

TOWN OF HARWICH
BOARD OF WATER & WASTEWATER
COMMISSIONER'S AGENDA*
Harwich Water Department
196 Chatham Road, Harwich MA
Thursday, March 3, 2022, 11:00 a.m.

- I. CALL TO ORDER
- II. EXECUTIVE SESSION
- III. PUBLIC COMMENTS/ANNOUNCEMENTS
- IV. CONSENT AGENDA
 - A. Minutes
 - 1. January 13, 2022
- V. ABATEMENTS
- VI. OLD/UNFINISHED BUSINESS
- VII. NEW BUSINESS
 - A. Wastewater Recharge Area
 - B. Buck Slip
- VIII. SUPERINTENDENT'S REPORT
- IX. COMMISSIONER'S REPORT
- X. CORRESPONDENCE/ANY OTHER BUSINESS
- XI. NEXT MEETING: TBD
- XII. ADJOURNMENT

**Per the Attorney General's Office: The Board of Water Commissioners may hold an open session for topics not reasonably anticipated by the Chair 48 hours in advance of the meeting following "New Business."*

If you are deaf or hard of hearing or are a person with a disability who requires an accommodation, contact the Water Department Office at 508-432-0304 x.0 or by email at customerservice@harwichwater.com

Authorized Posting Officer:

Tracey Alves | Board Secretary

Town Posting: Date _____

_____ | Town Clerk

IV. CONSENT AGENDA

A. Minutes

1. **January 13, 2022** - *These Minutes added to this agenda in error. They were already approved at the last meeting. The Minutes of February 3, 2022 will be added to the next agenda for approval. Thank you!*

VII. NEW BUSINESS

A. Wastewater Recharge Area

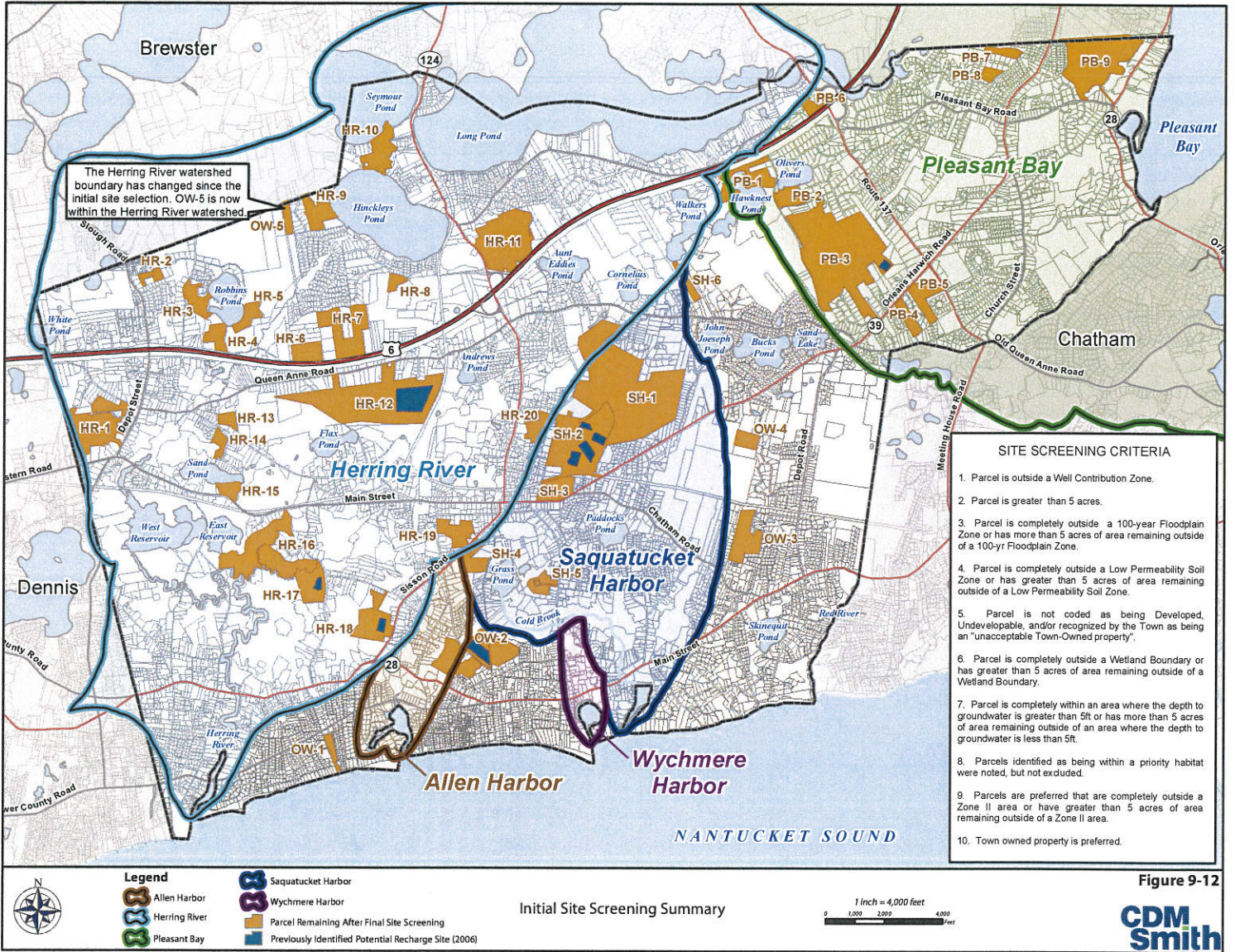
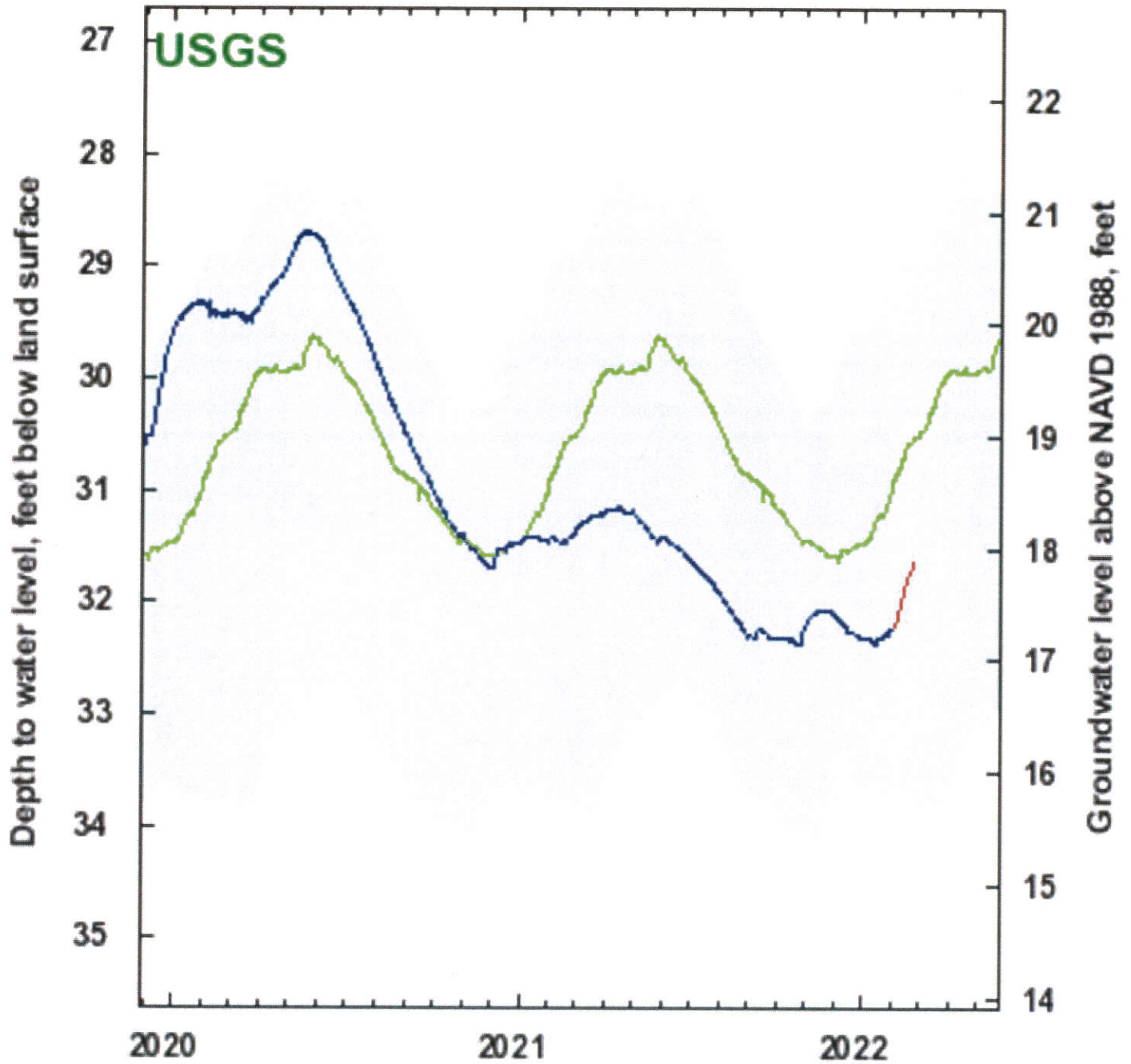


Figure 9-12



414632070014901 - MA-BMW 22R BREWSTER, MA



Years.

Plot created: 2/26/2022 23:05

Approved
Daily Data

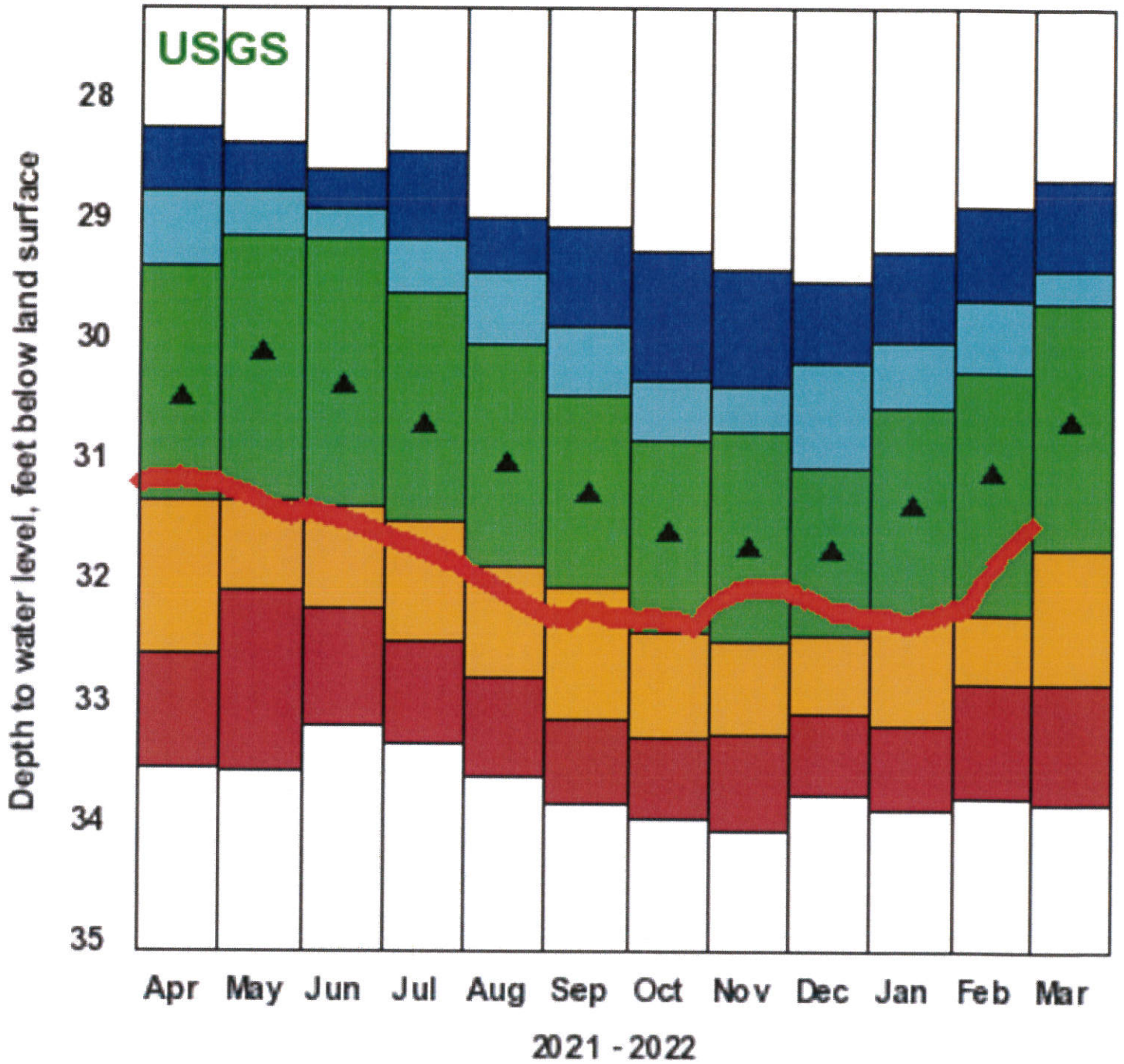
Provisional
Daily Data

Historical
Daily Median

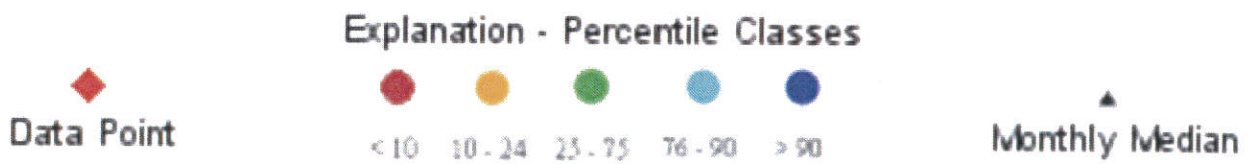
Range of

Approved Daily
Min & Max

4146 320700 14901 - MA-BMW 22R BREWSTER, MA



Plot created 03/02/22 06:18



X. CORRESPONDENCE

Month/Year February 2022

PWS No. 4126000

Monthly Pumpage Report Harwich Water Department

Date	T1							T2			T3		T10	T11
	Main 1	Main 2	Main 3	Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Well 7	Well 8	Well 9	Pump 10	Pump 11
1	39,172	32,843	29,908	61,018	43,920	50,235	89,982	73,800	76,902	74,003	80,835	78,593	96,404	85,110
2	25,678	22,021	20,299	40,223	29,243	33,298	61,451	56,633	59,442	56,735	58,377	56,741	86,250	50,876
3	28,628	25,954	23,626	48,187	34,691	39,823	71,747	65,980	69,560	66,258	68,434	66,480	60,384	72,399
4	38,513	35,073	43,596	90,704	46,219	52,269	97,873	121,038	94,390	90,112	125,451	121,911	79,876	97,185
5	0	0	27,546	62,314	43,031	44,930	75,831	76,782	80,820	76,862	79,798	77,839	92,228	53,379
6	0	0	38,662	81,290	57,697	66,762	117,050	107,932	113,483	108,163	110,641	107,423	129,557	116,485
7	63,029	57,059	51,151	109,581	77,586	89,976	154,333	51,699	53,098	51,884	53,056	51,513	61,457	55,799
8	28,184	25,380	23,315	48,039	34,364	39,531	70,741	65,182	68,580	65,251	67,347	65,460	78,152	71,269
9	43,806	39,589	36,707	73,300	52,977	60,502	110,889	102,326	105,978	102,518	104,793	101,754	122,735	110,043
10	27,415	24,780	22,380	47,417	33,612	38,912	68,058	62,427	65,743	62,563	64,664	62,807	75,106	68,399
11	27,974	25,246	22,885	48,370	34,286	39,677	69,097	63,565	66,946	63,706	65,988	64,111	76,472	69,810
12	42,546	38,424	35,647	70,783	51,364	58,679	107,886	99,606	101,982	99,789	102,134	99,206	118,124	107,447
13	28,709	25,850	23,549	49,546	35,145	40,709	71,223	65,561	69,020	65,678	67,839	65,949	78,648	71,851
14	28,179	25,389	23,036	48,560	34,513	39,918	70,027	64,475	67,830	64,687	66,739	64,838	77,378	70,668
15	33,263	29,937	27,116	57,334	40,564	46,904	81,364	67,632	70,803	67,543	69,012	67,279	103,642	84,130
16	39,532	43,845	40,382	82,230	59,097	67,501	121,993	112,677	117,989	112,938	116,046	112,749	95,460	122,787
17	34,270	22,757	20,929	42,847	30,582	35,122	63,240	58,246	61,150	58,264	60,147	58,454	108,989	63,540
18	28,183	25,405	23,252	48,291	34,385	39,746	70,039	64,350	67,820	64,548	66,761	64,924	77,435	70,670
19	48,346	44,301	41,089	83,820	60,238	68,913	124,426	114,840	120,500	115,081	118,298	114,956	120,033	125,173
20	25,990	22,258	20,547	41,827	30,106	34,507	62,230	57,390	60,389	57,482	59,212	57,514	86,597	62,621
21	29,310	26,328	23,941	50,217	35,781	41,266	72,748	66,921	70,547	67,085	69,425	67,475	80,417	73,556
22	47,861	43,056	39,946	80,199	58,063	66,381	121,190	111,877	117,273	112,103	114,925	111,663	127,349	121,785
23	22,986	20,621	19,154	38,234	27,686	31,608	58,164	63,155	66,196	63,283	66,674	64,919	130,804	113,789
24	25,941	23,327	21,430	43,694	31,405	36,046	65,131	59,896	63,007	59,910	61,849	60,109	71,957	65,458
25	28,938	26,039	23,877	49,401	35,323	40,676	72,437	66,606	70,214	66,754	61,459	59,717	80,025	73,176
26	28,392	25,557	23,293	48,322	34,597	39,798	70,846	65,202	68,735	65,370	67,537	65,650	78,234	71,528
27	46,108	41,088	19,420	77,260	55,987	63,959	116,370	107,443	112,917	107,799	110,373	107,203	128,985	116,862
28	26,853	24,179	22,272	45,457	32,763	37,520	67,505	62,028	65,185	62,251	64,244	62,473	42,435	67,909
29														
30														
31														
Pumps :	887,807	796,306	788,954	1,668,462	1,175,226	1,345,170	2,403,872	2,155,270	2,226,501	2,128,623	2,222,058	2,159,710	2,565,133	2,333,704
MIN :	0	0	19,154	38,234	27,686	31,608	58,164	51,699	53,098	51,884	53,056	51,513	42,435	50,876
MAX :	63,029	57,059	51,151	109,581	77,586	89,976	154,333	121,038	120,500	115,081	125,451	121,911	130,804	125,173
STATIONS :	9,065,797							6,510,394			4,381,768		2,565,133	2,333,704
TOTAL :	24,856,795													

Month/Year February 2021

PWS No. 4126000

Monthly Pumpage Report Harwich Water Department

Date	T1							T2			T3		T10	T11
	Main 1	Main 2	Main 3	Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Well 7	Well 8	Well 9	Pump 10	Pump 11
1	77,051	70,733	0	129,107	90,058	112,409	173,268	54,534	57,334	54,550	56,942	53,991	191,114	59,397
2	30,054	27,604	0	50,769	35,248	44,008	66,996	114,816	120,684	114,562	119,443	115,551	74,161	133,005
3	53,495	48,996	0	90,618	62,894	78,610	119,676	71,310	75,006	71,911	75,118	68,597	131,615	69,150
4	51,567	47,205	0	87,176	60,593	75,545	115,473	56,219	59,040	56,359	58,946	55,865	127,088	61,422
5	45,660	41,883	0	79,022	54,011	68,178	100,128	74,281	77,947	74,432	77,558	73,137	148,213	78,759
6	51,957	47,907	0	88,176	60,785	76,140	114,905	53,208	56,123	53,305	55,977	54,181	128,750	58,567
7	22,329	20,705	2	38,795	26,505	33,416	49,117	96,409	101,424	96,530	100,915	96,326	54,730	105,887
8	68,731	63,337	0	117,493	81,218	101,511	153,110	42,584	44,698	42,602	44,080	41,321	169,114	44,897
9	14,046	13,026	0	24,444	16,638	21,000	30,653	131,620	145,714	131,710	127,903	122,283	23,460	66,805
10	51,059	46,835	0	88,182	60,457	75,886	112,577	48,235	50,737	48,328	50,410	47,466	123,948	52,147
11	26,645	24,451	0	44,817	31,231	38,815	59,968	98,756	104,178	98,951	103,574	100,536	66,403	89,478
12	54,987	50,460	0	94,571	65,051	81,669	121,486	48,531	51,096	48,650	50,741	47,819	133,697	52,484
13	0	0	0	0	0	0	0	143,511	151,311	143,722	150,343	144,271	0	157,341
14	55,095	50,352	0	94,426	65,033	81,627	122,002	54,462	57,424	54,534	56,997	54,018	134,079	59,541
15	0	0	0	0	0	0	0	168,001	177,051	168,199	175,556	167,034	0	182,156
16	50,699	46,555	0	85,916	59,509	74,131	113,237	72,738	76,551	72,917	49,531	47,768	110,544	44,120
17	54,756	50,101	488	93,471	64,437	80,822	121,456	48,863	51,437	48,952	51,177	48,209	133,404	52,968
18	79,813	73,304	20,829	135,012	93,648	116,689	179,429	1,392	1,071	1,269	1,361	1,259	198,611	1,186
19	38,897	35,625	0	64,824	45,302	56,173	87,617	67,338	70,870	67,440	70,423	68,001	97,664	73,845
20	0	0	0	0	0	0	0	142,185	149,924	142,518	148,802	142,589	0	155,783
21	54,499	49,867	0	92,626	64,286	80,187	121,950	53,296	56,161	53,488	56,040	52,956	134,052	58,343
22	39,847	36,490	0	67,716	46,895	58,495	89,121	76,199	80,177	76,532	80,107	76,317	98,223	83,491
23	40,591	37,138	24,310	67,691	47,566	58,778	92,163	70,366	74,054	70,401	73,840	70,188	101,387	76,688
24	46,408	42,437	34,966	77,517	54,402	67,242	105,836	60,110	63,179	60,198	62,984	59,738	116,405	65,626
25	51,107	46,678	37,299	87,528	60,266	75,465	113,555	52,432	55,015	52,483	54,949	51,992	124,725	56,987
26	46,449	42,430	34,388	79,206	54,825	68,504	103,369	51,148	53,722	51,206	62,917	59,520	113,903	55,402
27	74,460	68,001	55,389	125,341	87,339	108,704	167,496	0	0	0	0	0	184,767	0
28	2,937	2,745	2,210	4,701	3,256	4,043	6,272	132,234	139,251	132,447	138,707	132,808	7,819	145,027
29														
30														
31														
Pumps :	1,183,138	1,084,866	209,881	2,009,146	1,391,455	1,738,047	2,640,860	2,084,777	2,201,177	2,088,196	2,155,341	2,053,741	2,927,876	2,140,502
MIN :	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX :	79,813	73,304	55,389	135,012	93,648	116,689	179,429	168,001	177,051	168,199	175,556	167,034	198,611	182,156
STATIONS :				10,257,392					6,374,150		4,209,082		2,927,876	2,140,502
TOTAL :							25,909,003							

Date February 2022
 PWS No. 4126000

Monthly Weather Report
 Harwich Water Department

Day	Snow Fall (in.) (Gallons)	Rain Fall (in.)	Temperature High (°F)	Temperature Low (°F)	Temperature AVG (°F)	Weather Comments	Operator
1		0.00	35	16	25		
2		0.00	41	33	37		
3		0.00	44	35	40		
4		1.56	51	34	43		
5		0.00	34	23	29		
6		0.00	32	23	28		
7		0.00	45	31	38		
8		0.49	47	35	41		
9		0.00	40	31	35		
10		0.00	48	33	41		
11		0.00	49	32	40		
12		0.00	51	41	46		
13		0.15	42	33	37		
14		0.15	33	17	25		
15		0.00	27	12	19		
16		0.00	43	15	29		
17		0.00	51	43	47		
18		0.23	53	32	43		
19		0.00	41	24	32		
20		0.00	36	23	30		
21		0.00	49	36	43		
22		0.45	50	32	41		
23		0.03	51	40	45		
24		0.03	39	31	35		
25		1.16	37	30	34		
26		0.00	34	27	30		
27		0.00	38	21	29		
28		0.00	32	22	27		
29							
30							
31							
Total		4.25					
Average		0.15	42.0	28.7			
Max		1.56	53.4	42.8			
Min		0.0	27.3	11.6			

Date February 2021
 PWS No. 4126000

Monthly Weather Report
 Harwich Water Department

Day	Snow Fall (in.) (Gallons)	Rain Fall (in.)	Temperature High (°F)	Temperature Low (°F)	Temperature AVG (°F)	Weather Comments	Operator
1		1.20	41	28	35		
2		0.02	45	37	41		
3		0.02	39	35	37		
4		0.02	41	31	36		
5		0.02	43	29	36		
6		0.02	44	34	39		
7		1.27	40	31	36		
8		0.00	34	22	28		
9		0.30	33	21	27		
10		0.00	33	22	28		
11		0.00	33	25	29		
12		0.00	29	21	25		
13		0.00	33	26	30		
14		0.00	39	32	35		
15		0.00	39	35	37		
16		0.19	50	38	44		
17		0.00	38	26	32		
18		0.18	35	28	32		
19		0.55	35	32	33		
20		0.03	36	28	32		
21		0.03	34	22	28		
22		0.63	41	21	31		
23		0.00	44	33	38		
24		0.00	49	34	41		
25		0.00	48	36	42		
26		0.00	41	30	35		
27		0.29	47	35	41		
28		0.01	44	34	39		
29							
30							
31							
Total		4.78					
Average		0.17	39.6	29.5			
Max		1.27	50.1	37.7			
Min		0.0	28.6	20.5			