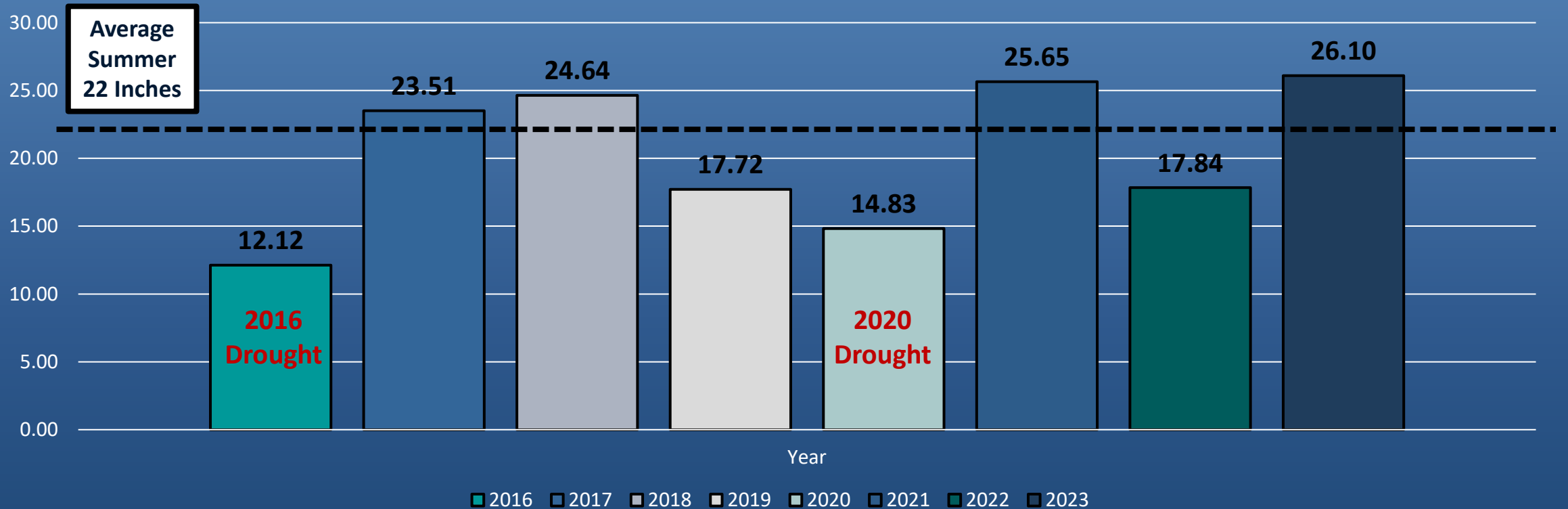
# Bellamy Reservoir Water Level



# Summer Trends

## April through September

Inches of Rainfall



\*2023 – September is estimated

# Collins Well Upgrades



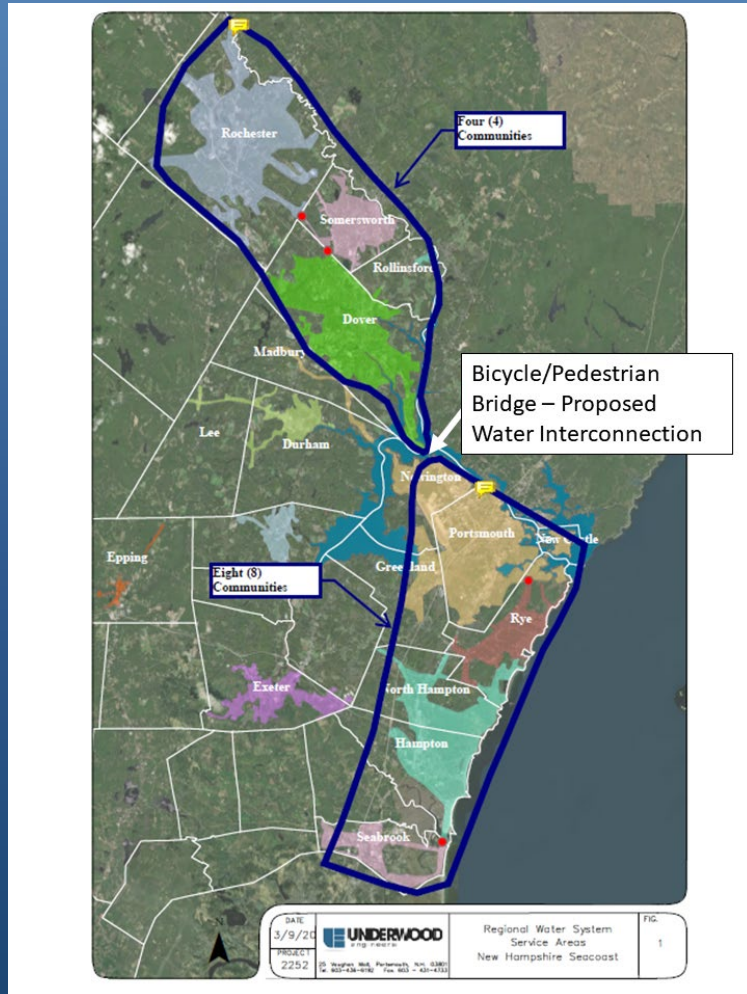
Existing  
Collins Well #1


New  
Collins Well #2


- New well complete and well screen installed
- Pump test report submitted to DES
- Design for construction of pumps and pipelines to follow



# Portsmouth – Dover Emergency Interconnection



 NEW HAMPSHIRE DRINKING WATER & GROUNDWATER TRUST FUND



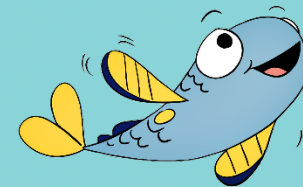
**Commission Members** January 18, 2022

<b>Senator Chuck Morse,</b> <i>Chair</i>	Brian Goetz <a href="mailto:bgoetz@cityofportsmouth.com">bgoetz@cityofportsmouth.com</a>	John Storer <a href="mailto:jstorer@dover.nh.gov">jstorer@dover.nh.gov</a>
<b>Senator Tom Sherman,</b> <i>Vice Chair</i>	Deputy Director Portsmouth Water Works	Community Services Director Dover Water Department
<b>Bruce Cohen,</b> NH State Representative	680 Peverly Hill Road Portsmouth, NH 03801	271 Mast Road Dover, NH 03820
<b>Linda Gould,</b> NH State Representative		

Subject: Portsmouth – Dover Emergency Interconnection

- Waterline currently out to bid
- Congressionally directed funding of \$3.5 million anticipated to cover approx. 50% of overall project cost
  - Dover – other 25%
  - Portsmouth – other 25%

# Watershed Protection

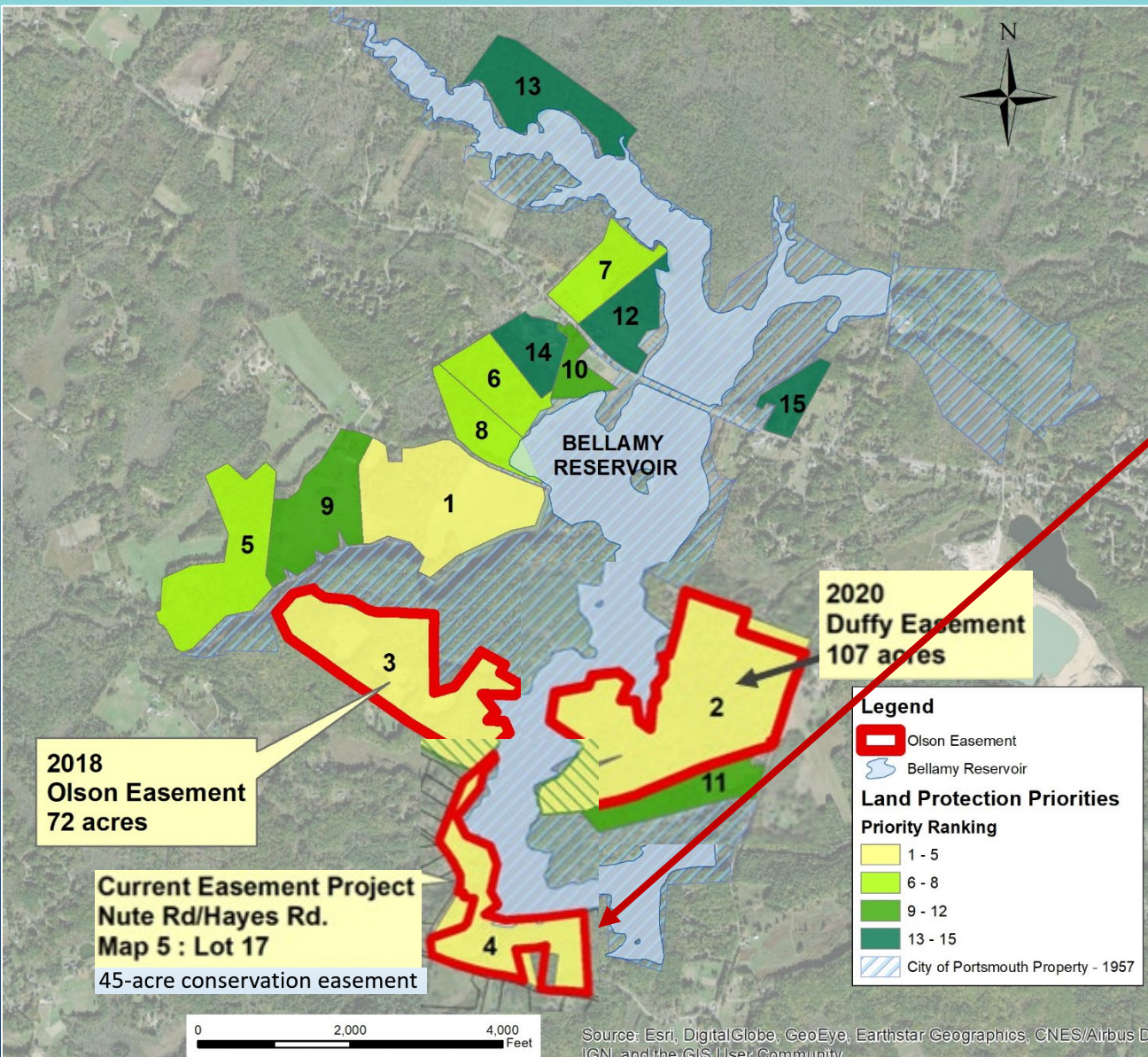


Fernald Easement Purchase –  
Currently in Progress



NHDES

Source Water Protection Award - 2023





# Source Water Protection - Household Hazardous Waste Day This Saturday

City of PORTSMOUTH NH | DEPARTMENT OF PUBLIC WORKS

A A

## SOLID WASTE & RECYCLING



About ▼

Collection Schedule

Resources ▼

## HOUSEHOLD HAZARDOUS WASTE DAY

Held twice a year, in Spring and Fall. Next date: September 23, 2023, 8 am to 12 noon at the Portsmouth Recycling Center, 680 Peverly Hill Road.

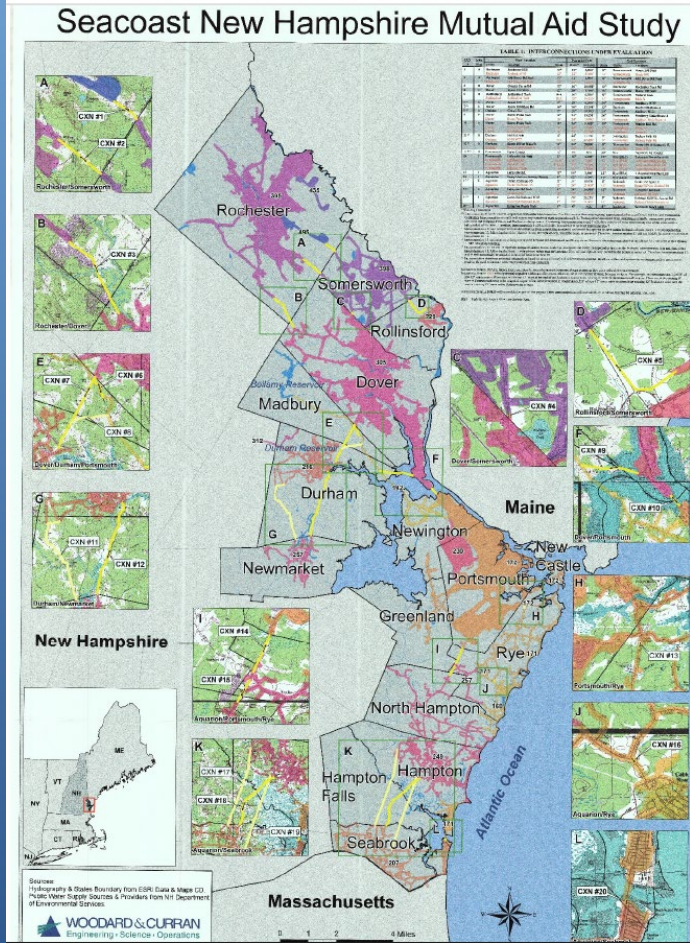
**For residents of Portsmouth, Greenland & Newington - Proof of Residency Required.**

**Location:** Department of Public Works, 680 Peverly Hill Road, Portsmouth, NH 03801

# Master Planning – 2023/2024

- Currently Under Way with Haley Ward Engineers

- Tank Inspections and Cleaning
- Hydraulic Assessment of Southern Portion of System and Greenland Area Pressure
- Update the Entire Hydraulic Model
- Have an Additional \$50,000 To Put Toward Project from NHDES Grant



The State of New Hampshire  
**Department of Environmental Services**



**Robert R. Scott, Commissioner**

**STATE OF NEW HAMPSHIRE  
DEPARTMENT OF ENVIRONMENTAL SERVICES  
Seacoast NH Emergency Interconnection Study Update  
RFQL DES 2024-02**

**2006 Study participants:**

- Aquarion Water Company of NH
- City of Portsmouth Water Works
- City of Somersworth Water Department
- Rollinsford Water & Sewer District
- Seabrook Water Department
- City of Dover
- City of Rochester Water Department
- Newmarket Water District
- Rye Water District
- UNH/Durham Water Works

**Additional communities to be addressed in this study:**

- Epping Water & Sewer District
- Rockingham County Complex (Brentwood)
- Town of Exeter
- Town of Madbury (potential PWS)
- 52 Small Community Water Systems (population served range: 25 to 980)
- Newfields Water & Sewer District
- Town of Brentwood (potential PWS)
- Town of Farmington
- Town of Stratham (potential PWS)

# Seacoast NH Emergency Interconnection Study - 2023 Update

- Update the 2006 Study
- Expand the study area
- Provide recommendations for future interconnections and/or mutual aid agreements

# Annual Water Quality Reports Mailed and Posted on City Website

City of PORTSMOUTH NH | DEPARTMENT OF PUBLIC WORKS | WATER

Quality ▾ Supply Status Water Efficiency ▾ Information ▾

## ANNUAL WATER QUALITY REPORTS



The image displays three annual drinking water quality reports for 2022, each featuring a central graphic of a water tap with three water droplets. The left report, for Portsmouth, shows a dam and water treatment facility. The middle report, for New Castle, shows a residential street with houses. The right report, for Pease, shows a large industrial or commercial building. Each report cover includes the text 'IN CELEBRATION OF PORTSMOUTH NH 400th ANNIVERSARY' and 'THE CITY OF PORTSMOUTH DPW WATER DIVISION PRESENTS: Annual Drinking Water Quality Report'. Logos for the City of Portsmouth and the Department of Public Works are visible at the bottom of each report.

Portsmouth Water Results Report for 2022

New Castle Water Report Results for 2022

Pease Water Report Results for 2022

# PFBA – Pease Water Treatment Facility



PER- AND POLYFLUOROALKYL SUBSTANCE (concentrations* reported in ng/L or ppt)	NHDES MAXIMUM CONTAMINANT LEVEL (MCL)	PORTSMOUTH WATER SUPPLIED TO PEASE SYSTEM			PEASE TRADEPORT TREATED WELL WATER
		PORTSMOUTH WELL #1	COLLINS WELL	GREENLAND WELL	SUPPLIED AFTER GAC TREATMENT
# of samples in 2022		13	13	4	13
% of water supplied in 2022		0.7%	0.3%	1.2%	97.8%
6:2 Fluorotelomer Sulfonate (6:2 FTS)	not regulated	Average	BD	ND	ND
		Range	ND - 1	ND	ND
Perfluorobutane-sulfonic acid (PFBS)	not regulated	Average	3	12	2
		Range	2 - 3	5 - 20	ND - 3
Perfluorobutanoic acid (PFBA)	not regulated	Average	4	4	2
		Range	2 - 5	2 - 10	ND - 3
Perfluoroheptanoic acid (PFHpA)	not regulated	Average	4	BD	1
		Range	2 - 6	ND - 2	ND - 3
Perfluorohexane-sulfonic acid (PFHxS)	18	Average	7	2	1
		Range	5 - 10	ND - 3	ND - 3
Perfluorohexanoic acid (PFHxA)	not regulated	Average	6	1	4
		Range	4 - 9	ND - 3	4 - 5
Perfluorononanoic acid (PFNA)	11	Average	BD	BD	ND
		Range	ND- <1	ND- <1	ND
Perfluorooctane-sulfonic acid (PFOS)	15	Average	5	3	4
		Range	3 - 6	ND - 6	3 - 5
Perfluorooctanoic acid (PFOA)	12	Average	5	3	4
		Range	3 - 8	ND - 6	4 - 5
Perfluoropentanoic acid (PFPeA)	not regulated	Average	7	2	5
		Range	4 - 11	ND - 4	3 - 6

# Perfluorobutanoic acid (PFBA) and Water

## MDH Guidance Value

Based on available information, MDH developed a guidance value of 7 ppb for PFBA in drinking water. MDH guidance values are developed to protect people who are most vulnerable to the potentially harmful effects of a contaminant. MDH does not use guidance values to regulate water quality, but they may be useful for situations in which no regulations exist. MDH develops guidance values to protect people who are most vulnerable to the potentially harmful effects of a contaminant. A person drinking water at or below the guidance value would be at little or no risk for harmful health effects.

7,000  
ppt

# Pending EPA MCLs for 6 PFAS Compounds

- EPA still reviewing comments
- Portsmouth response
  - Continued tracking and quarterly sampling of PFAS
  - Currently in compliance with New Hampshire regulations
  - Greenland Well Treatment design will happen later this year
  - Approached Air Force about treatment design for Portsmouth/Collins wells

# Lead Sampling Program



## FREE WATER TESTING FOR LEAD! FOR QUALIFIED PORTSMOUTH WATER CUSTOMERS

The City of Portsmouth Water Division monitors for lead in drinking water in the Portsmouth and Pease Tradeport Water Systems to make sure there is no detectable lead in the City's supply. However, buildings with old plumbing systems could have lead components that could leach lead into their tap water. Lead is particularly harmful for children under 6 years old. For more information, scan the QR code at right.

### PORTSMOUTH WATER CUSTOMERS MAY QUALIFY FOR FREE TESTING

The City is contracting with an accredited laboratory to provide one sampling kit (per residential customer) to test for lead in drinking water for customers served by the Portsmouth and Pease Tradeport Water Systems.

### HOW CAN I TAKE ADVANTAGE OF THIS OPPORTUNITY?

Contact Mason Caceres, Water Quality Specialist II, at (603) 312-3804 or [mecaceres@cityofportsmouth.com](mailto:mecaceres@cityofportsmouth.com) for a one-time code that will allow you to obtain a sample kit. Detailed instructions will be provided.

\* The City has budgeted \$2,500 for this program. Kits will be distributed while supplies last.

