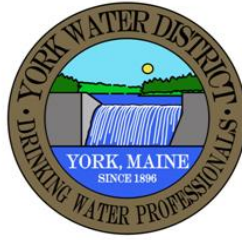


Trustees

Richard Leigh, President
Russell A. Peterson, Treasurer
Stephen C. Rendall Jr., Clerk
Karen Arsenault, Trustee
Richard E. Boston, Trustee



Administration

Donald D. Neumann Jr., Superintendent
Gary E. Stevens, Asst. Superintendent
Patrick M. Desrosiers, Financial Manager
Ryan Lynch, Treatment Plant Manager

86 Woodbridge Road
York, Maine 03909
Telephone: (207) 363-2265
Fax: (207) 363-7338
www.yorkwaterdistrict.org

Posted October 21, 2021

Revised 10/25/21

LEGAL NOTICE -- The monthly meeting of the York Water District Board of Trustees will be held remotely at 2:00 pm on Wednesday, October 27, 2021 as per the District's remote meeting policy. For members of the public that wish to participate remotely, please send a request to customerservice@yorkwaterdistrict.org by 12:00 pm on the day of the meeting. Our staff will provide an access link by email ten minutes prior to the meeting.

AGENDA

1. The President will call the meeting to order.
2. Executive Session (1:00pm-2:00pm) to discuss Personnel related matters - (Pursuant to MRSA Title 1, Section 405.6 A). Re; Annual performance review of the Superintendent.
3. See what action the Board will take after a review of the minutes of the Board Meeting held on September 15, 2021.
4. Invitation for Public Comment.
Because time is limited, the Board will give York WD ratepayers and York property owners priority for presenting public comments. If there is sufficient time, the Board will provide an opportunity to those outside of York to provide comments. Comments by everyone will be limited to 3 minutes. All comments will be directed to the Board President and are required to be civil, respectful, and relevant to the York Water District.
For those who were not provided an adequate opportunity to provide oral comments, they are free to submit written comments. Those comments should be sent to customerservice@yorkwaterdistrict.org
5. Financial Manager will present the Board of Trustees with monthly budgetary reports and income statements for review and discussion.
6. York Parks & Rec Director Robin Cogger will provide an update regarding the Parking & Restroom project at Mount Agamenticus.
7. See what action the board will take on a new Maine PERS law that has revised enrollment rules.

8. The Board will discuss future conservation measures that can be taken and how it may affect rates.
9. See what action the Board will take after a review of a proposed Superintendent Shadow Plan.
10. Superintendent & Staff will provide an update on District Operations.
 - Update on newly State regulated testing for PFAS and past proactive monitoring results for PFAS and Chlorate.
 - Recent water quality issue
 - Distribution
11. See what action the Board may take regarding the Superintendent's annual review.
12. General Discussion.
13. Adjourn.

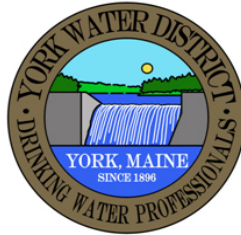
Respectfully Submitted,

A handwritten signature in cursive script that reads "Donald D. Neumann, Jr.".

Donald D. Neumann, Jr.
Superintendent

Trustees

Richard Leigh, President
Russell A. Peterson, Treasurer
Stephen C. Rendall Jr., Clerk
Karen Arsenault, Trustee
Richard E. Boston, Trustee



86 Woodbridge Road
York, Maine 03909
Telephone: (207) 363-2265
Fax: (207) 363-7338
www.yorkwaterdistrict.org

Administration

Donald D. Neumann Jr., Superintendent
Gary E. Stevens, Asst. Superintendent
Patrick M. Desrosiers, Financial Manager
Ryan Lynch, Treatment Plant Manager

The York Water District Board of Trustees monthly meeting was held at 2:00 PM on Wednesday, September 15, 2021, through remote conferencing as approved by the Maine Public Utilities Commission.

Note: YWD will be adopting a remote meeting policy at a future meeting.

President, Richard Leigh called the Meeting to order at 2:02 PM. Others present were Treasurer – Russell Peterson, Clerk – Stephen Rendall, Trustee – Richard Boston and Trustee – Karen Arsenault. Staff present was Superintendent – Donald Neumann, Asst. Superintendent – Gary Stevens, Financial Manager – Patrick Desrosiers, and Financial Asst. – Shelley Kimball. Treatment Plant Manager – Ryan Lynch was not in attendance.

On a motion made by Trustee Arsenault and duly seconded by Trustee Peterson, it was voted unanimously to accept the Minutes of the August 18, 2021, Board Meeting.

Public Comment:

Janet Drew – asked for an update on the comp plan and what the district is doing to promote conservation

The Financial Manager presented the Board with the Monthly Budget Reports and Income Statement for August 2021 for review and discussion. The Monthly Revenue for August 2021 is \$23,033 over projected. The Year-to-Date Revenue for August 2021 is \$74,545 over budgeted. The Monthly O&M Budget for August 2021 is \$9,805 under projected. The Year-to-Date O&M is \$132,744 under budgeted.

Patrick mentioned that in October there are 2 bond payments due, and the seasonal accounts would be billed.

Patrick addressed the Board with his recommendation from the RFP's received back from the auditing firms to perform the district's financial audit. His recommendation was to stay with Runyon Kersteen Ouellette. On a motion made by Trustee Rendall and duly seconded by Trustee Peterson it was voted unanimously to award the contract to the incumbent and renew their relationship with the YWD for a three-year term.

Superintendent's updates:

- Don attempted to answer Janet Drew's questions:
 - Collin Stewart our engineer is working on the comp plan, currently he's working on demand and growth projections going forward. The district is aware of about 320 units being built in town in the next couple of years.
 - Conservation we have a traditional rate set like other local districts. We've had a lot of internal discussion about conservation. When we do our next rate case, estimated date of 2023 we will work to improve conservation efforts.
- Staff are trying to finish up 2021 Capital Budget items.
- Management working on the 2022 Capital Budget,
- Nubble Road is under way now.

- York Heights water tower antenna proposal, the Board authorized Don last month to work on a lease with AT&T. Our Attorney is preparing a draft agreement which will be submitted to AT&T for review and approval.

General Discussion:

Trustee Peterson asked that there be an October agenda item for the Board to discuss water conservation.

Rick Boston asked that Don to contact Robin Cogger to see if she could give the Board an update and a possible a presentation where they are on the Mt. Agamenticus Parking and Restroom Project.

Trustee Rendall made comments concerning his review of the new cellular tower proposal drafted by Vertex Towers and presented to the First Parish Church. There is a general feeling this company is trying to benefit from the hard work of YWD and the sub-committee.

Trustee Leigh explained the Superintendent's review process and asked that all Trustees forward their appraisal evaluation to him so that he can combine the appraisals for the Board to review and consider at the October Trustees Meeting.

Don asked for an agenda item to discuss the succession plan he has proposed.

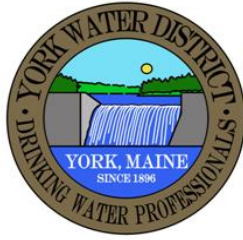
President Leigh adjourned the meeting at 2:38 PM.

Respectfully Submitted,

Stephen Rendall
Clerk
York Water District

Trustees

Richard Leigh, President
Russell A. Peterson, Treasurer
Stephen C. Rendall Jr., Clerk
Karen Arsenault, Trustee
Richard E. Boston, Trustee



Administration

Donald D. Neumann Jr., Superintendent
Gary E. Stevens, Asst. Superintendent
Patrick M. Desrosiers, Financial Manager
Ryan Lynch, Treatment Plant Manager

86 Woodbridge Road
York, Maine 03909
Telephone: (207) 363-2265
Fax: (207) 363-7338
www.yorkwaterdistrict.org

Posted October 14, 2021

Board of Trustees Special Meeting
At the District's Main Office
Thursday, October 21, 2021 @ 2:00 p.m.
AGENDA

1. The President will call the meeting to order.
2. Invitation for Public Comment.
Because time is limited, the Board will give York WD ratepayers and York property owners priority for presenting public comments. If there is sufficient time, the Board will provide an opportunity to those outside of York to provide comments. Comments by everyone will be limited to 3 minutes. All comments will be directed to the Board President and are required to be civil, respectful, and relevant to the York Water District. For those who were not provided an adequate opportunity to provide oral comments, they are free to submit written comments. Those comments should be sent to customerservice@yorkwaterdistrict.org
3. See what action the Board will take after a review of the proposed remote meeting policy.
4. General Discussion.
5. Adjourn.

Respectfully Submitted,

Donald D. Neumann, Jr.
Superintendent

YORK WATER DISTRICT

POLICY: Remote Meeting Policy
DATE ISSUED:
BOARD ADOPTED:
SUPERSEDES ANY PREVIOUS POLICY
REVISION DATE:

Board and Subcommittees

Pursuant to 1 M.R.S. § 403-B, and after public notice and hearing, the York Water District adopts this policy governing remote or partially remote participation in public meetings and proceedings.

PURPOSE

The purpose of this policy is to provide a framework for remote participation or attendance at meetings of the trustees of the York Water District, or its subcommittees.

A. LIMITED IN SCOPE

Board and Subcommittee members of the York Water District are expected to be physically present for meetings except when being physically present is not practical, including but not limited to the following circumstances:

1. The existence of an emergency or urgent issue that requires the full board or subcommittee to meet remotely.
2. Illness, other physical condition or temporary absence from the York Water District that causes a member to face significant difficulties traveling to and attending in person.

The member who is unable to attend a meeting in person shall notify the Board President, or, in the event the Board President is not available, the Treasurer, as far in advance of the meeting as possible. Such individual is authorized to make a determination as to whether remote participation by the board or subcommittee or certain member(s) is permissible under the circumstances.

B. REMOTE PARTICIPATION REQUIREMENTS

1. Remote Methods of Participation

- a. The remote method of participation may be through telephonic or video technology that allows for the simultaneous reception of information and may include other means when such means are necessary to provide reasonable accommodation to a person with a disability. Methods of participation cannot be by text-only means such as e-mails, text message or chat functions.

2. Boards & Subcommittees

- a. A board or subcommittee member participates in a public proceeding by remote methods is present for purposes of a quorum and voting.
- b. All votes taken during any public proceeding when one or more members are participating by remote means shall be by roll call vote that can be seen and heard if using video technology and heard if using only audio technology.

3. Members of the Public

- a. Members of the public must be given meaningful opportunity to attend remotely when a member of the board or subcommittee is participating remotely.
- c. If the board or subcommittee allows or is required to provide an opportunity for public input during the meeting, and effective means of communication between the members of the body and the public must be provided.
- d. The board or subcommittee may not determine that public attendance at a proceeding will be limited solely to remote methods, except in the case of an emergency or urgent issue that requires the full board or subcommittee to meet remotely.

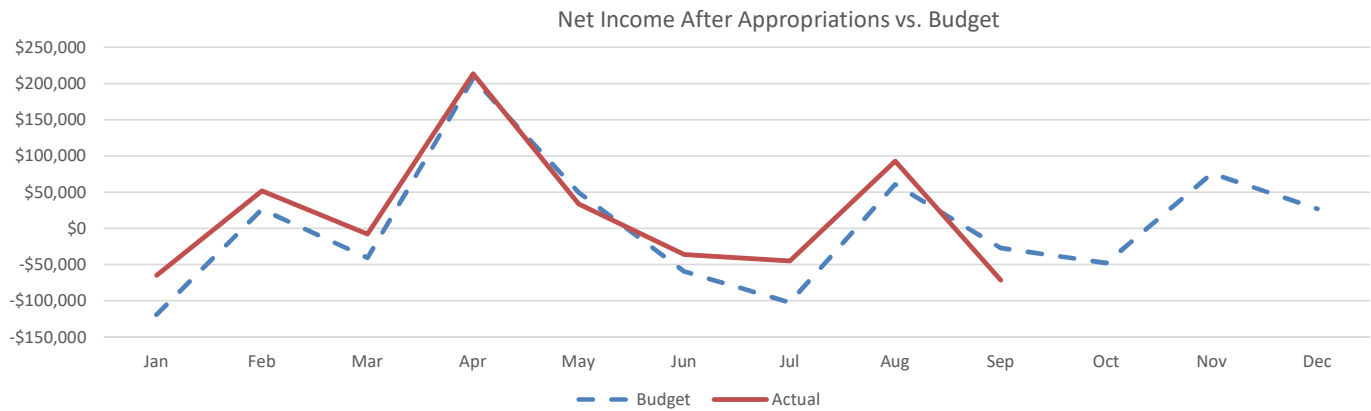
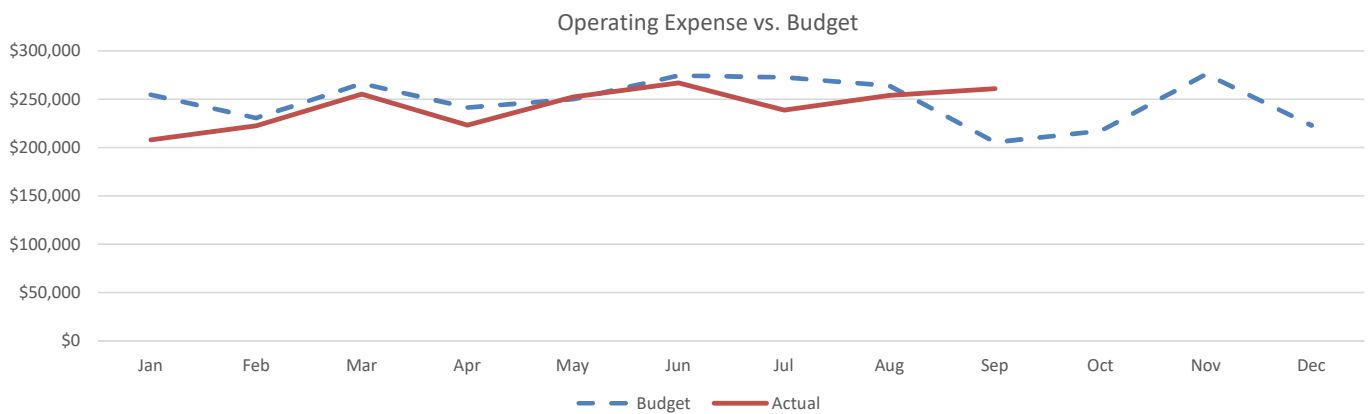
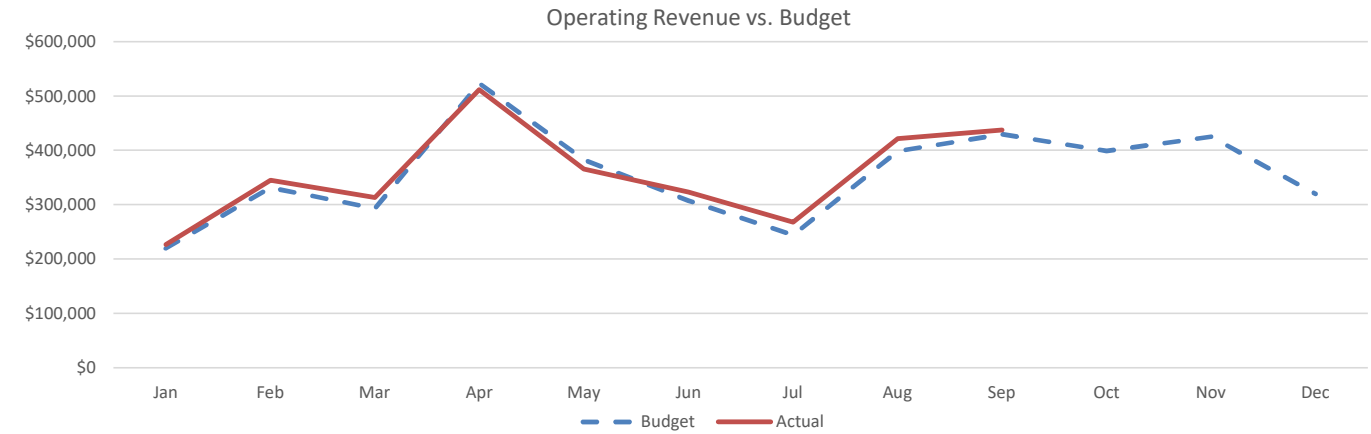
4. Notice Requirements

- a. Notice of all board and subcommittee meetings must be provided in accordance with 1 M.R.S. § 406 and applicable York Water District requirements.
- b. When the public may attend via remote methods the notice must include the means by which the public can participate remotely.
- c. Unless the entire board or subcommittee is meeting remotely, due to an emergency or urgent issue, the notice shall include the physical location of the meeting for those that would like to attend in person.

5. Meeting Materials

All documents and materials considered by the board must be made available to the public who attend remotely, electronically, or otherwise, to the same extent they are customarily made available to members of the public who attend in person, as long as additional costs are not incurred by the York Water District

**York Water District
Monthly Operating Revenue, Expense & Net Income**



Bank Statement Balances

As of October 20, 2021

<u>Account</u>	<u>Balance</u>	<u>Account</u>	<u>Balance</u>
Operating	\$1,814,169.15	Watershed	\$159,048.70
System Development	\$299,778.25	Customer Advance	\$503,132.08
Reserved for Tank Painting	\$ 859,435.00		
Operating Reserve	\$1,254,512.40	% of Recommended Reserve	103%

York Water District
Income Statement
For the Month Ending September 30, 2021

Operating Revenue

 **\$7,878**

Operating Expense

 **\$55,248**

Net Income/(Loss)

 **(\$44,635)**

					<u>Variance vs.</u>	
	<u>Actual</u>		<u>Budget</u>	<u>Variance</u>	<u>Total Budget</u>	<u>Tot. Budget</u>
Residential Metered Sales	\$ 282,068	\$	272,361	\$ 9,707	\$ 2,446,393	0%
Commercial Metered Sales	51,209		53,113	(1,904)	490,575	0%
Governmental Metered Sales	2,112		1,576	536	92,508	1%
Public & Private Fire Protection	100,064		101,730	(1,666)	1,234,738	0%
Other Operating Revenue	2,038		833	1,205	9,996	12%
Total Operating Revenue	437,491		429,613	7,878	4,274,210	0%
Salaries & Wages	105,273		93,579	11,694	1,488,875	1%
Employee Benefits	55,233		54,955	278	657,891	0%
Purchased Power & Water	8,430		7,003	1,427	66,378	2%
Chemicals	10,272		-	10,272	70,359	15%
Materials & Supplies	10,899		11,879	(980)	166,136	-1%
Contracted Services	57,252		30,206	27,046	347,363	8%
Transportation Expense	3,910		2,708	1,202	38,290	3%
Insurance	2,889		1,005	1,884	51,602	4%
Other Miscellaneous Expenses	6,577		4,152	2,425	88,565	3%
Total Operating Expense	260,735		205,487	55,248	2,975,459	2%
Depreciation & Amortization	83,615		83,616	(1)	1,007,547	
Non-Operating Income	30,028		26,887	3,141	271,700	1%
Non-Operating Expenses	1,479		1,072	407	22,275	2%
Interest Expense	9,715		9,715	-	117,816	0%
Appropriations	183,726		183,726	-	373,759	0%
Net Income After Appropriations	\$ (71,751)	\$	(27,116)	\$ (44,635)	\$ 49,054	

Timing of purchases. Year-to-date number is slightly under budget.

\$18,000 to Gammon Lawncare for last three months of mowing and roadside maintenance at Chases Pond. \$11,000 for three-year extension for Office 365 contract for staff and Trustees.

York Water District
Income Statement
For the Nine Months Ending September 30, 2021

Operating Revenue

 **\$82,423**

Operating Expense

 **(\$77,496)**

Net Income/(Loss)

 **\$170,863**

					<u>Variance vs.</u>	
	<u>Actual</u>	<u>Budget</u>	<u>Variance</u>	<u>Total Budget</u>	<u>Tot. Budget</u>	
Residential Metered Sales	\$ 1,887,656	\$ 1,805,511	\$ 82,145	\$ 2,446,393	3%	
Commercial Metered Sales	323,963	327,359	(3,396)	490,575	-1%	
Governmental Metered Sales	60,627	63,732	(3,105)	92,508	-3%	
Public & Private Fire Protection	928,144	926,008	2,136	1,234,738	0%	
Other Operating Revenue	12,140	7,497	4,643	9,996	46%	
Total Operating Revenue	3,212,530	3,130,107	82,423	4,274,210	2%	
Salaries & Wages	1,057,441	1,067,178	(9,737)	1,488,875	-1%	
Employee Benefits	510,546	521,124	(10,578)	657,891	-2%	
Purchased Power & Water	53,817	50,291	3,526	66,378	5%	
Chemicals	54,165	59,592	(5,427)	70,359	-8%	
Materials & Supplies	149,337	129,652	19,685	166,136	12%	
Contracted Services	221,330	290,496	(69,166)	347,363	-20%	
Transportation Expense	29,052	28,496	556	38,290	1%	
Insurance	41,145	37,995	3,150	51,602	6%	
Other Miscellaneous Expenses	65,304	74,809	(9,505)	88,565	-11%	
Total Operating Expense	2,182,137	2,259,633	(77,496)	2,975,459	-3%	
Depreciation & Amortization	752,535	752,544	(9)	1,007,547		
Non-Operating Income	221,612	203,801	17,811	271,700	7%	
Non-Operating Expenses	27,078	20,202	6,876	22,275	31%	
Interest Expense	89,575	89,575	-	117,816	0%	
Appropriations	217,926	217,926	-	373,759	0%	
Net Income After Appropriations	\$ 164,891	\$ (5,972)	\$ 170,863	\$ 49,054		

Purchased items not in 2021 Budget:
\$9,000 - Upgrade meter reading units
\$6,000 - COVID related equipment & supplies
\$4,400 - Silent check valve at plant
\$3,600 - Dome markers

Some engineering and consulting work budgeted for earlier in the has not been billed. Charges for IT work by Advanced Communications are less than planned.

\$7,000 under budget in training related expenses, mostly due to timing of billing for management enrichment training.

Includes watershed grant funds budgetted in 2020, increased revenue from scrap metal sales, and payment from Smartlink for third-party cellular study.

Includes cost of cellular study performed by Isotope.

DATE: 10/21/2021
TIME: 10:05:43AM

York Water District
INVOICE LIST
FOR CHECKS FROM 9/8/2021 TO 10/8/2021

PAGE: 1

<u>Vendor #</u>	<u>Vendor Name</u>	<u>Invoice #</u>	<u>Amount</u>	<u>Check Date</u>	<u>CHK #</u>	<u>Description</u>
ABBOTT BROTHERS						
1	ABBOTT BROTHERS	28190	810.00	09/16/2021	16785	FILL MATERIALS - NUBBLE RD
			810.00			
ADRIANA BELLEROSE AND ASS						
1,591	ADRIANA BELLEROSE AND A	3493.75	3,493.75	09/16/2021	16786	LEADERSHIP TRAINING (PROGRESS BILL)
			3,493.75			
Advanced Communications Ser						
348	Advanced Communications S	600912	285.00	09/30/2021	16823	MONTHLY CYBER REPORTING
			285.00			
AMERICAN SECURITY ALARM						
598	AMERICAN SECURITY ALARM	141140	225.00	09/09/2021	16756	SERVICE CALL
598	AMERICAN SECURITY ALARM	141498	75.00	09/16/2021	16788	SERVICE CALL
			300.00			
APPROVED FIRE PROTECTION						
1,024	APPROVED FIRE PROTECTIO	IN00060414	315.80	09/16/2021	16789	AIR MONITOR REPAIR/CALIBRATION
			315.80			
AT&T						
168	AT&T	0207374976001	37.18	09/09/2021	16757	LONG DISTANCE - PLANT
			37.18			
CARDMEMBER SERVICE						
1,264	CARDMEMBER SERVICE	001618817 09/2	14,208.28	09/16/2021	16790	SEPTEMBER CREDIT CARD ACTIVITY
			14,208.28			
Central Maine Power						
24	Central Maine Power	35010715726 09	16.86	09/23/2021	16802	POWER - LIGHT AT POND
24	Central Maine Power	35011336332 09	507.50	09/23/2021	16802	POWER - RTE 1 NORTH PS
24	Central Maine Power	35012087900 09	27.35	09/23/2021	16802	POWER - SIMPSON HILL TANK
24	Central Maine Power	35012909699 09	18.24	09/23/2021	16802	POWER - RPO GARAGE
24	Central Maine Power	35012922080 09	106.11	09/23/2021	16802	POWER - WHITE PINE PS
24	Central Maine Power	35012966749 09	858.02	09/23/2021	16802	POWER - SCREENHOUSE/AERATION SYSTE
24	Central Maine Power	35012969180 09	5,465.72	09/23/2021	16802	POWER - TREATMENT PLANT
24	Central Maine Power	35013404708 09	107.70	09/23/2021	16802	POWER - RTE 1 SOUTH PS
24	Central Maine Power	35015157361 09	416.94	09/23/2021	16802	POWER - WHIPPOORWILL PS
24	Central Maine Power	35015205376 09	18.58	09/23/2021	16802	POWER - APARTMENTS
24	Central Maine Power	35015205897 09	133.55	09/23/2021	16802	POWER - RPO
24	Central Maine Power	35015396233 09	21.32	09/23/2021	16802	POWER - LIGHT BEHIND SHOP
24	Central Maine Power	35016940278 09	40.14	09/23/2021	16802	POWER - HEIGHTS TANK
24	Central Maine Power	35016960912 09	16.86	09/23/2021	16802	POWER - HEAT TAPE
24	Central Maine Power	35017139011 09	693.26	09/23/2021	16802	POWER - OFFICE/SHOP
			8,448.15			
COMMUNICATIONS FACILITIES						
338	COMMUNICATIONS FACILITI	1559	250.00	09/30/2021	16824	MONTHLY TOWER SITE INSPECTION

DATE: 10/21/2021
TIME: 10:05:43AM

York Water District
INVOICE LIST
FOR CHECKS FROM 9/8/2021 TO 10/8/2021

PAGE: 2

Vendor #	Vendor Name	Invoice #	Amount	Check Date	CHK #	Description
			250.00			
CONSOLIDATED COMMUNICAT						
75	CONSOLIDATED COMMUNIC	141140	194.65	09/30/2021	16825	MONTHLY SCADA MESSAGING
75	CONSOLIDATED COMMUNIC	2073636101536	158.94	09/09/2021	16758	MONTHLY SCADA MESSAGING
			353.59			
CORE & MAIN						
1,124	CORE & MAIN	P094051	1,736.70	09/23/2021	16803	STOCK
			1,736.70			
DIGGER'S EXCAVATING						
494	DIGGER'S EXCAVATING	6	2,425.00	09/30/2021	16826	GRADING - MGMNT ROAD UPGRADES
494	DIGGER'S EXCAVATING	7	2,250.00	09/30/2021	16826	DEMO GARAGE AND APARTMENTS
			4,675.00			
Eldredge Lumber						
38	Eldredge Lumber	449042	390.94	09/16/2021	16791	SHOP MATERIALS
38	Eldredge Lumber	449049	374.96	09/09/2021	16759	MATERIALS AND SUPPLIES
38	Eldredge Lumber	450310	24.27	09/16/2021	16791	SIGN SHOP MATERIALS
38	Eldredge Lumber	451208	46.30	09/16/2021	16791	MATERIALS
38	Eldredge Lumber	451391	42.52	09/23/2021	16804	LAGOON MATERIALS
38	Eldredge Lumber	451419	88.59	09/23/2021	16804	PLANT MAINT MATERIALS
38	Eldredge Lumber	451738	41.38	09/23/2021	16804	RPO SUPPLIES
38	Eldredge Lumber	451806	186.14	09/23/2021	16804	SCREENHOUSE MAINT MATERIALS
38	Eldredge Lumber	452859	15.38	09/23/2021	16804	SCREENHOUSE MAINT MATERIALS
38	Eldredge Lumber	453005	14.38	09/30/2021	16827	SHOP SUPPLIES
38	Eldredge Lumber	453719	25.99	09/30/2021	16827	MATERIALS
38	Eldredge Lumber	453798	32.89	09/30/2021	16827	SHOP SUPPLIES
38	Eldredge Lumber	454486	21.75	09/30/2021	16827	SHOP SUPPLIES
			1,305.49			
ESCREEN INC.						
1,183	ESCREEN INC.	6213896	64.25	09/16/2021	16787	RANDOM DRUG/ALCOHOL TESTING
			64.25			
Everett J. Prescott, Inc						
113	Everett J. Prescott, Inc	5905916	23,179.20	09/16/2021	16792	STOCK - NUBBLE PHASE II
113	Everett J. Prescott, Inc	5906491	3,359.30	09/16/2021	16792	STOCK
113	Everett J. Prescott, Inc	5907308	20,112.49	09/16/2021	16792	STOCK - METER CHANGE OUTS
113	Everett J. Prescott, Inc	5909195	1,086.36	09/23/2021	16805	STOCK - NUBBLE RD
113	Everett J. Prescott, Inc	5912108	231.03	09/09/2021	16760	STOCK ITEM
113	Everett J. Prescott, Inc	5921405	1,147.20	09/23/2021	16805	STOCK - NUBBLE RD
113	Everett J. Prescott, Inc	5921889	1,050.00	09/23/2021	16805	STOCK
			50,165.58			
FIELDING'S OIL & PROPANE CC						
988	FIELDING'S OIL & PROPANE	3765075	231.94	09/09/2021	16761	98.4 GAL DIESEL
988	FIELDING'S OIL & PROPANE	3769583	78.97	09/16/2021	16793	33.5 GAL DIESEL

DATE: 10/21/2021
TIME: 10:05:43AM

York Water District
INVOICE LIST
FOR CHECKS FROM 9/8/2021 TO 10/8/2021

PAGE: 3

Vendor #	Vendor Name	Invoice #	Amount	Check Date	CHK #	Description
988	FIELDING'S OIL & PROPANE	3770810	38.89	09/16/2021	16793	16.5 GAL DIESEL
988	FIELDING'S OIL & PROPANE	3775069	25.70	09/23/2021	16806	10.9 GAL DIESEL
988	FIELDING'S OIL & PROPANE	3780103	173.25	09/30/2021	16828	73.5 GAL DIESEL
			548.75			
FIORA, JAMES						
1,624	FIORA, JAMES	27824	23.58	09/23/2021	16807	UB 0738 5 ORCHARD LANE
			23.58			
FISKE MOBILE HEARING SERVI						
248	FISKE MOBILE HEARING SER	3013	90.00	09/30/2021	16833	HEARING TEST - NEW STAFF
			90.00			
GAC CHEMICAL CORP						
1,073	GAC CHEMICAL CORP	V103957	4,209.64	09/09/2021	16762	44080 LBS ALUMINUM SULFATE
			4,209.64			
George G. Roberts Company						
96	George G. Roberts Company	0070821-IN	325.00	09/23/2021	16808	STOCK
			325.00			
Goodwill Industries of Maine						
47	Goodwill Industries of Maine	37521	120.00	09/23/2021	16809	RAGS FOR SHOP
			120.00			
GROUP DYNAMIC INC						
1,086	GROUP DYNAMIC INC	L2110-01600084	203.00	09/23/2021	16810	MONTHLY FSA & HRA ADMIN FEE
			203.00			
Hach Chemical						
66	Hach Chemical	12624761	92.31	09/09/2021	16763	LAB CONSUMABLES
66	Hach Chemical	12625881	298.69	09/16/2021	16794	LAB CONSUMABLES
66	Hach Chemical	12643725	20.75	09/30/2021	16829	LAB CONSUMABLES
			411.75			
HARCROS CHEMICALS,INC						
579	HARCROS CHEMICALS,INC	300163653	2,259.90	09/09/2021	16764	8100 LBS SODIUM CARBONATE
			2,259.90			
IBS NORTHERN NEW ENGLAND						
928	IBS NORTHERN NEW ENGLA	12033042	72.40	09/09/2021	16765	BATTERIES
928	IBS NORTHERN NEW ENGLA	12033043	158.21	09/09/2021	16765	BATTERIES
			230.61			
JAMES CARNELL-KAPISE						
1,621	JAMES CARNELL-KAPISE	09/06/2021	189.98	09/09/2021	16766	2021 BOOT ALLOWANCE - J. KAPISE
			189.98			
KEMIRA WATER SOLUTIONS, II						
1,010	KEMIRA WATER SOLUTIONS,	9005414360	3,802.20	09/09/2021	16767	2248 LBS POLYMER

DATE: 10/21/2021
TIME: 10:05:43AM

York Water District
INVOICE LIST
FOR CHECKS FROM 9/8/2021 TO 10/8/2021

PAGE: 4

Vendor #	Vendor Name	Invoice #	Amount	Check Date	CHK #	Description
			3,802.20			
KYOCERA						
1,202	KYOCERA	55L2132680	65.66	09/23/2021	16815	MONTHLY BASE & OVERAGE BILL/SHOP PR
			65.66			
MAINE DEPARTMENT OF HEALT						
69	MAINE DEPARTMENT OF HE/	I0112816	300.00	09/23/2021	16811	DBP SAMPLES
69	MAINE DEPARTMENT OF HE/	I0112817	300.00	09/23/2021	16811	DBP SAMPLES
69	MAINE DEPARTMENT OF HE/	I0112818	300.00	09/23/2021	16811	DBP SAMPLES
69	MAINE DEPARTMENT OF HE/	I0112819	300.00	09/23/2021	16811	DBP SAMPLES
			1,200.00			
Maine Municipal Association						
67	Maine Municipal Association	1000410160	84.68	09/09/2021	16768	EMPLOYEE BACKGROUND CHECK
			84.68			
Maine Municipal Emp Health Tr						
85	Maine Municipal Emp Health	37496 10/2021	37,065.83	09/23/2021	16812	OCTOBER HEALTH INSURANCE
			37,065.83			
MARINE WIRING & ELECTRONI						
1,623	MARINE WIRING & ELECTRC	70	680.00	09/16/2021	16795	CAMERA/CABLE REPLACEMENT - TOWER
			680.00			
Michael H. Avery						
214	Michael H. Avery	10/01/2021	849.33	09/30/2021	16830	MONTHLY RETIREE INS OPT-OUT - M. AVE
			849.33			
NEIWPPC-JETCC						
286	NEIWPPC-JETCC	09/09/2021	100.00	09/09/2021	16769	DEP ONLINE COURSES
			100.00			
NELSON ANALYTICAL LLC						
587	NELSON ANALYTICAL LLC	221090463	105.00	09/23/2021	16813	ROUTINE BACTERIA SAMPLES
587	NELSON ANALYTICAL LLC	221090488	15.00	09/23/2021	16813	SAMPLE - 317 US RTE 1
587	NELSON ANALYTICAL LLC	221090573	15.00	09/23/2021	16813	SAMPLE - 317 US RTE 1
587	NELSON ANALYTICAL LLC	221090688	15.00	09/30/2021	16831	SAMPLE - SIMPSON HILL TANK
			150.00			
NEW ENGLAND TRAFFIC CONTI						
606	NEW ENGLAND TRAFFIC COI	210499	528.00	09/09/2021	16770	FLAGGERS - NUBBLE RD
606	NEW ENGLAND TRAFFIC COI	210640	1,584.00	09/23/2021	16814	FLAGGERS - NUBBLE ROAD
			2,112.00			
OAKWOODS LUMBER INC.						
1,119	OAKWOODS LUMBER INC.	26823	362.40	09/09/2021	16771	TRAILER DECKING
			362.40			
OMNI Services, Inc.						
345	OMNI Services, Inc.	2134415-01	328.25	09/30/2021	16832	TANK CLEANING MATERIALS

DATE: 10/21/2021
TIME: 10:05:43AM

York Water District
INVOICE LIST
FOR CHECKS FROM 9/8/2021 TO 10/8/2021

PAGE: 5

Vendor #	Vendor Name	Invoice #	Amount	Check Date	CHK #	Description
			328.25			
Pike Industries Inc.						
464	Pike Industries Inc.	1151176	1,376.31	09/16/2021	16796	FILL MATERIALS - MGMT ROAD MAINT
			1,376.31			
RADIO COMMUNICATIONS MGI						
1,306	RADIO COMMUNICATIONS M	89959	710.00	09/09/2021	16772	RADIO REPROGRAMMING
			710.00			
REGIONAL WATER AUTHORITY						
657	REGIONAL WATER AUTHORI	90025148	120.00	09/09/2021	16773	PFAS SAMPLES
657	REGIONAL WATER AUTHORI	90025246	750.00	09/23/2021	16816	PFAS SAMPLES
			870.00			
Roche Locksmith Services						
231	Roche Locksmith Services	45891	15.00	09/30/2021	16834	KEY SETS - MT A. TOWER
			15.00			
S. APGAR TRUCKING						
1,167	S. APGAR TRUCKING	09/01/2021	455.00	09/09/2021	16774	TRUCK TIME - MANAGEMENT RD UPGRADE
			455.00			
Seacoast Newspapers						
89	Seacoast Newspapers	07/31/2021	123.80	09/16/2021	16797	JOB ADVERTISING
89	Seacoast Newspapers	08/31/2021	1.80	09/09/2021	16775	SERVICE CHARGE
			125.60			
STILES COMPANY, INC						
1,390	STILES COMPANY, INC	246140	73.47	09/30/2021	16835	STOCK
			73.47			
TIDEWATER ENGINEERING & S						
1,216	TIDEWATER ENGINEERING &	1722	5,000.00	09/23/2021	16817	ENGINEERING - MOULTON LANE MAIN REF
			5,000.00			
Time Warner Cable of Maine						
344	Time Warner Cable of Maine	6192836010830	144.98	09/09/2021	16776	INTERNET - ROOTS ROCK RD
344	Time Warner Cable of Maine	6654344010828	686.80	09/09/2021	16776	MONTHLY VOICE & DATA CHARGES
			831.78			
TMDE CALIBRATION LABS, INC						
1,484	TMDE CALIBRATION LABS, II	42005	180.00	09/09/2021	16777	LAB METER CALIBRATIONS
			180.00			
Treasurer State of Maine						
216	Treasurer State of Maine	09/30/2021	75.00	09/30/2021	16836	LICENSE FEE- J. CARNELL-KAPISE
			75.00			
UNIFIRST CORPORATION						
1,461	UNIFIRST CORPORATION	1040104545	25.26	09/09/2021	16778	UNIFORM SERVICE

DATE: 10/21/2021
TIME: 10:05:43AM

York Water District
INVOICE LIST
FOR CHECKS FROM 9/8/2021 TO 10/8/2021

PAGE: 6

Vendor #	Vendor Name	Invoice #	Amount	Check Date	CHK #	Description
1,461	UNIFIRST CORPORATION	1040104548	44.03	09/09/2021	16778	UNIFORM SERVICE
1,461	UNIFIRST CORPORATION	1040106795	25.26	09/16/2021	16799	UNIFORM SERVICE
1,461	UNIFIRST CORPORATION	1040106798	207.89	09/16/2021	16799	UNIFORM SERVICE
1,461	UNIFIRST CORPORATION	1040109581	25.26	09/23/2021	16818	UNIFORM SERVICE
1,461	UNIFIRST CORPORATION	1040109584	91.58	09/23/2021	16818	UNIFORM SERVICE
1,461	UNIFIRST CORPORATION	1040111862	25.26	09/30/2021	16837	UNIFORM SERVICE
1,461	UNIFIRST CORPORATION	1040111865	43.64	09/30/2021	16837	UNIFORM SERVICE
			488.18			
Utility Supply of America						
155	Utility Supply of America	729696	91.89	09/30/2021	16838	PLANT SUPPLIES
			91.89			
VERRILL						
128	VERRILL	585872	994.00	09/09/2021	16779	MISC LEGAL COUNCIL
128	VERRILL	586528	639.00	09/23/2021	16819	MISCELLANEOUS LEGAL COUNCIL
			1,633.00			
W.B.MASON, INC.						
532	W.B.MASON, INC.	222802276	15.96	09/09/2021	16780	OFFICE SUPPLIES
532	W.B.MASON, INC.	223044204	165.91	09/09/2021	16780	OFFCIE SUPPLIES
532	W.B.MASON, INC.	223047824	137.98	09/09/2021	16780	OFFICE SUPPLIES
532	W.B.MASON, INC.	223368800	47.06	09/30/2021	16839	OFFICE SUPPLIES
			366.91			
W.W. Grainger CO. Inc.						
65	W.W. Grainger CO. Inc.	9039303996	33.30	09/16/2021	16800	SAFETY SUPPLIES
65	W.W. Grainger CO. Inc.	9049309876	176.48	09/23/2021	16820	SHOP SUPPLIES
65	W.W. Grainger CO. Inc.	9053833167	129.17	09/30/2021	16840	MATERIALS - CAMP EATON
65	W.W. Grainger CO. Inc.	9053833175	84.51	09/30/2021	16840	PLANT SUPPLIES
65	W.W. Grainger CO. Inc.	9053937281	57.52	09/30/2021	16840	PLANT MAINT MATERIALS
			480.98			
WARREN'S OFFICE SUPPLIES						
1,391	WARREN'S OFFICE SUPPLIES	492477-01	25.99	09/16/2021	16801	OFFICE SUPPLIES
1,391	WARREN'S OFFICE SUPPLIES	495717-00	19.91	09/09/2021	16781	OFFCIE SUPPLIES
1,391	WARREN'S OFFICE SUPPLIES	496165-00	25.46	09/23/2021	16821	OFFICE SUPPLIES
			71.36			
WEX BANK						
1,415	WEX BANK	73740431	1,113.82	09/09/2021	16782	MONTHLY FLEET GAS
			1,113.82			
WHEELABRATOR HOLDCO 1 IN						
1,308	WHEELABRATOR HOLDCO 1	23-0000156689	174.00	09/16/2021	16798	DUMPSTER SERVICE
			174.00			
Wright-Pierce						
137	Wright-Pierce	214040	112.04	09/30/2021	16841	ENGINEERING - DAM
137	Wright-Pierce	215239	4,224.43	09/09/2021	16783	MASTER PLAN UPDATE

DATE: 10/21/2021
TIME: 10:05:43AM

York Water District
INVOICE LIST
FOR CHECKS FROM 9/8/2021 TO 10/8/2021

PAGE: 7

<u>Vendor #</u>	<u>Vendor Name</u>	<u>Invoice #</u>	<u>Amount</u>	<u>Check Date</u>	<u>CHK #</u>	<u>Description</u>
			4,336.47			
York Police Department						
114	York Police Department	3661	2,638.00	09/23/2021	16822	TRAFFIC CONTROL - NUBBLE RD
114	York Police Department	YWD 08092021	600.00	09/09/2021	16784	ANNUAL CODE RED SUBSCRIPTION
			3,238.00			
WARRANT TOTAL:						163,568

YORK WATER DISTRICT YORK WATER NEWS

Volume 24 Issue 10

MEETING DATE: 10/27/2021

YEAR	System Total^(MG)	KKW(+/-)Trans*	Pond Level-Feet (Assessment)	Precipitation (Assessment)
2021	53.8	0.88 to KKW	-0.20 (Very Wet)	4.4" (Normal)
2020	45.7	0.6 to/1.0 from KKW	-4.2 (Drought)	0.9" (Drought)
2019	39.9	NA	-2.7 (Normal)	0.4" (Drought)
2018	37.2	NA	-1.6 (High Normal)	6.4" (Very Wet)
* KKW Transfer = Amount (in MG) transferred at interconnection. ^ Total system Demand excluding KKW.				

GIS Report By Todd Hill

Staff from Wright-Pierce have been updating our hydraulic model and due to some of the newer main replacement projects we have installed since 2019, additional information was requested. Wright-Pierce needed location, start, stop and additional pipe information. All the requested information was put into GIS maps export to PDF and sent off to the Districts engineers to update the hydraulic model.

I also put together a map for Gary of Phragmite locations found in the watershed. Gary sent me GPS points he collected with his phone that mapped out locations of this invasive plant species. The locations were collected along the Red Mgmt Rd. Using ArcGIS I inserted all the points collected using a tool called Go To XY. This tool allows you to manually input GPS coordinates into a working map. After the points and identifying information was inserted, I sent the map to Gary.

New additions to the water system for September include a 6" fire service and 4" domestic at 298 York St, 2 new summer line water meters for 4 Summer Breeze and a 1 1/2" water service for 780 York St. I have also been taking pictures and linking them to water features for new features and existing ones.



2 new summer line water meters installed for 4 Summer Breeze



Nicole Rd summer line leak

There is a new mobile app called ArcGIS Field Maps that will be replacing Explorer for ArcGIS which is used as our primary mapping app that helps with utility locating, flushing, hydrant maintenance and hydrant winter checks. I will work with our staff that uses Explorer to get Field Maps loaded on to District issued cell phones. The new app user interface is nearly identical to Explorer which will make it easier to migrate to and the tools we use are also in the expected locations within the app. We also have a few maps that are hyperlinked to Survey123 which will not change with the new update.

Happy Anniversary

Don Neumann 10/15/1979 - 42 Years
Joe Bracy 10/13/2000 - 21 Years
Ryan Lynch 10/13/2004 - 17 Years

Happy Birthday

Patrick Desrosiers
10/11

Safety Report By Tom Chase

During September's T.A.S.C. meeting we discussed a couple of cases involving employees that contracted poison ivy rashes from working at the Chase's Pond dam. Work was being done to remove the rip rap to extinguish the poison ivy roots, which was mostly being conducted by the machines. The affected employees were utilizing PPE as well as pre & post contact poison ivy cleaners and had little to no contact with the plants themselves, but the presence of it alone was enough to give them a mild reaction. Because this is defined by OSHA as a "workplace injury" we have taken the steps to document the cases, and in this situation the work already performed should eliminate any exposure to others at this location for the foreseeable future.

We went over some figures from last years safety budget and worked to create a list of items that will be proposed for the 2022 safety budget. These items include PPE for all employees, safety training allowances, first aid supplies, Hi-visibility

Meter Report By Tom Chase

This month we read the Beach Routes and the Commercial books.

Seasonal shut downs have already begun for some, while others plan to stay longer than usual choosing to gamble with the weather. We've had a mix of several projects that we've been working on, including planning for the main replacements at Camp Eaton and Raynes Neck Rd, continued projects at the York Beach Surf Club, bacteria sampling at the old Mic-Mac Motel site. From a stock standpoint, it's been a struggle to keep on top of our inventory and plan ahead to make sure we have the materials we need for upcoming work. As with most things right now, product availability cannot be guaranteed and lead times are longer than ever with some items.

Towards the end of the month we began switching houses from the Nubble Rd Phase 2 project from temporary water over to the new water main. Everyone that we dealt with in the first section was more than pleased with our team's professionalism, cleanliness and good communi-

work clothing, replacement rain gear, life safety equipment inspections / replacements, etc. We determined that we currently have 81% of the staff that has successfully completed the FEMA Incident Command System (ICS) IS-100.c, IS-200.c and IS-700.b courses. The remainder should be done soon, but the nitrification issue in Cape Neddick diverted most of our resources away from any non-urgent matters.

We also wanted to recognize Larry Graham for his role in acquiring a \$3,000 grant from MMA's Safety Enhancement Grant program. The grant programs are designed to help prevent injuries and improve workplace safety for Maine employees. This money is going to be applied towards the purchase of a towable message sign board that could be used as a traffic control warning device (especially on Rt. 1) or to relay critical information to driver's for the duration of various projects. If approved in the 2022 budget.

Our next quarterly meeting will be held in December (date/time to be determined).

cation throughout the project.

We had quite a bit of bill collecting this month, some during the normal collection timeframe and others that were broken pay arrangements scattered in throughout the month. We reactivated the Ganem bleeder recently due to the nitrification issue at the tank and will leave it going until we reach a resolution on the matter.

We have been able to get started on some meter change outs with the help of the office scheduling the appointments, although we have not received any of the radio units yet, so we will have to hook up those at a later date. Luckily we already have wires to the touchpad readers outside now, so hooking up the radio units should be relatively easy once we get our hands on them.

We did not have any new meter installs this month but changed out 25 meters for existing accounts.

SEPTEMBER BILLING FOR YORK BEACH ROUTE

2021	USAGE(cf)	REVENUE	CUSTOMERS
RESIDENTIAL	3,989,500	\$282,229	1,823
COMMERCIAL	1,685,200	\$51,232	90
GOVERNMENT	39,500	\$2,112	8

2020	USAGE(cf)	REVENUE	CUSTOMERS
RESIDENTIAL	4,486,100	\$298,922	1,825
COMMERCIAL	1,269,300	\$43,111	89
GOVERNMENT	29,200	\$2,467	8

The Importance of Having a Strong Core

Your core affects most of your body movements. There are many benefits to strengthening your core muscles such as:

Balance and stability. Your core stabilizes your body, allowing you to move in any direction, even on the bumpiest terrain, or stand in one spot without losing your balance. Viewed this way, core exercises can lessen your risk of falling.

Good posture. Weak core muscles contribute to slouching. Good posture trims your silhouette and projects confidence. More importantly, it lessens wear and tear on the spine and allows you to breathe deeply. Good posture helps you gain full benefits from the effort you put into exercising, too.

Everyday acts. Bending to put on shoes or scoop up a package, turning to look behind you, sitting in a chair, or simply standing still are just a few of the many mundane actions that rely on your core and that you might not notice until they become difficult or painful.

On the job tasks. Jobs that involve lifting, twisting, and standing all rely on core muscles. But less obvious tasks like sitting at your desk for hours engage your core as well. Phone calls, typing, computer use, and similar work can make back muscles surprisingly stiff and sore, particularly if you're not strong enough to practice good posture and aren't taking sufficient breaks.

Distribution Report By Webster Ropke



80 Nubble Rd Relocate meter pit

We located water services and mains for 59 dig safes. The crew weed wacked hydrants and have been working on our hydrant maintenance program.

Mick construction completed the installation of 831' of 10" water main, including one new hydrant and 19 water services on Nubble Road for the Nubble Road Phase II project. The project went well Mick Construction completed the job in 13 working days. Our crew has completed installing all meters and picking up all temporary lines. We took the opportunity while in the homes to change out any Rockwell water meters to the newer iPerl meters. While taking the homes on Sixth Ave off of the temporaries we discovered that 7 Sixth Ave did not have any water. Everything indicated that the service was tapped off of the 8" main on Sixth Ave, but we discovered that it was not. It was tapped off of the old main on Nubble Road. The crew did a new tap and service for it off of the 8" main on Sixth Ave. Our crew also moved the concrete meter pit for 80 Nubble Road back behind the property owners fence. This was done because when the YDPW widens Nubble Road the pit would have ended up in the pave shoulder.

The crew did a new 1 1/2" tap and service for the York Beach Surf Club . We excavated for a

summer line road crossing on Summer Breeze. This was for two new summer line taps and services for 2A and 2B 4 Summer Breeze and they replaced an old sampling station on Nubble Road. Additional work included excavating and replacing the service box and rods for 10 Greenacre Drive, 208 Nubble Road, and 11 Fernald Ave. Excavated and repaired the blowoff on Ravine Avenue and the water service for 2 Ravine Avenue. The crew spent a lot of time flushing for water quality due to the issue with the Simpson Hill Tank. We worked with plant operators to install a pit in the lagoons for the freeze dry bed return water.



Setting up tap machine for 7 Sixth Avenue

Pratt construction removed the rip rap that was inundated with poison ivy from behind the right wall at Chases Pond dam. New filter fabric was laid down then a layer of new rip rap erosion stone was placed on top. We have had issues for years trying to get rid of or at least control the over growth of poison ivy at the dam. This was the best solution for getting rid of it.



Pit for the freeze dry bed return

Distribution Report Cont By Webster Ropke



Before rip rap was removed



After rip rap was removed



Roger Pratt replacing rip rap on the dam

Resource Protection Report By Gary Stevens



Photo above: Digger started to tear down the apartments and garage at 210 Mountain Road early in the month . It took nearly the entire month to finish removing the debris due to availability of the containers to be dumped and empty containers dropped off.

Civil Consultants worked on the survey of the property line between YWD and three land owners along the County Road trail and Red management road. We'd like to upgrade the county Road trail that is in very poor shape but need a good survey of the property line before we can plan on any upgrades. This trail is very important to us since we use the County Road trail to access the Red Management road from the Resource Protection office with the ATV's.

So far it appears the District owns one side of the trail to the centerline. With the three property owners owning the other side. The one exception is down at Gertrude Lane end of the Red Management Road where we have a right of way across one land owners property. In this location, for reasons unknown to us, the road was built outside of the ROW. We want to correct this now while we can. Possibly buying a small piece of property from the land owner and do a lot line adjustment to the centerline of the existing management road.

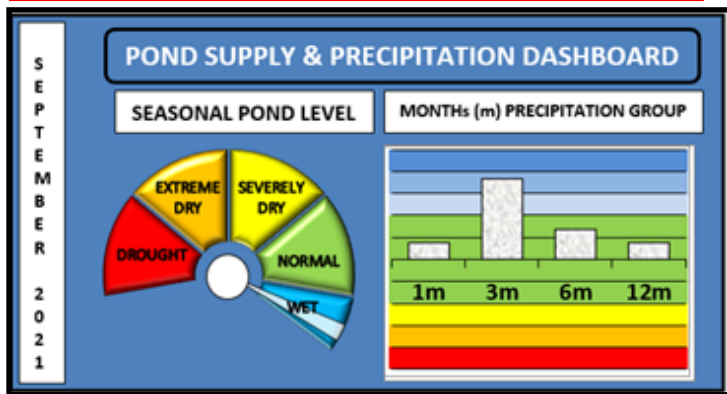
During a watershed tour, Trustee Karen Arsenault spotted the invasive plant Phragmites along side the Red Management Road. Since that sighting 7 sites have been located on this management road, the largest being at an old timber harvest landing. I've been talking with some local people knowledgeable in invasive plants and researching what I could. The short answer is there is nothing we can do to get rid of the Phragmites, just manage it. I also found that our forester is a State certified invasive plant management planner. He is writing us a plan but it will involve cutting the phragmites every week or two each growing season.

While we had Gammon Lawncare & Landscaping doing shoreline trimming and cutting back the brush on the management roads, we had him brush hog the landing (**seen in the photo below**) where I believe the Phragmites originated from. Josh Gammon had to thoroughly wash his machine down on site after cutting down the phragmites to ensure he didn't spread the plants further in the watershed.

On September 30th I was called in by YPD at 7:00 PM to find two lost people in the area of 2nd hill. The Massachusetts couple were very happy to have been located and brought out to the road where an officer returned them to their car.



Filtration Report By Ryan Lynch



In September we received 4.4 inches of rain which is characterized as high normal. We typically average 3.8 inches of rain. This continues our streak of above normal precipitation. All monthly groupings (1m, 3m, 6m, 12m) are above average with the last 3 months grouping way above average in very wet. The pond is only down three inches from full so its considered seasonally very wet for the month.

Operators completed modifications to the pond aeration system as recommended by the manufacturer to hopefully circumvent the issue we have been having with air distribution tubing blow outs due to heat fatigue. Operators modified the air distribution manifold to extend pipe and allow more heat dissipation before where the tubing connects. All 8 air lines were put back in service.

We have been keeping in close contact with our contractor who is working on the components we need to upgrade/update Whippoorwill Pump Station. We will be replacing all electronics, most internal piping, and upgrading to the newest technology to improve service this year. We will have a pre-construction meeting in October to finalize timing for upgrades in November.

We received recommendations and budget information from Knowles Construction for dam projects including addressing superficial/non-critical maintenance and to reinforce the 6 concrete piles under the spillway since the original pipe around them has degraded over the past 100 years.

The distribution crew and a local contractor started the project in the plant lagoon area to add a new redesigned freeze-dry bed pump station. The freeze-dry bed is where we collect solids generated in the treatment process which need to be

dewatered. The bed underdrain system dewateres the sludge solids which is then drained to a pump station to be returned to the treatment process. The current system was engineered poorly and has always been a constant maintenance problem. The new configuration is working very well.

During normal weekly water quality testing of the distribution system, treatment operators noticed lower than desired chlorine residual on the Cape Neddick side of the system near the KKW interconnection. This area normally experiences poor water quality at times of the year due to very low customer water demand so is included in our water quality improvement water transfer plan with KKW. As we do when this area experiences declining water quality, we asked KKW to increase the amount of water taken by them. After several days at a higher rate of flow, operators noticed that the chlorine level had not improved, was starting to fluctuate widely, and even drop lower than desired.

Operators believed that the water quality



Air Distributor Mods/Installing Pump Station

seen at the station could be indicative of the problem of Nitrification but this has never been experienced in our system before. Nitrification is the process whereby non-human pathogenic microbes strip the ammonia we add to form our chlorine residual known as Monochloramine and in the process can deplete the needed chlorine residual in the water resulting in unprotected water. If this process is left unaddressed, it can eventually result in significant water quality problems and potential failure with required standards.

With the help of management and operators, a plan was implemented to sample the direct area to assess the potential problem. The

Filtration Report (Cont'd) By Ryan Lynch

investigation quickly found only a trace of chlorine residual in nearby Simpson Hill Tank (SHT) but normal levels south of it. Additional testing yielded enough information to confirm that nitrification had occurred in the tank. Treatment operators immediately made proactive adjustments to plant water quality parameters to better combat the issue.

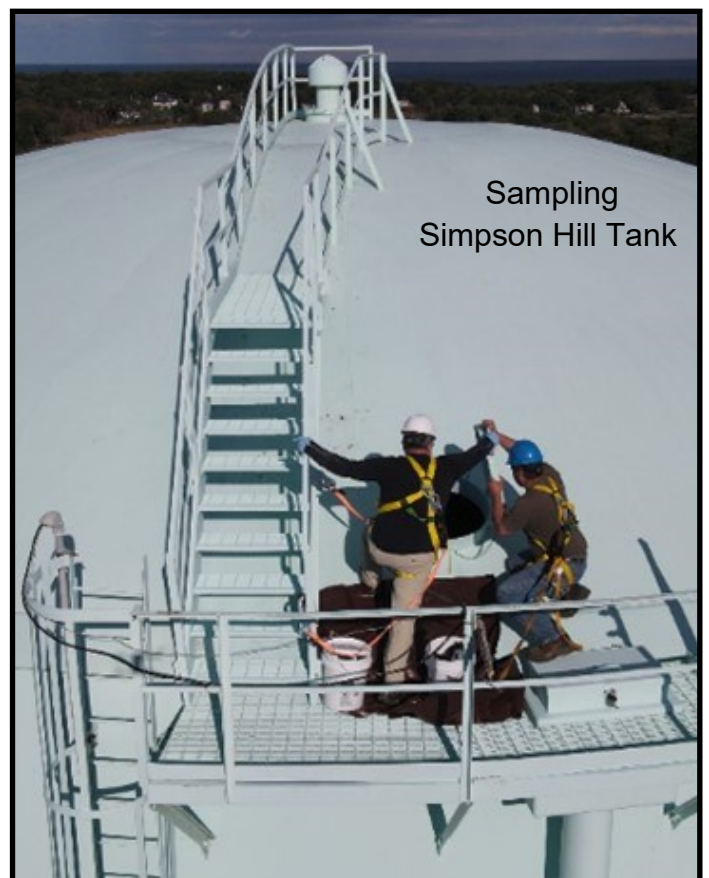
Operators worked quickly to isolate the affected system storage tank (SHT) and re-establish the appropriate chlorine residual throughout the impacted area. The tank was drained of 90% of water then refilled with fresh water in hopes to re-establish a proper chlorine level. This procedure was not entirely successful so all water was then removed, the bottom of the tank cleaned, and the entire tank was refilled and disinfected. Operators climbed the tank to collect multiple level water quality samples. Once the tank water quality was normal and stable, coliform results came back negative, and fresh water brought a good chlorine level, the state gave us approval and the tank was brought back on-line. Quality is being monitored and remains normal.

During the event, operators tracked down and contacted an expert in monochloramination, who happens to also be a professor at nearby UNH. We contacted Dr. Jim Malley and he was amenable to working with us. After we put together and sent him an event summary, he produced a scope of work, and then we met with Dr. Malley and hired him. During our meeting Dr. Malley had immediate understanding of the situation, agreed with our preliminary assessment and adjustments to water quality and procedures.

Dr. Malley and his group of graduate students are taking a close look at our situation and will be providing answers to our questions, what they believe might have caused the event, with recommendations which could include further modification of water quality and perhaps even looking at tank mixing. Since we have never experienced this problem and the residual in our system has always been strong, up until this event, we hope that with reversing some of the recent changes to water quality targets made and with additional monitoring more closely, that we can achieve past control without the need for extensive modifications at the tank. We have already provided Dr. Malley with extensive data and he

expects to meet with us soon. We have also sent and received approval from the State to make the initial adjustments made to our water quality permanent and reduce the amount of phosphate corrosion inhibitor we add which can promote this issue. All these small adjustments are believed to help get us back to ultimate control of this problem.

Operators also; spent a full day with Tom from EII and American Security fixing a few site alarm issues, continued to put together budget costs for 2022, produced the district monthly water quality report, submitted the state monthly report, and collected and submitted information to be used in the SMRWC chemical bid. We also ordered and received a number of treatment chemicals, and had to replace a filter level transducer. Also this month; Operators worked on equipment maintenance and performed calibrations, and submitted flushing and water quality reports. Operators performed routine monthly bacteria compliance and typical laboratory sampling and testing, submitted monthly reports, performed monthly site checks with regular generator runs with monthly and quarterly inspections and routine safety checks.



Simpson Hill Tank



