

BOARD OF WATER COMMISSIONER'S AGENDA*
Conference Room, Harwich Water Department
196 Chatham Road, Harwich, MA
Tuesday, November 13, 2018, 2:00 p.m.

- I. CALL TO ORDER
- II. PUBLIC COMMENTS/ANNOUNCEMENTS
- III. CONSENT AGENDA
 - A. Minutes-
 - a. September 17, 2018
 - b. October 10, 2018
- IV. ABATEMENTS
 - A. 16 Quason Lane
 - B. 490 Pleasant Lake Ave
 - C. 371 Route 28, Unit 13
 - D. Julian Rd & Route 28-Garden Club of Harwich
 - E. Chase St & Route 28- Garden Club of Harwich
 - F. Route 137 Exit 11-Garden Club of Harwich
- V. OLD/UNFINISHED BUSINESS
 - A. Lower County Road Water Main Project- *update*
- VI. NEW BUSINESS
 - A. Lower County Road Pay Requisition #2
 - B. FY20 Budget Review
 - C. Water Liens- *vote*
 - D. National Grid Project-Water Service Replacement Bid
- VII. SUPERINTENDENT'S REPORT
- VIII. COMMISSIONER'S REPORT
- IX. CORRESPONDENCE/ANY OTHER BUSINESS
- X. NEXT MEETING; TBD
- XI. 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

Tracey Alves, Board Secretary

Posted By: _____

Town Clerk

Date: _____

Form Name: Abatement Application

Date of Submission: Fri, 19 Oct 2018 10:15:47 -0400

Your server: www.harwichwater.com

IP address of person using form: 108.35.161.197

URL of page containing form: <http://www.harwichwater.com/customer-service/billing-payments/abatement-application.html>

Name of Applicant:

Mailing Address:

City/Town: Ridgewood

State: New Jersey

Zip/Postal Code: 07450

Phone Number:

Mobile Phone Number:

Email Address:

Date of Water Use Charge: 15 October 2018

Name of Person Assessed (Owner):

Location and Description of Property: 16 Quason Lane
Harwich Port, MA

Total Amount Assessed: 711.74

Total Amount Requested: 350.00

Reason For Abatement Request: Water leak identified and now repaired, believe the leak was a large percentage of the usage. We would like an adjustment as the water was not utilized by my family. We are a water conscience family and very disappointed in this wasted precious comm

SUBSCRIBED THIS DAY UNDER PENALTIES OF PERJURY: 19 October 2018

AGREE?: Checked

RECOMMENDATION: APPROVE DENY

BOARD OF WATER COMMISSIONERS

DATE

SIGNATURE

_____	_____
_____	_____
_____	_____

11/09/2018 11:01
talves

TOWN OF HARWICH - LIVE DATA
UB Consumption History Report

P 1
ubcnsinq

Account Number	Customer # Name			Parcel			Location				Status
Service	Mfr Meter Number	Cd	Read Date Time	By	Bill #	Curr Read	Usage Repl Usage Charge Amt Billed Amt				
00238	93943			7/A29-R			16 QUASON LN				Active
1WATER-	1 WTR USAGE N	84445089	A 10/01/2018		290153	458,000	136,000	0	711.74	711.74	
1WATER-	1 WTR USAGE N	84445089	A 06/27/2018		279869	322,000	99,000	0	465.10	465.10	
1WATER-	1 WTR USAGE N	84445089	A 03/05/2018		269206	223,000	3,000	0	73.87	73.87	
1WATER-	1 WTR USAGE N	84445089	A 09/05/2017		258420	220,000	71,000	0	292.82	292.82	
1WATER-	1 WTR USAGE N	84445089	A 03/06/2017		247554	149,000	20,000	0	102.60	102.60	
1WATER-	1 WTR USAGE N	84445089	A 09/06/2016		236757	129,000	129,000	0	624.58	624.58	
1WATER-	1 WTR USAGE N	84445089	A 02/29/2016		225852		0	0	70.00	70.00	

** END OF REPORT - Generated by Tracey **

Abatement Request

Form Name: Contact Form

Date of Submission: Wed, 24 Oct 2018 19:22:14 -0400

Your server: www.harwichwater.com

IP address of person using form: 24.45.134.34

URL of page containing form: <http://www.harwichwater.com/customer-service/contact-form.html>

Your Name:

Email Address: _____

Subject: water

Account Number: 02178

Service Address: 490 pleasant lake ave

Billing Address:

City/Town: milford

State: Connecticut

Postal/Zip Code: 06460

Message: I had two broken water heads on my irrigation system. I was in the hospital for two and a half weeks and was not aware of the issue. my back yard was like a pond soory
Anything you can do to help....the water was going constantly...thanks

RECOMMENDATION: APPROVE DENY

BOARD OF WATER COMMISSIONERS

DATE

SIGNATURE

_____	_____
_____	_____
_____	_____



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talves

TOWN OF HARWICH - LIVE DATA
UB Consumption History Report

P 1
ubcnsing

Account Number	Customer #	Name	Parcel	Location	Status
Service	Mfr Meter Number		By	Usage Repl Usage Charge Amt Billed Amt	
02178	302156		100/J4-A-R	490 PLEASANT LAKE AV	Active
1WATER-	1	WTR USAGE N	77350901	A 09/28/2018	292087 2598,000 213,000 0 1,152.18 1,152.18
1WATER-	1	WTR USAGE N	77350901	A 06/27/2018	281800 2385,000 98,000 0 459.38 459.38
1WATER-	1	WTR USAGE N	77350901	A 03/05/2018	271142 2287,000 4,000 0 75.16 75.16
1WATER-	1	WTR USAGE N	77350901	A 09/05/2017	260356 2283,000 238,000 0 1,248.06 1,248.06
1WATER-	1	WTR USAGE N	77350901	A 03/06/2017	249490 2045,000 75,000 0 315.70 315.70
1WATER-	1	WTR USAGE N	77350901	A 09/06/2016	238694 1970,000 302,000 0 1,614.14 1,614.14
1WATER-	1	WTR USAGE N	77350901	A 03/01/2016	227790 1668,000 115,000 0 544.50 544.50
1WATER-	1	WTR USAGE N	77350901	A 08/31/2015	217151 1553,000 218,000 0 1,133.66 1,133.66
1WATER-	1	WTR USAGE N	77350901	E 03/09/2015	206275 1335,000 42,000 0 165.56 165.56
1WATER-	1	WTR USAGE N	77350901	A 08/26/2014	195632 1293,000 179,000 0 858.60 858.60
1WATER-	1	WTR USAGE N	77350901	A 02/25/2014	185017 1114,000 37,000 0 146.91 146.91
1WATER-	1	WTR USAGE N	77350901	A 08/28/2013	174458 1077,000 140,000 0 648.00 648.00
1WATER-	1	WTR USAGE N	77350901	A 02/25/2013	162776 937,000 46,000 0 174.43 174.43
1WATER-	1	WTR USAGE N	77350901	A 08/28/2012	152255 891,000 225,000 0 1,052.75 1,052.75
1WATER-	1	WTR USAGE N	77350901	A 02/28/2012	141698 666,000 28,000 0 110.75 110.75
1WATER-	1	WTR USAGE N	77350901	A 08/31/2011	131273 638,000 118,000 0 482.05 482.05
1WATER-	1	WTR USAGE N	77350901	A 03/03/2011	120645 520,000 6,000 0 66.60 66.60
1WATER-	1	WTR USAGE N	77350901	A 08/26/2010	110318 514,000 137,000 0 569.20 569.20
1WATER-	1	WTR USAGE N	77350901	A 03/09/2010	99988 377,000 56,000 0 170.60 170.60
1WATER-	1	WTR USAGE N	77350901	A 08/27/2009	89823 321,000 75,000 0 236.50 236.50
1WATER-	1	WTR USAGE N	77350901	A 02/26/2009	79694 246,000 115,000 0 416.50 416.50
1WATER-	1	WTR USAGE N	77350901	A 08/29/2008	69700 131,000 20,000 0 70.00 70.00
1WATER-	1	WTR USAGE N	77350901	A 03/04/2008	59899 111,000 1,000 0 50.00 50.00
1WATER-	1	WTR USAGE N	77350901	A 08/31/2007	50052 110,000 13,000 0 50.00 50.00
1WATER-	1	WTR USAGE N	77350901	A 03/08/2007	40275 97,000 2,000 0 50.00 50.00
1WATER-	1	WTR USAGE P	0077350901	A 09/13/2006	30505 95,000 15,000 0 50.00 50.00
1WATER-	1	WTR USAGE P	0077350901	A 03/09/2006	20828 80,000 2,000 0 50.00 50.00
1WATER-	1	WTR USAGE P	0077350901	A 09/09/2005	11215 78,000 14,000 0 50.00 50.00
1WATER-	1	WTR USAGE		A 03/16/2005	2178 64,000 1,000 0 50.00 50.00
1WATER-	1	WTR USAGE		A 09/24/2004	9021726 63,000 45,000 0 119.00 119.00
1WATER-	1	WTR USAGE		A 03/09/2004	9021725 18,000 0 0 50.00 50.00
1WATER-	1	WTR USAGE		A 09/26/2003	9021724 18,000 18,000 0 55.25 55.25
1WATER-	1	WTR USAGE		A 03/26/2003	9021723 0 0 0 25.00 25.00
1WATER-	1	WTR USAGE		A 10/04/2002	9021722 233,000 21,000 0 35.50 35.50
1WATER-	1	WTR USAGE		A 05/06/2002	9021721 212,000 1,000 0 25.00 25.00
1WATER-	1	WTR USAGE		A 11/28/2001	9021720 211,000 11,000 0 25.00 25.00
1WATER-	1	WTR USAGE		A 02/13/2001	9021719 200,000 8,000 0 25.00 25.00
1WATER-	1	WTR USAGE		A 08/03/2000	9021718 192,000 4,000 0 25.00 25.00
1WATER-	1	WTR USAGE		A 04/21/2000	9021717 188,000 17,000 0 28.50 28.50

** END OF REPORT - Generated by Tracey **

In advance thank you
for your attent with to
this matter.

Warm Regards
Harbour Watch
371 Rt 28 #13
Harvest Port 02646

Acct # 06665
Bill # 296568

30 October 2018

To Whom It May Concern:

Please be advised that
I had a water pipe
break last month. Water
was discovered to be
Running but there was no
way to determine how
long water was
Running under my basement
cement floor. The pipe
has since been repaired.
For this reason I am
asking if there can be
any financial forgive-
ness on my bill of \$27202.⁵⁰

RECOMMENDATION: APPROVE DENY

BOARD OF WATER COMMISSIONERS
DATE SIGNATURE

_____ +

11/09/2018 11:16
talves

TOWN OF HARWICH - LIVE DATA
UB Consumption History Report

P 1
ubcnsing

Account Number Service	Customer # Name Mfr Meter Number	Cd	Read Date	Time	Parcel By	Bill #	Curr Read	Location Usage Repl Usage	Charge Amt	Status Billed Amt	
06665	306383				13/A8-2-13-R			371 ROUTE 28 HP		Active	
1WATER-	1 WTR USAGE N 84568939	A	09/28/2018			296568	304,000	60,000	0	277.02	277.02
1WATER-	1 WTR USAGE N 84568939	A	06/28/2018			286264	244,000	9,000	0	12.97	12.97
1WATER-	1 WTR USAGE N 84568939	A	03/05/2018			275624	235,000	13,000	0	86.77	86.77
1WATER-	1 WTR USAGE N 84568939	A	09/05/2017			264837	222,000	14,000	0	88.06	88.06
1WATER-	1 WTR USAGE N 84568939	A	03/06/2017			253969	208,000	13,000	0	86.77	86.77
1WATER-	1 WTR USAGE N 84568939	A	09/06/2016			243172	195,000	15,000	0	89.35	89.35
1WATER-	1 WTR USAGE N 84568939	A	02/29/2016			232268	180,000	15,000	0	89.35	89.35
1WATER-	1 WTR USAGE N 84568939	A	08/31/2015			221629	165,000	15,000	0	89.35	89.35
1WATER-	1 WTR USAGE N 84568939	A	03/02/2015			210754	150,000	14,000	0	82.08	82.08
1WATER-	1 WTR USAGE N 84568939	A	08/25/2014			200111	136,000	13,000	0	80.86	80.86
1WATER-	1 WTR USAGE N 84568939	A	02/24/2014			189497	123,000	13,000	0	80.86	80.86
1WATER-	1 WTR USAGE N 84568939	A	08/26/2013			178941	110,000	18,000	0	90.80	90.80
1WATER-	1 WTR USAGE N 84568939	A	02/25/2013			164417	92,000	14,000	0	81.24	81.24
1WATER-	1 WTR USAGE N 84568939	A	08/27/2012			153895	78,000	16,000	0	84.77	84.77
1WATER-	1 WTR USAGE N 84568939	A	02/27/2012			143332	62,000	17,000	0	86.00	86.00
1WATER-	1 WTR USAGE N 84568939	A	08/30/2011			132906	45,000	11,000	0	77.10	77.10
1WATER-	1 WTR USAGE N 84568939	A	02/28/2011			122278	34,000	4,000	0	64.40	64.40
1WATER-	1 WTR USAGE N 84568939	A	08/23/2010			111951	30,000	6,000	0	66.60	66.60
1WATER-	1 WTR USAGE N 84568939	A	02/26/2010			101622	24,000	4,000	0	60.00	60.00
1WATER-	1 WTR USAGE N 84568939	A	08/20/2009			91458	20,000	7,000	0	60.00	60.00
1WATER-	1 WTR USAGE N 84568939	A	02/23/2009			81329	13,000	6,000	0	60.00	60.00
1WATER-	1 WTR USAGE N 84568939	A	08/25/2008			71335	7,000	7,000	0	60.00	60.00
1WATER-	1 WTR USAGE N 84568939	A	02/25/2008			61534	0	0	2,000	50.00	50.00
1WATER-	1 WTR USAGE N 30321788	I	01/08/2008			0	1324,000	2,000	0	.00	.00
1WATER-	1 WTR USAGE N 30321788	A	08/27/2007			51690	1322,000	9,000	0	50.00	50.00
1WATER-	1 WTR USAGE N 30321788	A	02/27/2007			41913	1313,000	12,000	0	50.00	50.00
1WATER-	1 WTR USAGE A 006665	A	09/07/2006			32143	1301,000	18,000	0	55.25	55.25
1WATER-	1 WTR USAGE A 006665	A	02/22/2006			22467	1283,000	12,000	0	50.00	50.00
1WATER-	1 WTR USAGE A 006665	A	08/30/2005			12852	1271,000	14,000	0	50.00	50.00
1WATER-	1 WTR USAGE A 006665	A	03/16/2005			6665	1257,000	13,000	0	50.00	50.00
1WATER-	1 WTR USAGE A 006665	A	09/24/2004			9066453	1244,000	13,000	0	50.00	50.00
1WATER-	1 WTR USAGE A 006665	A	03/09/2004			9066452	1231,000	10,000	0	50.00	50.00
1WATER-	1 WTR USAGE A 006665	A	09/26/2003			9066451	1221,000	7,000	0	50.00	50.00
1WATER-	1 WTR USAGE A 006665	A	03/26/2003			9066450	1214,000	23,000	0	39.00	39.00
1WATER-	1 WTR USAGE A 006665	A	10/04/2002			9066449	1191,000	77,000	0	148.05	148.05
1WATER-	1 WTR USAGE A 006665	A	05/06/2002			9066448	1114,000	40,000	0	71.00	71.00
1WATER-	1 WTR USAGE A 006665	A	11/28/2001			9066447	1074,000	53,000	0	96.45	96.45
1WATER-	1 WTR USAGE A 006665	A	02/13/2001			9066446	1021,000	41,000	0	72.90	72.90
1WATER-	1 WTR USAGE A 006665	A	08/03/2000			9066445	980,000	26,000	0	44.40	44.40
1WATER-	1 WTR USAGE A 006665	A	04/21/2000			9066444	954,000	43,000	0	76.70	76.70

** END OF REPORT - Generated by Tracey **

HARWICH GARDEN CLUB ACCOUNTS

11/9/18

Account	Customer Name	Location #	Location	Billing Address
REC DEPT.				
01577	HARWICH/BANK ST COMFORT S	39	BANK ST	HARWICH REC DEPT- 100 OAK ST, HARWICH MA, 02645
00197	HARWICH/EXCHANGE PARK	702	MAIN ST *PIT	HARWICH PARK & REC COMM- 100 OAK ST, HARWICH MA, 02645
06175	HARWICH/LARSEN PARK	647	ROUTE 28 HP *PIT LARSN	HARWICH PARK & REC COMM- 100 OAK ST, HARWICH MA, 02645
05140	HARWICH/LG PND COMF STA	213	LONG POND DR	HARWICH/LONG POND DR COMFRT- 100 OAK ST, HARWICH MA, 02645
05007	HARWICH/PLEASANT RD	7	PLEASANT RD	HARWICH/PLEASNT RD BCH COMF- 100 OAK ST, HARWICH MA, 02645
03209	HARWICH/RED RIVER COMF ST	2	UNCLE VENIES RD COMFR	HARWICH/RED RIVER COMF STA- 100 OAK ST, HARWICH MA, 02645
00193	HARWICH/SAND POND COMF	180	GREAT WESTERN RD	HARWICH/SAND POND COMF, REC- 100 OAK ST, HARWICH MA, 02645
HIGHWAY				
09719	HARWICH/HIGHWAY	0	QUEEN ANNE RD IRRIG	HARWICH/HIGHWAY- PO BOX 1543, HARWICH, MA 02645
TOWN OF HARWICH				
08447	HARWICH/THOMPSONS FIELD	150	CHATHAM RD *PIT	HARWICH/THOMPSONS FIELD-732 MAIN ST, HARWICH , MA 02645
09948	HARWICH/YARD HYDRANT	72	PARALLEL ST *PIT YDHYD	HARWICH/YARD HYDRANT- 732 MAIN ST, HARWICH, MA 02645
GARDEN CLUB				
00447	GARDEN CLUB OF HARWICH	0	ROUTE 28 *PIT DPARK	GARDEN CLUB OF HARWICH, C/O HARWICH REC-100 OAK ST, HARWICH, MA 02645
10033	GARDEN CLUB OF HARWICH	0	CHASE ST & RT 28 *PIT YRD H	GARDEN CLUB OF HARWICH, C/O JUDY MARTINDALE- PO BOX 301 HARWICHPORT, MA 02646
10034	GARDEN CLUB OF HARWICH	0	ROUTE 137 EXIT 11 YRD H	GARDEN CLUB OF HARWICH, C/O JUDY MARTINDALE- PO BOX 301 HARWICHPORT, MA 02646
10114	GARDEN CLUB OF HARWICH	0	JULIAN RD & RT 28 *PIT YRD H	GARDEN CLUB OF HARWICH, C/O JUDY MARTINDALE- PO BOX 301 HARWICHPORT, MA 02646

Account # 10114

Form Name: Abatement Application

Date of Submission: Wed, 24 Oct 2018 11:54:06 -0400

Your server: www.harwichwater.com

IP address of person using form: 73.143.65.43

URL of page containing form: <http://www.harwichwater.com/customer-service/billing-payments/abatement-application.html>

Name of Applicant: Garden Club of Harwich

Mailing Address: POB 301

City/Town: Harwich Port

State: Massachusetts

Zip/Postal Code: 02646

Phone Number: 508 833 1111

Mobile Phone Number:

Email Address:

Date of Water Use Charge: 3 October 2018

Name of Person Assessed (Owner): Garden Club of Harwich

Location and Description of Property: JULIAN RD & RT 28 *PIT YRD H

Total Amount Assessed: 36.29

Total Amount Requested: 36.29

Reason For Abatement Request: The Garden Club of Harwich is a non-profit volunteer organization that benefits the town by caring for 18 parks and gardens.

SUBSCRIBED THIS DAY UNDER PENALTIES OF PERJURY: 24 October 2018

AGREE?: Checked

RECOMMENDATION: APPROVE DENY

BOARD OF WATER COMMISSIONERS

DATE

SIGNATURE

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_____	_____
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11/09/2018 11:17
talves

TOWN OF HARWICH - LIVE DATA
UB Consumption History Report

P 1
ubcnsinq

Account Number Service	Customer # Name Mfr Meter Number	Cd	Read Date Time	Parcel By	Bill #	Curr Read	Location Usage Repl Usage	Charge Amt	Status Billed Amt
10114	105677 GARDEN CLUB OF HARWICH			16/			JULIAN RD & RT 28 *PIT		Active
1WATER-	1 WTR USAGE E 37138982	A	10/03/2018		299990	1,000	1,000	0	36.29
1WATER-	1 WTR USAGE E 37138982	E	06/29/2018		289582		0	0	36.29 .00

** END OF REPORT - Generated by Tracey **

Account #10033

Form Name: Abatement Application

Date of Submission: Wed, 24 Oct 2018 11:50:35 -0400

Your server: www.harwichwater.com

IP address of person using form: 73.143.65.43

URL of page containing form: <http://www.harwichwater.com/customer-service/billing-payments/abatement-application.html>

Name of Applicant: Garden Club of Harwich

Mailing Address: POB 301

City/Town: Harwich Port

State: Massachusetts

Zip/Postal Code: 02646

Phone Number:

Mobile Phone Number:

Email Address:

Date of Water Use Charge: 28 September 2018

Name of Person Assessed (Owner): Garden Club of Harwich

Location and Description of Property: Chase St & RT 28 *PIT YRD H

Total Amount Assessed: 37.58

Total Amount Requested: 37.58

Reason For Abatement Request: The Garden Club of Harwich is a non-profit volunteer organization that benefits the town by caring for 18 parks and gardens. We received an abatement in the spring and were told to apply for future abatements online.

SUBSCRIBED THIS DAY UNDER PENALTIES OF PERJURY: 24 October 2018

AGREE?: Checked

RECOMMENDATION: APPROVE DENY

BOARD OF WATER COMMISSIONERS

DATE

SIGNATURE

11/09/2018 11:18
 talves

TOWN OF HARWICH - LIVE DATA
 UB Consumption History Report

P 1
 ubcnsinq

Account Number Service	Customer # Mfr	Name Meter Number	Cd	Read Date	Time	Parcel By	Bill #	Curr Read	Location Usage	Repl	Usage	Charge Amt	Status Billed Amt
10033	94930	GARDEN CLUB OF HARWICH				11/			CHASE ST & RT 28	*PIT			Active
1WATER-	1	WTR USAGE	E	69845692	A	09/28/2018	299916	13,000	2,000	0		37.58	37.58
1WATER-	1	WTR USAGE	E	69845692	A	06/27/2018	289511	11,000	0	0		.00	.00
1WATER-	1	WTR USAGE	E	69845692	A	03/06/2018	278974	11,000	0	0		.00	70.00
1WATER-	1	WTR USAGE	E	69845692	A	09/05/2017	268186	11,000	2,000	0		72.58	72.58
1WATER-	1	WTR USAGE	E	69845692	A	03/07/2017	257315	9,000	2,000	0		72.58	72.58
1WATER-	1	WTR USAGE	E	69845692	A	09/06/2016	246518	7,000	7,000	0		79.03	79.03

** END OF REPORT - Generated by Tracey **

Account #10034

Form Name: Abatement Application

Date of Submission: Wed, 24 Oct 2018 11:47:26 -0400

Your server: www.harwichwater.com

IP address of person using form: 73.143.65.43

URL of page containing form: <http://www.harwichwater.com/customer-service/billing-payments/abatement-application.html>

Name of Applicant: Garden Club of Harwich-

Mailing Address: POB 301

City/Town: Harwich Port

State: Massachusetts

Zip/Postal Code: 02646

Phone Number:

Mobile Phone Number: 508-631-7500

Email Address:

Date of Water Use Charge: 28 September 2018

Name of Person Assessed (Owner): Garden Club of Harwich

Location and Description of Property: Route 137 Exit 11 YRD H

Total Amount Assessed: 36.29

Total Amount Requested: 36.29

Reason For Abatement Request: The Garden Club of Harwich is a non-profit volunteer organization that benefits the town by caring for 18 parks and gardens. We received an abatement in the spring and were told to apply for future abatements online.

SUBSCRIBED THIS DAY UNDER PENALTIES OF PERJURY: 24 October 2018

AGREE?: Checked

RECOMMENDATION: APPROVE DENY

BOARD OF WATER COMMISSIONERS

DATE

SIGNATURE

11/09/2018 11:21
talves

TOWN OF HARWICH - LIVE DATA
UB Consumption History Report

P 1
ubcnsinq

Account Number Service	Customer # Mfr Meter Number	Name	Cd	Read Date	Time	Parcel By	Bill #	Curr Read	Location Usage	Repl	Usage	Charge Amt	Status Billed Amt
10034	94930	GARDEN CLUB OF HARWICH				70/			ROUTE 137	EXIT 11			Active
1WATER-	1	WTR USAGE	E	68936945	A	09/28/2018	299917	2,000	1,000	0		36.29	36.29
1WATER-	1	WTR USAGE	E	68936945	A	06/28/2018	289512	1,000	0	0		.00	.00
1WATER-	1	WTR USAGE	E	68936945	A	03/05/2018	278975	1,000	0	0		.00	70.00
1WATER-	1	WTR USAGE	E	68936945	A	09/05/2017	268187	1,000	1,000	0		71.29	71.29
1WATER-	1	WTR USAGE	E	68936945	A	03/06/2017	257316		0	0		70.00	70.00
1WATER-	1	WTR USAGE	E	68936945	A	09/06/2016	246519		0	0		70.00	70.00

** END OF REPORT - Generated by Tracey **

Contractor's Application for Payment No.

10/29/2018

	Application Period: 10/1/18-10/26/18	Application Date: 2
To (Owner): Town of Harwich	From (Contractor): Robert B. Our Co. Inc.	Via (Engineer): Design Consultants Inc.
Project: Lower County Road Water Main Improvements	Contract:	
Owner's Contract No.:	Contractor's Project No.: LCR 2018	Engineer's Project No.:


Application For Payment Change Order Summary

Approved Change Orders		
Number	Additions	Deductions
CO #1	\$105,648.38	-\$87,500.00
TOTALS	\$105,648.38	-\$87,500.00
NET CHANGE BY CHANGE ORDERS	\$18,148.38	

1. ORIGINAL CONTRACT PRICE.....	\$ 1,027,820.30
2. Net change by Change Orders.....	\$ 18,148.38
3. Current Contract Price (Line 1 ± 2).....	\$ 1,045,968.68
4. TOTAL COMPLETED AND STORED TO DATE (Column F on Progress Estimate).....	\$ 652,674.67
5. RETAINAGE:	
a. 5% X <u>652,674.67</u> Work Completed.....	\$ 32,633.73
b. 5% X _____ Stored Material.....	\$ _____
c. Total Retainage (Line 5a + Line 5b).....	\$ 32,633.73
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5c).....	\$ 620,040.94
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application).....	\$ 290,395.24
8. AMOUNT DUE THIS APPLICATION.....	\$ 329,645.70
9. BALANCE TO FINISH, PLUS RETAINAGE (Column G on Progress Estimate + Line 5 above).....	\$ 425,927.74

Contractor's Certification

The undersigned Contractor certifies that to the best of its knowledge: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective; and (4) all materials for this project are in compliance with AIS (PL 113-76).



Tracy A Post
Notary Public, Commonwealth of Massachusetts
My Commission Expires March 29, 2024

[Signature]

By: *[Signature]* Date: 11-1-18

Payment of: \$ 329,645.70
(Line 8 or other - attach explanation of the other amount)

is recommended by: *Paul Costello* 11/2/18
(Engineer) (Date)

Payment of: \$ 329,645.70
(Line 8 or other - attach explanation of the other amount)

is approved by: _____
(Owner) (Date)

Approved by: _____
Funding Agency (if applicable) (Date)

Endorsed by the Construction Specifications Institute.
EJCDC C-620 Contractor's Application for Payment
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This document has been modified from its original form as an EJCDC document.

Progress Estimate

Contractor's Application

For (contract):				Lower County Road Water Main Improvements		Application Nu		2		
Application Per				10/1/18-10/26/18		Application Da		10/29/2018		
A		B		C	D	E	F			
Bid Item No.	Description	Bid Quantity	Unit Price	Bid Value	Estimated Quantity Installed	Value	Materials Presently Stored (not in C)	Total Completed and Stored to Date (D + E)	% (F) B	Balance to Finish (B - F)
1	Mobilization & Demobilization	1	\$51,000.00	\$51,000.00			0.50	\$25,500.00	50.0%	\$25,500.00
3	Field Engineering	1	\$1,500.00	\$1,500.00						\$1,500.00
4	Bridge Crossing	1	\$69,000.00	\$69,000.00						\$69,000.00
5A	1" water service change overs	72	\$1,576.00	\$113,472.00	34	\$53,584.00	25.00	\$92,984.00	81.9%	\$20,488.00
5B	2" water service change overs	4	\$2,462.00	\$9,848.00	3	\$7,386.00		\$7,386.00	75.0%	\$2,462.00
6A	6&8" gates and connections to existing	5	\$5,948.00	\$29,740.00	2	\$11,896.00	1.00	\$17,844.00	60.0%	\$11,896.00
6B	6&8" Taps and gates - connections to existing	27	\$8,355.00	\$225,585.00	14	\$116,970.00	5.00	\$158,745.00	70.4%	\$66,840.00
6C	16" Tap and Gate Connection	1	\$14,000.00	\$14,000.00						\$14,000.00
7	16" Insertion Valve	5	\$36,215.00	\$181,075.00			5.00	\$181,075.00	100.0%	
8	Fire Hydrant	9	\$4,400.00	\$39,600.00	5	\$22,000.00	1.00	\$26,400.00	66.7%	\$13,200.00
9	Cut & Cap existing main	1	\$29,000.00	\$29,000.00	0.8	\$23,200.00	0.20	\$29,000.00	100.0%	
10	Exploratory Excavation	30	\$0.01	\$0.30	5	\$0.05		\$0.05	16.7%	\$0.25
11A	Temp. Trench Pavement	2500	\$21.00	\$52,500.00	842.9	\$17,700.90		\$17,700.90	33.7%	\$34,799.10
11B	Permanent Trench Patch	2500	\$35.00	\$87,500.00	2500	\$87,500.00		\$87,500.00	100.0%	
12	Landscaping Material	2000	\$5.00	\$10,000.00	675	\$3,375.00		\$3,375.00	33.8%	\$6,625.00
13	Traffic Control - Allowance	1	\$88,000.00	\$88,000.00			1,781.20	\$47,223.07	53.7%	\$40,776.93
14	Asbestos Abatement, Per location	10	\$1,100.00	\$11,000.00						\$11,000.00
15	Remaining Lump Sum	1	\$15,000.00	\$15,000.00	0.3	\$4,500.00		\$4,500.00	30.0%	\$10,500.00
CO #1	Pleasant Road Connection Modification	1	\$20,406.28	\$20,406.28						\$20,406.28
	Grey Neck Road Connection Modification	1	\$11,987.00	\$11,987.00						\$11,987.00
	R&D Existing Gate Valve Box's	1	\$4,261.00	\$4,261.00	1	\$4,261.00		\$4,261.00	100.0%	
	Adjustment 11 A Temp Pavement	2500	\$19.50	\$48,750.00	842.9	\$16,436.55		\$16,436.55	33.7%	\$32,313.45
	Credit 11 B Final Pavement	2500	-\$35.00	-\$87,500.00	-2500	-\$87,500.00		-\$87,500.00	100.0%	
	Earle Road Connection Modification	1	\$20,244.10	\$20,244.10	1	\$20,244.10		\$20,244.10	100.0%	
Totals				\$1,045,968.68		\$346,995.47		\$652,674.67	62.4%	\$393,294.01

**CONSTRUCTION CHANGE
AUTHORIZATION**

- Owner
- Engineer
- Consultant
- Contractor
- Field
- Other

AIA DOCUMENT G713

PROJECT: Lower County Road Water Main
Harwich, MA

CONSTRUCTION CHANGE
AUTHORIZATION NO: **CO-1**

OWNER: Town of Harwich
Water Department
196 Chatham Road
Harwich, MA 02645

DATE OF ISSUANCE: November 1, 2018

TO: Robert B. Our Co.
24 Great Western Road
Harwich, MA 02645

ENGINEER: Design Consultants Inc.
1495 Hancock Street, Suite 205
Quincy, MA 02169

CONTRACT FOR: Lower County Road Water Main

ENGINEER'S PROJECT NO: 2017-096.01

In order to expedite the Work and avoid or minimize delays in the Work, which may affect Contract Sum or Contract Time, the Contract Documents are hereby amended as described below.

Description: This change order includes a net increase to the contract price by \$18,148.38. The work covered under this change order includes additional costs for connection modifications at Pleasant Road (\$20,406.28), Grey Neck Road (\$11,987.00) and Earle Road (\$20,244.10); additional costs for removing and disposing of existing gate valve boxes (\$4,261.00); and a cost increase for Temporary Pavement Item 11A (\$48,750.00). The increase to pay Item 11A results in a credit of the Final Pavement Item 11B (a decrease of \$87,500.00). Where applicable, the work includes a 15% markup and a 1.25% bonding markup.

The approved connection modifications noted above will result in decreases to other pay items. These decreases will be adjusted under a future change order.

Attachments: *(Here insert listing of documents that support description.)* RBO's Estimate dated October 16, 2018.

The following is based on information provided by the Contractor:

Method Determining Change in the Contract Sum: RBO's Estimate of October 16, 2018.

(lump sum, unit prices, cost plus fee or other)

Fixed Change in Contract Sum
of \$ 18,148.38

Fixed Change in Contract Time of 0 days

Estimated

Estimated Change in Contract Time of ___ days

Maximum

Maximum Change in Contract Time of ___ days

ISSUED: Paul Costello 11/5/18

AUTHORIZED:

CONFIRMED:

BY: _____

BY: _____

BY: [Signature] 11/12/18

Design Consultants Inc. Date

Town of Harwich Date

Date

Robert B. Our Co. Date



October 16, 2018

Project: Lower County Road Water Main Modifications

Engineer: Design Consultants Inc.

RECAP

RFC 001 – Pleasant Road Connection Modification	\$ 20,406.28
RFC 002 – Grey Neck Road Connection Modification	\$ 11,987.00
RFC 003 – R&D Existing Gate Valve Box	\$ 4,261.00
RFC 004 – Adjustment to 11A Temp Pavement	\$ 48,750.00
Deletion of 11B Final Pavement	<\$ 87,500.00>
RFC 005 – Earle Road Connection Modification	\$ 20,244.10
Total Change Order #1 Value	-\$ 18,147.38
	\$18,148.38
	PGC
	11/1/18

Project: Lower County Road Water Main Improvements
 Engineer: DCI

15-Oct-18
 RFC 0001

Modifications to Pleasant Road Connection

RBO	Rate	Hours	QTY	Extended Total
Laborer	\$ 54.97	10	2	1099.40
Operator	\$ 72.63	10	2	1452.60
Truck Driver	\$ 54.14	10	1	541.40
Forman	\$ 85.00	8	1	680.00
Lowbed Driver	\$ 54.14	4	1	216.56

Direct labor Costs :

Labor	\$ 1,779.40	43.76%	778.67
Operator	\$ 1,452.60	41.86%	608.06
Truck Driver	\$ 757.96	43.78%	331.83

Subtotal Labor \$ 5,708.52

RBO Equipment	Rate	Quantity	Extended Total
Excavator	\$ 74.80	10	\$ 748.00
Loader	\$ 74.80	10	\$ 748.00
Truck (10/W)	\$ 73.80	10	\$ 738.00
Utility Truck	\$ 12.30	10	\$ 123.00
Low Bed	\$ 95.00	8	\$ 760.00
Box / Plates	\$ 500.00	1.0	\$ 500.00
Subtotal Equipment			\$ 3,617.00

GC Materials	Rate	Quantity	Extended Total
8 " Insertion Valve	\$ 5,950.00	1	\$ 5,950.00
Water Material	\$ 2,250.00	1	\$ 2,250.00
Subtotal Materials			\$ 8,200.00
Total Materials			\$ 8,200.00

Misc.	Rate	Quantity	Extended total
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Subtotal Misc. \$ -
 Total Misc \$ -

subtotal Labor, equipment & materials \$ 17,525.52
 RBO direct Markup 15% \$ 2,628.83
 RBO suplimental markup (bond) 1.25% \$ 251.93

\$ 20,406.28

Total	\$ 20,406.28
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** All asphalt restoration measured in place.

Project: Lower County Road Water Main Improvements
 Engineer: DCI

15-Oct-18
 RFC 0002

Modifications to one side of Grey Neck Road Connection

RBO	Rate	Hours	QTY	Extended Total
Laborer	\$ 54.97	8	2	879.52
Operator	\$ 72.63	8	2	1162.08
Truck Driver	\$ 54.14	8	1	433.12
Forman	\$ 85.00	4	1	340.00

Direct labor Costs :

Labor	\$ 1,219.52	43.76%	533.66
Operator	\$ 1,162.08	41.86%	486.45
Truck Driver	\$ 433.12	43.78%	189.62

Subtotal Labor \$ 4,024.45

RBO Equipment	Rate	Quantity	Extended Total
Excavator	\$ 74.80	8	\$ 598.40
Loader	\$ 74.80	8	\$ 598.40
Truck (10W)	\$ 73.80	8	\$ 590.40
Utility Truck	\$ 12.30	8	\$ 98.40

Subtotal Equipment \$ 1,885.60

GC Materials	Rate	Quantity	Extended Total
Water Material	\$ 4,385.00	1	\$ 4,385.00
Some water material furnished by town			
Subtotal Materials			\$ 4,385.00
Total Materials			\$ 4,385.00

Misc.	Rate	Quantity	Extended total
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Subtotal Misc. \$ -
 Total Misc \$ -

subtotal Labor, equipment & materials \$ 10,295.05
 RBO direct Markup 15% \$ 1,544.26
 RBO suplimental markup (bond) 1.25% \$ 147.99

\$ 11,987.30

Total	\$ 11,987.30
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\$ 11,987.00

** All asphalt restoration measured in place.
 ** I did not include any work associated with a pay item.
 This would be done under the respective unit

Project: Lower County Road Water Main Improvements
 Engineer DCI

15-Oct-18
 RFC 0003

Remove and Abandon Existing Gate Valve box's (37)

RBO	Rate	Hours	QTY	Extended Total
Laborer	\$ 54.97	12.5	1	687.13
Operator	\$ 72.63	12.5	1	907.88
Truck Driver	\$ 54.14	0	0	0.00
Forman	\$ 85.00	0	0	0.00

Direct labor Costs :

Labor	\$ 687.13	43.76%	300.69
Operator	\$ 907.88	41.86%	380.04
Truck Driver	\$ -	43.78%	0.00

Subtotal Labor \$ 2,275.72

RBO Equipment	Rate	Quantity	Extended Total
Excavator	\$ 74.80	18.5	\$ 1,383.80
Loader	\$ 74.80	0	\$ -
Truck (10/W)	\$ 73.80	0	\$ -
Utility Truck	\$ 12.30	0	\$ -
Low Bed	\$ 95.00	0	\$ -
Box / Plates	\$ 350.00	0.0	\$ -
Subtotal Equipment			\$ 1,383.80

GC Materials	Rate	Quantity	Extended Total
	\$ -	0	\$ -
Subtotal Materials			\$ -
Total Materials			\$ -

Misc.	Rate	Quantity	Extended total
Subtotal Misc.			\$ -
Total Misc			\$ -

subtotal Labor, equipment & materials	\$ 3,659.52
RBO direct Markup 15%	\$ 548.93
RBO suplimental markup (bond) 1.25%	\$ 52.61
	<hr/>
	\$ 4,261.06

Total	\$ 4,261.06
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\$4,261.00

** All asphalt restoration measured in place.
 ** I did not include any work associated with a pay item.
 This would be done under the respective unit



October 15, 2018

Project: Lower County Road Water Main Modifications

Engineer: Design Consultants Inc.

Proposed Change Order Request: RFC 004- Adjustment to Temp. Patch thickness to 4" compacted in 2 lifts.

Adjustment to unit 11A (Amount in addition to unit 11A)

2500 SY 4"	\$19.50	\$ 48,750.00
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Deletion of Unit 11B

2500 SY	< \$ 35.00 >	< \$87,500.00 >
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Project: Lower County Road Water Main Improvements
 Engineer: DCI

15-Oct-18
 RFC 0005

Modifications to Earle Road Connection

RBO	Rate	Hours	QTY	Extended Total
Laborer	\$ 54.97	10	2	1099.40
Operator	\$ 72.63	10	2	1452.60
Truck Driver	\$ 54.14	10	1	541.40
Forman	\$ 85.00	5	1	425.00

Direct labor Costs :

Labor	\$ 1,524.40	43.76%	667.08
Operator	\$ 1,452.60	41.86%	608.06
Truck Driver	\$ 541.40	43.78%	237.02

Subtotal Labor \$ 5,030.56

RBO Equipment	Rate	Quantity	Extended Total
Excavator	\$ 74.80	10	\$ 748.00
Loader	\$ 74.80	10	\$ 748.00
Truck (10/W)	\$ 73.80	10	\$ 738.00
Utility Truck	\$ 12.30	10	\$ 123.00

Subtotal Equipment \$ 2,357.00

GC Materials	Rate	Quantity	Extended Total
Water Material	\$ 9,998.68	1	\$ 9,998.68
Some water material furnished by town			
			Subtotal Materials \$ 9,998.68
			Total Materials \$ 9,998.68

Misc.	Rate	Quantity	Extended total
			Subtotal Misc. \$ -
			Total Misc \$ -

subtotal Labor, equipment & materials \$ 17,386.24
 RBO direct Markup 15% \$ 2,607.94
 RBO supplemental markup (bond) 1.25% \$ 249.93

 \$ 20,244.10

Total	\$ 20,244.10
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** All asphalt restoration measured in place.
 ** I did not include any work associated with a pay item.
 This would be done under the respective unit

Month/Year October 2018

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	74,861	75,053	54,311	129,914	81,809	102,188	163,952	356,286	367,584	358,143	349,494	355,618	445,714	365,492
2	83,124	83,012	60,183	146,094	91,713	115,368	182,171	183,513	188,403	184,461	175,419	177,556	201,020	183,784
3	84,812	85,155	61,284	147,721	93,257	116,946	185,694	187,409	189,708	187,710	179,196	181,059	204,986	187,194
4	85,541	85,233	61,355	144,036	90,766	112,442	185,022	187,218	186,417	187,679	190,300	189,838	204,574	198,129
5	86,628	87,530	63,327	152,291	95,519	119,636	191,606	192,729	196,494	194,485	174,092	176,059	212,415	182,156
6	83,410	83,587	60,236	145,120	91,440	114,651	182,512	175,639	181,062	177,374	176,220	178,029	201,261	184,169
7	103,274	103,665	75,052	177,048	111,340	138,447	226,615	227,590	228,202	230,123	218,859	220,188	250,868	228,949
8	98,178	98,372	71,035	170,854	107,713	134,935	215,388	216,971	223,364	217,698	207,528	210,553	237,255	217,039
9	94,294	94,568	68,533	158,083	100,287	123,792	206,631	207,755	209,136	209,662	199,808	200,318	228,955	208,922
10	104,064	104,530	75,628	174,150	111,425	137,672	229,146	230,484	229,070	232,560	221,224	222,365	253,492	230,759
11	67,304	67,269	48,733	115,838	72,616	90,408	147,550	149,319	148,558	149,649	142,339	143,615	163,105	149,235
12	72,658	72,773	52,737	126,971	79,824	99,668	158,968	160,999	162,889	161,231	153,679	155,038	175,920	160,687
13	65,692	65,799	47,651	114,287	71,493	89,263	144,259	145,777	147,088	146,330	139,376	140,116	159,548	145,771
14	66,167	66,605	48,068	115,063	72,084	89,844	145,430	146,753	148,988	147,837	140,303	141,290	161,015	147,059
15	70,183	70,252	50,569	121,330	76,237	95,123	153,499	154,940	157,430	155,775	148,212	149,347	226,303	155,047
16	54,396	54,624	39,350	77,126	59,048	60,335	118,398	148,111	150,447	148,814	141,659	143,168	162,205	101,056
17	69,079	69,197	50,165	119,559	75,133	93,708	151,866	153,294	154,333	154,107	146,398	147,632	167,814	153,317
18	58,650	58,745	42,525	100,801	63,515	79,098	128,666	130,418	132,380	130,929	124,485	125,372	142,733	130,332
19	71,056	71,328	51,528	122,633	77,093	96,041	155,950	156,871	160,319	158,015	150,322	151,860	172,394	157,518
20	58,555	58,747	42,415	98,070	62,441	77,084	128,268	128,374	128,046	130,421	124,178	124,317	142,148	129,724
21	55,319	55,479	40,070	91,912	58,729	72,364	121,306	122,679	120,781	123,301	117,402	117,263	134,574	122,626
22	66,099	66,083	47,911	111,819	70,782	87,604	144,560	144,591	146,989	146,702	139,654	140,655	160,266	146,085
23	54,230	54,478	39,384	89,105	57,180	70,067	118,927	118,670	117,451	121,215	115,443	115,063	132,140	120,294
24	57,909	58,052	42,100	95,573	61,326	75,315	127,086	133,282	132,418	135,683	123,163	123,142	140,987	128,448
25	53,226	53,250	38,523	88,181	56,323	69,404	116,235	130,960	130,109	134,167	112,888	112,325	129,155	117,383
26	51,900	52,079	37,534	88,015	55,618	69,079	113,536	113,654	112,570	115,529	109,963	109,964	155,325	114,694
27	58,894	58,963	42,540	102,196	65,670	82,985	128,870	50,163	48,611	51,454	124,588	124,991	142,874	130,106
28	47,971	48,042	34,762	78,142	50,257	61,695	104,749	106,390	100,455	106,983	101,934	100,841	116,737	105,822
29	67,494	67,735	48,769	117,436	75,615	95,152	147,593	87,340	82,357	87,028	142,728	144,115	163,378	149,393
30	72,966	73,202	52,574	130,551	83,960	107,134	159,610	8,875	5,501	9,072	153,964	155,501	176,534	161,623
31	49,626	48,848	35,246	84,682	54,619	68,738	106,582	71,517	64,644	76,146	119,082	118,687	117,918	124,007
Pumps :	2,187,560	2,192,257	1,584,097	3,734,601	2,374,831	2,946,186	4,790,663	4,728,573	4,751,805	4,770,283	4,863,900	4,895,885	5,683,613	5,036,820
MIN :	47,971	48,042	34,762	77,126	50,257	60,335	104,749	8,875	5,501	9,072	101,934	100,841	116,737	101,056
MAX :	104,064	104,530	75,628	177,048	111,425	138,447	229,146	230,484	229,070	232,560	221,224	222,365	253,492	230,759
STATIONS :	19,810,195							14,250,661			9,759,785		5,683,613	5,036,820
TOTAL:	54,541,074													

Month/Year October 2017

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
10/1/2017	68,303	0	0	211,348	130,090	183,971	257,251	222,060	0	259,872	245,112	260,789	333,341	251,699
10/2/2017	67,011	0	0	207,979	127,799	181,606	253,271	217,158	0	259,273	240,397	255,521	323,145	248,143
10/3/2017	27,456	0	0	73,035	52,268	63,110	100,141	220,965	0	263,542	258,277	274,660	339,243	230,860
10/4/2017	21,163	0	0	65,401	40,521	57,103	80,765	342,701	0	410,057	383,716	407,254	505,044	399,027
10/5/2017	57,910	0	0	179,988	109,586	155,927	214,556	182,535	0	215,110	202,515	215,421	295,541	207,966
10/6/2017	65,388	0	0	203,582	123,694	176,482	242,104	206,779	0	244,187	229,026	243,545	305,885	235,515
10/7/2017	69,063	0	0	214,318	131,376	186,758	259,657	220,164	0	258,473	244,078	259,528	323,464	250,069
10/8/2017	55,248	0	0	172,230	105,564	150,266	208,766	177,393	0	209,246	197,143	210,072	257,928	202,209
10/9/2017	65,079	0	0	201,118	123,071	175,580	242,885	207,658	0	245,361	229,759	244,197	302,358	235,977
10/10/2017	15,984	0	0	49,597	30,108	42,860	58,755	168,466	0	201,213	180,485	191,758	237,585	186,739
10/11/2017	0	0	0	0	0	0	0	288,630	0	347,004	304,263	322,696	401,559	317,053
10/12/2017	0	0	0	0	0	0	0	87,937	0	105,502	326,186	346,127	467,255	339,785
10/13/2017	0	0	0	0	0	0	0	126,129	0	150,405	380,449	403,115	508,491	397,395
10/14/2017	0	0	0	0	0	0	0	206,988	0	248,202	218,513	231,841	289,120	226,760
10/15/2017	0	0	0	0	0	0	0	272,950	0	326,792	288,156	306,007	379,356	298,076
10/16/2017	0	0	0	0	0	0	0	199,338	0	238,903	210,498	223,516	276,102	218,372
10/17/2017	0	0	0	0	0	0	0	189,292	0	226,674	298,960	316,953	261,914	207,389
10/18/2017	28,300	0	0	0	33,754	32,088	3,139	248,484	0	298,375	262,323	278,850	341,156	272,473
10/19/2017	15,700	0	0	48,041	29,696	43,376	47,171	246,721	0	296,128	261,059	276,935	383,303	160,036
10/20/2017	52,100	0	0	125,705	83,768	65,824	91,311	239,509	0	287,429	252,899	268,303	337,207	273,854
10/21/2017	0	0	0	0	0	0	0	226,898	0	272,094	239,237	253,899	318,430	248,704
10/22/2017	9,600	0	0	27,572	18,552	21,536	41,744	229,503	0	275,350	241,967	256,892	320,769	251,625
10/23/2017	23,500	0	0	68,610	44,616	60,528	23,746	113,768	0	135,874	180,083	191,186	238,533	186,625
10/24/2017	43,500	0	0	129,517	81,272	110,840	154,074	0	0	0	186,005	197,073	215,931	193,502
10/25/2017	42,700	0	0	129,461	85,264	109,872	157,711	0	0	0	234,960	249,954	305,671	241,236
10/26/2017	51,600	0	0	150,707	100,008	127,664	133,184	0	0	0	126,947	134,969	163,005	129,116
10/27/2017	73,600	0	0	113,990	74,768	99,224	127,722	0	0	0	132,573	140,925	173,377	135,914
10/28/2017	9,800	0	0	133,932	88,864	117,192	110,624	0	0	0	136,653	145,130	180,029	140,947
10/29/2017	9,400	0	0	25,833	17,840	20,328	26,704	0	0	0	258,574	274,446	342,117	267,446
10/30/2017	53,302	0	0	151,975	100,834	132,431	83,207	0	0	0	103,583	110,098	136,371	106,427
10/31/2017	0	0	0	177,863	117,930	158,118	0	60,101	0	23,201	76,309	81,122	99,784	78,507
Pumps :	925,707	0	0	2,861,802	1,851,243	2,472,684	2,918,488	4,902,127	0	5,798,267	7,130,705	7,572,782	9,363,014	7,139,446
MIN :	0	0	0	0	0	0	0	0	0	0	76,309	81,122	99,784	78,507
MAX :	73,600	0	0	214,318	131,376	186,758	259,657	342,701	0	410,057	383,716	407,254	508,491	399,027
STATIONS :	11,029,924				10,700,394				14,703,487			9,363,014	7,139,446	
TOTAL:	52,936,265													

Date October 2018
 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		0.09	70	53	62		
2		0.00	70	61	65		
3		0.91	67	56	62		
4		0.00	66	57	61		
5		0.00	66	49	57		
6		0.00	62	46	54		
7		0.00	71	60	65		
8		0.00	64	60	62		
9		0.00	71	59	65		
10		0.00	74	67	70		
11		0.56	72	66	69		
12		2.50	66	51	59		
13		0.13	54	45	49		
14		0.00	56	42	49		
15		0.12	65	42	53		
16		0.16	66	47	57		
17		0.00	60	41	51		
18		0.00	50	39	44		
19		0.00	57	35	46		
20		0.00	62	51	56		
21		0.37	52	42	47		
22		0.00	51	34	42		
23		0.00	56	39	47		
24		0.00	51	45	48		
25		0.00	50	43	47		
26		0.00	46	36	41		
27		1.47	58	40	49		
28		0.01	60	52	56		
29		0.00	61	46	53		
30		0.01	52	45	48		
31		0.00	55	35	45		
Total		6.33					
Average		0.20	60.7	47.8			
Max		2.50	74.4	66.6			
Min		0.0	46.3	34.0			

Date October 2017
PWS No. 4126000

Monthly Weather Report
Harwich Water Department

Day	Snow Fall (in.) (Gallons)	Rain Fall (in.)	Temperature High (°F)	Temperature Low (°F)	Weather Comments	Operator
1		0.00	64	45		
2		0.00	67	47		
3		0.00	62	44		
4		0.00	70	53		
5		0.00	75	62		
6		0.04	71	60		
7		0.00	68	59		
8		0.06	72	65		
9		0.62	70	66		
10		0.00	75	59		
11		0.00	67	58		
12		0.00	60	54		
13		0.00	63	55		
14		0.55	66	60		
15		0.00	66	60		
16		0.00	66	64		
17		0.00	55	45		
18		0.00	68	48		
19		0.00	68	57		
20		0.00	66	53		
21		0.00	69	48		
22		0.00	73	55		
23		0.00	70	55		
24		0.00	68	63		
25		2.76	66	60		
26		0.78	62	48		
27		0.00	61	45		
28		0.00	64	44		
29		0.32	63	55		
30		1.39	64	54		
31		0.00	61	44		
Total		6.52				
Average			66.4	54.3		
Max		2.76	75.0	66.1		
Min		0.0	55.0	43.9		