



Town of Chatham
Department of Public Works
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TO: Honorable Select Board
Jill R. Goldsmith, Town Manager

FROM: Rob Faley, Director, Department of Public Works

DATE: March 7, 2024 (for the March 12, 2024 SB Meeting)

SUBJECT: Chatham Wells, PFAS, and Drinking Water Testing and Pumping Update

The following is a water supply update for the month of February 2024:

Training Field Wells 5 and 8 - Permanent Treatment Facility

Temporary Treatment at Well 5:

1. Project Update:
 - The temporary vessel remains off-line for the winter.

Permanent Treatment Facility at Wells 5 & 8:

1. Project Update:
 - Project is currently out to bid:
 - Filed sub-bidders bid opening scheduled for March 14th at 2:00 PM
 - General Contractors bid opening scheduled for March 21st at 2:00 PM

Mill Pond Wells 10 and 11 - Pumping & Treatment Construction

Project Progress:

1. The Conservation Easement and MOA for Well 10 has been approved by the Water Commissioners.
2. Wells 10 & 11 were sampled for Secondary Contaminants, Volatile Organic Contaminants, Lead, Nitrate, Ammonia, Synthetic Organic Contaminants, Inorganics and total coliform. We are awaiting the results.

Chatham Water Pumping Status:

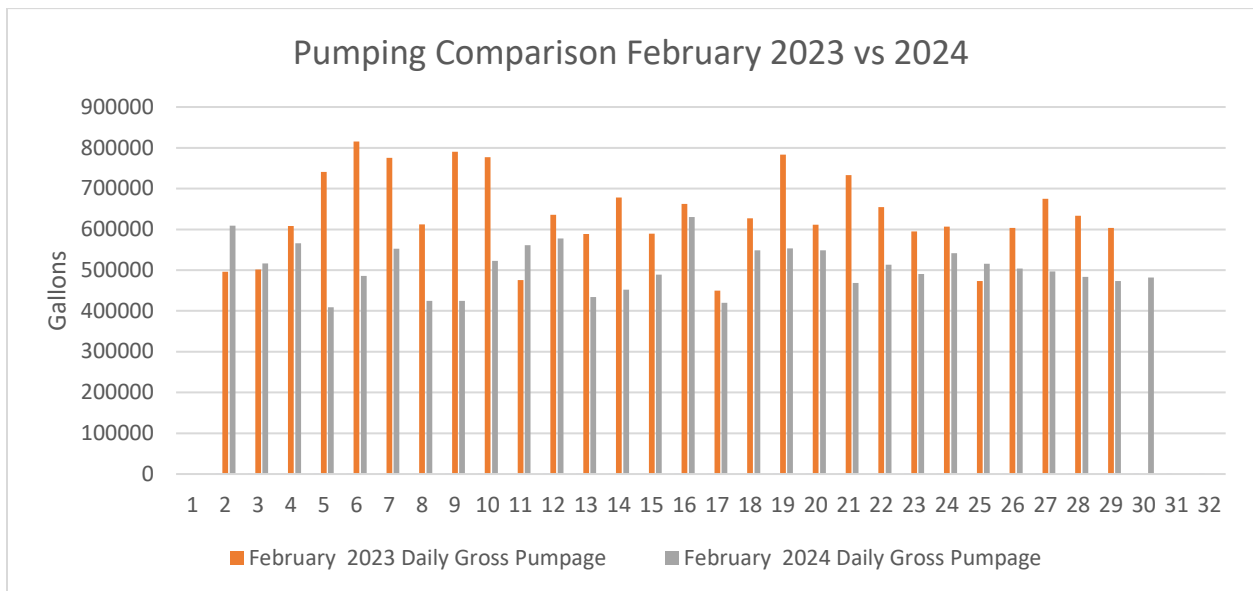
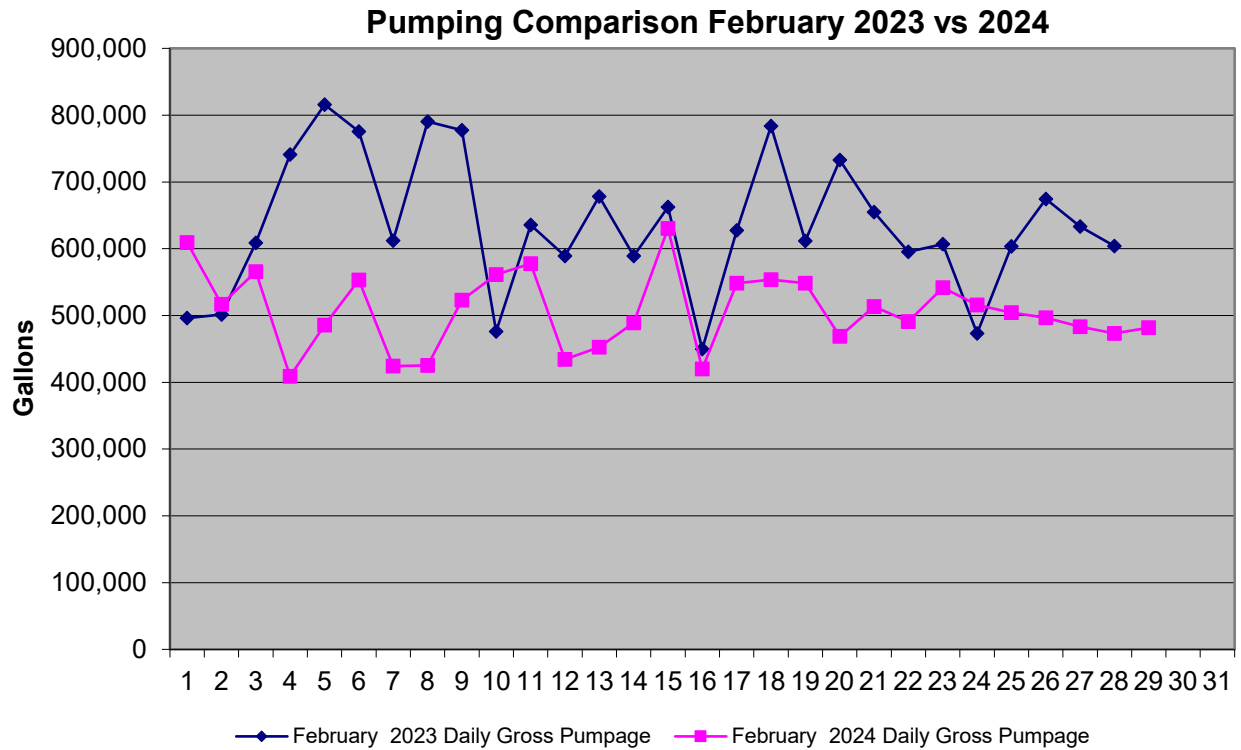
For the month of February, wells have been running 4-6 hours a day.

The Water Storage Tanks did not hit the low-level alarm this month.

Water Sampling:

- *January recap: First quarter samples were taken for PFAS6 from Wells 4, South Chatham treatment plant and the Morton Road treatment plant. Results from the Morton Road treatment plant showed a detect of PFOA well below the maximum contaminant level. We are currently resampling the individual wells to see if we can determine where the detect is coming from.*
- February update: PFAS6 resampling continued at the Morton Road water treatment plant and Wells 6, 7 & 9. Raw water at Well 6 had PFAS detection levels well below the maximum contaminant level. After retesting and adjusting flow rates, the PFAS6 results for finished water at the water treatment plant were non-detect.
- PFAS6 samples taken from Wells 10 & 11 showed no detects.

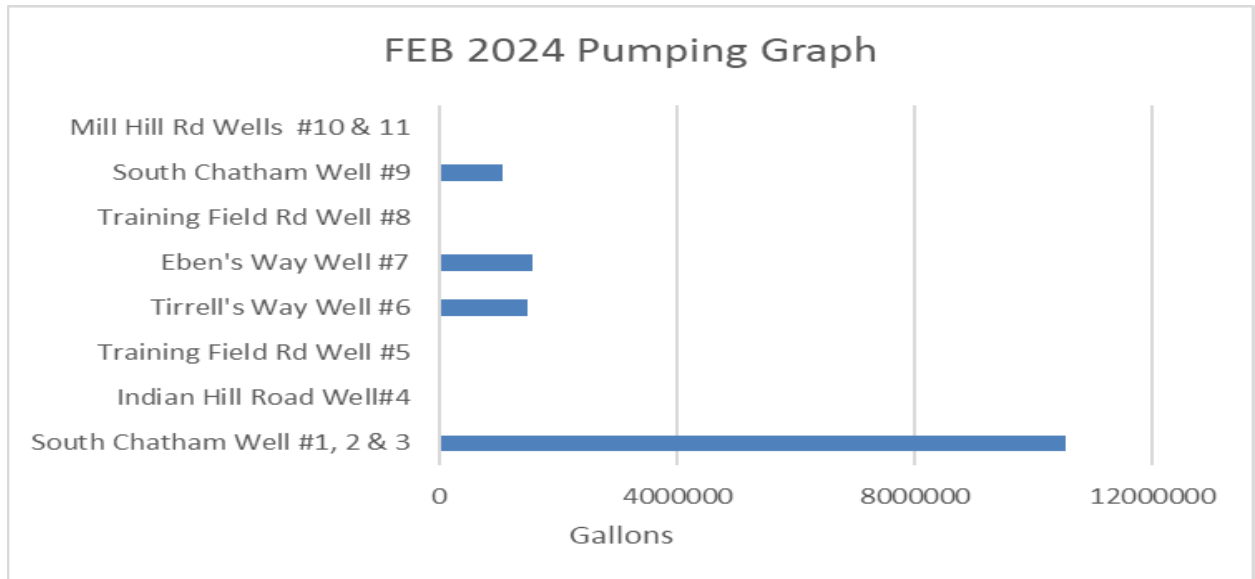
DATE	February 2023 Daily Gross Pumpage	February 2024 Daily Gross Pumpage	February 2023 vs. February 2024 Increase / Decrease (Gallons)	February 2023 vs February 2024 Increase / Decrease (Percent)
1	496,000	609,400	113,400	23%
2	501,300	516,800	15,500	3%
3	608,600	565,700	(42,900)	-7%
4	740,900	408,900	(332,000)	-45%
5	815,700	485,500	(330,200)	-40%
6	775,700	552,900	(222,800)	-29%
7	612,300	424,300	(188,000)	-31%
8	790,400	425,000	(365,400)	-46%
9	777,300	522,900	(254,400)	-33%
10	475,800	561,400	85,600	18%
11	635,500	577,700	(57,800)	-9%
12	589,000	434,300	(154,700)	-26%
13	678,100	452,400	(225,700)	-33%
14	589,200	488,700	(100,500)	-17%
15	662,400	630,500	(31,900)	-5%
16	449,500	419,800	(29,700)	-7%
17	627,300	548,300	(79,000)	-13%
18	783,500	553,500	(230,000)	-29%
19	611,600	548,400	(63,200)	-10%
20	732,900	468,700	(264,200)	-36%
21	654,800	513,400	(141,400)	-22%
22	595,100	490,800	(104,300)	-18%
23	606,800	541,700	(65,100)	-11%
24	473,200	515,600	42,400	9%
25	603,300	504,200	(99,100)	-16%
26	674,600	496,600	(178,000)	-26%
27	633,300	483,100	(150,200)	-24%
28	603,900	473,200	(130,700)	-22%
29		481,900	481,900	
Total	17,798,000	14,695,600	(3,102,400)	-17.4%



Monthly Pumping Report

February 2024

DATE	DAY	South Chatham Well #1, 2 & 3	Indian Hill Road Well#4	Training Field Rd Well #5	Tirrell's Way Well #6	Eben's Way Well #7	Training Field Rd Well #8	South Chatham Well #9	Mill Hill Rd Wells #10 & 11	Daily Gross Pumpage	7 Day Pumpage Totals
1		597,000	12,400							609,400	609,400
2		516,800								516,800	1,126,200
3		565,700								565,700	1,691,900
4		408,900								408,900	2,100,800
5		470,300			9,400	3,300		2,500		485,500	2,586,300
6		537,700			9,400	3,300		2,500		552,900	3,139,200
7		45,500			182,700	183,700		12,400		424,300	3,563,500
8		58,300			130,500	135,400		100,800		425,000	3,379,100
9					180,700	189,500		152,700		522,900	3,385,200
10					209,300	192,100		160,000		561,400	3,380,900
11		452,100			45,200	50,100		30,300		577,700	3,549,700
12		261,900			81,800	59,000		31,600		434,300	3,498,500
13		102,900			131,600	127,700		90,200		452,400	3,398,000
14		40,800			154,800	154,800		138,300		488,700	3,462,400
15		8,800			172,900	261,600		187,200		630,500	3,667,900
16		419,800								419,800	3,564,800
17		548,300								548,300	3,551,700
18		553,500								553,500	3,527,500
19		548,400								548,400	3,641,600
20		227,300			10,900	136,600		93,900		468,700	3,657,900
21		423,000			90,400					513,400	3,682,600
22		490,800								490,800	3,542,900
23		456,600			33,500	30,700		20,900		541,700	3,664,800
24		515,600								515,600	3,632,100
25		504,200								504,200	3,582,800
26		364,200			39,500	55,200		37,700		496,600	3,531,000
27		483,100								483,100	3,545,400
28		473,200								473,200	3,505,200
29		481,900								481,900	3,496,300
30											2,954,600
31											2,439,000
Total		10,556,600	12,400		1,482,600	1,583,000		1,061,000		14,695,600	14,695,600

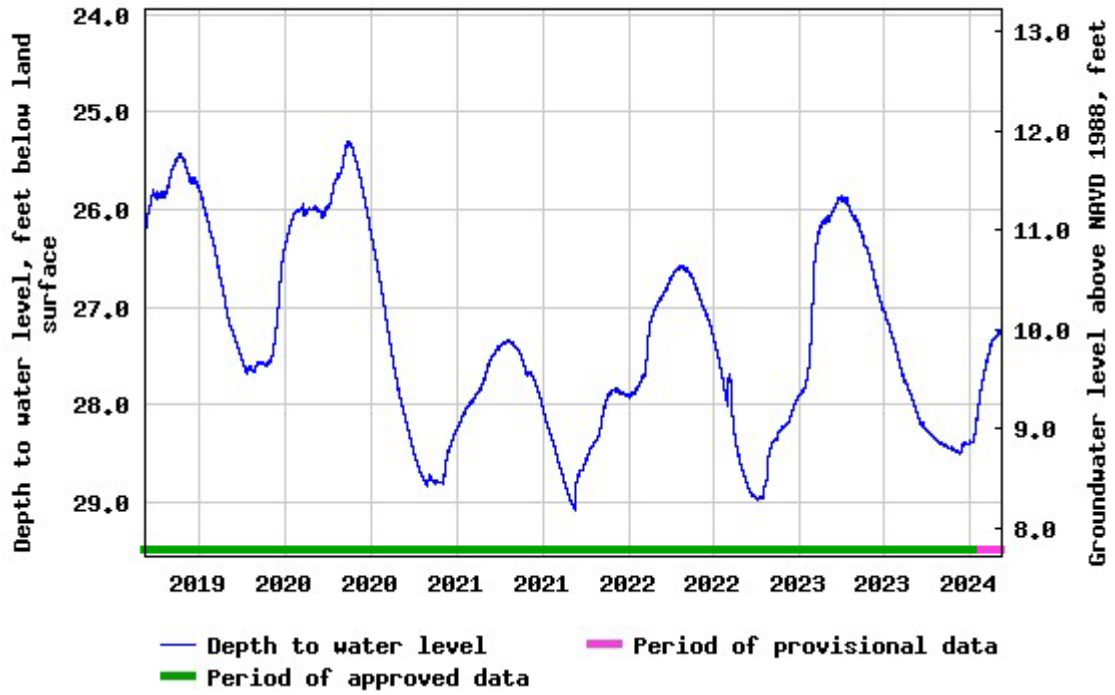


Annual Pumping Data 2024

	Well #1,2,&3	Well #4	Well #5	Well #6	Well #7	Well #8	Well #9	Monthly Total	Last Years Pumping	Variance
January	13,524,300	198,400	0	1,076,200	988,300	0	788,400	16,575,600	17,179,500	-603,900
February	10,556,600	12,400	0	1,482,600	1,583,000	0	1,061,000	14,695,600	17,798,000	-3,102,400
March								0		0
April								0		0
May								0		0
June								0		0
July								0		0
August								0		0
September								0		0
October								0		0
November								0		0
December								0		0
Totals	24,080,900	210,800	0	2,558,800	2,571,300	0	1,849,400	31,271,200	34,977,500	-3,706,300

USGS Groundwater Data – March 7, 2024

USGS 414101070011001 MA-CGM 138R CHATHAM, MA



USGS 414632070014901 MA-BWM 22R BREWSTER, MA

