



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 1, 2024 (for the March 5, 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 January 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:
 - Contractor submittals have been received for the prequalification process. 55 contractors submitted packages for review:

○ General Contractor	7
○ Masonry	5
○ Miscellaneous Metals	6
○ Waterproofing & Damproofing	4
○ Roofing & Flashing	4
○ Painting	5
○ Fire Protection	4
○ Plumbing	5
○ HVAC	8
○ Electrical	7
 - All potential bidders were approved.
 - Bids for construction contracts are anticipated in late March.

Mill Pond Wells 10 and 11 - Pumping & Treatment Construction

Project Progress

1. All work by contractor Robert B. Our is considered substantially complete.
2. Calibration of chemical tanks, SCADA programming, fire alarm equipment, employee training, etc. is ongoing.
3. The Conservation Easement and MOA for Well 10 has been generated, reviewed by Town Counsel, and sent to the property owner for signature.
4. MassDEP inspection of treatment plant to be scheduled later this winter.

Chatham Water Pumping Status:

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

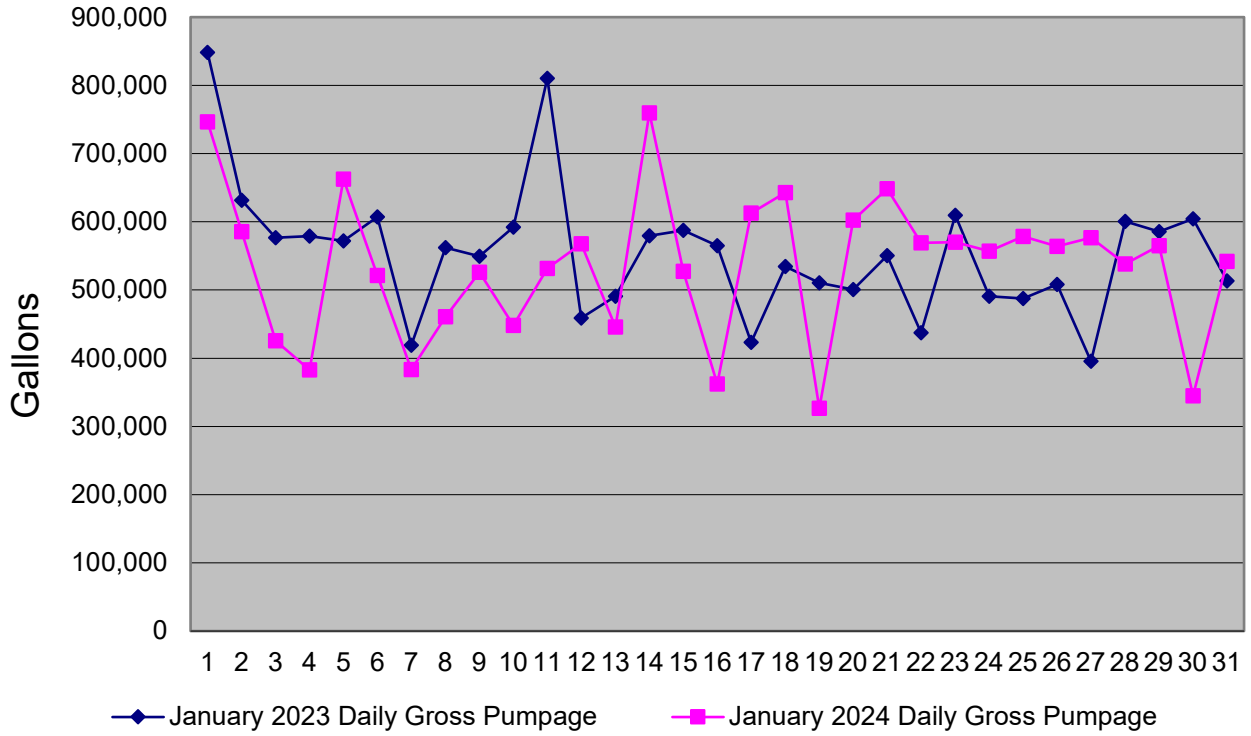
The Water Storage Tanks did not hit the low-level alarm this month.

Water Sampling

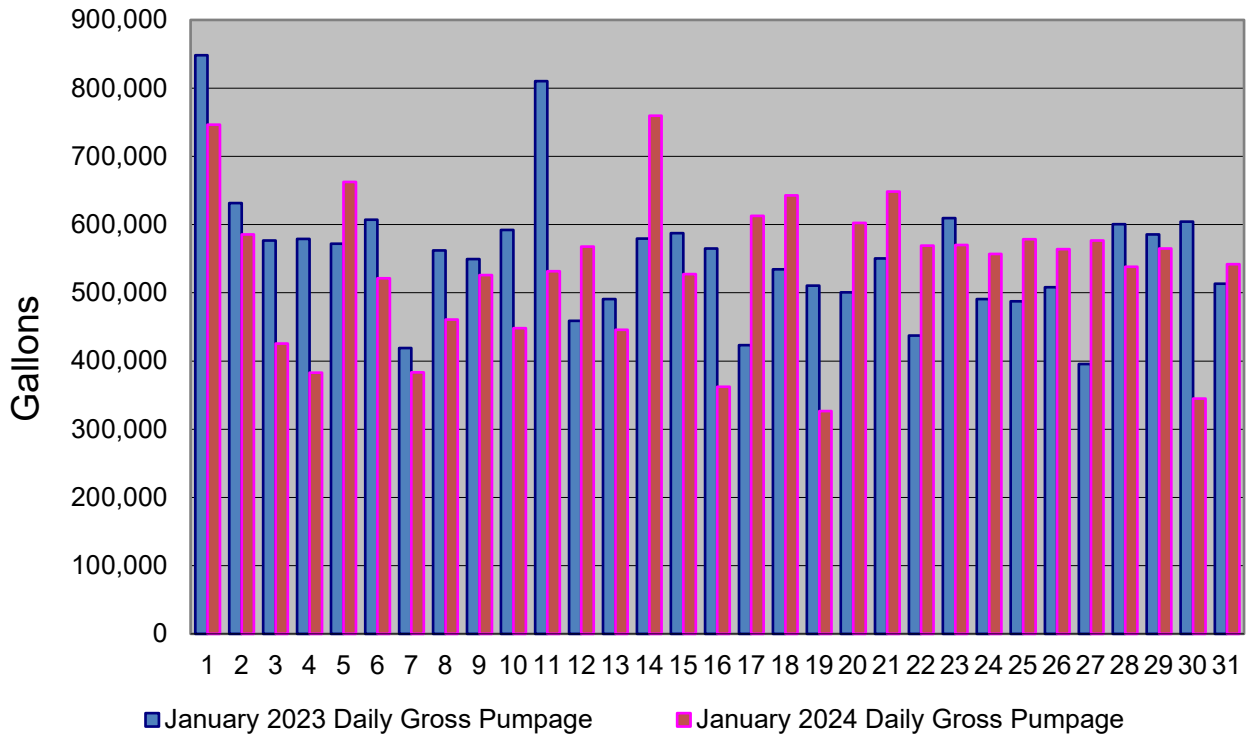
- First quarter samples were taken for PFAS6 from Wells 4, South Chatham treatment plant and the Morton Road treatment plant. Results from the Morton Road treatment plant showed a detect of PFOA well below the maximum contaminant level. We are currently resampling the individual wells to see if we can determine where the detect is coming from.

DATE	January 2023 Daily Gross Pumpage	January 2024 Daily Gross Pumpage	January 2023 vs. January 2024 Increase / Decrease (Gallons)	January 2023 vs. January 2024 Increase / Decrease (Percent)
1	848,200	746,300	(101,900)	-12%
2	631,600	585,500	(46,100)	-7%
3	576,800	425,700	(151,100)	-26%
4	578,900	382,700	(196,200)	-34%
5	572,100	662,500	90,400	16%
6	607,000	521,500	(85,500)	-14%
7	419,200	383,600	(35,600)	-8%
8	561,900	460,900	(101,000)	-18%
9	549,200	526,200	(23,000)	-4%
10	592,100	448,200	(143,900)	-24%
11	810,100	531,800	(278,300)	-34%
12	459,100	567,600	108,500	24%
13	490,700	445,700	(45,000)	-9%
14	579,300	759,700	180,400	31%
15	587,200	527,300	(59,900)	-10%
16	564,700	362,200	(202,500)	-36%
17	423,200	612,600	189,400	45%
18	534,500	642,900	108,400	20%
19	510,400	326,600	(183,800)	-36%
20	500,800	602,300	101,500	20%
21	550,200	648,300	98,100	18%
22	437,100	569,000	131,900	30%
23	609,300	570,100	(39,200)	-6%
24	490,900	557,000	66,100	13%
25	487,600	578,600	91,000	19%
26	508,300	563,900	55,600	11%
27	395,400	576,600	181,200	46%
28	600,700	538,300	(62,400)	-10%
29	585,500	565,100	(20,400)	-3%
30	604,100	345,100	(259,000)	-43%
31	513,400	541,800	28,400	6%
Total	17,179,500	16,575,600	(603,900)	-3.5%

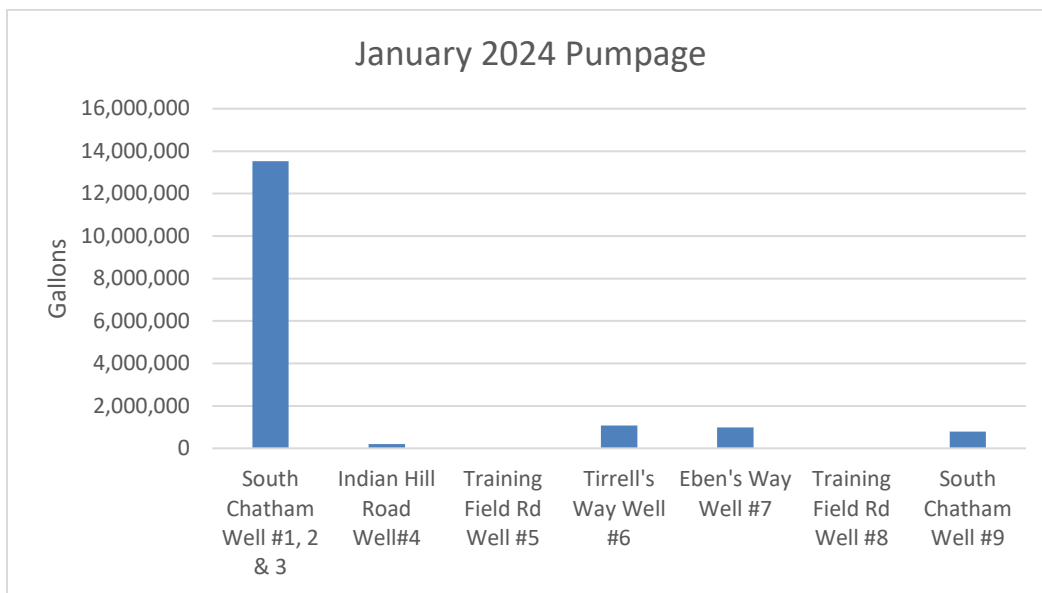
Pumping Comparison January 2023 vs 2024



Pumping Comparison January 2023 vs 2024



Chatham Water Department MONTHLY PUMPAGE REPORT							JAN 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	Daily Gross Pumpage	7 Day Pumpage Totals
1		625,100			50,900	40,000		30,300	746,300	746,300
2		585,500							585,500	1,331,800
3		425,700							425,700	1,757,500
4		215,800	43,100		51,300	41,100		31,400	382,700	2,140,200
5		498,300			53,700	52,000		58,500	662,500	2,802,700
6		470,500			21,700	9,700		19,600	521,500	3,324,200
7		383,600							383,600	3,707,800
8		460,900							460,900	3,422,400
9		526,200							526,200	3,363,100
10		448,200							448,200	3,385,600
11		531,800							531,800	3,534,700
12		65,100			196,100	162,600		143,800	567,600	3,439,800
13					150,300	187,400		108,000	445,700	3,364,000
14			90,900		249,300	226,900		192,600	759,700	3,740,100
15		209,700	64,400		89,500	98,400		65,300	527,300	3,806,500
16		305,900			28,200	10,200		17,900	362,200	3,642,500
17		509,600			44,700	37,300		21,000	612,600	3,806,900
18		607,000			18,200			17,700	642,900	3,918,000
19		268,400			23,000	20,000		15,200	326,600	3,677,000
20		602,300							602,300	3,833,600
21		589,200			23,700	20,100		15,300	648,300	3,722,200
22		569,000							569,000	3,763,900
23		523,400			22,600	13,700		10,400	570,100	3,971,800
24		424,900			53,000	44,800		34,300	557,000	3,916,200
25		578,600							578,600	3,851,900
26		563,900							563,900	4,089,200
27		576,600							576,600	4,063,500
28		538,300							538,300	3,953,500
29		533,900				24,100		7,100	565,100	3,949,600
30		345,100							345,100	3,724,600
31		541,800							541,800	3,709,400
Total		13,524,300	198,400		1,076,200	988,300		788,400	16,575,600	16,575,600
								Minimum	326,600	
								Maximum	759,700	
								Average	534,697	



Chatham 5-year Pumping Comparison (Month of January)

January Date	January 2020 Daily Gross Pumpage	Hours	January 2021 Daily Gross Pumpage	Hours	January 2022 Daily Gross Pumpage	Hours	January 2023 Daily Gross Pumpage	Hours	January 2024 Daily Gross Pumpage	Hours	Average Daily Pumpage (gallons)	Average Daily Pumpage (hours)
1	729,500	7	684,300	6.75	512,000	4	848,200	7	746,300	8	704,060	6.45
2	666,100	5	603,500	5	600,700	4	631,600	5	585,500	7	617,480	5.2
3	609,400	4	635,300	5.5	526,400	3.75	576,800	4.75	425,700	6	554,720	4.8
4	563,800	4	506,900	5	484,900	3.5	578,900	4.5	382,700	3	503,440	4
5	732,600	4	439,400	5.75	434,700	3.75	572,100	3	662,500	6.25	568,260	4.55
6	506,600	4	537,900	5.75	359,700	2.5	607,000	4	521,500	3	506,540	3.85
7	546,800	4	580,800	4.25	541,700	3.5	419,200	2.75	383,600	6.25	494,420	4.15
8	506,200	3	436,800	4.5	556,400	4.25	561,900	3.5	460,900	6	504,440	4.25
9	488,300	2	579,200	4.75	463,500	3.25	549,200	3.5	526,200	6	521,280	3.9
10	535,900	4	500,900	4	704,300	4.5	592,100	4	448,200	6	556,280	4.5
11	512,800	4	590,800	4.5	472,800	3.25	810,100	4.5	531,800	7	583,660	4.65
12	601,500	3	426,700	3.75	592,300	4	459,100	3	567,600	6	529,440	3.95
13	593,200	5	475,800	3.5	513,700	3.5	490,700	2.75	445,700	7	503,820	4.35
14	500,300	5	495,800	3	654,600	4.5	579,300	3.75	759,700	3	597,940	3.85
15	471,000	4	489,500	3.5	442,600	3.5	587,200	3.75	527,300	3	503,520	3.55
16	522,200	4	545,700	3.5	534,900	4.5	564,700	3.25	362,200	3	505,940	3.65
17	507,600	4	602,700	4.75	567,100	5	423,200	4.5	612,600	3	542,640	4.25
18	577,300	5	562,600	2.5	681,700	4.5	534,500	4.5	642,900	4.5	599,800	4.2
19	582,300	4	531,900	3.25	433,900	3	510,400	3	326,600	7.25	477,020	4.1
20	530,900	4	477,100	4	437,500	3.5	500,800	3	602,300	8.5	509,720	4.6
21	549,300	4	514,800	5	532,700	4	550,200	3.75	648,300	4	559,060	4.15
22	518,800	6	454,600	4	611,800	4.5	437,100	3	569,000	8.5	518,260	5.2
23	582,600	6	593,500	5	446,700	4	609,300	4.5	570,100	8	560,440	5.5
24	434,200	3.25	526,100	4	476,000	4	490,900	3.5	557,000	6.25	496,840	4.2
25	562,900	4	517,000	5	443,700	3	487,600	2.75	578,600	8.5	517,960	4.65
26	569,400	4	486,100	4.5	493,400	4	508,300	3	563,900	8	524,220	4.7
27	582,500	5	513,300	4.5	517,900	4	395,400	3.5	576,600	8.25	517,140	5.05
28	522,500	4	482,100	5	411,300	3	600,700	3.75	538,300	7.75	510,980	4.7
29	493,600	4	523,200	5.5	470,400	3.25	585,500	3.75	565,100	7.75	527,560	4.85
30	864,500	6	460,300	4.25	591,500	3.5	604,100	3.75	345,100	5	573,100	4.5
31	1,096,500	8	596,600	5	616,100	3.25	513,400	2.75	541,800	7.75	785,080	5.35
Total	18,061,100	137	16,371,200	139	16,126,900	117	17,179,500	116	16,575,600	190	16,975,060	139.65

Well Status	Well 4 Offline	Well 4 Offline	Well 4, 5 & 8 Offline	Well 4, 5 & 8 Offline	Well 4, 5 & 8 Offline
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