

**BOARD OF WATER & WASTEWATER COMMISSIONER'S
MEETING AGENDA***
Harwich Water Department, 196 Chatham Road, Harwich MA
Wednesday, November 30, 2022
11:30 a.m.

**As required by Open Meeting Law, you are hereby informed that the Town will be video and audio taping as well as broadcasting this public meeting. In addition, anyone in the audience who plans to video or audio tape this meeting must notify the Chairman prior to the start of the meeting.*

- I. CALL TO ORDER
- II. EXECUTIVE SESSION
- III. PUBLIC COMMENTS / ANNOUNCEMENTS
- IV. CONSENT AGENDA
 - A. Minutes
 - 1. October 26, 2022
 - 2. November 9, 2022
- V. ABATEMENTS
 - A. 186 Main St
- VI. OLD BUSINESS
 - A. Town Charter/Bylaws Discussion
 - B. Water Ban Enforcement
- VII. NEW BUSINESS
 - A. Wastewater Funding Sources & Uses- Discussion; Town Administrator Joe Powers will attend
 - B. Water & Sewer Enterprise Funds Free Cash Certification
- 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 notreasonably 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:

Town Posting Date: _____

Tracey Alves | Board Secretary

_____ | Town Clerk

IV. CONSENT AGENDA

A. Minutes

1. October 26, 2022
2. November 9, 2022 -May be in packet in the AM

MINUTES
HARWICH WATER DEPARTMENT
BOARD OF WATER/WASTEWATER COMMISSIONERS
Wednesday, October 26, 2022
11:30 a.m.

WATER COMMISSIONER'S PRESENT: Chair Gary Carreiro, Vice Chair Allin Thompson, Clerk Noreen Donahue, Commissioner Judith Underwood, Commissioner John Gough

OTHERS PRESENT: Superintendent Dan Pelletier, Billing Administrator Wellesley Marsh, Administrative Assistant Tracey Alves

CALL TO ORDER

Chair Carreiro called the meeting to order at 11:30 a.m. Commissioner Underwood phoned into the meeting. All Commissioners are present.

EXECUTIVE SESSION

CONSENT AGENDA

- A. Minutes
 - 1. July 27, 2022
 - 2. August 25, 2022
 - 3. September 14, 2022
 - 4. September 28, 2022

Chair Carreiro entertained a motion to approve the consent agenda. Vice Chair Thompson motioned to approve the consent agenda with a second by Clerk Donahue. A roll call vote was taken with all Commissioners in favor; 5-0-0.

ABATEMENTS

- A. 10 Brooks Ln

Chair Carreiro motioned to deny the abatement request. Clerk Donahue seconded the motion. A roll call vote was taken with all Commissioners in favor; 5-0-0.

- B. FY23 Q1 Internal Adjustments

Vice Chair Thompson moved to approve the Internal Adjustments as presented. Commissioner Gough seconded the motion. A roll call vote was taken with all Commissioners in favor; 5-0-0.

- C. FY23 Q1 Water Department Usage

Vice Chair Thompson moved to approve the FY23 Q1 Water Department Usage. Commissioner Underwood seconded the motion. A roll call vote was taken with all Commissioners in favor; 5-0-0.

OLD/UNFINISHED BUSINESS

A. Water Restrictions & Enforcement

Citations in the amount of \$51,600 were issued as a result of the water ban. 55% have been collected so far. A meeting will be held later on with the Magistrate and District Court about the proceedings.

Superintendent Pelletier recommended lifting the ban as of today. Chair Carreiro motioned to lift the water restrictions effective immediately. The motion was moved by Clark Donahue and seconded by Commissioner Gough. A roll call vote was taken with all Commissioners in favor; 5-0-0.

The Board can reassess the restrictions next spring. Chair Carreiro amended the motion to finish up on all existing fines and halt enforcement for the time being. No new citations/fines from this day forward. Commissioner Underwood seconded. A roll call vote was taken with all Commissioners in favor; 5-0-0.

B. Town Charter/Bylaws Discussion

Until a response is provided discussion is contingent upon direction provided by Legal counsel.

C. Water & Wastewater Enterprise Funds

Superintendent Pelletier created a spreadsheet of the different wastewater funding sources. When it comes to the use of wastewater funds, the more that is written down the better, to make it clear, so there is no second guessing. The Board suggested to invite the Chair of the Select Board as well as the Town Administrator to a meeting to clarify the wastewater funding sources and what they should be used for.

The Wastewater Enterprise Fund should be solely controlled by the Board of Water & Wastewater Commissioners.

NEW BUSINESS

A. Approve Water Works Supplies Procurement under \$50K; Cape Cod Winwater

Superintendent Pelletier asked the Board to approve the contract contingent upon the receipt of executed Town of Harwich agreement and required Insurance certificates. Vice Chair Thompson moved to approve the Cape Cod Winwater contract contingent upon receipt of executed town of Harwich agreement and required Insurance certificates. Commissioner Gough seconded the motion. Further discussion took place.

Vice Chair Thompson moved to approve the Cape Cod Winwater contract with a second by Commissioner Gough. A roll call vote was taken with all Commissioners in favor; 5-0-0.

B. 20 Winding Way- Re: Service Tight Protection Plan; Eligibility for Coverage waiver

Chair Carreiro motioned to waive the Service Tight Protection Plan 90-day waiting period and continue coverage. Clerk Donahue seconded the motion. A roll call vote was taken with all Commissioners in

favor; 5-0-0.

C. Superintendent Procurement Thresholds

With the change in dynamics of purchasing supplies and services, Superintendent Pelletier wanted to see if the Board would be willing to establish a procurement threshold up to an amount that Dan would be able to sign contracts on behalf of the Board for regular business items.

Chair Carreiro is comfortable authorizing the Superintendent the leeway to sign contracts up to \$50,000. Chair Carreiro made clear that this authorization was for Superintendent Pelletier only and that if another Superintendent were to come on Board tomorrow, the authority would go back to the Board.

Chair Carreiro motioned to allow Superintendent Pelletier the procurement of contracts up to \$50,000. Vice Chair Thompson moved the motion with a second by Clerk Donahue.

Chair Carreiro amended the vote to made clear that this authorization is for Superintendent Pelletier only and that if another Superintendent were to come on Board tomorrow, the authority would go back to the Board. Clerk Donahue seconded the motion. A roll call vote was taken with all Commissioners in favor; 5-0-0.

D. Route 39 Verizon Wireless Lease

Superintendent Pelletier informed the Board that Verizon wants the Department to amend the terms the existing lease agreement for their cell equipment on the Route 39 tank. They would like a rent reduction and extension of the lease terms. While that is a great request, we are very limited to what we can do within the confines of the MA procurement laws. We can't legally make modifications than what was advertised in the initial RFP.

Legal counsel recommended doing a voluntary termination of the lease agreement and issue a new RFP in the spring.

E. Mass DEP Sanitary Survey

DEP is coming out on November 1, 2022 to perform their inspection.

F. Water Management Act Regulations Amendment

Superintendent Pelletier updated the Board regarding the DEP's desire to regulate registered drinking water wells.

SUPERINTENDENT'S REPORT

Superintendent Pelletier submitted three grant applications for ARPA funds.

The Department will be participating in voluntary glyphosate testing and monitoring on the State's dime.

The bids for Well #7 are out and should be due back this week.

Desmond Well Drilling is looking to begin drilling the sewer borings next week.

The low interest loan program for sewer through Barnstable County should be up and running by the first of the year.

We will be participating in the new permitting software that the Town Hall is rolling out, Open Gov within a month. Sewer permitting will be done through this site.

Annual master meter calibration is happening the second week in November including tank inspections as well as adhesion testing for the Pleasant Lake Tank which will determine if we are painting, overcoating or sand blasting.

NEXT MEETING

The next Board meeting will be held on Wednesday, November 9, 2022 at 11:30 a.m. and the following meeting after that on Wednesday, November 30, 2022.

ADJOURNMENT

Chair Carreiro motioned to adjourn at 12:52 p.m. Clerk Donahue seconded the motion, all in favor; 4-0-0.

Gary Carreiro, Chairman

Dan Pelletier, Superintendent

Allin P. Thompson, Vice Chair

Tracey Alves, Board Secretary

Noreen Donahue, Clerk

Judith Underwood

John Gough

V. ABATEMENTS

A. 186 Main St



**APPLICATION FOR ABATEMENT
WATER / WASTEWATER DEPARTMENT**
196 Chatham Road, Harwich MA 02645
P: 508-432-0304 | customerservice@harwichwater.com

OFFICE USE ONLY

Fiscal Year: _____
Date Rec'd: _____
Account #: _____

To the Board of Water/Wastewater Commissioners:

Name of Applicant: _____ hereby applies for abatement.

Property Owner: _____

Property Location: 186 MAIN ST

Email Address: _____

Phone: _____ Mobile Phone: _____

Total Bill Amount: \$600.00 Water Bill #: 424769

Amount Requested: WNAEVEN YOU THINK IS FAIR

Reason for Abatement Request (attach additional sheet if necessary)

SEE ENCLOSED NOTES...

Signature of Applicant: [Signature] Date: 11/4/22

SUBMIT completed application and required documentation to customerservice@harwichwater.com or mail to Harwich Water Department, Attention: BOWWC 196 Chatham Rd., Harwich MA 02645
MUST BE FILED WITH THE HARWICH BOARD OF WATER/WASTEWATER COMMISSIONERS NO LATER THAN THE DUE DATE WHICH THE WATER CHARGE BECAME A PART

OFFICE USE ONLY	
Board of Water/Wastewater Commissioners:	
Meeting Date: _____	Approved <input type="checkbox"/> Amount: _____ Denied <input type="checkbox"/>
Signature(s):	Notes:
X	
X	
X	
X	

PLEASE HELP ME UNDERSTAND HOW I WAS ABLE TO USE THIS MUCH WATER DURING THIS QUARTER.... 103,000 GALLONS.... UNLIKE PREVIOUS YEARS WE HAD WATER RESTRICTIONS IN PLACE, THEREFORE I COULD ONLY WATER MY LAWN 3 DAYS A WEEK IN JULY AND NOT AT ALL IN AUGUST AND SEPTEMBER....

IN 2021 WITH NO RESTRICTIONS I USED ... 82,000 GALLONS.... DURING THIS QUARTER ALONG WITH WATERING THE LAWN I WAS GROWING PLANTS AND HAD A VEGETABLE GARDEN WATERING AS NEEDED, USUALLY ON A DAILY BASIS. I NO LONGER HAVE THE NUMBERS FOR THE VEGETABLE GARDEN.

IN 2020 MY DAUGHTER AND GRANDDAUGHTER WERE LIVING WITH US AND WE WERE WATERING THE LAWN, PLANTS AND GARDEN AT WILL. TWO MORE PEOPLE SNOODLING, DOING LAUNDRY, ETC. THIS EXPLAINS THE HIGHER USAGE FOR THIS QUARTER.... 120,000 GALLONS

MY WIFE AND I ARE THE ONLY ONES LIVING HOME NOW AND THERE ARE NO WATER LEAKS ANYWHERE ON MY PROPERTY
THANKS FOR CONSIDERING MY REQUEST

Accounts

Account: 07286

3 N. WICKHAM 186 MAIN ST.
STIP MEMBER AS OF 12/3/15 (SENT NEW TERMS WITH INVOICE)

11/14/22 ABATEMENT REQUEST RECEIVED VIA SNAIL MAIL. BOWWC WILL REVIEW ON
11/30/22. SENT LETTER VIA SNAIL MAIL RELAYING THIS INFO.

10/27/22 OWNER WILL FILE FOR AN ABATEMENT. HE DID NOT BELIEVE OUR READING FROM
THE "SO CALLED METER". WM

10/6/22 MR. DION CALLED TO CONTEST WATER BILL. ESTIMATIONS WERE EXPLAINED BUT HE
BECAME CONFRONTATIONAL SO THE CALL HAD TO END. WM

9/22/22 CHANGED METER. 6440140. ESTIMATIONS WILL REMAIN AS-IS.

9/16/22 DID NOT READ. SET FOR 9-23. BULKHEAD WILL BE OPEN. OWNER ALSO ADDED THAT
HE THINKS THE DROUGHT IS FAKE SO WE MAILED EDUCATIONAL MATERIAL. WM

8/16/22 MAILED METER CHANGE CARD.
6/27/22 DID NOT READ FOR BILLING.

3/28/22 NOT READING. SENT EMAIL.

7/29/14 INSTALLED METER AND READER. 502100

DATE	CODE	READING	USAGE	AMOUNT	BALANCE
04/27/2005	1			121.85-	.00
03/16/2005	10	3260000	46000	121.85	121.85
01/03/2005	1			370.25-	.00
09/24/2004	10	3214000	118000	370.25	370.25
06/21/2004	1			135.45-	.00
03/09/2004	10	3096000	42000	110.45	135.45
01/30/2004	1			362.75-	25.00
01/13/2004	-1			25.00	387.75
09/26/2003	10	3054000	116000	362.75	362.75
05/06/2003	1			46.30-	.00
04/03/2003	1			360.90-	46.30
03/26/2003	10	2938000	27000	46.30	407.20
02/07/2003	-1			10.00	360.90
10/04/2002	10	2911000	176000	360.90	350.90
10/01/2002	5			10.00-	10.00-
08/27/2002	1			235.45-	.00
08/21/2002	-1			10.00	235.45
07/03/2002	1			372.35-	225.45
05/06/2002	10	2735000	113000	225.45	597.80
11/28/2001	10	2622000	179000	367.35	372.35
05/24/2001	600			5.00-	5.00
05/24/2001	601			10.00-	5.00
05/24/2001	1			276.35-	5.00
05/07/2001	55			10.00	296.35
02/13/2001	10	2443000	139000	281.35	286.35
11/13/2000	1			88.10-	.00
11/02/2000	55			5.00	93.10
08/03/2000	10	2304000	49000	88.10	88.10
05/31/2000	1			406.75-	.00
04/21/2000	10	2255000	195000	401.75	406.75
10/23/1999	100			5.00	5.00



11/28/2022 09:11
talves

TOWN OF HARWICH - LIVE DATA
UB Consumption History Report

P 1
ubnsinq

Account Number	Customer # Name	Mfr Meter Number	Cd	Read Date Time	Parcel By	Bill # Curr Read	Location Usage	Repl Usage	Charge Amt	Status Billed Amt	
07286	306959				56/S1-3-R		186 MAIN ST			Active	
1WATER-	1 WTR USAGE	E 12911730	A	09/23/2022		464769		0	103,000	583.08	600.08
1WATER-	1 WTR USAGE	N 31032613	I	09/23/2022		0	6440,000	103,000	0	.00	.00
1WATER-	1 WTR USAGE	N 31032613	E	06/22/2022		454108	6337,000	39,000	0	174.86	191.86
1WATER-	1 WTR USAGE	N 31032613	E	03/21/2022		443507	6298,000	2,000	0	47.70	64.70
1WATER-	1 WTR USAGE	N 31032613	A	12/20/2021		433150	6296,000	24,000	0	112.61	129.61
1WATER-	1 WTR USAGE	N 31032613	A	09/24/2021		422699	6272,000	82,000	0	431.43	448.43
1WATER-	1 WTR USAGE	N 31032613	A	06/22/2021		412254	6190,000	42,000	0	174.06	191.06
1WATER-	1 WTR USAGE	N 31032613	E	03/22/2021		401704	6148,000	2,000	0	37.58	54.58
1WATER-	1 WTR USAGE	N 31032613	A	12/21/2020		391251	6146,000	34,000	0	138.92	155.92
1WATER-	1 WTR USAGE	N 31032613	A	09/24/2020		380354	6112,000	120,000	0	620.22	637.22
1WATER-	1 WTR USAGE	N 31032613	A	06/22/2020		369926	5992,000	36,000	0	146.82	163.82
1WATER-	1 WTR USAGE	N 31032613	A	03/31/2020		359669	5956,000	2,000	0	37.58	54.58
1WATER-	1 WTR USAGE	N 31032613	A	01/02/2020		349355	5954,000	19,000	0	79.67	96.67
1WATER-	1 WTR USAGE	N 31032613	A	10/01/2019		338900	5935,000	102,000	0	517.26	534.26
1WATER-	1 WTR USAGE	N 31032613	A	06/24/2019		328532	5833,000	24,000	0	99.42	116.42
1WATER-	1 WTR USAGE	N 31032613	A	04/01/2019		318007	5809,000	1,000	0	36.29	53.29
1WATER-	1 WTR USAGE	N 31032613	A	12/31/2018		307667	5808,000	23,000	0	95.47	95.47
1WATER-	1 WTR USAGE	N 31032613	A	09/28/2018		297179	5785,000	91,000	0	454.34	454.34
1WATER-	1 WTR USAGE	N 31032613	A	06/28/2018		286864	5694,000	36,000	0	111.82	111.82
1WATER-	1 WTR USAGE	N 31032613	A	03/06/2018		276235	5658,000	33,000	0	140.95	208.95
1WATER-	1 WTR USAGE	N 31032613	A	09/05/2017		265448	5625,000	94,000	0	424.38	424.38
1WATER-	1 WTR USAGE	N 31032613	A	03/06/2017		254580	5531,000	42,000	0	176.50	244.50
1WATER-	1 WTR USAGE	N 31032613	A	09/06/2016		243783	5489,000	160,000	0	801.90	801.90
1WATER-	1 WTR USAGE	N 31032613	A	03/01/2016		232879	5329,000	63,000	0	259.45	327.45
1WATER-	1 WTR USAGE	N 31032613	A	08/31/2015		222240	5266,000	163,000	0	819.06	819.06
1WATER-	1 WTR USAGE	N 31032613	A	03/02/2015		211365	5103,000	58,000	0	225.24	225.24
1WATER-	1 WTR USAGE	N 31032613	A	08/25/2014		200722	5045,000	107,000	0	469.80	469.80
1WATER-	1 WTR USAGE	N 31032613	A	02/28/2014		190108	4938,000	61,000	0	236.43	236.43
1WATER-	1 WTR USAGE	N 31032613	A	08/29/2013		179552	4877,000	123,000	0	556.20	556.20
1WATER-	1 WTR USAGE	N 31032613	A	02/27/2013		164612	4754,000	42,000	0	160.31	160.31
1WATER-	1 WTR USAGE	N 31032613	A	08/27/2012		154090	4712,000	140,000	0	617.55	617.55
1WATER-	1 WTR USAGE	N 31032613	A	02/29/2012		143527	4572,000	45,000	0	165.50	165.50
1WATER-	1 WTR USAGE	N 31032613	A	09/07/2011		133101	4527,000	127,000	0	525.70	525.70
1WATER-	1 WTR USAGE	N 31032613	A	03/01/2011		122473	4400,000	51,000	0	180.60	180.60
1WATER-	1 WTR USAGE	N 31032613	A	08/26/2010		112146	4349,000	149,000	0	627.40	627.40
1WATER-	1 WTR USAGE	N 31032613	A	03/08/2010		101817	4200,000	60,000	0	183.00	183.00
1WATER-	1 WTR USAGE	N 31032613	A	08/27/2009		91653	4140,000	107,000	0	380.50	380.50
1WATER-	1 WTR USAGE	N 31032613	A	02/25/2009		81524	4033,000	56,000	0	170.60	170.60
1WATER-	1 WTR USAGE	N 31032613	A	08/28/2008		71530	3977,000	158,000	0	610.00	610.00
1WATER-	1 WTR USAGE	N 31032613	A	03/05/2008		61729	3819,000	52,000	0	138.95	138.95
1WATER-	1 WTR USAGE	N 31032613	A	08/30/2007		51885	3767,000	151,000	0	494.00	494.00
1WATER-	1 WTR USAGE	N 31032613	A	03/07/2007		42108	3616,000	28,000	0	72.75	72.75
1WATER-	1 WTR USAGE	A 007286	A	09/12/2006		32338	3588,000	130,000	0	415.25	415.25
1WATER-	1 WTR USAGE	A 007286	A	03/07/2006		22662	3458,000	51,000	0	136.10	136.10
1WATER-	1 WTR USAGE	A 007286	A	08/31/2005		13047	3407,000	147,000	0	479.00	479.00
1WATER-	1 WTR USAGE		A	03/16/2005		7286	3260,000	46,000	0	121.85	121.85
1WATER-	1 WTR USAGE		A	09/24/2004		9072450	3214,000	118,000	0	370.25	370.25
1WATER-	1 WTR USAGE		A	03/09/2004		9072449	3096,000	42,000	0	110.45	110.45
1WATER-	1 WTR USAGE		A	09/26/2003		9072448	3054,000	116,000	0	362.75	362.75
1WATER-	1 WTR USAGE		A	03/26/2003		9072447	2938,000	27,000	0	46.30	46.30
1WATER-	1 WTR USAGE		A	10/04/2002		9072446	2911,000	176,000	0	360.90	360.90

VII. NEW BUSINESS

- A. Wastewater Funding Sources & Uses- Discussion;
Town Administrator Joe Powers will attend

Draft Wastewater Funding Sources & Uses

Selectboard	Selectboard	Selectboard	Board of Water & Wastewater Commissioners
General Fund (Free Cash/Debt Exclusion)	Wastewater Special Purpose Stabilization Fund	Water Infrastructure Investment Fund (WIIF)	Sewer Enterprise Fund
CWMP Related Expenses	Wastewater Debt	<i>Not yet established</i>	Capital expenses - WW Facility Improvements
Land Acquisition	CWMP Related Expenses	Wastewater Debt	Purchase/replacement of WW equipment
Design Expenses		CWMP Related Expenses	Collections system repairs/upgrades
Legal Expenses			Expenses related to existing WW infrastructure
IMA/Capacity Purchasing			
Wastewater Debt			
WW Construction			

VII. NEW BUSINESS

B. Water & Sewer Enterprise Funds Free Cash Certification

Free Cash Certification
Retained Earnings Calculation - Water - Fiscal Year 2023

Enterprise Fund Number	A-2(1ST)
Type of Enterprise Fund	Water
Name of Enterprise Fund/Statutory Reference	Water

Part I Cash		2,686,441.00
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Current Liabilities, Designations of Fund Balance:

Accounts Payable	0.00
Payroll Payable	0.00
Warrants Payable	0.00
Encumbrances	32,061.00
Expenditures	390,000.00
Continuing Appropriations	65,000.00

Other Liabilities

0.00

Total	487,061.00
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Cash less Current Liabilities		2,199,380.00
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Part II Retained Earnings, Undesignated		2,199,380.00
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Accounts Receivable (net):

User Fees	0.00
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Other Accounts Receivable

0.00

Total	0.00
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Undesignated Retained Earnings Less Accounts Receivable		2,199,380.00
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Fixed Assets

Debits:

0.00

Total	0.00
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Credits:

0.00

Total	0.00
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Free Cash Certification
Retained Earnings Calculation - Water - Fiscal Year 2023

Fixed Assets Variance (Debits - Credits)	<i>0.00</i>
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X. CORRESPONDENCE

Month/Year October 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	41,201	36,626	45,724	75,275	52,967	63,494	0	93,849	99,031	0	95,386	94,406	117,697	107,281
2	70,223	62,318	77,414	127,267	89,974	107,349	0	161,020	169,652	0	162,762	161,252	201,798	171,020
3	91,995	81,172	101,019	169,814	118,547	133,428	0	143,215	150,838	0	139,660	138,006	153,436	144,363
4	67,744	60,147	74,538	123,282	86,721	103,618	0	154,472	162,720	0	155,775	154,284	193,345	151,976
5	83,372	73,912	92,565	155,964	56,609	129,881	0	186,594	196,669	0	189,753	187,973	234,169	204,462
6	37,253	32,874	41,383	68,240	47,746	57,366	2	84,865	89,345	0	85,713	84,960	106,023	92,392
7	73,492	65,313	81,602	134,575	94,341	113,001	0	167,154	175,966	0	169,221	167,700	234,789	182,604
8	67,856	60,344	74,345	123,351	86,781	103,957	0	155,338	163,653	0	156,648	155,321	192,397	168,846
9	77,352	68,563	84,069	141,458	98,707	119,037	0	175,723	185,176	0	177,809	176,146	219,970	192,162
10	74,676	66,322	81,418	136,364	95,423	114,799	0	170,077	179,213	0	172,202	170,321	212,173	185,786
11	42,129	37,343	46,562	77,531	54,048	65,207	0	94,885	100,041	0	96,254	95,279	147,962	103,690
12	78,852	70,106	87,393	144,143	100,880	121,305	0	179,680	189,294	0	182,038	180,247	224,788	196,508
13	73,563	65,328	81,778	134,279	94,471	113,219	0	168,378	177,414	0	170,653	169,112	211,079	184,214
14	45,249	40,077	50,461	83,175	58,166	69,938	0	102,400	108,001	0	104,179	103,265	128,445	112,433
15	70,095	62,173	77,744	128,520	90,199	108,277	0	159,951	168,609	0	161,723	160,462	200,516	174,522
16	43,938	38,988	48,880	81,153	56,677	68,183	0	99,053	104,442	0	100,869	99,976	124,065	108,592
17	74,523	66,395	82,637	136,660	96,015	115,237	0	169,933	179,011	0	171,888	170,482	212,615	185,576
18	39,779	35,518	44,633	73,346	51,429	61,806	0	90,604	95,534	0	92,001	91,210	113,627	99,143
19	68,667	58,461	71,012	120,420	84,647	101,427	0	149,309	157,272	0	172,606	171,206	177,354	186,045
20	43,100	40,941	50,582	84,351	58,146	70,937	0	104,911	110,404	0	84,649	83,851	140,341	91,148
21	77,618	69,095	84,990	142,363	99,770	119,769	0	176,462	185,835	0	178,752	176,926	220,894	192,755
22	39,709	35,349	44,291	72,807	51,142	61,420	0	90,304	95,154	0	178,752	176,926	112,996	192,755
23	60,047	53,522	66,117	109,235	76,897	92,038	0	137,885	145,244	0	162,010	160,725	156,062	137,807
24	41,888	37,571	47,248	77,777	54,370	65,462	0	95,838	101,154	0	97,336	96,361	120,064	104,885
25	42,514	37,874	47,942	78,382	55,297	66,055	0	96,729	102,013	0	98,338	97,395	121,057	106,084
26	61,244	52,033	65,243	106,568	75,334	89,930	0	134,643	141,659	0	160,601	159,402	159,109	173,138
27	39,280	37,509	47,126	76,403	54,026	64,612	0	97,440	102,637	0	73,648	73,097	130,607	79,273
28	44,206	39,449	48,535	81,459	57,186	68,639	0	100,493	105,846	0	102,289	101,420	125,890	110,257
29	68,818	61,793	74,695	126,034	88,854	106,340	0	159,298	167,816	0	160,803	159,620	195,773	173,412
30	50,508	45,189	55,474	91,624	64,714	77,508	0	117,082	123,268	0	109,882	108,933	139,602	119,107
31	20,877	18,604	23,040	38,455	26,832	32,365	0	47,420	49,919	0	48,224	47,727	59,283	52,045
Pumps :	1,811,769	1,610,910	2,000,459	3,320,277	2,276,915	2,785,602	2	4,065,005	4,282,826	0	4,212,424	4,173,991	5,087,926	4,484,281
MIN :	20,877	18,604	23,040	38,455	26,832	32,365	0	47,420	49,919	0	48,224	47,727	59,283	52,045
MAX :	91,995	81,172	101,019	169,814	118,547	133,428	2	186,594	196,669	0	189,753	187,973	234,789	204,462
STATIONS :	13,805,933							8,347,831			8,386,415		5,087,926	4,484,281
TOTAL :	40,112,386													

Month/Year October 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	97,613	88,344	78,035	166,996	118,508	149,787	235,961	210,754	222,157	211,474	230,899	249,368	310,701	252,088
2	112,896	100,342	89,285	187,641	133,775	168,792	269,636	248,413	261,557	248,934	246,530	260,114	298,412	248,712
3	107,565	93,538	83,773	174,228	124,839	156,845	251,773	232,548	244,638	232,071	274,173	292,786	272,629	287,034
4	89,795	82,111	74,097	151,390	109,185	136,952	223,230	205,081	215,652	206,154	184,830	197,373	253,169	194,350
5	82,320	73,235	65,876	134,730	97,251	121,695	199,188	183,475	193,026	183,637	192,443	205,448	214,095	201,728
6	83,044	73,756	66,616	135,755	98,239	122,916	201,785	185,464	195,297	186,145	194,715	207,892	229,403	204,287
7	82,400	72,295	65,621	135,937	97,754	122,786	198,132	182,798	192,405	183,065	191,820	204,517	241,871	200,851
8	87,173	77,180	69,234	143,891	103,331	129,791	209,165	192,532	202,635	192,886	201,890	215,498	231,529	212,077
9	95,441	84,559	76,344	192,717	113,106	142,119	229,495	211,205	222,466	211,063	221,863	237,142	253,712	232,357
10	82,775	73,363	66,628	135,496	97,744	122,273	200,947	184,894	194,675	185,152	193,853	207,091	222,303	203,541
11	99,876	88,284	80,857	161,859	117,438	146,448	243,627	224,754	236,603	225,166	235,364	251,662	270,087	247,181
12	85,530	76,034	69,241	138,648	100,757	125,659	208,724	192,440	202,500	192,641	202,073	216,079	231,277	211,575
13	97,998	87,131	79,207	158,589	115,477	144,250	239,813	220,391	232,228	220,642	231,036	246,875	258,769	242,598
14	79,548	68,329	61,568	126,639	91,229	114,503	185,304	171,073	180,076	170,850	190,066	203,341	266,962	189,676
15	81,413	74,320	66,608	139,337	99,704	126,008	201,013	184,952	194,444	186,015	182,836	195,411	228,825	192,128
16	83,497	73,872	66,298	138,326	99,200	125,109	199,728	183,788	193,378	184,297	192,828	206,269	220,742	202,065
17	72,329	64,088	57,795	118,830	85,664	107,340	173,826	160,679	168,885	160,924	168,553	179,738	190,457	176,598
18	55,298	47,042	42,049	86,760	62,549	78,679	127,096	117,675	123,664	117,270	154,235	167,633	143,055	172,050
19	90,696	82,654	73,857	152,976	110,387	138,606	222,782	152,445	159,884	153,352	190,219	200,417	222,041	189,386
20	83,589	74,214	66,433	137,414	99,203	129,533	213,075	131,074	137,832	131,258	88,108	93,912	265,281	144,477
21	69,452	61,657	55,275	114,043	82,346	103,766	166,921	153,468	161,539	153,609	100,746	110,747	184,102	180,967
22	72,175	63,911	57,487	118,745	85,600	107,690	173,057	159,805	167,810	160,009	182,410	194,763	191,913	190,752
23	69,031	61,275	54,881	113,131	81,558	102,727	165,281	152,880	160,342	153,025	148,151	158,169	183,349	155,190
24	68,118	60,416	54,205	111,318	80,415	101,213	163,315	151,110	158,538	151,156	153,724	161,310	181,172	150,667
25	71,173	63,214	56,865	115,773	83,625	105,101	170,415	162,243	169,822	162,456	155,987	166,648	189,224	172,060
26	43,660	38,609	35,031	71,237	51,534	64,708	105,128	97,305	102,275	97,472	102,055	109,275	116,930	107,081
27	49,597	43,663	39,797	80,387	58,456	73,247	119,706	110,502	116,245	110,626	20,231	21,609	133,106	52,709
28	38,231	33,753	30,849	61,565	44,915	56,191	92,749	86,072	89,996	86,094	90,204	96,415	103,320	94,326
29	41,027	36,287	33,062	66,132	48,227	60,327	99,346	91,957	96,482	92,012	96,318	105,830	110,343	111,211
30	58,182	51,533	47,039	93,326	68,224	85,180	141,013	130,823	136,545	130,816	137,174	143,492	156,770	133,080
31	41,708	36,987	33,750	67,117	48,955	61,248	101,183	93,676	98,132	93,744	98,246	105,189	112,379	102,808
Pumps :	2,373,149	2,105,993	1,897,666	3,930,932	2,809,195	3,531,489	5,732,413	5,166,276	5,431,728	5,174,014	5,253,580	5,612,013	6,487,928	5,655,610
MIN :	38,231	33,753	30,849	61,565	44,915	56,191	92,749	86,072	89,996	86,094	20,231	21,609	103,320	52,709
MAX :	112,896	100,342	89,285	192,717	133,775	168,792	269,636	248,413	261,557	248,934	274,173	292,786	298,412	287,034
STATIONS :	22,380,837				15,772,019				10,865,593		6,487,928	5,655,610		
TOTAL :	61,161,987													

Date October 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		0.06	60	53	57		
2		1.38	60	53	56		
3		0.00	56	53	54		
4		0.00	60	55	57		
5		0.35	63	59	61		
6		0.48	63	54	59		
7		0.01	67	54	60		
8		0.05	60	46	53		
9		0.09	59	39	49		
10		0.00	63	44	53		
11		0.00	62	47	54		
12		0.00	66	50	58		
13		0.00	65	59	62		
14		1.17	65	60	63		
15		0.63	63	54	58		
16		0.03	66	49	58		
17		0.00	63	53	58		
18		1.13	66	56	61		
19		0.00	59	45	52		
20		0.02	59	40	50		
21		0.00	62	47	54		
22		0.00	62	45	54		
23		0.60	59	50	55		
24		0.02	66	59	62		
25		0.32	69	60	65		
26		2.57	69	63	66		
27		0.00	68	54	61		
28		0.00	55	51	53		
29		0.00	59	43	51		
30		0.00	62	39	51		
31		0.00	60	43	51		
Total		8.91					
Average		0.29	62.4	50.9			
Max		2.57	69.1	63.2			
Min		0.0	55.0	39.0			

Date October 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		0.00	63	50	57		
2		0.00	68	49	58		
3		0.00	71	59	65		
4		1.76	65	58	61		
5		0.40	61	58	60		
6		0.00	66	53	60		
7		0.00	67	50	59		
8		0.00	68	54	61		
9		0.00	64	59	61		
10		0.00	63	58	60		
11		0.00	68	59	63		
12		0.00	68	55	61		
13		0.00	69	54	62		
14		0.00	68	59	64		
15		0.00	64	60	62		
16		0.00	71	62	67		
17		0.81	66	53	59		
18		0.00	60	51	56		
19		0.00	59	49	54		
20		0.00	67	53	60		
21		0.00	69	59	64		
22		0.00	70	60	65		
23		0.00	64	51	57		
24		0.00	57	44	51		
25		0.39	65	51	58		
26		1.11	64	57	61		
27		1.29	59	-20	19		
28		0.00	52	49	51		
29		0.00	55	47	51		
30		0.49	62	53	57		
31		0.67	64	57	61		
Total		6.92					
Average		0.22	64.5	52.0			
Max		1.76	71.2	61.9			
Min		0.0	52.3	-20.0			