

**BOARD OF WATER & WASTEWATER COMMISSIONER'S
MEETING AGENDA***
Harwich Water Department, 196 Chatham Road, Harwich MA
Thursday, October 5, 2023
Open Session 11:30 a.m.
Executive Session 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
 - A. Executive Session pursuant to G.L. c. 30A, Sec. 21(a)(3) To discuss strategy with respect to collective bargaining or litigation if any open meeting may have a detrimental effect on the bargaining or litigating position of the public body and the chair so declares; Assistant Wastewater Superintendent
- III. PUBLIC COMMENTS / ANNOUNCEMENTS
- IV. CONSENT AGENDA
 - A. Minutes
 - 1. August 25, 2023
 - 2. September 21, 2023
- V. ABATEMENTS
- VI. OLD BUSINESS
 - A. Water Capital Plan
- VII. NEW BUSINESS
 - A. 551 Route 28, Apt #6 - Payment Plan for Water Service
 - B. Wastewater Capital Plan
 - C. FY25 Water & Wastewater Budgets
 - D. Route 28 Watermain Replacement Project
 - E. Q1 Billing Update
- 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:

Town Posting Date: _____

Tracey Alves | Board Secretary

_____ | Town Clerk

- IV. CONSENT AGENDA
 - A. Minutes
 - 1. August 25, 2023
 - 2. September 21, 2023

← minutes
will
need to be
tabled to
next
meeting

- VI. OLD BUSINESS
- A. Water Capital Plan

Capital Plan FY24-FY31 (OLD)			
Fiscal Year	Project	Estimated Cost	Notes
FY24	Pavement Management Plan	\$ 175,000	Depot Rd Wellfield
	New Well Construction (BOND 0.5M PROJECT)	\$ 500,000	Near Well 10
	Rt.28 Water main Replacement- Construction (BOND 2.0M PROJECT)	\$7,000,000	
FY25	Paint Pleasant Lake Ave Tank (Bond 1M Project)	\$1,750,000	
	Backhoe Replacement	\$ 125,000	Replace - 1998 Backhoe
	2 Vehicle Replacement	\$ 75,000	Replace - 2011 Ford F250, 2010 Ford F150
FY26	Pipe Discontinuity Upgrade (Bond 1M)	\$1,500,000	5900 LF of discontinuity
FY27	No Project		
FY28	Relocate HWD HQ (Bond 750K)	\$1,500,000	
FY29	No Project		
FY30	Vehicle Replacement	\$ 175,000	
FY31	Construct new tank @ Rt.39 (Bond 3M)	\$4,500,000	Replace spider leg tank w/ larger hydropillar

Capital Plan FY24-FY31 (NEW)			
Fiscal Year	Project	Estimated Cost	Notes
FY24	Pavement Management Plan	\$ 175,000	Depot Rd Wellfield
	New Well Exploration (Phase 2)	\$ 600,000	Prolonged pump Test
	Rt.28 Water main Replacement- Construction	\$14,000,000	
FY25	Paint Pleasant Lake Ave Tank (Bond 1M Project)	\$ 1,750,000	
	Backhoe Replacement	\$ 125,000	Replace - 1998 Backhoe w/ Small Loader
	2 Vehicle Replacement	\$ 125,000	Replace - 2011 Ford F250, 2010 Ford F150
	FY25 Distribution System Upgrades	\$10,000,000	TDB Pending Infrastructure Bill
FY26	Pipe Discontinuity Upgrade	\$ 1,500,000	5900 LF of discontinuity
FY27	No Project		
FY28	HWD HQ Upgrades	\$ 1,500,000	Space building/garage
FY29	No Project		
FY30	Vehicle Replacement	\$ 175,000	
FY31	Construct new tank @ Rt.39 (Bond 3M)	\$ 4,500,000	Replace spider leg tank w/ larger hydropillar

**Five Year Capital Outlay Plan
FY 2024 to 2028**

FY24 - FY28 Capital Plan (Approved at Last Years ATM)							
Department	Title	FY2024	FY2025	FY2026	FY2027	FY 2028	Five Year Total
Water Department	Vehicle replacements	0	175,000	0	0	0	175,000
Water Department	Equipment replacements	0	125,000	0	0	0	125,000
Water Department	Pavement management plan	175,000	0	0	0	0	175,000
Water Department	New well source exploration (phase 2)	600,000	0	0	0	0	600,000
Water Department	Rt. 28 water main replacemenet	14,700,000	0	0	0	0	14,700,000
Water Department	Paint Pleasant Lake Ave. tank	0	2,000,000	0	0	0	2,000,000
Water Department	Distribution system upgrades	0	10,000,000	0	0	0	10,000,000
Water Department	Pipe discontinuity upgrade	0	0	1,500,000	0	0	1,500,000
Water Department							
Wastewater Department	E. Harwich Collection System Expansion	50,000,000	0	0	0	0	50,000,000
Wastewater Department	Phase 4 Collection System design	0	2,500,000	0	0	0	2,500,000
Wastewater Department	Rt. 28 sewer main installation	6,500,000	0	0	0	0	6,500,000
Wastewater Department							

**Five Year Capital Outlay Plan
FY 2025 to 2029 DRAFT**

Draft FY25 - FY29 Capital Outlay Plan							
Department	Title	FY2025	FY2026	FY2027	FY 2028	FY 2029	Five Year Total
Water Department	Vehicle replacements	\$ 270,000					\$ 270,000
	<i>Truck 12 Replacement - F-150 Ext. Cab (replacing F-250)</i>	\$ 60,000					
	<i>Auxiliary Service Truck - F-350/450 w/ onboard air & inverter (Replacing F-150)</i>	\$ 150,000					
	<i>Vehicle 15 Replacement - F-150 Crew Cab or Expedition (Replacing 2013 Explorer)</i>	\$ 60,000					
Water Department	Equipment replacements - Purchase Loader	\$ 220,000					\$ 220,000
Water Department	Paint Pleasant Lake Ave. tank	\$ 1,750,000					\$ 1,750,000
Water Department	Pipe discontinuity upgrade	\$ -	\$ 1,500,000				\$ 1,500,000
Water Department	New Well Construction & Water Treatment Plant Upgrades @ Station 10			\$ 3,500,000			\$ 3,500,000
Water Department	196 Chatham Road Improvements - Space Building/Garage				\$ 1,500,000		\$ 1,500,000
	Water Department	\$ 2,510,000	\$ 1,500,000	\$ 3,500,000	\$ 1,500,000	\$ -	\$ 8,740,000
Wastewater Department	Vehicle Replacement		\$ 65,000				\$ 65,000
	<i>Replace Ford Ranger - Ranger or F-150</i>						
	Wastewater Department	\$ -	\$ 65,000	\$ -	\$ -	\$ -	\$ 65,000



HALEY WARD

ENGINEERING | ENVIRONMENTAL | SURVEYING

FORMERLY:
CES INC

May 9, 2023

Mr. Daniel Pelletier, Superintendent
Harwich Water Department
196 Chatham Road
Harwich, MA 02645

Re: Budgetary Cost Opinion: Pleasant Lake Water Tank – Overcoat

Dear Mr. Pelletier,

We prepared a budgetary cost opinion for a full protective exterior overcoat for your Pleasant Lake water storage tank. The product that will be used is a rust inhibitive acrylic overcoat and is intended to provide additional protection and significant extended life of the existing coating system. The existing systems may be weathered but should have minimal coating faults or active corrosion. It is important the existing coatings be well bonded together, and the system well bonded to the substrate steel. This should be confirmed by adhesion testing immediately before proceeding.

The cost savings over a full coating rehabilitation are significant primarily because the overcoat just requires power washing before application and not full surface preparation or removal of coatings to bare steel. Full containment systems are therefore not required.

The following budgetary number is an estimate based on overcoat cost information we received for tanks in your area in the spring of 2023 and includes both engineering and construction.

- FY25 Pleasant Lake Overcoat, \$1,400,000





Assumptions:

- Cellular and other antenna and equipment will stay in place and have the ability to be temporarily shut down. Verizon cellular will coordinate temporary shutdowns to allow pressure washing and overcoat application.
- Minor interior and exterior spot rehabilitation
- Contingency at 20% for unknowns including changes in bidding climate

If you have any questions, please feel free to contact our office.

Very truly yours,

HALEY WARD, INC.

Myles Killar
Project Manager

Enclosures: N/A

P:\MA\Proposal\2023-XX Tank Inspections\Overcoat Estimates\Harwich\April 2023 Harwich Overcoat Budget Estimate.docx

Quote Summary

Prepared For:
 HARWICH WATER DEPT DAN PELLETIER
 196 CHATHAM RD
 HARWICH, MA 02645
 Business: 508-432-0304

Prepared By:
 JOE HUBER
 United Construction & Forestry
 88 Camelot Drive
 Plymouth, MA 02360
 Phone: 508-830-9997
 joe.huber@ucfne.com

This is a "budget quote" only. Actual RFQ will be provided when the Town requests an official quote. Price reflects the Sourcewell National Municipal Contract and other dealer discounts, and includes factory freight, dealer setup and delivery to Town. Trade in value also estimated and dealer will need to reappraise trade at time of RFQ. Thank you - Joe Huber.

Quote Id: 29003457
Created On: 07 June 2023
Last Modified On: 08 June 2023
Expiration Date: 31 July 2023

Equipment Summary	Selling Price	Qty	Extended
JOHN DEERE 444 P-Tier Wheel Loader - TBD	\$ 231,375.00 X	1 =	\$ 231,375.00

Equipment Total **\$ 231,375.00**

Trade In Summary	Qty	Each	Extended
1998 JOHN DEERE 310E LOADER BACKHOE - T0310EX848226	1	\$ 16,000.00	\$ 16,000.00
PayOff			\$ 0.00
Total Trade Allowance			\$ 16,000.00

Trade In Total **\$ 16,000.00**

Quote Summary	
Equipment Total	\$ 231,375.00
Trade In	\$ (16,000.00)
Filing / Origination Fees	\$ 0.00
SubTotal	\$ 215,375.00
Est. Service Agreement Tax	\$ 0.00
Total	\$ 215,375.00
Down Payment	(0.00)
Rental Applied	(0.00)
Balance Due	\$ 215,375.00

Salesperson : X _____

Accepted By : X _____

Selling Equipment

Quote Id: 29003457

Customer: HARWICH WATER DEPT DAN PELLETIER

JOHN DEERE 444 P-Tier Wheel Loader - TBD

Hours:
Stock Number: TBD

Code	Description	Qty
6011DW	444 P-Tier Wheel Loader	1
Standard Options - Per Unit		
183E	JDLink™	1
0202	United States	1
0259	English	1
0351	Translated Text Labels	1
0400	Standard Loader	1
0451	Standard Z-BAR	1
0613	Level 3 Trim	1
0654	Level 1 Performance	1
0951	Rear Camera (Primary Display)	1
1100	Less Detection System	1
1301	Left Side Steps	1
2201	Less Payload Scale w/ Cycle Counter	1
4065	John Deere 4.5L - FT4/SV	1
5106	No Brand Preference - 17.5R25 L2 1-Star Radial Tires w/ 3 PC Rims	1
5553	Full Coverage Front Fenders	1
6522	Rear Counterweight & Rear Hitch w/ Pin	1
7026	Joystick Controls	1
7054	Three Function Hydraulics	1
7404	Hydraulic Coupler - Hi-Vis/ISO Pattern	1
7458	Bolt-On Cutting Edge	1
7503	96 Inch (2438mm) Wide Fork Frame	1
7702	60 Inch (1524mm) Construction Tines	1
7822	3.00 YD (2.30 CM) Enhanced Performance	1
8008	17.5R25 L2 1-Star Radial Tires w/ 3 PC Rims - No Brand Preference	1
8042	Axle Oil Cooling and Filtration	1
8213	Chrome Curved Stack	1
8295	Heated And Powered Exterior Mirrors	1
8500	Cold Weather Package	1
8502	Maintenance and Service Package	1
8505	Guards - Transmission & Bottom	1
8508	Auxiliary Equipment Package	1

Selling Equipment

Quote Id: 29003457

Customer: HARWICH WATER DEPT DAN PELLETIER

Dealer Attachments		
200MPISO	TAG 2 yard 4-1 MP bucket	1

Quote Summary

Prepared For:
 HARWICH WATER DEPT DAN PELLETIER
 196 CHATHAM RD
 HARWICH, MA 02645
 Business: 508-432-0304

Prepared By:
 JOE HUBER
 United Construction & Forestry
 88 Camelot Drive
 Plymouth, MA 02360
 Phone: 508-830-9997
 joe.huber@ucfne.com

This is a "budget quote" only. Actual RFQ will be provided when the Town requests an official quote. Price reflects the Sourcewell National Municipal Contract and other dealer discounts, and includes factory freight, dealer setup and delivery to Town. Trade in value also estimated and dealer will need to reappraise trade at time of RFQ. Thank you - Joe Huber.

Quote Id: 29003367
Created On: 07 June 2023
Last Modified On: 08 June 2023
Expiration Date: 31 July 2023

Equipment Summary	Selling Price	Qty	Extended
JOHN DEERE 344 P-Tier Compact Wheel Loader - TBD	\$ 200,875.00 X	1 =	\$ 200,875.00

Equipment Total **\$ 200,875.00**

Trade In Summary	Qty	Each	Extended
1998 JOHN DEERE 310E LOADER BACKHOE - T0310EX848226	1	\$ 16,000.00	\$ 16,000.00
PayOff			\$ 0.00
Total Trade Allowance			\$ 16,000.00

Trade In Total **\$ 16,000.00**

Quote Summary	
Equipment Total	\$ 200,875.00
Trade In	\$ (16,000.00)
Filing / Origination Fees	\$ 0.00
SubTotal	\$ 184,875.00
Est. Service Agreement Tax	\$ 0.00
Total	\$ 184,875.00
Down Payment	(0.00)
Rental Applied	(0.00)
Balance Due	\$ 184,875.00

Salesperson : X _____

Accepted By : X _____

Selling Equipment

Quote Id: 29003367

Customer: HARWICH WATER DEPT DAN PELLETIER

JOHN DEERE 344 P-Tier Compact Wheel Loader - TBD

Hours:
Stock Number: TBD

Code	Description	Qty
01J0T	344 P-Tier Compact Wheel Loader	1
Standard Options - Per Unit		
183B	Less JDLink	1
0202	United States of America	1
0259	Operator's Manual, English	1
0451	Standard Z-Bar Linkage	1
0505	Level 2 Package	1
0950	Less Vision System	1
1100	Less Obstacle Intelligence	1
3003	Hydrostat With Two Speed Synchronized Shift-On-Fly Transmission - High Speed	1
4007	JOHN DEERE POWERTECH PWS 4045H FT4/EU STAGE 5	1
5281	17.5R25 Goodyear SGL-D/L	1
6052	Halogen Work Lights	1
7404	Hydraulic Coupler, ISO Style	1
7501	48 in. (1219 mm) Pallet Forks	1
7801	2.0 YD (1.5 CM) General Purpose Bucket	1
Dealer Attachments		
175MPISO	TAG 1.75 yard 4-1 MP bucket	1

Extended Repair Plan Proposal

PowerGard™ Protection Plan Residential

Date : June 8, 2023			
Machine/Use Information		Plan Description	Price
Manufacturer	JOHN DEERE	Plan Type:	Deductible:
Equipment Type	344P 4WD COMPACT LOADER	Coverage:	Quoted Price \$ 0.00
Model	344P 4WD COMPACT LOADER	Total Months:	
		Total Hours:	

Extended Warranty is available only through authorized John Deere Dealers for John Deere Products, and may be purchased at any time before the product's Standard Warranty, or Extended Warranty expires.

Extended Warranty Proposal Prepared for:

I have been offered this extended warranty and

Customer Name - Please Print

- I ACCEPT the Extended Warranty
 I DECLINE the Extended Warranty

Customer Signature

If declined, I fully understand that any equipment listed above is not covered for customer expenses due to component failures beyond the original basic warranty period provided by John Deere.

Note : This is **not** a contract. For specific Extended Warranty coverage terms and conditions, please refer to the actual Extended Warranty contract for more information and the terms, conditions and limitations of the agreement.

What Extended Warranty is :

The Extended Warranty Program is for the reimbursement on parts and labor for covered components that fail due to faulty material or original workmanship that occur beyond the John Deere Basic Warranty coverage period. The agreement is between Deere & Company and the owners of select John Deere Construction and Forestry equipment, who purchase the Extended Warranty Plans for the desired coverage as indicated in this proposal.

What Extended Warranty is not :

Extended Warranty is not insurance. It also does not cover routine maintenance or high wear items, or insurance-related risks/perils such as collision, overturn, vandalism, wind, fire, hail, etc. It does not cover loss of income during or after an equipment failure. See the actual product-specific Extended Warranty agreement for a complete listing of covered components, and limitations and conditions under the program.

Features/Benefits:

- Extended Warranty includes the following features and benefits under the program :
- Pays for parts and labor costs incurred on failed covered components (less any applicable deductibles),
- Does not require pre-approval before repairs are made by the authorized John Deere dealership,
- Payments are reimbursed directly to the dealership with no prepayment required by the contract holder.

From: [Thomas Sexton](#)
To: [Dan Pelletier](#)
Subject: New Well Site Engineering
Date: Friday, March 11, 2022 3:58:18 PM
Attachments: [image001.png](#)
[LIMITATIONS.docx](#)

Dan,
for budget purposes, I recommend the following:

- Test Wells, Pumping Test, Procurement and oversight, source final report, permitting - budget \$600,000
- design and permitting of well Pump, Wellhead, connecting pipeline to WTP, water treatment plant modifications (no pumping station design) – assuming 10% of estimated \$3,000,000 cost, budget \$300,000.

With 10% contingencies allowance, say \$1,000,000 total for engineering in 2022 dollars (this amount does not include any construction except the test wells).

This is an order of magnitude number, assuming no difficulties from MassF&W, rivers groups on well impacts. Also assuming no site work at plant, or building expansion.

Cost opinions are conceptual and are for planning or comparative purposes only and should be considered preliminary budget-level opinions of probable cost (Class V) as defined by the American Society of Cost Engineers. Cost opinions are subject to the limitations in **attachment**. We relied on our experience, communications with contractors, and review of existing client documents to create the cost opinions. The cost of project financing is not included in the estimates. Costs and availability of labor, equipment, and materials may vary and market conditions, regulatory issues, and/or contractor means and methods may affect pricing. GZA has no control over final construction costs and actual costs may vary from these estimates.

Please note that actual costs may vary according to design approach, site constraints, materials costs, the bidding environment at the time of construction, future waste disposal costs and other factors. Costs should be updated with further evaluation as the design develops, and once the actual time of construction is determined.

As always, please contact me if you have any questions on this communication or if I may be of assistance.
Sincerely,

Tom

Thomas C. Sexton, P.E.

Senior Consultant

GZA | 249 Vanderbilt Avenue | Norwood, MA 02062

o: 781-278-4826 | f: 781-278-5701 | c: 215-510-5741 (working remotely)

thomas.sexton@gza.com | www.gza.com

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT

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VII. NEW BUSINESS

A. 551 Route 28, Apt #6 - Payment Plan for Water Service



ESTIMATE/TASK

Harwich Water Department
 196 CHATHAM RD
 HARWICH, MA 02645
 Office: 5084320304
 customerservice@harwichwater.com
 www.harwichwater.com

Service Renewal

Service Order: SO-00033004

551 ROUTE 28 HP

APT6 , HP

Location No: 07786

Item Details

Date	Item ID	Item Description	Quantity	Sale Price	SubTotal
Material Section					
09/07/2023	Directional Drilling	Directional Drilling	1.0000	\$11,550.00	\$11,550.00
09/07/2023	12-1	1' CORP STOP, COMP	1.0000	\$128.94	\$128.94
09/07/2023	12-4	1" CURBSTOP	1.0000	\$213.00	\$213.00
09/07/2023	12-35	5/8" X 3/4" X 1" ANGLE METER BALL VALVE W/HDL	1.0000	\$176.56	\$176.56
09/07/2023	17-1	1" POLY TUBING	400.0000	\$0.44	\$176.00
09/07/2023	17-4	TRACING WIRE/PER FT.	400.0000	\$0.21	\$84.00
09/07/2023	Police Detail (4 hr min)	Police Detail (4 hr min)	4.0000	\$244.00	\$976.00
09/07/2023	Road Patch	Road Patch	1.0000	\$1,000.00	\$1,000.00
09/07/2023	Flowable Fill/Yard	Flowable Fill/Yard	6.0000	\$82.00	\$492.00
09/07/2023	15-1	ERIE BOX	1.0000	\$60.89	\$60.89
09/07/2023	15-3	30" STAINLESS STEEL ROD	1.0000	\$42.72	\$42.72
09/07/2023	Installation Labor & Equipment	Installation Labor & Equipment	16.0000	\$185.00	\$2,960.00
09/07/2023	System Development Fee 1	1" TAP	1.0000	\$500.00	\$500.00
09/07/2023	Application Fee	Application Fee	1.0000	\$50.00	\$50.00
Material Total:					\$18,410.11
Materials Total:					\$18,410.11
Labor Total:					\$0.00
Equipment Total:					\$0.00
Contractor Total:					\$0,000

Total: \$18,410.11

ESTIMATE DETAILS: All material is guaranteed to be as specified. All work to be completed in a substantial workmanlike manner according to specifications submitted, per standard practices. Estimate is subject to change without notice. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation insurance.

RESTORATION: The disturbed work area of existing services will be loamed and seeded. The disturbed asphalt patched. Restoration excludes replacement of cobblestone, shell, stone, ornamentation, plantings, shrubs or trees requiring restoration. Nor is Harwich Water Department responsible for the cost of replacing such exclusions.

Service Renewal

IRRIGATION LINES: Harwich Water Department will not be responsible for any underground irrigation lines on site. Conservation order of Conditions, if required, is to be given to the Harwich Water Department prior to the start of work.

UNDERGROUND UTILITIES: Private underground utilities not marked by Dig Safe will be marked as needed by a private locator at an hourly rate.

ELECTRICAL SAFETY: New and replacement water service and repairs are installed using PE (polyethylene) pipe. This material is non-conductive. Many older homes have their electrical service grounded to the iron service pipe. When a repair is made, or replacement service is installed, the electrical ground is interrupted. Water customers are requested to have a licensed electrician install a new electrical ground before work is done to the water service so as to protect the electric service, heating system, and any appliances which may be in the dwelling. Harwich Water Department cannot accept responsibility for any damages which might occur if this provision is not adhered to. If you would like to use our Master Electrician, please call for a price quote.

Upon estimate acceptance and completion of installation, balance billed is due and payable within 30 Days of invoice.

Acceptance of Estimate

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified.

Acceptance Date: _____

Customer Signature: _____

Prepared By Signature: _____

Estimate Questions: (508) 432-0304 x106

- VII. NEW BUSINESS
- E. Q1 Billing Update



TOWN OF HARWICH - LIVE DATA

UB Charge Proof/Register

Run: 1 Commitment: 092023 Summary Begin: 06/30/2023 End: 09/26/2023
 Charge Code: 3 To: ZZZZZZ Bill: 09/26/2023 Due: 11/08/2023
 Group Code: 3 To: ZZZZ Int/Penalty: 11/08/2023
 Sequence by ACCOUNT/CHARGE CODE

	Cat	Base/Flat	Usage/Usage	Demand/Usage	KVAR/Usage	Rate Adj	Subject To	Net Total	Count
Summary by CHARGE CODE									
1FSPRK FIRE SPRINKLER	60	6760.00	.00	.00	.00	.00		6760.00	104
1SBASE SEWER BASE RATE	60	14550.00	.00	.0000	.0000	.00		14550.00	194
1SEWER SEWER USAGE	60	.00	14485.78	.00	.00	.00		14485.78	194
1TOWNS TOWN USAGE	60	.00	4,083,000	.0000	.0000	.00		.00	1
1WATER WATER USAGE	60	455445.00	50,000	.0000	.0000	.00		1946607.76	10175
2RESFR RESIDENTIAL FIRE S	60	1080.00	1491162.76	.00	.00	.00		1080.00	27
3SEASN SEASONAL	60	19700.00	344,839,000	.00	.00	.00		19700.00	394
3STIP SERVICE TIGHT RENEW	60	24973.00	.00	.00	.00	.00		24973.00	1469
Summary Totals		522508.00	1505648.54	.00	.0000	.00	.00	2028156.54	12558
			348,972,000	.0000	.0000				
Summary by DISTRICT									
1 CYCLE 1	60	522508.00	1505648.54	.00	.00	.00		2028156.54	12558
Summary Totals		522508.00	1505648.54	.00	.0000	.00	.00	2028156.54	12558
			348,972,000	.0000	.0000				
Summary by GROUP									
10	60	12236.00	67402.08	.00	.00	.00		79638.08	287
100	60	12811.00	13,635,000	.0000	.0000	.00		63174.41	301
105	60	11605.00	50363.41	.00	.00	.00		32368.35	276
110	60	11842.00	10,500,000	.0000	.0000	.00		42358.22	289
115	60	6840.00	20763.35	.00	.00	.00		16494.02	158
120	60	10926.00	5,354,000	.0000	.0000	.00		40418.82	259
130	60	8902.00	30516.22	.00	.00	.00		71322.69	207
135	60	13339.00	7,350,000	.0000	.0000	.00		81820.99	318
140	60	8580.00	9654.02	.00	.00	.00		39099.31	208
145	60	5591.00	2,595,000	.0000	.0000	.00		17703.65	132
150	60	18248.00	29492.82	.00	.00	.00		57223.67	447
155	60	6649.00	6,848,000	.0000	.0000	.00		30692.45	161
157	60	10092.00	62420.69	.00	.00	.00		34561.50	246





TOWN OF HARWICH - LIVE DATA

UB Charge Proof/Register

Run: 1 Commitment: 09/2023 Summary Begin: 06/30/2023 End: 09/26/2023
 Charge Code: To: ZZZZZZ Bill: 09/26/2023 Due: 11/08/2023
 Group Code: To: ZZZZ Sequence by ACCOUNT/CHARGE CODE Int/Penalty: 11/08/2023

	Cat	Base/Flat	Usage/ Usage	Demand/ Usage	KVAR/ Usage	Rate Adj	Subject To	Net Total	Count
Summary by GROUP									
160	60	18458.00	6,050,000 46315.96	.0000 .00	.0000 .00	.00		64973.96	445
170	60	10318.00	11,147,000 27584.50	.0000 .00	.0000 .00	.00		37902.50	249
172	60	10109.00	6,616,000 24994.57	.0000 .00	.0000 .00	.00		35103.57	229
175	60	13171.00	5,927,000 40874.89	.0000 .00	.0000 .00	.00		54045.89	310
176	60	8998.00	9,690,000 25911.15	.0000 .00	.0000 .00	.00		34909.15	211
180	60	7171.00	6,193,000 21182.57	.0000 .00	.0000 .00	.00		28353.57	174
182	60	23062.00	4,715,000 51426.99	.0000 .00	.0000 .00	.00		74488.99	565
184	60	14940.00	12,790,000 39352.87	.0000 .00	.0000 .00	.00		54292.87	374
187	60	24232.00	9,664,000 58287.55	.0000 .00	.0000 .00	.00		82519.55	591
189	60	6730.00	14,637,000 16806.09	.0000 .00	.0000 .00	.00		23536.09	168
190	60	27800.00	4,144,000 73297.97	.0000 .00	.0000 .00	.00		101097.97	684
194	60	17646.00	17,493,000 54522.53	.0000 .00	.0000 .00	.00		72168.53	431
198	60	23335.00	13,144,000 36608.46	.0000 .00	.0000 .00	.00		59943.46	613
20	60	12415.00	9,923,000 32291.61	.0000 .00	.0000 .00	.00		44706.61	289
200	60	13975.00	7,495,000 47996.71	.0000 .00	.0000 .00	.00		61971.71	345
205	60	12188.00	10,491,000 30036.89	.0000 .00	.0000 .00	.00		42224.89	298
210	60	14430.00	7,316,000 32713.02	.0000 .00	.0000 .00	.00		47143.02	357
30	60	11922.00	8,337,000 39936.80	.0000 .00	.0000 .00	.00		51858.80	289
35	60	8570.00	9,021,000 3044.42	.0000 .00	.0000 .00	.00		11614.42	190
365	60	12129.00	1,469,000 33655.44	.0000 .00	.0000 .00	.00		45784.44	297
40	60	8840.00	8,064,000 14204.81	.0000 .00	.0000 .00	.00		23044.81	214
45	60	6234.00	3,808,000 15824.07	.0000 .00	.0000 .00	.00		22058.07	154
50	60	10512.00	3,892,000 52735.88	.0000 .00	.0000 .00	.00		63247.88	252
55	60	5882.00	11,049,000 22359.55	.0000 .00	.0000 .00	.00		28241.55	137
60	60	7575.00	4,989,000 34387.75	.0000 .00	.0000 .00	.00		41962.75	183
65	60	6485.00	7,445,000 18505.37	.0000 .00	.0000 .00	.00		24990.37	155
70	60	8821.00	4,286,000 20782.48	.0000 .00	.0000 .00	.00		29603.48	204
			5,037,000 .0000	.0000 .0000	.0000 .0000				



TOWN OF HARWICH - LIVE DATA

UB Charge Proof/Register

Run: 1 Commitment: 092023 Summary Begin: 06/30/2023 End: 09/26/2023
 Charge Code: To: ZZZZZZ
 Group Code: To: ZZZZ Sequence by ACCOUNT/CHARGE CODE Bill: 09/26/2023 due: 11/08/2023
 Int/Penalty: 11/08/2023

	Cat	Base/Flat	Usage/ Usage	Demand/ Usage	KVAR/ Usage	Rate Adj	Subject To	Net Total	Count
Summary by GROUP									
7000	60	75.00	.00	.00	.00	.00		75.00	2
75	60	9432.00	43857.62	.00	.0000	.00		53289.62	224
80	60	12611.00	9,126,000	.0000	.0000	.00		55825.23	300
8001	60	3420.00	43214.23	.00	.0000	.00		3420.00	53
8002	60	3380.00	9,747,000	.0000	.0000	.00		3380.00	52
90	60	9981.00	.00	.0000	.0000	.00		43501.63	230
			33520.63	.00	.00	.00			
			7,411,000	.0000	.0000				
Summary Totals ----->		522508.00	1505648.54	.00	.00	.00	.00	2028156.54	12558
			348,972,000	.0000	.0000				

Summary by CHARGE TYPE/CODE									
Service 1FSPRK FIRE SPRIN 60		6760.00	.00	.00	.00	.00		6760.00	104
Service 1SBASE SEWER BASE 60		14550.00	.00	.0000	.0000	.00		14550.00	194
Service 1SEWER SEWER USAG 60		.00	14485.78	.00	.0000	.00		14485.78	194
Service 1TOWNS TOWN USAGE 60		.00	4,083,000	.0000	.0000	.00		.00	1
Service 1WATER WATER USAG 60		455445.00	50,000	.0000	.0000	.00		1946607.76	10175
Service 2RESFR RESIDENTIA 60		1080.00	1491162.76	.00	.00	.00		1080.00	27
Service 3SEASN SEASONAL 60		19700.00	344,839,000	.0000	.0000	.00		19700.00	394
Service 3STIP SERVICE TIG 60		24973.00	.00	.0000	.0000	.00		24973.00	1469
			.00	.0000	.0000				
Summary Totals ----->		522508.00	1505648.54	.00	.00	.00	.00	2028156.54	12558
			348,972,000	.0000	.0000				

Total Active Accounts: 10254

** END OF REPORT - Generated by wellesley Marsh **

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FY2024 Water Revenue Projections

	Q1 Revenue	Q2 Revenue	Q3 Revenue	Q4 Revenue	Annual Total
Base Rate	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 1,800,000
Tier 1	\$ 89,379	\$ 50,746	\$ 59,861	\$ 108,917	\$ 308,903
Tier 2	\$ 120,830	\$ 68,804	\$ 37,488	\$ 103,835	\$ 330,957
Tier 3	\$ 413,021	\$ 110,531	\$ 34,165	\$ 184,680	\$ 742,397
Tier 4	\$ 889,476	\$ 96,836	\$ 48,741	\$ 130,563	\$ 1,165,616
	\$ 1,962,705	\$ 776,917	\$ 630,255	\$ 977,995	\$ 4,347,873

X. CORRESPONDENCE / ANY OTHER BUSINESS

Month/Year September 2023

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	138,904	181,302	172,058	0	192,398	240,558	451,039	347,554	367,032	415,011	356,543	0	445,965	398,296
2	169,124	220,656	209,171	0	231,417	288,055	559,537	432,337	455,981	517,056	435,744	0	541,197	459,275
3	147,794	192,874	186,728	0	202,583	250,620	494,347	381,832	403,033	457,585	385,959	0	477,843	420,358
4	170,068	221,879	215,481	0	235,171	291,551	563,239	434,138	458,430	520,972	442,375	0	542,868	477,743
5	135,736	177,381	171,529	0	187,532	232,625	449,223	316,649	334,212	379,149	337,311	0	396,102	381,543
6	170,575	223,075	214,304	0	237,589	294,837	560,590	432,250	456,107	515,885	425,021	0	540,807	442,816
7	153,817	201,155	195,222	0	213,249	263,138	512,525	396,060	417,164	471,120	400,076	0	495,395	435,012
8	158,380	209,366	201,038	0	223,816	277,587	524,442	404,195	426,639	484,444	408,473	1,812	505,418	444,923
9	127,547	167,895	162,938	0	178,089	219,963	426,696	329,046	347,471	394,852	334,789	0	411,942	377,917
10	142,219	183,239	177,125	0	193,725	238,773	466,783	361,183	380,898	430,805	394,104	0	440,299	428,240
11	163,818	219,550	211,316	0	231,511	285,285	563,200	433,843	456,570	514,576	376,098	3,950	553,820	430,266
12	93,611	119,769	114,695	0	125,533	154,416	305,601	237,785	250,110	282,158	266,334	129,263	287,547	306,776
13	121,067	155,991	149,708	0	164,256	203,124	396,493	306,788	322,324	363,992	308,196	157,357	381,545	334,264
14	82,083	108,103	102,694	0	113,142	139,803	276,084	214,031	225,411	254,377	213,525	213,871	268,140	236,565
15	96,942	131,277	124,418	0	138,050	170,818	333,986	257,575	271,516	306,987	230,354	226,506	333,467	235,705
16	99,281	129,320	122,062	0	137,247	171,130	321,621	248,186	261,905	0	24,353	279,516	205,152	315,842
17	117,298	152,311	140,977	0	158,145	195,867	388,423	301,764	318,004	358,949	291,596	288,021	366,446	305,746
18	112,546	152,069	143,496	0	159,025	197,488	387,135	299,367	314,021	352,663	283,787	284,467	385,474	305,746
19	79,774	106,141	98,820	0	110,480	137,007	270,326	209,612	220,984	249,273	215,957	216,994	262,209	146,906
20	130,279	172,155	162,092	0	180,400	225,020	434,396	335,779	354,271	204,879	337,663	339,020	420,553	0
21	110,695	146,142	135,660	0	153,074	191,196	368,084	284,549	299,965	0	279,224	280,314	356,642	290,643
22	118,225	152,111	140,201	0	157,746	197,129	385,685	299,150	314,382	244,106	326,158	331,694	363,264	326,821
23	64,536	88,878	80,548	0	90,595	112,696	231,075	179,059	186,383	208,205	148,874	145,335	236,066	195,244
24	87,251	111,350	101,137	0	113,103	140,654	288,201	225,319	236,102	263,417	249,674	255,139	278,833	244,820
25	91,560	124,489	114,203	0	128,182	160,084	320,395	239,956	251,411	282,839	209,826	206,486	303,581	262,700
26	72,263	91,537	82,517	0	93,446	116,628	234,523	182,991	190,763	212,672	207,377	208,583	216,734	198,440
27	98,896	130,045	116,423	0	133,099	166,722	333,846	271,299	284,032	320,501	269,954	272,399	337,373	296,473
28	69,263	94,670	83,982	0	96,136	120,484	246,142	191,835	199,934	223,347	161,859	161,535	322,091	209,453
29	100,746	132,816	122,228	0	137,012	171,677	340,576	263,675	276,375	310,799	261,801	263,465	329,598	288,373
30	57,447	72,288	65,956	0	74,146	92,514	185,558	144,409	151,870	169,738	170,788	176,283	169,379	157,394
31														
Pumps :	3,481,745	4,569,837	4,318,725	0	4,789,894	5,947,449	11,619,769	8,962,215	9,433,299	9,710,356	8,753,793	4,442,010	11,175,750	9,354,300
MIN :	57,447	72,288	65,956	0	74,146	92,514	185,558	144,409	151,870	0	24,353	0	169,379	0
MAX :	170,575	223,075	215,481	0	237,589	294,837	563,239	434,138	458,430	520,972	442,375	339,020	553,820	477,743
STATIONS :	34,727,419				28,105,870			13,195,803		11,175,750		9,354,300		
TOTAL:	96,559,142													

Month/Year September 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	110,120	100,159	125,977	211,148	147,743	177,018	0	251,711	265,364	0	227,350	219,807	324,388	232,254
2	144,793	125,498	156,712	264,082	184,574	221,697	0	313,854	331,043	0	351,547	349,893	384,111	390,326
3	94,538	86,251	108,567	180,862	126,577	152,054	0	217,233	229,268	0	192,613	186,218	281,189	194,319
4	157,420	139,569	175,608	292,117	204,680	245,415	0	351,419	370,885	0	359,811	354,452	440,123	386,715
5	129,133	114,444	144,709	238,499	167,605	200,760	0	289,570	305,710	0	296,377	291,961	362,781	319,210
6	88,531	78,425	99,402	162,503	114,375	136,623	0	229,057	241,366	0	203,498	200,563	289,796	219,181
7	87,317	77,156	96,755	162,331	113,288	136,180	0	175,425	184,776	0	168,330	165,921	217,775	181,036
8	66,366	58,621	73,587	123,435	86,177	103,340	0	147,372	155,420	0	150,664	148,781	184,534	162,288
9	147,744	128,137	160,489	270,173	188,635	226,471	0	321,705	338,999	0	358,820	357,600	393,516	398,144
10	84,287	77,147	97,657	162,479	113,434	136,327	0	195,253	205,881	0	170,074	164,149	253,885	170,421
11	117,842	101,967	128,617	213,728	149,643	179,337	0	257,557	271,340	0	292,955	292,439	313,726	328,288
12	84,932	77,816	98,593	162,965	114,326	136,939	0	196,133	206,246	0	171,647	165,739	256,168	172,348
13	64,894	57,482	72,809	120,126	84,297	100,846	0	145,792	153,760	0	149,059	147,261	182,643	160,388
14	79,782	70,470	89,184	147,987	103,778	124,221	0	178,645	188,493	0	183,159	181,118	223,679	196,784
15	119,857	103,474	130,436	216,637	151,824	181,446	0	220,100	231,843	0	254,067	254,615	301,877	286,788
16	83,203	76,148	95,850	159,919	111,838	134,350	0	192,132	202,618	0	166,483	160,728	249,868	166,747
17	130,877	113,997	143,108	239,182	167,166	200,716	0	287,250	302,756	0	297,445	293,552	350,470	320,732
18	67,396	61,097	77,346	128,899	90,036	108,234	0	154,668	163,182	0	153,869	151,819	202,994	165,716
19	99,694	87,786	110,838	185,869	129,894	156,153	0	221,475	233,708	0	187,514	185,155	277,588	244,113
20	112,152	96,342	122,062	201,720	141,609	169,407	0	244,912	258,070	0	278,029	274,615	297,363	299,539
21	97,973	89,135	112,972	185,096	129,871	155,810	0	228,096	240,487	0	203,856	201,582	295,041	219,888
22	44,744	37,061	47,015	76,005	53,549	63,958	0	152,195	160,155	0	126,461	128,756	117,193	149,170
23	101,322	92,011	114,462	192,368	134,044	161,652	0	160,503	169,208	0	137,250	135,932	203,599	147,993
24	76,830	66,878	83,082	137,818	97,016	115,980	0	171,859	181,189	0	195,399	193,394	215,013	210,871
25	94,501	82,080	102,484	168,714	118,987	141,947	0	211,120	222,346	0	217,266	214,938	255,304	234,149
26	100,943	91,937	116,249	190,588	134,012	160,408	0	235,144	247,958	0	209,490	203,514	303,546	212,933
27	65,688	55,703	70,075	114,754	80,716	96,536	0	142,798	150,509	0	173,852	174,772	169,518	190,255
28	99,115	90,635	113,363	187,378	131,780	158,020	0	231,206	243,685	0	206,103	201,174	299,038	218,791
29	77,401	68,641	85,500	141,141	99,350	118,887	0	176,322	185,891	0	178,720	176,651	217,999	192,504
30	89,793	79,877	99,025	165,120	115,832	139,034	0	203,902	214,839	0	207,544	205,442	258,068	223,383
31														
Pumps :	2,919,188	2,585,945	3,252,534	5,403,641	3,786,657	4,539,765	0	6,504,410	6,856,998	0	6,469,252	6,382,541	8,122,793	6,995,274
MIN :	44,744	37,061	47,015	76,005	53,549	63,958	0	142,798	150,509	0	126,461	128,756	117,193	147,993
MAX :	157,420	139,569	175,608	292,117	204,680	245,415	0	351,419	370,885	0	359,811	357,600	440,123	398,144
STATIONS :	22,487,731							13,361,408			12,851,793		8,122,793	6,995,274
TOTAL:	63,818,998													

Date September 2023
 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	71	56	63		
2		0.00	73	55	64		
3		0.00	77	66	72		
4		0.00	80	65	73		
5		0.00	80	66	73		
6		0.00	81	68	74		
7		0.00	85	72	78		
8		0.00	80	73	77		
9		0.00	80	73	76		
10		0.27	78	70	74		
11		0.04	77	69	73		
12		0.04	77	70	74		
13		0.04	77	70	73		
14		0.34	74	63	68		
15		0.15	68	62	65		
16		0.56	67	60	64		
17		0.00	74	57	65		
18		1.50	67	65	66		
19		0.01	72	61	67		
20		0.01	71	58	65		
21		0.01	70	58	64		
22		0.01	67	55	61		
23		0.79	61	59	60		
24		0.17	62	60	61		
25		0.17	63	60	61		
26		0.00	62	53	57		
27		0.00	63	52	57		
28		0.00	64	51	57		
29		0.00	63	54	58		
30		0.47	61	59	60		
31							
Total		4.58					
Average		0.15	71.4	62.0			
Max		1.50	85.2	73.3			
Min		0.0	61.3	50.5			

Date September 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	84	63	73		
2		0.00	73	56	65		
3		0.00	72	53	62		
4		0.00	78	58	68		
5		0.00	75	66	70		
6		0.05	69	65	67		
7		0.00	70	64	67		
8		0.00	72	62	67		
9		0.00	75	62	69		
10		0.00	79	60	69		
11		0.00	81	64	72		
12		0.41	72	66	69		
13		0.83	73	69	71		
14		0.00	77	64	71		
15		0.00	69	59	64		
16		0.00	69	57	63		
17		0.00	67	52	60		
18		0.00	77	62	70		
19		0.04	71	68	69		
20		0.00	70	62	66		
21		0.00	66	61	64		
22		1.36	75	59	67		
23		0.00	60	54	57		
24		0.00	66	51	58		
25		0.00	67	49	58		
26		0.12	72	63	68		
27		0.00	74	62	68		
28		0.00	70	55	62		
29		0.00	66	53	60		
30		0.00	62	51	56		
31							
Total		2.81					
Average		0.09	71.7	59.6			
Max		1.36	83.5	68.9			
Min		0.0	60.3	49.1			