#### **Trustees**

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

## Posted April 12, 2023

LEGAL NOTICE -- The monthly meeting of the York Water District Board of Trustees will be held as a "hybrid meeting" remotely and in-person at 2:00 pm on Wednesday, April 19, 2023, as per the district's meeting policy. Members of the public that wish to participate remotely, please send a request to <a href="mailto:customerservice@yorkwaterdistrict.org">customerservice@yorkwaterdistrict.org</a> by 1:00 pm on the day of the meeting. Staff will provide an invite by email ten minutes prior to the meeting.

## **AGENDA**

- 1. The President will call the meeting to order.
- 2. See what action the Board will take after a review of the minutes of the Board Meeting held on March 15, 2023.
- 3. See what action the Board will take after a review of the minutes of the Special Board Meeting held on March 27, 2023.
- 4. See what action the Board will take after a review of the minutes of the Special Board Meeting held on April 3, 2023.
- 5. Invitation for Public Comment.
  - Because time is limited, 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 <a href="mailto:customerservice@yorkwaterdistrict.org">customerservice@yorkwaterdistrict.org</a>
- 6. The Financial Manager will present the Board of Trustees with monthly budgetary reports for review and discussion.
- 7. District engineer Dan Flaig of Wright Pierce will provide a brief summary regarding Water Supply Capacity summary, he will also discuss the recently completed water age study.
- 8. See what action the board will take on opening an investment account for the purpose of setting up a ladder of U.S. Treasury Notes.
- 9. Financial Manager will share a possible timeline related to a proposed rate increase.
- 10. Staff will discuss 3 grants that were applied for through the Maine Drinking Water Program.

- Source Water Protection Grant awarded \$20,000
  - o To upgrade a portion of the Silver trail
- Asset Security Grant awarded \$20,000
  - o To update our 2009 Watershed Management Plan
- Capacity Development Grant awarded 75% of project up to \$30,000
  - o To prepare a treatability review of the Josiah Chase Water Filtration Plant
- 11. See what action the Board will take on the latest version of the early retirement payout policy.
- 12. Ryan Lynch "Treatment Plant Manager" will provide details on a plan to repair the York Height Tank dome/roof paint with a full overcoat.
- 13. Staff will provide an update on District operations.
- 14. General Discussion
- 15. Adjourn.

Respectfully Submitted,

Donald D. Neumann, Jr.

Donall D. Neumany.

Superintendent

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#### 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 on Wednesday, March 15, 2023, as a "hybrid meeting" in person and through remote conferencing as allowed by the district's remote meeting policy.

President, Richard Leigh called the public meeting to order at 2:02 pm. Present were Clerk – Karen Arsenault, Trustee – Richard Boston, and Trustee – Stephen Rendall was remote. Staff present Superintendent – Donald Neumann, Financial Manager – Patrick Desrosiers, Treatment Plant Manager – Ryan Lynch, Financial Assistant – Shelley Kimball, High School Intern – James Jacobsohn. Treasurer – Russell Peterson was not in attendance.

# See what action the Board will take after a review of the minutes of the Board Meeting held on February 15, 2023

On a motion made by Trustee Arsenault and duly seconded by Trustee Rendall, it was voted unanimously to accept the Minutes of the February 15, 2023, Board Meeting. Vote 3 in favor / 1 abstaining Motion Passes.

**Public Comment:** 

Janet Drew

# The Financial Manager presented the Board with the Monthly and Year-to-date Budget Reports and Income Statement for February 2023 for review and discussion.

The Financial Manager presented the Board with the Income and Budget reports for February. The revenue for February 2023 is \$2,464 over projected. The O&M Budget for February 2023 is \$39,072 under projected. The YTD revenue for 2023 is \$2,499 over projected. YTD O&M Budget for 2023 is \$67,170 under projected.

During a recent Treasurer meeting Trustee Peterson asked Patrick to show a balance sheet. Patrick asked the Board for guidance as to the format they would like to see. He will add this report to the April financials and let the Board determine how often they would like to view this information.

## See if the Board will revisit a revised Early Retirement Payout Policy

Per the discussion, the Board asked for revisions to be made to the policy. Item was moved to the April meeting.

## Staff will provide an update on District Operations.

#### Ryan:

- Updated the Board on the water transfer to Kittery Water District (KWD). Over a 27-day period York Water District (YWD) transferred 4.2 mg of treated water. KWD will receive a invoice for the cost of water per the interconnection agreement.
- New EPA guidelines for PFAS regulations were proposed. They must go through a public comment phase. By year-end the regulations should be approved and in order.

Don:

- Due to Treasurer Russell Peterson not in attendance the potential purchase of treasuries discussion was moved to the April Meeting.
- Bid for Nubble Road Phase III came in higher than expected. Ledge pricing has escalated over the past year. This main replacement is scheduled to start September 6, 2023. Don will plan to add an agenda item to the April meeting asking to use the reserve to fund the overage.
- We are currently advertising to fill the open position of Treatment Plant Operator.
- Resource Protection Manager position has been filled. Zach Mein will attend to April meeting to be formally introduced to the Board.
- Had a preconstruction meeting for Moulton Lane and Lindsay Road. Crew will start getting homeowners on temporary water lines to be served during the project.
- Finish pump is now complete at the Treatment Plant. This took longer than expected due to parts and scheduling delays.

### Patrick:

• Updated the Board on the Bond application to fund two projects in 2023. He explained that due to the District purchasing materials for both projects more than 60 days prior to the application, the bonds cannot include the cost of the materials. Patrick will update the Board next month on the process. It will be hard to bond projects if they are not willing to accept material being purchased early due to the delay in some materials. Don and Patrick will strategize for a solution.

#### General Discussion:

Trustee Rendall inquired about the District's bank accounts held at Bangor Savings and the protection these accounts have. Patrick explained that operating, tower and system development funds are all held in what is considered a ICS account. ICS accounts allow us to deposit large amounts of money into Bangor Savings and then Bangor divides the funds into separate \$250,000 deposits (the standard FDIC maximum) and transfer these into ICS Network banks (who are all FDIC-insured).

The only account that needs monitoring is the Customer Advance Account and we keep the balance below the required FDIC amount of \$250,000.

President Leigh adjourned the meeting at 2:58

Respectfully Submitted,

Karen Arsenault Clerk York Water District

#### **Trustees**

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#### 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 held a Special meeting on Wednesday, March 27, 2023, at 3:00pm as a in person meeting @ 86 Woodbridge Road, York, Maine.

President, Richard Leigh called the public meeting to order at 2:59 pm. Present were Treasurer – Russell Peterson, Clerk – Karen Arsenault, Trustee – Richard Boston, and Trustee – Stephen Rendall. Staff present Superintendent – Donald Neumann, Financial Manager – Patrick Desrosiers, Financial Assistant – Shelley Kimball

Public Comment: N/A

See what action the Board may take regarding the adoption of a revised Resolution to issue bonds, which may be tax exempt, in the principal amount of up to \$550,000, to finance the completion of water main replacements on Moulton Lane and Lindsay Road and the purchase of a Kubota tractor .

This agenda item has been rescheduled to April 3, 2023, at 3:00pm due to last minute changes to the resolution. No action taken.

The Financial Manager will present the Board of Trustees with information regarding a proposed rate increase for review and discussion.

Patrick presented the Board with an overview of a 2023 rate model and went through different scenarios addressing staffing adjustments, O&M Budget, and block rate increases.

The Board thanked Patrick for his presentation and look forward to a final recommendation from staff at a future Trustee meeting. No action taken.

Meanwhile Patrick will prepare a proposed timetable to meet all of the required deadlines so new rates would be in place for January 1, 2024.

## General Discussion:

Don asked the Board if they would like Dan Flaig from Wright Pierce to attend the April Meeting to go over the water availability report as well at the water age study. The Board agreed to see if Dan could attend the April Meeting.

President Leigh adjourned the meeting at 4:25pm

Respectfully Submitted,

Karen Arsenault Clerk York Water District

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#### 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 held a Special meeting on Monday, April 3, at 3:00pm in person @ 86 Woodbridge Road, York, Maine.

President, Richard Leigh called the public meeting to order at 3:01 pm. Present were Treasurer – Russell Peterson, Clerk – Karen Arsenault, Trustee – Richard Boston. Staff present Superintendent – Donald Neumann, Financial Assistant – Shelley Kimball. Trustee - Stephen Rendall was not in attendance.

Public Comment: N/A

See if the Board will consider an amendment to the Board's February 15, 2023 resolutions authorizing the issuance of tax exempt obligations of the District, in order to authorize the issuance of a lower amount of tax exempt debt (in the principal amount of up to \$524,000), and to expand the purpose to include the providing of funds to finance, or to reimburse the District for funds previously expended on, some or all of the water main replacement projects at Lindsay Road, Moulton Lane, and Nubble Road phase III, including construction work, survey, legal, and engineering costs.

A motion was made by Trustee Peterson and duly seconded by Trustee Arsenault to amend the February 15, 2023, resolution. Motion Passes 4-0

General Discussion:

President Leigh adjourned the meeting at 3:14pm

Respectfully Submitted,

Karen Arsenault Clerk York Water District

**CHARTER COMMUNICATIONS** 

## York Water District INVOICE LIST FOR INVOICES FROM 3/9/2023 TO 4/10/2023

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Vendor #	<u>Vendor Name</u>	Invoice #	<u>Amount</u>	<u>Check Date</u>	<u>CHK #</u>	<u>Description</u>
	ommunications Services In	<u></u>				·
348	Advanced Communications So	6010738	437.50	03/23/2023	18336	SCADA UPGRADE MATERIALS
0.10		00.0700	437.50			
ALLISON SI	EDED					
			E 206 E6	02/20/2022	1270	DEP REF MAIN - 7 SPRING STREET
1,740	ALLISON SIEBER	3868	5,296.56	03/30/2023	1278	DEI REI PIAIN - 7 SI RING STREET
			5,296.56			
AMERICAN S	SECURITY ALARM					
598	AMERICAN SECURITY ALARM	152965	161.00	03/30/2023	18357	SERVICE CALL - PLANT
			161.00			
APPROVED I	FIRE PROTECTION CO					
	APPROVED FIRE PROTECTIO	IN00080634	321.26	04/05/2023	18380	GAS METER CALIBRATION
1,024	7 THO VED TIME THO TECTIO	11100000034	321.26	0 1/ 03/ 2023	10500	
			321.20			
CAREER MA	NAGEMENT ASSOCIATES					
1,742	CAREER MANAGEMENT ASSC	YWD-100	4,245.93	04/05/2023	18381	RETAINER FEE - EMPLOYMENT SEARCH
			4,245.93			
Central Mair	ne Power					
24	Central Maine Power	35010715726 00	20.57	03/23/2023	18338	POWER - LIGHT AT POND GATE
24	Central Maine Power	35011336322 00	149.03	03/23/2023	18338	POWER - RTE 1 NORTH PS
24	Central Maine Power	35012087900 00	179.93	03/23/2023	18338	POWER - SIMPSON HILL TANK
24	Central Maine Power	35012909699 00	21.27	03/23/2023	18338	POWER - RPO GARAGE
24	Central Maine Power	35012922080 00	106.50	03/23/2023	18338	POWER - WHITE PINE PS
24	Central Maine Power	35012966749 00	568.41	03/23/2023	18338	POWER - SCREEN HOUSE
24	Central Maine Power	35012969180 00	2,565.35	03/23/2023	18338	POWER - TREATMENT PLANT
24	Central Maine Power	35013404708 00	529.83	03/23/2023	18338	POWER - RTE 1 SOUTH PS
24	Central Maine Power	35015157361 00	294.13	03/23/2023	18338	POWER - WHIPPOORWILL PS
24	Central Maine Power	35015205897 00	153.71	03/23/2023	18338	POWER - RPO
24	Central Maine Power	35015396233 00	23.83	03/23/2023	18338	POWER - LIGHT BEHIND SHOP
24	Central Maine Power	35016940278 00	64.31	03/23/2023	18338	POWER - HEIGHTS TANK
	Central Maine Power	35016960912 00	197.86	03/23/2023	18338	POWER - HEAT TAPE
24	Central Maine Power	35017139011 00	462.13	03/23/2023	18338	POWER - OFFICE/SHOP
			5,336.86			
CHAMPAGNI	E'S ENERGY					
	CHAMPAGNE'S ENERGY	306610	42.44	03/23/2023	18339	23.8 GAL PROPANE - MT A.
047	CHAMPAGNE'S ENERGY		253.54	03/23/2023	18339	142.2 GAL PROPANE - RPO
0-17	CHAMPAGNE'S ENERGY	306611	283.85	03/23/2023	18339	159.2 GAL PROPANE - WHIPPOORWILL PS
047	CHAMPAGNE'S ENERGY	306873	366.76	03/23/2023	18339	205.7 GAL PROPANE - WHITE PINE PS
047	CHAMPAGNE'S ENERGY	306874	319.69	03/23/2023	18339	179.3 GAL PROPANE - SCREENHOUSE
017	CHAMPAGNE'S ENERGY	306875 311536	202.01	03/23/2023	18339	113.3 GAL PROPANE - OFFICE/SHOP
047	S. J. II MONE & ENERGY	311536	1,468.29	03, 23, 2023	10000	5 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
			1,700.23			
CHARLES BL						
1,638	CHARLES BLACK	03/29/2023	109.50	03/30/2023	18358	CELL PHONE STIPEND - C. BLACK
			109.50			

## York Water District INVOICE LIST FOR INVOICES FROM 3/9/2023 TO 4/10/2023

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Vendor # Vendor Name Amount Check Date <u>CHK #</u> Description Invoice # CHARTER COMMUNICATIONS 159.98 18359 **BROADBAND - TANK SITE** 03/30/2023 344 1406178010321 CHARTER COMMUNICATIONS 129.99 03/23/2023 18340 **BROADBAND - TANK CAMERA** 344 1422436010307 CHARTER COMMUNICATIONS 725.35 18340 **BROADBAND - MAIN SITES** 344 1425335010307 03/23/2023 1,015.32 **COMMUNICATIONS FACILITIES** COMMUNICATIONS FACILITI 250.00 18316 MONTHLY TOWER SITE INSPECTION 338 03/16/2023 1934 COMMUNICATIONS FACILITI 250.00 18360 MONTHLY TOWER SITE INSPECTION 03/30/2023 338 1947 500.00 CONSOLIDATED COMMUNICATIONS 194.65 18361 **BROADBAND - TOWER** CONSOLIDATED COMMUNICA 03/30/2023 75 117944052542 ( CONSOLIDATED COMMUNICA 156.74 18317 LAND LINES - PLANT 03/16/2023 75 2073636101536 351.39 **ELAN FINANCIAL SERVICES ELAN FINANCIAL SERVICES** 5,563.39 18337 MARCH CREDIT CARD ACTIVITY 03/23/2023 1,264 001618817 03/2 5,563.39 **Eldredge Lumber** PLANT SUPPLIES Eldredge Lumber 168.84 03/16/2023 18318 38 578506 71.07 18318 SHOP SUPPLIES Eldredge Lumber 03/16/2023 38 579096 18318 SHOP SUPPLIES Eldredge Lumber 348.46 03/16/2023 38 579800 -119.70 18318 RETURN ITEM Eldredge Lumber 03/16/2023 38 579849 117.65 18341 FILTRATION MAINT MATERIALS Eldredge Lumber 03/23/2023 38 580791 59.82 18341 MATERIALS FOR CONEX BOX 38 Eldredge Lumber 03/23/2023 581448 PLANT MAINT MATERIALS 87.58 03/30/2023 18362 Eldredge Lumber 38 582435 Eldredge Lumber 344.20 03/30/2023 18362 PLANT SUPPLIES 38 582772 SHOP SUPPLIES 20.38 18362 Eldredge Lumber 03/30/2023 38 582840 26.98 18362 SHOP SUPPLIES Eldredge Lumber 03/30/2023 38 582872 18382 SHOP SUPPLIES Eldredge Lumber 53.95 04/05/2023 38 582874 Eldredge Lumber 149.13 18362 MATERIALS FOR TURBIDIMETER 38 03/30/2023 583958 13.78 18362 PLANT MAINT MATERIALS Eldredge Lumber 03/30/2023 38 584081 32.96 03/30/2023 18362 SHOP SUPPLIES Eldredge Lumber 38 584156 1,375.10 **Eliot Small Engine Repair** Eliot Small Engine Repair 113.76 03/30/2023 18363 **RPO SUPPLIES** 23 037628 **RPO SUPPLIES** Eliot Small Engine Repair 29.99 03/30/2023 18363 23 037631 143.75 **ERIC BERG ERIC BERG** 5,296.56 1280 DEP REF MAIN - 12 SPRING STREET 03/30/2023 1,739 3868 5,296.56 **EVERETT'S AUTO** VEHICLE MAINT MATERIALS **EVERETT'S AUTO** 1,014.41 03/30/2023 18364 1,049 11522 1,014.41 **FASTENER WAREHOUSE** 60.00 METER CHANGE OUT MATERIALS 18365 **FASTENER WAREHOUSE** 1,384 03/30/2023 152141

## York Water District INVOICE LIST FOR INVOICES FROM 3/9/2023 TO 4/10/2023

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Vendor #	<u>Vendor Name</u>	Invoice #	<u>Amount</u>	<u>Check Date</u>	<u>CHK #</u>	Description
			60.00			
FIELDING'S	OIL & PROPANE CO., INC.					
988	FIELDING'S OIL & PROPANE	4363614	200.71	03/16/2023	18319	45.5 GAL DIESEL
988	FIELDING'S OIL & PROPANE	4371679	316.72	03/23/2023	18342	71.8 GAL DIESEL
988	FIELDING'S OIL & PROPANE	4376311	1,171.94	03/23/2023	18342	279.2 GAL HEATING OIL - OFFICE/SHOP
988	FIELDING'S OIL & PROPANE	4384416	139.83	03/30/2023	18366	31.7 GSL DIESEL
988	FIELDING'S OIL & PROPANE	4385308	4,560.58	04/05/2023	18383	1086.5 GAL HEATING OIL - PLANT
988	FIELDING'S OIL & PROPANE		11,907.05	04/05/2023	18383	2836.7 GAL HEATING OIL - PLANT
988	FIELDING'S OIL & PROPANE	4390658	169.38	03/30/2023	18366	38.4 GAL DIESEL
988	FIELDING'S OIL & PROPANE	4395226	91.31	04/05/2023	18383	20.7 GAL DIESEL
300		4030220	18,557.52	0 1, 00, _0_0		
FW WEBB C	COMPANY					
	FW WEBB COMPANY	7000000	5 300 15	02/16/2022	18320	METER ORDER
1,686		79600980	5,399.15 265.87	03/16/2023		STOCK ITEMS
1,686	FW WEBB COMPANY FW WEBB COMPANY	79960166	265.87 233.44	03/30/2023	18367 18367	STOCK ITEMS STOCK ITEMS
1,686	TW WEDD COMPAINT	79960166-2		03/30/2023	10307	STOCK ITEMS
			5,898.46			
GROUP DYN	NAMIC INC					
1,086	GROUP DYNAMIC INC	L2304-0160008	193.45	03/23/2023	18343	MONTHLY FSA & HRA ADMIN FEE
			193.45			
Hach Chem	ical					
66	Hach Chemical	13475592	311.22	03/16/2023	18321	LAB CONSUMABLES
66	Hach Chemical	13479984	7,652.00	03/16/2023	18321	TURBIDIMETERS (2)
66	Hach Chemical	13507145	3,735.20	03/30/2023	18368	LAB CONSUMABLES
66	Hach Chemical	13514830	197.30	03/30/2023	18368	LAB CONSUMABLES
			11,895.72			
HARCROS C	CHEMICALS,INC					
	HARCROS CHEMICALS,INC	200171720	2,980.80	03/30/2023	18369	8100 SODIUM CARBONATE
579	Three Coo Chernes, Inc.	300171730	2,980.80	03/30/2023	10303	0.00 00.00.00.00.00.00.00.00
	/		2,900.00			
	(EFIELD ARCHITECTURAL B	-	22.20	/ /	1276	DED DEF MED. 47 WOODSTONE DRIVE
1,667	JAMES WAKEFIELD ARCHITE	3860	23.30	03/23/2023	1276	DEP REF MTR - 17 WOODSTONE DRIVE
1,667	JAMES WAKEFIELD ARCHITE	3861	23.30	03/23/2023	1276	DEP REF MTR - 19 WOODSTONE DRIVE
1,667	JAMES WAKEFIELD ARCHITE	3865	19.11	03/30/2023	1279	DEP REF MTR - 3 TILDEN
1,667	JAMES WAKEFIELD ARCHITE	3866	19.11	03/30/2023	1279	DEP REF MTR - 5 TILDEN
			84.82			
KAREN HAL	E					
1,305	KAREN HALE	04/04/2023	11.00	04/05/2023	18384	MILEAGE REIMBURSEMENT - K. HALE
			11.00			
KEMIRA WA	ATER SOLUTIONS, INC.					
1,010	KEMIRA WATER SOLUTIONS,	9005465297	4,423.65	03/16/2023	18323	2249 LBS POLYMER
1,010		J000 <del>1</del> 0J2J/	4,423.65	23, 20, 2023		
KEY FORD			.,			
	KEN EUDD	2047	55.72	02/22/2022	18344	VEHICLE MAINT MATERIALS
124	KEY FORD	3947		03/23/2023		VEHICLE MAINT MATERIALS  VEHICLE MAINT MATERIALS
124	KEY FORD	50474	12.50	03/23/2023	18344	VEHICLE PIAINT MATERIALS

DATE: 4/11/2023

TIME: 9:27:30AM

## **York Water District** INVOICE LIST FOR INVOICES FROM 3/9/2023 TO 4/10/2023

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Vendor_#	<u>Vendor Name</u>	Invoice #	<u>Amount</u>	<u>Check Date</u>	CHK #	<u>Description</u>
			68.22			
KITTERY TR	ADING POST					
1,670	KITTERY TRADING POST	03/10/2023	352.73	03/16/2023	18324	2023 BOOT ALLOWANCE - J. BRACY
			352.73			
KONECRANE	S INC.					
740	KONECRANES INC.	154815306	253.62	03/30/2023	18370	SLINGS/STRAPS
			253.62			
KYOCERA						
1,202	KYOCERA	55L2322037	64.03	03/23/2023	18350	RENTAL FEE - OFFICE/SHOP PRINTERS
1,202		0012022007	64.03			
MAINE DEPA	ARTMENT OF HEALTH AND I	HUMAN SERV				
	MAINE DEPARTMENT OF HEA	10145071	300.00	03/16/2023	18322	DBP SAMPLES
00	MAINE DEPARTMENT OF HEA	10145071	300.00	03/16/2023	18322	DBP SAMPLES
03	MAINE DEPARTMENT OF HEA	10145072	300.00	03/16/2023	18322	DBP SAMPLES
00	MAINE DEPARTMENT OF HE	10145633	100.00	03/16/2023	18322	DBP SAMPLES
03	MAINE DEPARTMENT OF HE	IO145074	200.00	03/16/2023	18322	DBP SAMPLES
03		10143074	1,200.00	33, 13, 2323		
MAINE DEPA	ARTMENT OF LABOR		,			
	MAINE DEPARTMENT OF LAE	03/15/2023	455.32	03/23/2023	18345	UNEMPLOYMENT ASSESSMENT - J. HENSOI
1,002		03/13/2023	455.32	03/23/2023	100 10	
Maine Emple	oyers Mutual		<del></del>			
33	Maine Employers Mutual	1010002766 02/	341.50	03/16/2023	18325	WORKERS COMP INSURANCE ADJ
33	Tidile Employers Flacadi	1810083766 03/	341.50	05/10/2025	10323	
			341.50			
	cipal Emp Health Trust		26.062.20	02/22/2022	10246	APRIL HEALTH INSURANCE
85	Maine Municipal Emp Health	37496 APRIL 20		03/23/2023	18346	APRIL REALI R INSURANCE
			36,963.38			
	ELECOM, LLC					
1,729	MASTERS TELECOM, LLC	15397	35.14	03/23/2023	18347	SUBSCRIPTION - VOICEMAIL ACCT
			35.14			
MICHAEL MO	CDONOUGH					
1,737	MICHAEL MCDONOUGH	3868	5,296.56	03/30/2023	1281	DEP REF MAIN - 14 SPRING ST
			5,296.56			
NELSON ANA	ALYTICAL LLC					
NELSON ANA	ALYTICAL LLC  NELSON ANALYTICAL LLC	223010299	220.00	03/23/2023	183 <del>4</del> 8	SAMPLES - SPRING STREET MAIN
587		223010299	220.00 120.00	03/23/2023 03/23/2023		SAMPLES - SPRING STREET MAIN ROUTINE BACTERIA SAMPLES
587 587	NELSON ANALYTICAL LLC	223030121		03/23/2023	18348 18348 18371	
587 587	NELSON ANALYTICAL LLC NELSON ANALYTICAL LLC		120.00		18348	ROUTINE BACTERIA SAMPLES
587 587 587	NELSON ANALYTICAL LLC NELSON ANALYTICAL LLC NELSON ANALYTICAL LLC	223030121	120.00 105.00	03/23/2023	18348	ROUTINE BACTERIA SAMPLES
587 587 587 <b>O'REILLY AL</b>	NELSON ANALYTICAL LLC NELSON ANALYTICAL LLC	223030121	120.00 105.00	03/23/2023	18348	ROUTINE BACTERIA SAMPLES

**SHORELINE CONSTRUCTION, INC** 

## York Water District INVOICE LIST FOR INVOICES FROM 3/9/2023 TO 4/10/2023

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Vendor #	<u>Vendor Name</u>	Invoice #	<u>Amount</u>	<u>Check Date</u>	CHK #	<u>Description</u>
1,648	PACE ANALYTICAL SERVICES	23B1719-57	1,492.90	03/16/2023	18326	PFAS SAMPLES
1,648	PACE ANALYTICAL SERVICES	23C2451-57	560.80	04/05/2023	18385	PFAS SAMPLING
1,010			2,053.70			
PARSHLEY S	STEEL FABRICATORS INC					
82	PARSHLEY STEEL FABRICATO	1206	250.00	03/16/2023	18327	VEHICLE MAINT MATERIALS
			250.00			
PATTY CART	ΓER					
1,255	PATTY CARTER	04/04/2023	23.19	04/05/2023	18386	MILEAGE REIMBURSEMENT - P. CARTER
			23.19			
Pollard Com	pany					
84	Pollard Company	WW033926-1	18.00	03/16/2023	18328	SHOP SUPPLIES
84	Pollard Company	WW038289	1,476.00	03/16/2023	18328	DECHLOR TABS
			1,494.00			
Portland Pla	astic Pipe					
101	Portland Plastic Pipe	240217	339.75	03/30/2023	18372	PLANT MAINT MATERIALS
			339.75			
RICHARD D	EMARCO					
1,741	RICHARD DEMARCO	3868	5,296.56	03/30/2023	1282	DEP REF MAIN - 18 SPRING STREET
			5,296.56			
ROBBINS A	UTO PARTS					
931	ROBBINS AUTO PARTS	460-248797	263.24	03/23/2023	18351	VEHICLE MAINT MATERIALS
931	ROBBINS AUTO PARTS	460-249340	95.53	03/30/2023	18373	VEHICLE MAINT MATERIALS
931	ROBBINS AUTO PARTS	460-249426	37.56	04/05/2023	18387	VEHICLE MAINT MATERIALS
			396.33			
ROBERT LU	GG					
1,738	ROBERT LUGG	3868	5,296.56	03/30/2023	1283	DEP REF MAIN - 16 SPRING STREET
			5,296.56			
Roche Locks	smith Services					
231	Roche Locksmith Services	1249	565.40	04/05/2023	18388	PADLOCK MATERIALS & KEYS
			565.40			
RUNYON KE	RSTEEN OUELLETTE					
509	RUNYON KERSTEEN OUELLE	44445	10,000.00	03/23/2023	18352	PROGRESS BILL - 2022 AUDIT
			10,000.00			
SANEL NAP	4					
451	SANEL NAPA	378597	119.68	03/16/2023	18329	VEHICLE MAINT MATERIALS
451	SANEL NAPA	378899	18.83	03/16/2023	18329	VEHICLE MAINT MATERIALS
			138.51			
SHELLEY KI	MBALL					
706	SHELLEY KIMBALL	04/04/2023	97.49	04/05/2023	18389	MILEAGE REIMBURSEMENT - S. KIMBALL
		- ·· — · <b>- ·</b>	97.49			
	CONCEDUCATION INC					

W.W. Grainger CO. Inc.

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## York Water District INVOICE LIST FOR INVOICES FROM 3/9/2023 TO 4/10/2023

Vendor #	Vendor Name SHORELINE CONSTRUCTION	<u>Invoice #</u> 3862	<u>Amount</u> 35.81	<u>Check Date</u> 03/23/2023	<u>CHK #</u> 1277	<u>Description</u> DEP REF MTR - 9 SECOND AVENUE
303		3002	35.81	03/ 23/ 2023		
SOUTHERN	MAINE MODULAR INC					
1,735	SOUTHERN MAINE MODULAF	3864	32.24	03/30/2023	1284	DEP REF MTR - 2 DRIFTWOOD LANE
•			32.24			
STILES CON	IPANY, INC					
1,390	STILES COMPANY, INC	304234	273.88	03/30/2023	18374	PUMP STATION MAINT MATERIALS
			273.88			
THE UPS ST	ORE #1088					
193	THE UPS STORE #1088	02/28/2023	411.49	03/16/2023	18330	SHIPPING CHARGES
			411.49			
THE WEEKL	Y SENTINEL					
1,429	THE WEEKLY SENTINEL	70270	208.00	03/30/2023	18375	JOB ADVERTISING
			208.00			
TIDEWATER	R ENGINEERING & SURVEYI	ING				
1,216	TIDEWATER ENGINEERING 8	2007	6,396.75	03/30/2023	18376	ENGINEERING - NUBBLE III & IV
,			6,396.75			
TOWN OF Y	ORK					
951	TOWN OF YORK	03/28/2023	5,000.00	04/05/2023	18390	GIS LICENSE FEE
		00.00.000	5,000.00			
TYLER TECH	INOLOGIES,INC.					
330	TYLER TECHNOLOGIES,INC.	045-410243	13,311.12	03/16/2023	18331	QUARTERLY MUNIS SERVICES
000	·	040 410240	13,311.12	33, 23, 2323		
UNITED AG	& TURF		·			
1,730	UNITED AG & TURF	9846857	4,580.89	03/23/2023	18353	JOHN DEERE GATOR REPAIRS
1,700		0010007	4,580.89	, -, -		
VERIZON W	ITRFI FSS		,			
836	VERIZON WIRELESS	9930572002	1,622.12	04/05/2023	18391	CELL & TABLET BILL (PLUS NEW TABLET)
836	VERIZON WIRELESS	9930572003	607.40	04/05/2023	18391	MONTHLY ONE-TALK CHARGES
			2,229.52			
VERRILL						
128	VERRILL	617409	28.00	03/30/2023	18377	LEGAL - PROPERTY DISPUTE
128	VERRILL	617420	5,558.00	03/30/2023	18377	LEGAL COUNCIL - MISC
			5,586.00			
W.B.MASON	I, INC.					
532	W.B.MASON, INC.	236378588	203.09	03/16/2023	18332	OFFICE CONSUMABLES
532	W.B.MASON, INC.	236853877	25.88	03/23/2023	18354	OFFICE CONSUMABLES
532	W.B.MASON, INC.	236882844	124.99	03/23/2023	18354	OFFICE CONSUMABLES
532	W.B.MASON, INC.	237115137	109.39	03/30/2023	18378	OFFICE SUPPLIES
			463.35			

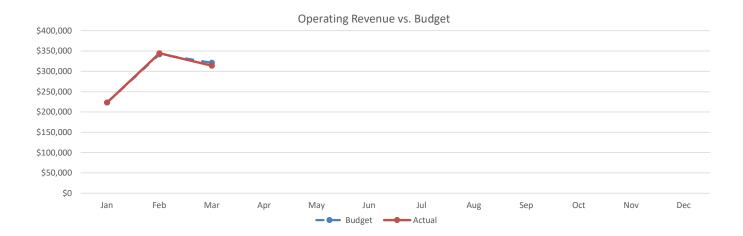
## York Water District INVOICE LIST FOR INVOICES FROM 3/9/2023 TO 4/10/2023

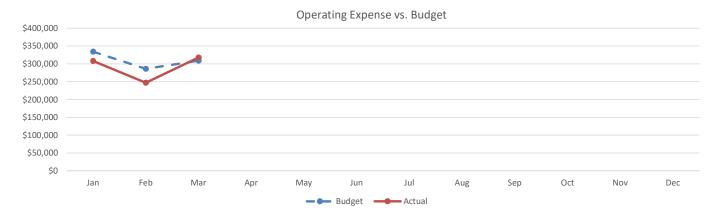
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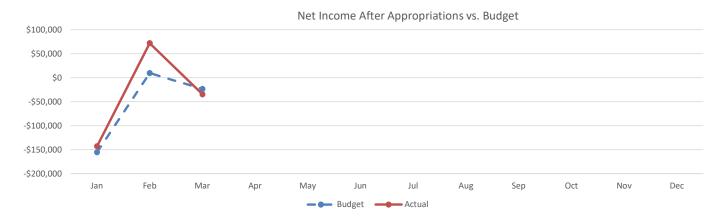
Vendor #	<u>Vendor Name</u>	Invoice #	<u>Amount</u>	Check Date	CHK #	<u>Description</u>
65	W.W. Grainger CO. Inc.	9616124013	20.50	03/16/2023	18333	SHOP SUPPLIES
65	W.W. Grainger CO. Inc.	9623851962	93.22	03/23/2023	18355	SHOP SUPPLIES
65	W.W. Grainger CO. Inc.	9631282291	220.23	03/23/2023	18355	PLANT SUPPLIES
65	W.W. Grainger CO. Inc.	9632604238	40.92	03/23/2023	18355	PLANT MAINT MATERIALS
65	W.W. Grainger CO. Inc.	9634451950	141.18	03/30/2023	18379	FINISH PUMP MATERIALS
65	W.W. Grainger CO. Inc.	9635264394	33.02	03/30/2023	18379	SHOP SUPPLIES
65	W.W. Grainger CO. Inc.	9648818350	23.66	04/05/2023	18392	SHOP SUPPLIES
65	W.W. Grainger CO. Inc.	9650837454	255.76	04/05/2023	18392	PLANT MATERIALS
			828.49			
WEX BANK						
1,415	WEX BANK	8766708	1,436.94	03/16/2023	18334	MONTHLY FLEET GAS CHARGES
1,415	WEX BANK	88269881	1,582.62	04/05/2023	18393	MONTHLY FLEET GAS CHARGES
, -			3,019.56			
WIN WAST	E INNOVATIONS OF NORTH	ERN NEW ENC				
1,666	WIN WASTE INNOVATIONS (	23-0000222287	328.56	03/23/2023	18356	DUMPSTER SERVICE
.,			328.56			
WIDELESS	TECHNOLOGY SOLUTIONS					
			122.00	0.4/05/2000	10204	MONTHLY VOICEMAN, FEE
1,654	WIRELESS TECHNOLOGY SO	2029813	122.88	04/05/2023	18394	MONTHLY VOICEMAIL FEE
			122.88			
Wright-Pie	rce					
137	Wright-Pierce	226635	2,111.00	03/16/2023	18335	WATER AGE STUDY
			2,111.00			

WARRANT TOTAL: **193,195.28** 

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







## **Bank Statement Balances**

As of April 10, 2023

<u>Account</u>	<u>Balance</u>	Account	<u>Balance</u>
Operating	\$2,468,993.96	Watershed	\$242,811.35
System Development	\$113,679.02	Customer Advance	\$144,605.66
Reserved for Tank Painting	\$ 1,013,001.00		
Operating Reserve	\$1,569,671.98	% of Recommended Reserve	129%

## York Water District Income Statement For the Month Ending March 31, 2023

Operating Revenue Operating Expense Net Income/(Loss)

▼ (\$7,199) ▲ \$8,652 ▼ (\$11,374)

	(, , -	- /		,		(, ,- ,	
		<u>Actual</u>	<u>Budget</u>	<u>Variance</u>	Total Budget	Variance vs. Tot. Budget	
Residential Metered Sales	\$ 1	80,777	\$ 189,000	\$ (8,223)	\$ 2,537,000	0%	
Commercial Metered Sales		24,410	26,000	(1,590)	506,000	0%	
Governmental Metered Sales		3,523	3,000	523	89,000	1%	
Public & Private Fire Protection	1	02,763	101,000	1,763	1,249,000	0%	
Other Operating Revenue		2,328	2,000	328	 18,000	2%	
Total Operating Revenue	3	13,801	321,000	(7,199)	4,399,000	0%	
Salaries & Wages	1	36,999	128,000	8,999	1,751,000	1%	
Employee Benefits		64,511	66,000	(1,489)	771,000	0%	
Purchased Power & Water		5,336	6,000	(664)	82,000	-1%	
Chemicals		7,405	9,000	(1,595)	108,000	-1%	Timing of heating oil purchases.
Materials & Supplies		42,668	31,000	11,668	309,000	4%	1
Contracted Services		47,547	62,000	(14,453)	472,000	-3%	No longer completing rate sensitivity study.
Transportation Expense		8,852	4,000	4,852	52,000	9%	
Insurance		342	-	342	50,000	1%	
Other Miscellaneous Expenses		3,992	3,000	992	 98,000	1%	
Total Operating Expense	3	17,652	309,000	8,652	3,693,000	0%	
Depreciation & Amortization Expense		70,615	71,000	(385)	804,000	0%	
Net Non-Operating Income		37,955	34,000	3,955	487,000	1%	
Debt Service		8,197	8,000	197	495,000	0%	
Tank Painting Contribution		9,666	10,000	(334)	116,000	0%	
Depreciation Funds Allocated to O&M	(	(19,500)	(19,500)	-	(234,000)	0%	
Net Income After Appropriations	\$	(34,874)	\$ (23,500)	\$ (11,374)	\$ 12,000		

## York Water District Income Statement For the Three Months Ending March 31, 2023

	Operati	ng Revenue	Operating Expense		N	et Income/(Loss)		
	<b>(</b> \$4	4,700)	<b>~</b> (\$!	59,518)			\$65,500	
		<u>Actual</u>	Budget	<u>Variance</u>		Total Budget	Variance vs. Tot. Budget	
Residential Metered Sales Commercial Metered Sales Governmental Metered Sales Public & Private Fire Protection Other Operating Revenue	\$	458,640 \$ 85,818 18,730 314,053 4,059	468,000 \$ 86,000 18,000 310,000 4,000	(9,360) (182) 730 4,053 59	\$	2,537,000 506,000 89,000 1,249,000 18,000	0% 0% 1% 0% 0%	
Total Operating Revenue		881,300	886,000	(4,700)		4,399,000	0%	Two positions currently open. One position is posted, while the other is being deferred until June.
Salaries & Wages Employee Benefits Purchased Power & Water Chemicals		388,212 189,831 15,267 7,405	403,000 203,000 18,000 27,000	(14,788) (13,169) (2,733) (19,595)		1,751,000 771,000 82,000 108,000	-1% -2% -3% -18%	Timing of chemical purchases. Open purchase order for \$4,500.
Materials & Supplies Contracted Services		107,398 105,780	99,000 125,000	8,398 (19,220)		309,000 472,000	3% -4%	No longer completing rate sensitivity study.
Transportation Expense Insurance Other Miscellaneous Expenses		14,942 25,947 17,700	13,000 26,000 18,000	1,942 (53) (300)		52,000 50,000 98,000	4% 0% 0%	
Total Operating Expense		872,482	932,000	(59,518)		3,693,000	-2%	
Depreciation & Amortization Expense		211,845	212,000	(155)		804,000	0%	
Net Non-Operating Income		92,116	82,000	10,116		487,000	2%	
Debt Service		24,591	25,000	(409)		495,000	0%	
Tank Painting Contribution		28,998	29,000	(2)		116,000	0%	
Depreciation Funds Allocated to O&M		(58,500)	(58,500)	-		(234,000)	0%	
Net Income After Appropriations	\$	(106,000) \$	(171,500) \$	65,500	\$	12,000		

## York Water District Balance Sheet

As of March 31, 2023

	03/31/2023	12/31/2022	03/31/2022	vs SOY	vs 12mo
Capital Assets	46,217,214	46,100,311	45,063,783	116,903	1,153,431
Less: Accumulated Depreciation	21,974,091	21,728,291	21,156,570	245,800	817,521
Total Net Capital Assets	24,243,123	24,372,020	23,907,213	-128,897	335,910
Cash	2,843,018	2,998,265	2,881,889	-155,247	-38,871
Accounts Receivable	528,812	612,378	502,499	-83,566	26,313
Inventory	518,606	537,441	299,229	-18,835	219,377
Prepayments	36,963	45,105	60,318	-8,142	-23,355
Total Current and Accrued Assets	3,927,399	4,193,189	3,743,935	-265,790	183,464
Deferred Debits	1,311,206	1,322,053	1,360,246	-10,847	-49,040
TOTAL ASSETS AND OTHER DEBITS	29,481,728	29,887,262	29,011,394	-405,534	470,334
Long-Term Debt	2,909,231	2,909,231	3,284,202	0	-374,971
Accounts Payable	56,673	232,466	61,137	-175,793	-4,464
Accrued Taxes	1,343	1,821	1,446	-478	-103
Accrued Interest	-3,828	16,393	-734	-20,221	-3,094
Miscellaneous Current and Accrued Liabilities	922,161	966,277	928,062	-44,116	-5,901
Total Current and Accrued Liabilities	976,349	1,216,957	989,911	-240,608	-13,562
Advances for Construction	148,893	276,855	64,967	-127,962	83,926
Other Deferred Credits	1,009,021	1,009,021	994,021	0	15,000
Total Deferred Credits	1,157,914	1,285,876	1,058,988	-127,962	98,926
Contributed Funds	1,264,192	1,254,687	1,213,397	9,505	50,795
Contributions In Aid Of Construction (C.I.A.C.)	10,428,580	10,284,914	9,973,459	143,666	455,121
Less: Accumulated Depreciation of C.I.A.C	3,318,944	3,274,144	3,138,413	44,800	180,531
Total Net C.I.A.C	7,109,636	7,010,770	6,835,046	98,866	274,590
Appropriated Retained Earnings	14,596,894	14,596,894	14,211,423	0	385,471
Unappropriated Retained Earnings	1,467,512	1,612,847	1,418,427	-145,335	49,085
Total Equity Capital	16,064,406	16,209,741	15,629,850	-145,335	434,556
TOTAL LIABILITIES AND EQUITY	29,481,728	29,887,262	29,011,394	-405,534	470,334



Date: 2/15/2023

Project No.: 20988A

To: Don Neumann, Superintendent

From: Daniel J Flaig, PE

Subject: York Water District – Water Supply Capacity Summary

During the past 3 years, the York Water District (YWD) has invested in various studies to evaluate and update future water demand and the safe yield of Chases Pond. In addition, the YWD utilized information from these studies to contribute to the Town of York's comprehensive plan update completed in 2021.

The purpose of this memorandum is to provide a summary of system capacity constraints and outline possible strategies to manage the finite water supply resources available to the YWD with future growth in water demand through addition of new customers over time. It is appropriate for system growth to be managed sustainably through an understanding of limiting factors such as water supply quantity, treatment capacity, and management of revenue to sustainably operate the District and allow continued capital investment in system upgrades.

## Safe Yield & Water Use Projection

A bathymetric survey and safe yield model were completed in 2022 as updates to prior studies completed in 1994 and 2007. The safe yield model produced a range of capacity based on simulated droughts of record and time periods of more average annual precipitation conditions. In general, the northeast has experienced more frequent occurrences of drought conditions over the past 10 years, which reduces the available water supply quantity. The summer months create higher demand on the available storage in Chases Pond through a combination of higher seasonal demand driven by transient and seasonal water customer addition and reduced rainfall recharge. The safe yield of Chases Pond is the daily average water withdrawal (over 365 days) which has an estimated range from about 2.02 mgd (drought year) to about 3.05 mgd (average precipitation year). The range of safe yield is based on the available storage above the existing intake elevation to the top of the dam flash boards (approximately 10 feet of water depth above the intake equates to about 487 million gallons). Climate change is an important future risk factor affecting the annual recharge for groundwater and surface water supply sources.

The water use projections from the 2020 master plan update are summarized in the following table.

Table 1 Projected Demand Summary York Water District

Year	Average-Day Demand (MGD)	Maximum-Day Demand (MGD)
2020	1.071*	2.624
2028	1.102	2.700
2038	1.172	2.871

<sup>\*2020</sup> data represents actual observed data.

Average daily water demand is expected to grow moderately over time. The 2020 average water demand was approximately 53% of the drought safe yield and about 35% of the average precipitation safe yield scenario. The average daily demand in the year 2038 is projected at about 1.172 mgd (average over 365 days). This amounts to about 58% of the drought year safe yield and about 38% of the average precipitation year safe yield scenario

The water system has an above average ratio between maximum day demand and average day demand during the summer months. The projected maximum day demand in the year 2038 is 2.871 mgd. The maximum day demand is driven by a seasonal increase in water use through tourism and seasonal residential and commercial water use in addition to year-round customer water use.

The water supply quantity and treatment capacity are limiting system constraints during a drought year when maximum day demands trend over many days during the summer months. The YWD has recognized these constraints in past operations and have implemented operational strategies such as the use of emergency interconnections.

The YWD continues to maintain below industry average non-revenue water and unaccounted for water use (losses). YWD invests in annual pipe replacements to renew aging cast iron water mains to improve hydraulic capacity, public fire protection, and minimize annual water losses through leaks and breaks. The average residential water use per service connection is about 123 gal/day and the average commercial water use per service connection is approximately 800 gal/day.

## **Management Strategies**

The YWD should continue to be mindful of water supply and treatment capacity constraints with future capital planning and operational management (financial and technical). Southern Maine has experienced the effects of climate change with mild winters and increased frequency of drought periods impacting local and regional water supply recharge. The Town of York adopted a Climate Action Plan in February 2022, which lays out a road map for the town to prepare and adapt to climate change. The YWD should be proactive with public awareness with respect to potential climate change impact on York's water supply and more broadly with neighboring water utilities with similar concerns.

Once the average annual day demand approaches 75% of the drought safe yield, or the maximum day demand increase above 3 mgd frequently during the summer months, mitigation policies to curtail water use may be necessary to maintain sustainable operations. The YWD should continue to be proactive in planning and implementing future strategies to manage the water supply. Below is a summary of recommended strategies or future planning initiations:

## **Utility Interconnections**

- 1. Increased use of neighboring utility emergency interconnections during the summer months.
  - a. KKW has supply limitation and water can be purchased through interconnections with Maine Water Company to supply water to KKW and YWD.
- 2. Water chemistry incompatibility is a current limitation to purchasing water from Kittery Water District. Provisions to allow for chloramination of water pumped from Kittery to York through the Old Beech Ridge Road Pump Station will address this issue. Chemical feed systems for ammonia and chlorine boosting for chloramination are planned to be incorporated into the Old Beech Ridge Road Pump Station.

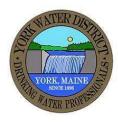


3. Kittery Water District Folly Pond siphon – Water transfer from Folly Pond to Chases Pond via a siphon pipe can be utilized during droughts to provide recharge to Chases Pond. Typically, Folly Pond is used by Kittery Water District in the Fall to recharge Middle Pond, which may allow some operational flexibility to transfer some water via the siphon to Chases Pond if needed for emergencies.

## Policy & Planning Implementation

- 1. Work with Town of York to complete a buildout analysis of existing undeveloped parcels and potential redevelopment within the targeted growth area of the future land use map in the comprehensive plan update. Most of this area of town is currently served by public water and or sewer.
- 2. Extension of public water mains is funded by private developers. Limiting water main extensions to the rural areas is an important strategy for sustainable growth of the public water system.
- 3. In general, the YWD has about 343,000 gallons/day on an annual average above the projected 2038 average day demand of 1.172 MGD to increase to 75% of the drought year safe yield. This is equivalent to about 1,900 additional residential service connections using a conservative daily water use of 180 gpd/service connection. The system has the capacity to support sustainable growth of residential and commercial water users for the foreseeable future on a water supply basis. Water demand trends should be monitored annually and compared to projections. Water demand trends should be expected to vary annually based on the economic market for development projects and population increases within the existing water service area.
- 4. This addition of demand would generally project to a maximum day demand of about 3.7 MGD, which is the current treatment plant capacity. The District should plan for treatment capacity expansion and/or increased summer-early fall seasonal use of interconnections with KKW and Kittery Water District.
- 5. Policies to encourage water conservation through management of irrigation water use during the dry summer months.
- 6. Complete a treatability study to assess the performance of the existing treatment facility with water quality trends observed in Chases Pond. Additional filter/clarifier capacity should be considered in future updates to plan for increases in maximum day demand with one filter train out of service.
- 7. A future planning study to review the feasibility and cost to raise the pond level with a new dam is recommended.





YORK, MAINE

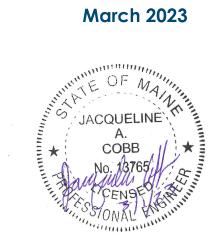
**MARCH 2023** 

**Water Age Study** 



## **Water Age Study** York, Maine

## **March 2023**



Jacqueline Cobb, PE Maine 13765

Date: 3/1/2023

## **Prepared By:**

## Wright-Pierce

11 Bowdoin Mill Island, Suite 140 Topsham, ME 04086 207.725.8721 | wright-pierce.com

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## Introduction

In 2021 the area surrounding the Simpson Hill Tank experienced a nitrification event. Prior studies have shown that the average water age in Simpson Hill tank is on the order of 2-3 times higher than the York Heights tank. The goal of this study is to evaluate possible operational changes including managing the timing and flow of water supplied to and from KKW to minimize water age impacts to York's system. As with prior studies, the district's hydraulic model will be used.

## **Existing Conditions**

## 1.1 2007 IDSE

The model has been used in the past for water age analysis when Wright-Pierce assisted the District in 2007 with the development of the Initial Distribution System Evaluation (IDSE) to determination of Stage II disinfection byproduct monitoring locations. Water age in the tanks, however water age in the distribution system was reported to be 0-18 days. The following baseline assumptions were made as part of the 2007 IDSE;

- Demand
  - o Peak TTHM month (August) demands with regional increases for high transient population areas
  - Total system demand based on water production records
    - 1.7 MGD
  - Diurnal Curve based on mass balance of calibration data
  - No high water users
- 2007 infrastructure
  - Two residential developments supplied by booster stations
- 2001-2002 calibration
- Average treatment plant flow rate of 2500 gpm
  - On when Simpson Hill Level ≤ 179 ft
  - o Off when Simpson Hill Level ≥ 189 ft
- No water transfers to or from Kennebunk Kennebunkport Wells Water District (KKW-WD)

## 1.2 2021 Operations and System Assumptions

- Demand
  - Total system demand based on water production records
    - Max 3.14 MGD
    - Average Summer Day 2.1 MGD
    - Min 0.335 MGD
  - Reallocated demand
  - o 2007 Diurnal Curve based on mass balance of calibration data
  - 2 minor high water users
- 2023 infrastructure
  - Two residential developments supplied by booster stations
  - Assumed Route 1 water main project would be completed
- 2021 calibration
- Average treatment plant flow rate of 2500 gpm
  - Average Summer Day



- On when Simpson Hill Level ≤ 178.5 ft
- Off when Simpson Hill Level ≥ 188.5 ft
- Water transfers as summarized below

## 1.2.1 Water Transfers

The York Water District operates an interconnection with the Kennebunk Kennebunkport Wells Water District (KKW-WD). Water can be pumped in either direction. The districts aim for a net zero transfer between the two districts with YWD mainly receiving water November to March and sending water May to October. The maintenance flow rate between the two districts is approximately 50 gpm, however in an emergency the pump station can pump 1,100 gpm to York. To model potential pump station build-out, the pump station was modeled with a flow of up to 2,080 gpm. Below is a summary of water transfers between the Districts. Appendix A includes daily data on water transfers from June to September for 2020-2022.

- 2020 Transfers
  - June Monthly average 43,000 gpd to KKW
    - Pumped all days
  - July Monthly average 46,000 gpd to KKW
    - Pumped all days
  - August
    - 18 days pumping to KKW
      - 50,000 gpd to KKW
    - 15 days receiving water from KKW
      - 229,000 gpd from KKW
    - 29,000 gpd to KKW
  - September
    - 11 days pumping to KKW
      - o 58,000 gpd
    - 15 days no pumping
    - 4 days receiving water from KKW
      - o 19,000-302,000 gpd
      - o 194,000 gpd
    - Monthly Average 13,000 gpd to KKW
- 2021 Transfers
  - o June Monthly average 63,000 gpd to KKW
    - Pumped all days
  - July Monthly average 65,000 gpd to KKW
    - Pumped all days
  - August average 63,000 gpd to KKW disregarding outliers
    - 3 high flow days 400,000-900,000 gpd
    - Pumped all days
    - Monthly average 114,000 gpd
  - September average 55,000 gpd to KKW
    - 16 days
    - Monthly average 29,200 gpd



- 2021 Transfers
  - June 53,000 gpd average to KKW
    - Pumped 4 days
    - Monthly average 42,00 gpd
  - July 65,000 gpd average to KKW
    - Pumped all days
  - August average 84,000 gpd average disregarding outliers
    - Pumped 28 days
    - 3 high flow days 200,000 400,000 gpd
    - Monthly average 76,000 gpd
  - September average 61,000 gpd to KKW
    - Pumped all days

## Water Age Modeling

Nitrification is the biological oxidation of ammonia to nitrite which is followed by the oxidation of nitrite into nitrate. Nitrification can occur in water systems that contain chloramines. Temperature and water age are the two largest factors for nitrification. The hydraulic model was used to estimate the water age in the tanks under a variety of conditions. There is no "Magic number" for maximum water age, however younger is always better. Generally, 14 days is considered satisfactory, while 7 days is considered ideal.

## 2.1 Baseline Conditions

#### **2.1.1** Demand

Average summer day was calculated based on 2021 June-September treatment plant production records. 2021 Maximum and Minimum day demand was taken from yearly production data provided by the York Water District. The modeled demand data is included in Table 4-1

## 2.1.2 Tank Mixing

Neither the Simpson Hill tank nor the York Heights tank contain tank mixers, however, tank stratification testing in September 2022 showed consistent results for both temperature and chlorine. Therefore, both tanks were assumed to be completely mixed for water age modeling. Tank mixing is important to water age because if "first-in first-out" flow occurs in the tank, the water in the tank will stagnate and high-water age occurs.

### 2.1.3 Controls

Summer controls supplied by the District were used for all scenarios. These controls included;

- Treatment Plant ON York Heights Tank (YHT) 53.5 ft (178.5 ft)
- Treatment Plant OFF York Heights Tank (YHT) 63.5 ft (188.5 ft)
- Route 1 North Pump Station ON

Comparison modeling was completed with York Heights Tank vs Simpson Tank controlling the treatment plant. Modeling showed a negligible difference between the two.



## 2.1.4 Water Main Infrastructure

Currently, the 16" water main on Route 1 is not looped. A gap remains approximately between Meadowlark Drive and Animal Park Road. A proposed water main project includes the installation of 16" water main along this section, as well as replacement of the 12" water main extending to Cape Neddick River. Past modeling has recommended closing this gap to improve tank tracking and water age. Table 1 shows the water age during average day conditions, both before and after this system improvement.

Table 1 Water Main Infrastructure Water Age

Infrastructure Scenario	Simpson Hill Tank Controls		York Heights Tank
		Water Age (days)	Water Age (days)
Existing 2021 Conditions Average Day Demand (2.11 MGD)	Average Summer Day Controls	15.5	5
Proposed Conditions Average Day Demand (2.11 MGD)	Average Summer Day Controls	11.5	6

<sup>&</sup>quot;Proposed conditions" were used as the water age baseline and were assumed to include 2021 water mains and the completion of the proposed 16-inch water main on Route 1.

Table 2 Proposed Conditions Water Age

Demand Scenario	Controls	Simpson Hill Tank	York Heights Tank
		Water Age (days)	Water Age (days)
Proposed Conditions Average Day Demand (2.11 MGD)	Average Summer Day Controls	11.5	6
Proposed Conditions Max Day Demand (3.14 MGD)	Average Summer Day Controls	13	6.5
Proposed Conditions Min Day Demand (0.335 MGD)	Average Summer Day Controls	60	29

The results suggest the system is well adjusted for average summer day conditions. It is unique for maximum day demand to cause longer water age. Further investigation into system flow under maximum day conditions, showed



during maximum day demand the treatment plant is nearly continuously on. Water from the treatment plant serves the demand rather than the tanks causing less flow in and out of the tanks. As expected, minimum day demands create the highest water age. Minimum day demands are more likely to occur in the winter when nitrification is less likely to occur. Water Age during minimum day demand can also be decreased by sending water to KKW.

## 2.2 Operational Adjustments

The hydraulic model was used to evaluate alternative operating conditions, such as the controlling tank level setpoints and flow adjustments. The alternatives involving only operational adjustments and the results are presented in table 4-2. All the alternatives were modeled using max day demand conditions.

Table 3 Water Age with Operational Adjustments

Operational Alternative	Controls	Simpson Hill Tank	York Heights Tank	Comments
		Water Age (days)	Water Age (days)	
Alternative A: Lower YHT Start 1 Foot	Treatment Plant ON – YHT 52.5 ft (177.5 ft) Treatment Plant OFF – 63.5 ft (188.5 ft)	13	6.5	Negligible effect
Alternative B: Lower YHT Stop Level 3.5 Feet	Treatment Plant ON -YHT 52.5 ft (177.5 ft) Treatment Plant OFF – YHT 60 ft (185 ft)	15	7	Lowers pressure ~1 psi Lowers fire flow 0-100 gpm
Alternative C: Vary TP Flow Based on YHT Level	Treatment plant ON – YHT 53.5 (178.5 ft) @ 2600 gpm  Treatment plant ON – YHT 60 ft (185 ft) @2400 gpm  Treatment plant OFF- YHT 63.5 ft (188.5 ft)	13	6.5	No improvement
Alternative D: Employ Bleeders near CNR/SHT	100 gpm bleeder at Tank transmission main intersection with Cape Neddick Road	12.5	6.5	Lost revenue water

## 2.3 System Improvements

Alternatives involving system improvements were also identified. The alternatives involving infrastructure improvements and the results are presented in table 4-3. All the alternatives were modeled using max day demand conditions.



Table 4 Water Age with Operational Adjustments

Operational Alternative	Controls	Simpson Hill Tank	York Heights Tank	Comments
		Water Age (days)	Water Age (days)	
Alternative E: Increase AVG TP Flow 100 GPM	Treatment plant flow @2600 gpm	10	5	Requires improvements at the treatment plant to sustain higher flow rate
Alternative F: Increase AVG TP Flow 300 gpm	Treatment plant flow @2800 gpm	10.5	5.5	Requires improvements at the treatment plant to sustain higher flow rate
Alternative G: SHT Pumped Storage	Simpson Hill pumped storage drain Pump drain @500-900 gpm ON if Demand>500gpm	12	6	Requires pump station construction
Alternative H:SHT Elevated Storage Tank	Replace Simpson Hill Tank with 500,000 Elevated Storage  60' diameter 24' water depth Max elevation 190'	2	6.5	Requires tank construction

## 2.4 Kennebunk Kennebunkport Wells Interconnection

A 14-day water age was assumed for the KKK-WD interconnection. Existing summer day controls and max day demand were used for all scenarios. A pressure sustaining valve was modeled at the YWD Route 1 pump station to maintain pressure in the Route 1 high zone when flows exceeded the high zone demand.



Table 5 Water Age with Water Transfers

Flow from KKW-WD	Simpson Hill Tank	York Heights Tank
(gpm)	Water Age (days)	Water Age (days)
50	14	6.5
100	10	6.5
400	15.5	5.5
1100	21	6.5
2080	23.5	9.5

Generally, KKW water is expected to increase water age in York. KKW has a significant amount of storage. It is expected that general demand trends in York will be mimicked in KKW and minimum day/high water age periods in York will coincide with minimum day/high water age periods in KKW.

# **Trace Analysis**

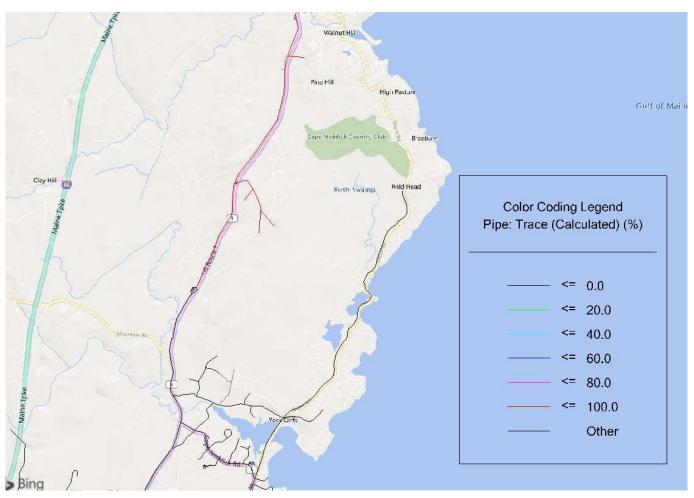
A trace analysis is used to analyze the flow of water through a system. By designating a source water as 100% saturated with a tracer, the saturation of that source water can be analyzed. A trace analysis was completed under average summer day demand and controls, and sustained 50, 100 and 400 gpm flows from KKW-WD. Snapshots and tank concentrations from the trace analyses are included below. The video recordings will be furnished separately from this report.



## 3.1 50 gpm from KKW-WD

In the model, 50 gpm does not exceed the demand in the high zone north of the YWD Route 1 pump station. KKW-WD does not reach the tanks.

Figure 1 50 gpm from KKW-WD





## 3.2 100 gpm from KKW-WD

100 gpm from KKW-WD disperses past the YWD Route 1 pump station. KKW-WD does not reach the tanks.

Figure 2 100 gpm from KKW-WD

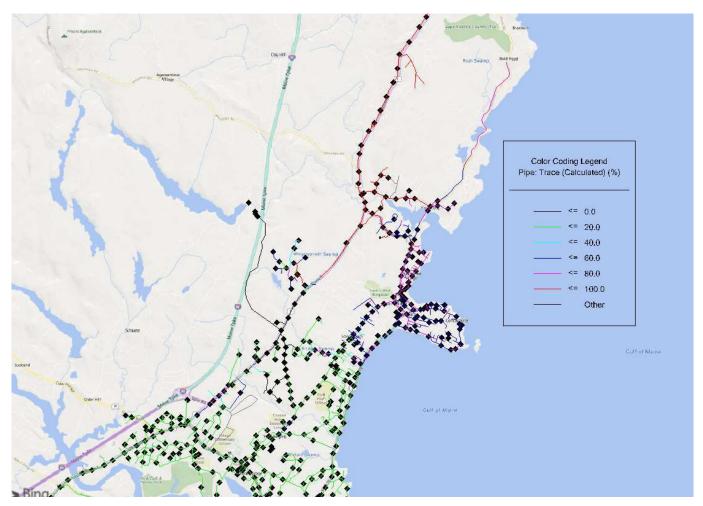




## 3.3 400 gpm from KKW-WD

400 gpm disperses into most of the YWD system. Simpson Hill Tank averages 70% and York Heights Tank average 5%. The tank takes approximately 32 days to reach equilibrium.

Figure 3 400 gpm from KKW-WD





## **Conclusions and Recommendations**

## 4.1 Conclusions

The hydraulic modeling shows the current operations are well optimized for the proposed infrastructure once the Route 1 water main is completed. The average water age of the Simpson Hill tank is about twice that of York Heights Tank. However, the average water age of Simpson Hill tank is not extraordinarily high. This is supported by few occurrences of nitrification events. The higher seasonal summer demands in York will continue to assist with water turn over in Simpson Hill tank. Additional demand could be artificially created by a bleeder situated close to the Simpson Hill Tank, but this method contributes to non-revenue water losses

Average day water transfer between KKW-WD and YWD (50 gpm) are unlikely to reach either tank. The actual area served by KKW-WD water will vary since the YWD model demand is evenly allocated. Large water transfers from KKW-WD are likely to increase water age due to the age of the water at the interconnection.

Pumped storage could be a strategy to manage water age but is costly to implement. Additional pumping capacity at the treatment plan would also have positive effects on water age. A future long-term method for decreasing water age would be to replace Simpson Hill Tank with an elevated storage tank to reduce the inactive storage volume within the standpipe. Currently, only 20% of percent of Simpson Hill tank is considered active storage.

## 4.2 Recommendations

#### 4.2.1 Short Term Recommendations

The completion of the Route 1 water main is recommended to reduce water age in Simpson Hill Tank. Additionally, bleeders near Simpson Hill tank are recommended when high temperatures or nitrification is a concern. Tank mixing is often a concern when addressing water age and nitrification. 2022 stratification testing showed the tanks were well mixed. Further testing is recommended to verify these results are consistent. Testing is recommended for August 2023.

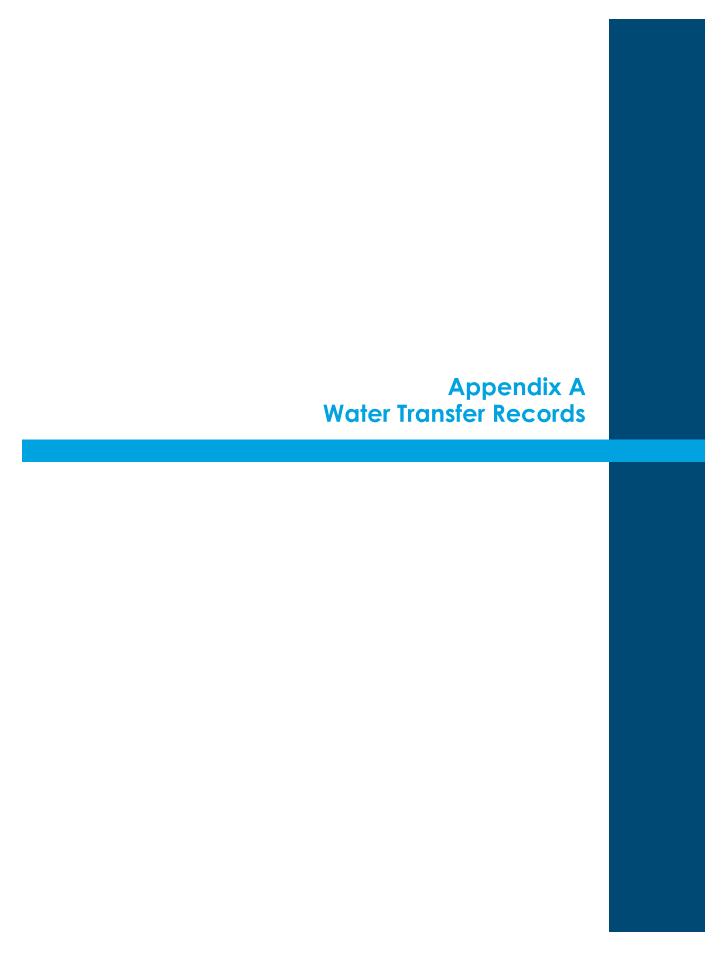
## 4.2.2 Long Term Recommendations

If the chlorine analyzer shows time periods of low chlorination or de-chlorination, a chlorine booster at the tank(s), should be implemented. Similarly, if tank stratification is observed, a tank mixer should be considered. Future upgrades to the treatment plant should consider boosting pumping capacity. Replacing Simpson Hill tank is the best long-term solution for decreasing water age. Simpson Hill tank was constructed in 1982 (41 years old) and is due for painting in 2028. The tank was inspected in 2020 and was found to be in very good condition. The tank should continue to be inspected every 5-10 years. When Simpson Hill Tank is nearing its useful life, an elevated storage tank should be considered.

#### 4.3 Disclaimer

The water age estimates presented in this report are for planning purposes only. Hydraulic modeling provides a mathematical representation of an average or maximum day in reality. A water system is a dynamic entity, differences between system operation and the modeled operation will result in differences in results.





				Γ						
System:	York Water District, J	ork Water District, Josiah Chase Filtration Plant								
PWSID:	91680	Date:	1/17/2023							
Month:	June 2020									

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
6/1/2020	0.0	1,664,320	-43,500		1,620,820	1,763,840	185,880	1,310	2,668	2,298	13.95
6/2/2020	-0.2	1,487,360	-45,900		1,441,460	1,788,160	161,660	60,940	3,610	2,528	12.35
6/3/2020	-0.2	1,584,000	-45,200		1,538,800	1,681,280	105,820	21,430	1,860	2,392	13.15
6/4/2020	-0.2	1,577,600	-36,800		1,540,800	1,682,080	82,100	61,240	3,560	2,410	13.35
6/5/2020	-0.2	1,588,160	-37,500		1,550,660	1,669,120	117,800	20,530	1,680	2,403	12.95
6/6/2020	-0.2	1,475,200	-46,200		1,429,000	1,578,400	113,440	61,630	2,000	2,385	12.55
6/7/2020	-0.2	1,211,840	-41,700		1,170,140	1,285,600	92,240	21,380	1,787	2,366	9.96
6/8/2020	-0.2	1,607,360	-46,400		1,560,960	1,911,040	157,260	20,030	2,113	2,397	13.35
6/9/2020	-0.2	1,536,000	-32,000		1,504,000	1,640,000	195,460	59,540	2,900	2,391	12.95
6/10/2020	-0.3	1,632,640	-44,300		1,588,340	1,749,120	156,200	20,970	1,740	2,403	13.35
6/11/2020	0.3	1,292,160	-33,400		1,258,760	1,497,760	101,240	39,660	2,850	2,396	10.76
6/12/2020	-0.3	1,440,000	-44,700		1,395,300	1,506,080	104,420	21,630	5,540	2,381	11.75
6/13/2020	-0.3	1,742,080	-46,700		1,695,380	1,885,600	164,960	60,580	2,380	2,373	14.54
6/14/2020	-0.3	1,384,000	-42,400		1,341,600	1,463,680	135,460	19,310	2,380	2,385	11.16
6/15/2020	-0.4	1,973,440	-45,100		1,928,340	2,220,160	150,980	48,050	1,998	2,394	16.54
6/16/2020	-0.4	1,855,360	-42,000		1,813,360	1,945,280	135,520	53,330	2,800	2,441	14.74
6/17/2020	-0.4	2,032,000	-49,800		1,982,200	2,054,240	182,780	39,730	3,040	2,526	15.54
6/18/2020	-0.7	2,253,760	-46,200		2,207,560	2,502,240	210,280	62,020	2,140	2,765	16.14
6/19/2020	-0.7	2,520,640	-44,600		2,476,040	2,663,200	212,100	81,840	1,690	2,701	18.13
6/20/2020	-0.7	2,357,440	-48,400		2,309,040	2,512,960	209,320	79,380	1,170	2,706	16.93
6/21/2020	-0.7	2,263,680	-40,900		2,222,780	2,397,600	208,840	60,970	1,085	2,710	16.34
6/22/2020	-0.7	2,140,800	-41,800		2,099,000	2,245,600	204,980	80,500	1,875	2,718	15.54
6/23/2020	-0.9	1,914,880	-41,300		1,873,580	2,292,480	203,940	78,870	1,430	2,792	13.35
6/24/2020	-0.9	2,003,200	-48,600		1,954,600	2,013,280	153,500	78,780	890	2,825	13.35
6/25/2020	-0.9	1,916,800	-45,700		1,871,100	2,049,920	125,660	58,390	1,579	2,808	12.75
6/26/2020	-0.9	2,338,560	-45,100		2,293,460	2,366,720	145,360	58,020	1,276	2,816	15.74
6/27/2020	-1.0	2,061,120	-48,200		2,012,920	2,072,160	129,980	79,100	985	2,788	14.14
6/28/2020	-1.1	2,008,000	-40,500		1,967,500	2,014,240	159,440	78,560	650	2,816	13.55
6/29/2020	-1.1	1,705,280	-37,600		1,667,680	2,037,920	184,460	40,430	1,400	2,815	11.95
6/30/2020	-1.3	1,300,480	-28,400		1,272,080	1,331,680	125,840	38,930	1,010	2,763	9.16
Total		53,868,160	Send: 1,280,900	Send: ()	52,587,260	57,821,440	4,616,920	1,507,080	62,086		410
Average	-0.5	1,795,605	Recv: 0	Recv: 0	1,752,909	1,927,381	153,897	50,236	2,070	2,563	

System:	n: York Water District, Josiah Chase Filtration Plant							
PWSID:	91680	Date:	1/17/2023					
Month:	July 2020							

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
7/1/2020	-1.1	1,463,040	-47,700		1,415,340	1,500,160	118,360	78,170	1,040	2,757	10.76
7/2/2020	-1.1	1,701,760	-47,500		1,654,260	1,881,600	158,440	42,120	1,500	2,779	11.75
7/3/2020	-1.1	1,748,800	-47,200		1,701,600	1,759,520	111,400	39,040	900	2,770	12.35
7/4/2020	-1.1	2,112,640	-49,200		2,063,440	2,157,600	141,040	80,830	1,540	2,786	14.94
7/5/2020	-1.1	1,849,280	-47,900		1,801,380	1,848,000	121,780	80,630	1,030	2,773	12.95
7/6/2020	-1.2	1,698,560	-37,300		1,661,260	1,950,560	163,980	61,430	1,440	2,776	12.15
7/7/2020	-1.2	1,786,240	-46,100		1,740,140	1,825,120	204,860	39,980	1,420	2,771	12.75
7/8/2020	-1.4	1,869,760	-44,100		1,825,660	1,914,560	204,620	79,340	1,210	2,788	13.35
7/9/2020	-1.4	1,666,880	-36,600		1,630,280	1,874,880	201,920	59,950	2,050	2,771	11.95
7/10/2020	-1.4	1,638,720	-47,300		1,591,420	1,694,720	118,360	39,700	1,110	2,783	11.75
7/11/2020	-1.4	1,482,240	-47,600		1,434,640	1,623,360	148,260	60,850	680	2,764	10.56
7/12/2020	-1.4	1,915,520	-47,100		1,868,420	1,952,640	201,620	100,000	1,298	2,777	13.75
7/13/2020	-1.5	1,631,040	-47,100		1,583,940	1,666,880	154,380	41,530	1,132	2,784	11.75
7/14/2020	-1.5	1,523,200	-37,000		1,486,200	1,575,040	101,840	77,010	1,100	2,752	10.96
7/15/2020	-1.5	1,512,000	-41,800		1,470,200	1,540,320	98,620	1,000	1,540	2,774	10.76
7/16/2020	-1.5	1,639,040	-38,000		1,601,040	1,927,040	126,120	80,770	1,417	2,752	12.15
7/17/2020	-1.6	1,729,600	-49,500		1,680,100	1,831,360	120,600	80,450	1,085	2,762	13.15
7/18/2020	-1.6	2,028,800	-50,900		1,977,900	2,268,000	170,500	81,990	1,248	2,788	14.34
7/19/2020	-1.6	2,133,120	-47,200		2,085,920	2,208,640	205,360	97,600	1,130	2,757	15.34
7/20/2020	-1.7	2,283,200	-50,200		2,233,000	2,528,800	211,680	80,600	1,650	2,786	16.14
7/21/2020	-1.7	2,015,360	-51,400		1,963,960	2,098,080	200,880	77,100	990	2,770	14.34
7/22/2020	-1.9	1,836,800	-43,000		1,793,800	2,142,400	200,900	77,280	1,300	2,771	13.15
7/23/2020	-1.9	1,448,640	-35,100		1,413,540	1,532,000	184,180	41,570	1,420	2,753	10.56
7/24/2020	-2.0	1,805,440	-49,400		1,756,040	1,873,440	190,820	76,850	850	2,750	13.15
7/25/2020	-2.0	1,931,520	-54,400		1,877,120	2,006,880	199,100	77,630	1,080	2,757	13.75
7/26/2020	-2.0	2,200,640	-47,800		2,152,840	2,250,080	198,560	97,030	1,215	2,760	15.74
7/27/2020	-2.0	2,421,760	-52,700		2,369,060	2,839,200	217,140	99,020	1,365	2,795	17.13
7/28/2020	-2.1	2,102,720	-45,000		2,057,720	2,260,320	204,400	117,170	1,380	2,793	14.54
7/29/2020	-2.2	2,266,880	-43,200		2,223,680	2,360,320	208,640	78,650	1,090	2,800	15.74
7/30/2020	-2.2	2,213,130	-46,800		2,166,330	2,572,160	214,420	77,170	2,120	2,800	14.74
7/31/2020	-2.2	2,211,840	-45,500		2,166,340	2,376,230	215,540	98,060	1,080	2,788	15.34
Total		57,868,170	Send: 1,421,600	Send: ()	56,446,570	61,839,910	5,318,320	2,220,520	39,410		412
Average	-1.6	1,866,715	Recv: 0	Recv: 0	1,820,857	1,994,836	171,559	71,630	1,271	2,774	

System:	York Water District, J	osiah Chase Filtrat	tion Plant
PWSID:	91680	Date:	1/17/2023
Month:	August 2020		

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
8/1/2020	-2.2	2,011,200	-52,000		1,959,200	2,129,440	209,460	99,970	1,160	2,777	13.75
8/2/2020	-2.4	2,354,240	-49,300		2,304,940	2,524,160	219,880	100,620	850	2,790	16.14
8/3/2020	-2.5	2,320,000	-48,000		2,272,000	2,752,000	226,040	138,750	1,340	2,807	15.94
8/4/2020	-2.5	1,736,320	-44,400		1,691,920	1,926,240	208,240	79,350	1,280	2,795	13.15
8/5/2020	-2.5	1,919,680	-48,600		1,871,080	2,023,360	204,140	79,960	1,240	2,790	13.15
8/6/2020	-2.5	2,443,840	-46,400		2,397,440	2,813,120	226,880	119,660	1,780	2,774	18.13
8/7/2020	-2.5	2,313,600	-50,300		2,263,300	2,448,320	219,160	122,330	1,240	2,812	15.94
8/8/2020	-2.5	2,322,240	-47,200		2,275,040	2,492,800	222,120	99,350	1,140	2,795	16.94
8/9/2020	-2.5	2,533,440	-48,900		2,484,540	2,993,600	233,680	119,190	1,040	2,789	17.13
8/10/2020	-2.8	2,140,480	-49,600		2,090,880	2,276,160	220,820	118,580	1,520	2,800	14.94
8/11/2020	-2.8	2,196,480	-50,800		2,145,680	2,740,960	239,380	119,920	1,320	2,774	15.14
8/12/2020	-2.8	2,679,680	-47,700		2,631,980	2,807,520	237,580	135,140	1,100	2,804	18.13
8/13/2020	-2.8	2,486,400	-49,900		2,436,500	2,877,920	239,040	119,320	1,780	2,795	16.73
8/14/2020	-3.0	2,679,360	-52,100		2,627,260	2,938,240	234,640	159,150	1,120	2,824	19.93
8/15/2020	-3.2	2,332,480	-49,200		2,283,280	2,674,720	228,860	102,110	1,252	2,838	15.74
8/16/2020	-3.2	2,117,120	-50,000		2,067,120	2,247,040	219,440	137,790	1,208	2,805	14.74
8/17/2020	-3.2	2,184,320	-49,400		2,134,920	2,407,200	222,320	77,310	1,170	2,822	14.74
8/18/2020	-3.4	2,584,960	-62,700		2,522,260	2,933,440	233,160	158,440	1,780	2,869	17.53
8/19/2020	-3.4	3,036,480	91,900		3,128,380	3,344,640	243,580	140,740	1,450	2,869	20.32
8/20/2020	-3.4	2,482,880	298,700		2,781,580	2,551,520	228,800	143,710	1,550	2,815	17.33
8/21/2020	-3.4	2,026,240	302,400		2,328,640	2,231,040	221,160	103,440	1,050	2,775	14.14
8/22/2020	-3.5	1,899,840	294,900		2,194,740	1,892,800	212,560	122,810	830	2,786	13.15
8/23/2020	-3.4	1,594,880	292,500		1,887,380	1,894,400	205,000	79,550	670	2,781	11.55
8/24/2020	-3.3	1,709,440	171,470		1,880,910	1,786,240	198,940	62,030	1,290	2,675	12.55
8/25/2020	-3.3	1,792,960	288,000		2,080,960	1,947,520	196,600	79,010	1,530	2,700	13.35
8/26/2020	-3.3	1,688,960	304,200		1,993,160	2,039,040	198,640	79,390	1,410	2,678	12.55
8/27/2020	-3.3	1,721,600	299,400		2,021,000	1,917,600	200,600	81,570	1,540	2,698	12.75
8/28/2020	-3.3	1,607,680	308,000		1,915,680	1,704,320	197,400	103,120	700	2,686	12.15
8/29/2020	-3.2	1,256,320	285,000		1,541,320	1,353,920	191,620	62,910	610	2,699	9.56
8/30/2020	-3.1	1,204,160	292,100		1,496,260	1,262,880	139,580	61,980	570	2,722	8.96
8/31/2020	-3.2	1,382,720	212,700		1,595,420	1,784,160	114,960	82,070	730	2,672	10.36
Total		64,760,000	Send: 896,500	Send: ()	67,304,770	71,716,320	6,594,280	3,289,270	37,250		457
Average	-3.0	2,089,032	Recv: 3,441,270	Recv: 0	2,171,122	2,313,430	212,719	106,105	1,202	2,775	

System:	York Water District, J	ork Water District, Josiah Chase Filtration Plant								
PWSID:	91680	Date:	1/17/2023							
Month:	September 2020									

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
9/1/2020	-3.2	1,343,680	264,400		1,608,080	1,412,800	92,280	62,510	1,070	2,662	10.16
9/2/2020	-3.2	1,509,120			1,509,120	1,590,080	104,620	83,470	620	2,672	11.16
9/3/2020	-3.2	1,488,960			1,488,960	1,830,720	130,720	80,520	1,380	2,666	11.36
9/4/2020	-3.2	1,814,080			1,814,080	1,848,160	125,540	83,890	1,890	2,598	13.35
9/5/2020	-3.3	1,867,200			1,867,200	1,983,680	141,320	80,100	860	2,553	15.14
9/6/2020	-3.3	2,027,520			2,027,520	2,097,760	152,820	83,440	1,070	2,490	16.34
9/7/2020	-3.4	1,967,040			1,967,040	2,260,320	165,520	79,180	1,050	2,452	15.94
9/8/2020	-3.5	1,749,120			1,749,120	1,847,360	136,080	81,480	980	2,261	14.74
9/9/2020	-3.5	1,621,440			1,621,440	1,982,240	147,260	61,740	950	2,287	13.75
9/10/2020	-3.5	1,263,680			1,263,680	1,416,160	145,080	61,550	1,043	2,498	10.96
9/11/2020	-3.5	1,422,720			1,422,720	1,502,880	156,840	40,500	559	2,310	11.95
9/12/2020	-3.6	1,368,640			1,368,640	1,446,400	105,440	42,490	698	2,262	11.55
9/13/2020	-3.6	1,492,160			1,492,160	1,569,760	117,080	82,540	800	2,252	12.55
9/14/2020	-3.6	1,567,680			1,567,680	1,853,600	138,000	19,880	970	2,197	12.75
9/15/2020	-3.7	1,409,280			1,409,280	1,512,000	113,380	62,400	1,710	2,271	12.15
9/16/2020	-3.7	1,591,360	-32,400		1,558,960	1,660,800	159,980	63,300	1,250	2,278	13.35
9/17/2020	-3.8	1,720,000	-54,700		1,665,300	1,986,880	212,780	79,160	1,670	2,285	14.54
9/18/2020	-3.8	1,597,760	-61,900		1,535,860	1,716,000	205,240	59,720	600	2,287	13.55
9/19/2020	-3.9	1,581,120	-59,000		1,522,120	1,658,560	168,800	39,380	760	2,260	12.95
9/20/2020	-3.9	1,592,320	-57,600		1,534,720	1,700,480	125,680	60,980	642	2,256	13.55
9/21/2020	-4.0	1,623,360	-61,900		1,561,460	1,920,160	143,700	60,500	758	2,260	13.75
9/22/2020	-4.0	1,394,240	-66,200		1,328,040	1,478,720	110,960	61,260	1,160	2,254	11.75
9/23/2020	-4.1	1,682,240	-64,800		1,617,440	1,748,640	124,680	61,150	660	2,260	13.95
9/24/2020	-4.1	1,644,480	-54,700		1,589,780	1,941,760	248,580	80,340	1,390	2,393	13.75
9/25/2020	-4.2	1,678,720	-56,200		1,622,520	1,800,160	197,540	44,440	770	2,306	14.14
9/26/2020	-4.2	1,549,120	-66,200		1,482,920	1,654,080	133,500	61,580	740	2,266	13.15
9/27/2020	-4.2	1,522,880	18,900		1,541,780	1,604,480	130,140	60,000	950	2,513	12.95
9/28/2020	-4.3	1,170,240	179,900		1,350,140	1,539,360	126,960	21,820	1,060	2,271	9.76
9/29/2020	-4.3	733,120	302,100		1,035,220	785,440	66,960	63,420	940	2,271	6.38
9/30/2020	-4.2	722,240	274,300		996,540	748,480	125,620	21,470	720	2,276	5.98
Total		45,715,520	Send: 635,600	Send: ()	46,119,520	50,097,920	4,253,100	1,844,210	29,720		377
Average	-3.7	1,523,851	Recv: 1,039,600	Recv: 0	1,537,317	1,669,931	141,770	61,474	991	2,362	

System:	System: York Water District, Josiah Chase Filtration Plant				
PWSID:	91680	Date:	1/17/2023		
Month:	October 2020				

SOLD KKW	PURCHASE KKW	SOLD KWD	PURCHASE KWD		PLANT PUMPED	Ttl SYS DEMAND
5,386,300	12,834,170	0	0	SUM:	277,073,130	284,521,000
NET TRANSFER		NET TRANSFER		AVG:	1,505,832	1,546,310
7,447,870	NET Positive/Neg	0	NET Positive/Neg	MIN:	390,400	574,640
	1			MAX:	3,036,480	3,128,380

System:	York Water District, J	losiah Chase Filtrat	tion Plant
PWSID:	91680	Date:	1/17/2023
Month:	June 2021		

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
6/1/2021	0.0	1,157,000	-68,400		1,088,600	1,398,500	142,139	34,233	1,960	2,821	10.60
6/2/2021	0.2	1,289,539	-65,300		1,224,239	1,354,785	153,758	0	1,930	2,820	10.00
6/3/2021	0.2	1,545,188	-67,900		1,477,288	1,604,555	103,381	68,417	2,960	2,514	12.40
6/4/2021	0.2	1,599,398	-68,200		1,531,198	1,686,230	106,530	16,912	2,130	2,531	12.60
6/5/2021	0.1	1,785,695	-68,900		1,716,795	1,801,135	114,994	51,495	2,440	2,520	13.60
6/6/2021	0.1	1,892,570	-66,000		1,826,570	1,998,965	128,306	51,018	2,430	2,529	15.20
6/7/2021	0.0	2,194,523	-72,900		2,121,623	2,127,375	135,518	20,843	2,400	2,545	16.00
6/8/2021	-0.1	1,849,523	-124,800		1,724,723	1,987,230	120,326	51,342	2,520	2,673	14.40
6/9/2021	-0.1	1,328,703	215,400		1,544,103	1,229,600	118,179	34,207	2,060	2,679	8.90
6/10/2021	0.0	1,841,219	430,230	89,610	2,361,059	1,859,720	118,029	34,220	2,610	2,500	13.80
6/11/2021	0.0	1,622,727	-101,300		1,521,427	1,658,125	105,200	34,157	2,220	2,560	12.60
6/12/2021	-0.1	1,674,711	-61,800		1,612,911	1,573,945	137,049	51,054	2,290	2,703	11.70
6/13/2021	-0.1	2,015,648	-61,500		1,954,148	1,936,085	175,879	68,390	2,100	2,695	14.60
6/14/2021	-0.2	1,503,000	-61,500		1,441,500	1,514,630	165,716	34,188	2,080	2,601	11.40
6/15/2021	-0.2	1,307,648	-63,100		1,244,548	1,551,420	137,103	34,080	3,270	2,603	11.60
6/16/2021	-0.2	1,644,727	-63,100		1,581,627	1,645,850	104,764	51,634	2,170	2,589	12.40
6/17/2021	-0.3	1,739,461	-68,300		1,671,161	1,812,475	115,118	51,101	2,640	2,809	13.80
6/18/2021	-0.3	1,893,219	-61,700		1,831,519	1,918,220	121,364	34,119	1,980	2,610	14.20
6/19/2021	-0.3	1,859,961	-59,300		1,800,661	1,867,795	119,029	68,330	2,050	2,614	14.20
6/20/2021	-0.3	2,013,758	-63,700		1,950,058	2,035,920	129,301	51,109	2,304	2,610	15.40
6/21/2021	-0.5	2,471,203	-62,400		2,408,803	2,399,650	162,037	68,082	2,556	2,725	17.80
6/22/2021	-0.5	1,834,547	-58,300		1,776,247	1,628,485	172,601	33,768	2,030	2,854	12.00
6/23/2021	-0.5	1,962,141	-63,100		1,899,041	1,650,030	169,167	51,449	1,740	2,718	12.20
6/24/2021	-0.5	1,989,547	-63,400		1,926,147	1,666,610	139,578	38,355	2,930	2,720	12.20
6/25/2021	-0.5	1,994,477	-62,800		1,931,677	1,650,535	103,367	56,109	1,790	2,718	12.20
6/26/2021	-0.7	2,338,500	-68,100		2,270,400	1,964,295	121,833	51,420	2,350	2,718	14.60
6/27/2021	-0.7	2,438,641	-57,600		2,381,041	2,038,285	127,254	84,237	880	2,713	15.00
6/28/2021	-0.7	2,632,422	-64,700		2,567,722	2,972,870	156,460	68,816	2,450	2,894	17.80
6/29/2021	-0.8	2,731,234	-66,100		2,665,134	2,848,170	181,168	69,557	1,740	2,897	16.40
6/30/2021	-0.9	2,451,969	-62,000		2,389,969	2,543,155	176,203	69,250	1,580	2,899	16.40
Total		56,602,899	Send: 1,896,200	Send: 0	55,441,939	55,924,645	4,061,351	1,431,892	66,590		406
Average	-0.3	1,886,763	Recv: 645,630	Recv: 89,610	1,848,065	1,864,155	135,378	47,730	2,220	2,679	

System:	York Water District, J	losiah Chase Filtrat	ion Plant
PWSID:	91680	Date:	1/17/2023
Month:	July 2021		

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
7/1/2021	-0.9	1,818,484	-68,500		1,749,984	2,177,425	170,614	68,795	1,780	2,861	12.60
7/2/2021	-0.9	1,852,484	-66,600		1,785,884	1,967,405	167,326	69,551	880	2,818	11.60
7/3/2021	-0.8	1,763,000	-69,600		1,693,400	1,844,085	165,013	52,006	1,100	2,815	10.60
7/4/2021	-0.8	1,913,766	-72,300		1,841,466	2,001,885	167,739	51,491	960	2,814	11.60
7/5/2021	-0.8	1,972,656	-68,300		1,904,356	2,077,985	168,409	34,530	1,010	2,832	12.00
7/6/2021	-0.8	2,010,922	-65,900		1,945,022	2,399,880	152,281	68,203	3,220	2,816	13.80
7/7/2021	-0.8	2,163,375	-59,400		2,103,975	2,285,825	111,974	69,137	1,750	2,835	13.40
7/8/2021	-0.9	1,651,266	-44,300		1,606,966	1,976,935	116,989	52,358	2,300	2,832	11.40
7/9/2021	-0.9	1,825,266	-65,400		1,759,866	1,907,160	165,978	52,027	1,340	2,833	11.00
7/10/2021	-0.4	1,697,828	-59,000		1,638,828	1,811,045	164,479	34,825	1,740	2,805	10.40
7/11/2021	-0.3	1,833,703	-64,900		1,768,803	1,920,530	129,985	52,392	1,420	2,814	11.20
7/12/2021	0.0	1,713,734	-62,700		1,651,034	1,824,410	88,964	51,814	1,500	2,818	10.60
7/13/2021	0.3	1,574,750	-62,200		1,512,550	1,901,360	83,583	34,413	1,990	2,794	11.10
7/14/2021	0.3	1,632,078	-62,800		1,569,278	1,606,020	112,380	51,905	1,350	2,751	11.20
7/15/2021	0.3	1,818,094	-65,200		1,752,894	1,701,830	136,566	34,680	2,430	2,772	11.00
7/16/2021	0.3	1,818,969	-67,300		1,751,669	1,709,160	135,388	63,741	2,250	2,765	11.20
7/17/2021	0.2	2,013,859	-71,200		1,942,659	1,903,270	135,004	34,572	1,640	2,771	12.20
7/18/2021	0.2	1,755,250	-62,100		1,693,150	1,666,870	135,000	68,237	1,430	2,783	11.00
7/19/2021	0.2	1,743,438	-66,300		1,677,138	1,866,020	106,865	16,505	2,060	2,770	12.00
7/20/2021	0.2	1,722,938	-60,500		1,662,438	1,600,290	58,936	70,560	1,750	2,758	10.60
7/21/2021	0.2	1,718,203	-65,000		1,653,203	1,549,540	74,934	52,575	1,550	2,755	10.80
7/22/2021	0.1	1,916,344	-67,000		1,849,344	1,769,050	152,156	34,002	2,560	2,797	12.00
7/23/2021	0.1	2,082,953	-68,000		2,014,953	2,176,120	195,779	68,144	1,900	2,813	12.60
7/24/2021	0.1	1,880,188	-73,200		1,806,988	2,011,380	186,415	50,451	1,720	2,814	11.60
7/25/2021	0.1	1,744,484	-64,500		1,679,984	1,984,930	163,249	67,791	1,440	2,814	11.60
7/26/2021	0.1	1,982,016	-70,100		1,911,916	2,423,980	147,728	52,091	2,440	2,803	14.00
7/27/2021	0.1	1,851,750	-65,900		1,785,850	1,928,190	139,534	35,375	1,720	2,811	11.00
7/28/2021	0.1	1,771,328	-68,900		1,702,428	1,885,820	186,029	70,234	1,470	2,796	11.20
7/29/2021	0.1	1,675,063	-68,200		1,606,863	1,744,760	116,796	51,815	1,970	2,804	10.00
7/30/2021	0.4	1,821,000	-63,300		1,757,700	1,944,500	118,185	51,118	1,480	2,808	11.40
7/31/2021	0.4	1,701,938	-61,200		1,640,738	1,813,940	110,703	50,886	1,520	2,801	10.60
Total	_	56,441,127	Send: 2,019,800	Send: ()	54,421,327	59,381,600	4,264,981	1,616,224	53,670		357
Average	-0.1	1,820,682	Recv: 0	Recv: 0	1,755,527	1,915,535	137,580	52,136	1,731	2,802	

System:	York Water District, J	losiah Chase Filtrat	ion Plant
PWSID:	91680	Date:	1/17/2023
Month:	August 2021		

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
8/1/2021	0.4	2,015,859	-75,000		1,940,859	2,148,390	132,321	66,476	1,980	2,873	12.80
8/2/2021	0.4	2,053,922	-70,700		1,983,222	2,560,920	175,676	86,942	1,600	2,807	14.80
8/3/2021	0.4	1,991,813	-72,400		1,919,413	2,122,740	194,954	70,001	1,870	2,821	12.40
8/4/2021	0.1	1,951,922	-77,400		1,874,522	2,068,230	195,693	34,112	1,610	2,797	11.80
8/5/2021	0.1	1,701,250	-68,000		1,633,250	2,148,890	189,338	69,527	2,860	2,800	13.60
8/6/2021	0.1	1,890,797	-68,200		1,822,597	2,007,520	192,408	53,141	2,130	2,797	11.60
8/7/2021	0.1	1,926,875	-66,100		1,860,775	2,045,590	193,300	52,978	2,090	2,798	12.00
8/8/2021	0.1	2,014,125	-73,900		1,940,225	2,144,010	194,643	69,220	1,970	2,798	12.40
8/9/2021	0.1	2,021,750	-75,500		1,946,250	2,431,440	202,809	86,954	2,370	2,086	14.20
8/10/2021	0.0	1,903,219	-70,300		1,832,919	2,044,480	169,405	34,915	2,090	2,800	11.80
8/11/2021	0.0	2,271,734	-71,000		2,200,734	2,483,830	174,070	69,968	2,427	2,681	15.00
8/12/2021	0.0	2,283,328	-68,200		2,215,128	2,558,070	176,131	69,336	3,173	2,842	14.80
8/13/2021	-0.1	2,430,422	-70,000		2,360,422	2,563,710	208,198	69,787	2,280	2,860	15.00
8/14/2021	-0.1	2,463,391	-457,420		2,005,971	2,779,320	213,574	87,269	2,750	2,866	16.00
8/15/2021	-0.1	3,032,984	-912,289		2,120,695	3,149,130	226,306	70,447	2,360	2,872	18.20
8/16/2021	-0.2	2,645,922	-399,060		2,246,862	2,758,890	213,501	86,276	2,400	2,882	16.00
8/17/2021	-0.2	2,120,203	-57,000		2,063,203	2,518,870	209,089	68,701	2,340	2,856	14.60
8/18/2021	-0.3	2,154,875	-57,300		2,097,575	2,243,140	205,430	70,661	1,710	2,863	13.00
8/19/2021	-0.3	1,714,094	-56,000		1,658,094	1,837,450	190,996	52,894	2,520	2,791	10.60
8/20/2021	-0.1	1,765,781	-58,500		1,707,281	1,901,970	188,159	69,135	1,670	2,780	11.20
8/21/2021	-0.1	1,707,422	-55,700		1,651,722	1,777,080	186,863	28,443	1,810	2,776	10.20
8/22/2021	-0.1	1,573,969	-50,400		1,523,569	1,729,650	184,221	42,113	1,810	2,773	10.00
8/23/2021	0.0	1,680,828	-55,100		1,625,728	2,158,750	169,561	66,638	1,570	2,784	12.40
8/24/2021	0.2	1,495,047	-61,300		1,433,747	1,590,060	87,205	52,792	2,400	2,785	9.40
8/25/2021	0.2	1,761,859	-53,100		1,708,759	1,940,700	109,264	52,730	2,150	2,791	11.60
8/26/2021	0.2	1,899,500	-57,500		1,842,000	2,086,000	128,044	35,121	2,820	2,792	12.00
8/27/2021	0.2	2,006,141	-56,200		1,949,941	1,968,450	108,930	70,108	2,010	2,743	14.40
8/28/2021	0.2	2,008,531	-54,600		1,953,931	1,917,140	105,319	55,030	2,210	2,450	14.40
8/29/2021	0.1	2,038,828	-53,700		1,985,128	1,716,420	138,226	34,452	1,720	2,503	13.00
8/30/2021	0.1	1,882,469	-55,100		1,827,369	2,038,880	143,671	50,859	2,490	2,814	14.50
8/31/2021	0.0	1,573,438	-54,000		1,519,438	2,277,000	141,761	66,561	2,530	2,854	15.10
Total		61,982,298	Send: 3,530,969	Send: ()	58,451,329	67,716,720	5,349,066	1,893,587	67,720		409
Average	0.0	1,999,429	Recv: 0	Recv: 0	1,885,527	2,184,410	172,551	61,083	2,185	2,766	

System:	York Water District, J	ork Water District, Josiah Chase Filtration Plant								
PWSID:	91680	Date:	1/17/2023							
Month:	September 2021									

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
9/1/2021	-0.1	1,478,875	-57,131		1,421,744	1,823,250	136,844	40,425	1,820	2,819	12.11
9/2/2021	0.3	1,353,750	-54,638		1,299,112	1,453,860	136,365	35,342	2,060	2,645	8.41
9/3/2021	0.3	1,623,750	-58,547		1,565,203	1,904,210	135,278	52,177	1,840	2,630	12.01
9/4/2021	0.3	1,689,531	-65,452		1,624,079	1,925,820	108,260	51,674	2,110	2,592	11.81
9/5/2021	0.3	1,868,344	-56,805		1,811,539	2,001,860	74,255	34,095	2,030	2,596	11.51
9/6/2021	0.3	1,919,625	-55,394		1,864,231	2,179,770	136,470	59,523	1,660	2,593	12.61
9/7/2021	0.2	1,591,063	-56,653		1,534,410	1,868,240	135,063	56,370	1,880	2,589	11.01
9/8/2021	0.2	1,651,875	-55,237		1,596,638	2,170,660	135,218	69,804	2,040	2,883	12.61
9/9/2021	0.1	1,490,406	-57,847		1,432,559	1,595,760	135,000	17,459	2,090	2,593	9.01
9/10/2021	0.2	1,447,281	-56,978		1,390,303	1,601,690	95,083	70,639	1,960	2,597	9.41
9/11/2021	0.2	1,662,906	-56,050		1,606,856	1,819,520	59,178	35,188	1,830	2,598	10.51
9/12/2021	0.1	1,630,219	-55,250		1,574,969	1,749,380	57,558	34,666	1,850	2,603	10.01
9/13/2021	0.1	1,604,750	-54,547		1,550,203	1,986,110	121,875	69,979	2,120	2,597	11.61
9/14/2021	0.1	1,481,719	-57,506		1,424,213	1,622,870	98,213	35,040	2,060	2,599	9.40
9/15/2021	0.1	1,745,156	-48,825		1,696,331	1,496,590	134,840	34,683	2,850	2,712	14.51
9/16/2021	0.1	2,496,875	-29,580		2,467,295	2,000,820	135,000	55,634	4,210	2,507	24.00
9/17/2021	0.0	3,143,313			3,143,313	3,293,320	123,318	98,901	3,910	2,507	22.02
9/18/2021	0.0	1,778,969			1,778,969	2,312,090	118,115	50,662	2,940	2,499	21.02
9/19/2021	0.0	1,249,875			1,249,875	1,345,920	75,200	34,815	2,660	2,364	13.31
9/20/2021	0.0	1,951,000			1,951,000	1,940,030	115,955	52,333	3,540	2,425	20.62
9/21/2021	0.0	1,863,031			1,863,031	1,941,700	99,943	69,464	3,400	2,525	17.62
9/22/2021	0.0	2,177,625			2,177,625	1,488,340	138,998	51,203	2,630	2,531	14.41
9/23/2021	-0.1	1,890,156			1,890,156	1,254,030	164,358	50,906	2,910	2,317	13.31
9/24/2021	-0.1	1,759,000			1,759,000	1,120,100	139,428	51,220	2,220	2,389	11.81
9/25/2021	-0.1	1,843,906			1,843,906	1,166,930	92,800	33,980	2,060	2,316	12.31
9/26/2021	-0.2	1,529,469			1,529,469	961,970	66,433	34,027	2,140	2,315	11.21
9/27/2021	-0.1	2,070,844			2,070,844	1,484,850	93,578	50,918	2,900	2,313	15.62
9/28/2021	0.2	1,989,094			1,989,094	1,824,260	132,503	53,458	3,530	2,305	19.72
9/29/2021	-0.2	2,035,563			2,035,563	2,086,920	160,263	51,280	3,590	2,201	22.72
9/30/2021	-0.2	1,818,750			1,818,750	1,661,000	181,988	68,172	2,760	2,491	17.22
Total		53,836,720	Send: 876,440	Send: ()	52,960,280	53,081,870	3,537,380	1,504,037	75,600		423
Average	0.1	1,794,557	Recv: 0	Recv: 0	1,765,343	1,769,396	117,913	50,135	2,520	2,522	

System:	System: York Water District, Josiah Chase Filtration Plant				
PWSID:	91680	Date:	1/17/2023		
Month:	October 2021				

SOLD KKW	PURCHASE KKW	HASE KKW SOLD KWD PURCHASE KWD			PLANT PUMPED	Ttl SYS DEMAND
9,091,644	645,630	0	89,610	SUM:	299,831,897	291,475,493
NET TRANSFER		NET TRANSFER		AVG:	1,629,521	1,584,106
-8,446,014	NET Positive/Neg	89,610	NET Positive/Neg	MIN:	598,594	598,594
	Ü		_	MAX:	3,143,313	3,143,313

System:	York Water District, J	losiah Chase Filtrat	ion Plant
PWSID:	91680	Date:	1/17/2023
Month:	June 2022		

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
6/1/2022	0.0	1,487,500			1,487,500	1,574,505	128,469	19,797	1,940	2,270	11.81
6/2/2022	0.0	747,906			747,906	778,515	63,215	19,799	2,000	2,271	5.91
6/3/2022	0.0	1,033,391			1,033,391	1,092,635	88,898	19,153	1,680	2,266	8.21
6/4/2022	0.0	1,406,000			1,406,000	1,490,090	119,734	58,058	1,910	2,263	11.61
6/5/2022	0.0	1,165,203			1,165,203	1,251,655	102,569	0	2,000	2,273	9.31
6/6/2022	0.0	1,338,703			1,338,703	1,601,670	129,263	56,846	2,140	2,768	12.21
6/7/2022	0.0	1,346,797			1,346,797	1,418,730	116,024	19,735	2,210	2,826	10.71
6/8/2022	0.0	1,623,000			1,623,000	1,739,270	141,144	38,944	1,960	2,260	14.51
6/9/2022	0.0	740,703			740,703	801,860	110,743	19,052	1,660	2,259	6.11
6/10/2022	0.1	1,489,891			1,489,891	1,582,880	198,125	19,569	1,730	2,261	11.91
6/11/2022	0.1	1,280,203			1,280,203	1,343,580	154,598	45,055	1,630	2,255	10.21
6/12/2022	0.1	1,135,109			1,135,109	1,226,380	96,821	18,715	1,690	2,256	9.31
6/13/2022	0.1	1,672,000			1,672,000	1,943,520	157,135	19,222	1,660	2,259	14.51
6/14/2022	0.1	1,228,094			1,228,094	1,319,160	105,830	39,075	2,760	2,261	10.11
6/15/2022	0.1	1,772,297			1,772,297	1,868,220	151,849	38,759	1,210	2,262	14.01
6/16/2022	0.0	1,119,906			1,119,906	1,211,910	134,030	38,479	3,120	2,262	9.21
6/17/2022	0.0	1,762,500			1,762,500	1,861,000	200,995	18,889	1,780	2,263	14.01
6/18/2022	0.0	1,535,891			1,535,891	1,630,530	132,913	19,225	2,470	2,256	12.21
6/19/2022	0.0	1,508,500			1,508,500	1,730,710	140,194	37,609	2,240	2,289	13.11
6/20/2022	0.0	1,765,000			1,765,000	1,861,040	151,764	38,390	1,720	2,256	14.01
6/21/2022	-0.1	1,750,406			1,750,406	1,875,060	152,305	37,874	2,780	2,257	14.21
6/22/2022	-0.1	1,756,203	39,645		1,795,848	1,855,080	152,070	18,591	2,970	2,258	13.91
6/23/2022	-0.1	1,908,094			1,908,094	2,059,120	170,756	56,290	3,200	2,611	15.52
6/24/2022	-0.1	2,173,703			2,173,703	2,050,240	170,486	170,486	2,430	2,559	15.42
6/25/2022	-0.1	1,918,594			1,918,594	1,801,810	148,761	19,415	2,670	2,564	13.51
6/26/2022	-0.1	2,019,313			2,019,313	1,874,610	157,435	75,849	1,890	2,563	14.21
6/27/2022	-0.3	1,705,688	-2,274		1,703,414	1,769,110	145,398	37,791	2,320	2,656	13.21
6/28/2022	-0.3	2,017,109	-19,235		1,997,874	1,857,150	151,990	58,241	2,790	2,663	13.61
6/29/2022	-0.3	1,773,094	-64,898		1,708,196	1,840,560	172,458	57,506	2,640	2,659	14.51
6/30/2022	-0.4	2,102,609	-125,393		1,977,216	2,461,900	223,245	77,176	3,980	2,758	15.72
Total		46,283,407	Send: 211,800	Send: ()	46,111,252	48,772,500	4,269,217	1,193,590	67,180		367
Average	0.0	1,542,780	Recv: 39,645	Recv: 0	1,537,042	1,625,750	142,307	39,786	2,239	2,396	

System:	York Water District, Josiah Chase Filtration Plant							
PWSID:	91680	Date:	1/17/2023					
Month:	July 2022							

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
7/1/2022	-0.4	2,316,391	-66,380		2,250,011	2,625,070	219,248	58,094	2,720	2,770	15.11
7/2/2022	-0.1	2,061,500	-66,380		1,995,120	2,368,290	205,935	57,428	2,740	2,774	13.71
7/3/2022	-0.4	1,926,203	-66,380		1,859,823	2,189,950	140,580	75,487	2,800	2,770	12.71
7/4/2022	-0.5	2,711,000	-66,380		2,644,620	3,169,530	202,745	75,325	2,980	2,700	18.32
7/5/2022	-0.7	2,218,703	-66,380		2,152,323	2,858,710	184,010	77,883	3,040	2,763	16.52
7/6/2022	-0.7	1,823,000	-66,380		1,756,620	2,076,230	131,423	39,492	2,640	2,764	11.91
7/7/2022	-0.7	2,019,594	-63,589		1,956,005	2,395,940	173,608	57,973	3,090	2,883	13.91
7/8/2022	-0.7	2,296,109	-69,382		2,226,727	2,629,430	21,075	58,090	2,890	2,770	15.11
7/9/2022	-0.8	2,806,188	-71,043		2,735,145	3,195,330	233,830	114,344	2,883	2,779	18.62
7/10/2022	-0.8	2,328,000	-66,651		2,261,349	2,655,780	216,738	37,570	3,017	2,777	15.21
7/11/2022	-1.0	2,675,000	-66,970		2,608,030	3,366,490	231,523	94,179	3,175	2,781	19.52
7/12/2022	-1.0	2,176,813	-62,763		2,114,050	2,490,050	184,615	58,024	2,625	2,753	14.51
7/13/2022	-1.0	1,865,000	-59,562		1,805,438	2,117,780	168,860	76,069	2,560	2,773	12.31
7/14/2022	-1.0	1,760,000	-57,666		1,702,334	2,223,130	163,465	18,402	2,710	2,764	12.71
7/15/2022	-1.0	2,025,000	-69,146		1,955,854	2,317,790	204,145	97,093	2,460	2,764	13.61
7/16/2022	-1.0	2,040,500	-66,158		1,974,342	2,292,600	200,248	76,256	2,300	2,786	13.21
7/17/2022	-1.0	2,218,688	-69,597		2,149,091	2,523,570	173,270	74,781	2,020	2,800	15.11
7/18/2022	-1.1	1,935,906	-65,781		1,870,125	2,444,180	153,095	57,332	2,050	2,768	14.11
7/19/2022	-1.1	1,789,906	-56,145		1,733,761	1,972,250	154,050	46,879	2,700	2,893	11.81
7/20/2022	-1.1	2,423,297	-63,379		2,359,918	2,556,930	227,705	81,391	2,770	2,873	17.72
7/21/2022	-1.1	1,871,203	-62,825		1,808,378	2,131,740	200,453	82,771	2,740	2,881	13.01
7/22/2022	-1.1	2,245,594	-68,774		2,176,820	2,428,710	206,290	78,960	2,610	2,872	14.01
7/23/2022	-1.1	2,385,406	-70,945		2,314,461	2,634,020	211,903	63,878	3,790	2,876	15.21
7/24/2022	-1.1	2,456,594	-68,518		2,388,076	2,683,800	235,268	79,630	1,860	2,875	15.52
7/25/2022	-1.2	2,041,406	-64,834		1,976,572	2,594,430	270,003	80,625	2,800	2,866	15.11
7/26/2022	-1.5	1,793,797	-62,886		1,730,911	1,970,300	235,315	41,207	2,950	2,859	11.41
7/27/2022	-1.6	2,062,094	-64,942		1,997,152	2,428,910	158,748	82,484	2,960	2,860	14.11
7/28/2022	-1.6	1,894,703	-62,327		1,832,376	2,126,050	199,375	25,512	3,370	2,877	12.71
7/29/2022	-1.6	1,989,703	-67,287		1,922,416	2,167,460	270,003	63,882	2,610	2,876	12.61
7/30/2022	-1.6	2,200,500	-65,547		2,134,953	2,428,950	270,005	82,961	2,940	2,872	14.11
7/31/2022	-1.6	2,398,000	-77,092		2,320,908	2,428,950	270,005	82,961	2,940	2,870	15.62
Total		66,755,798	Send: 2,042,089	Send: ()	64,713,709	76,492,350	6,117,536	2,096,963	85,740		449
Average	-1.0	2,153,413	Recv: 0	Recv: 0	2,087,539	2,467,495	197,340	67,644	2,766	2,816	

System:	York Water District, J	ork Water District, Josiah Chase Filtration Plant								
PWSID:	91680	Date:	1/17/2023							
Month:	August 2022			1						

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
8/1/2022	-1.7	2,370,500	-75,216		2,295,284	2,931,370	270,003	83,898	3,050	2,870	17.22
8/2/2022	-1.8	2,466,500	-47,636		2,418,864	2,728,070	270,003	107,295	3,420	2,858	15.82
8/3/2022	-1.8	2,392,203	-241,000		2,151,203	2,618,290	270,003	84,720	3,920	2,860	15.21
8/4/2022	-1.8	3,176,500	-395,290		2,781,210	3,515,710	270,005	104,078	3,470	2,873	20.32
8/5/2022	-1.8	2,497,781	-228,000		2,269,781	2,850,110	270,000	84,813	3,300	2,885	16.52
8/6/2022	-1.8	2,731,000	0		2,731,000	3,130,230	270,003	105,521	2,980	2,887	18.02
8/7/2022	-1.8	2,267,500	0		2,267,500	2,642,820	270,003	62,938	2,851	2,885	15.31
8/8/2022	-1.7	2,400,313	0		2,400,313	2,812,500	269,675	63,119	3,379	2,855	16.92
8/9/2022	-1.8	2,122,313	-32,250		2,090,063	2,333,220	270,000	63,721	4,420	2,858	13.41
8/10/2022	-1.8	2,280,375	-61,410		2,218,965	2,689,290	270,003	84,089	4,313	2,851	15.92
8/11/2022	-1.8	2,130,813	-55,290		2,075,523	2,422,230	270,005	85,554	4,307	2,853	14.11
8/12/2022	-1.8	2,504,313	-69,310		2,435,003	2,768,230	270,000	85,146	3,940	2,854	16.02
8/13/2022	-1.8	2,366,375	-62,240		2,304,135	2,798,350	27,003	83,498	3,440	2,863	16.12
8/14/2022	-1.8	2,479,406	-61,430		2,417,976	2,756,220	270,003	85,255	3,180	2,850	16.02
8/15/2022	-1.8	2,449,313	-68,690		2,380,623	2,708,100	270,003	83,969	4,490	2,846	15.62
8/16/2022	-1.8	2,229,094	-56,870		2,172,224	2,772,360	270,000	82,868	4,100	2,857	16.42
8/17/2022	-1.8	2,005,500	-50,760		1,954,740	2,208,260	270,003	85,627	3,490	2,860	12.81
8/18/2022	-1.7	2,209,594	-57,550		2,152,044	2,566,560	270,003	84,808	4,570	2,868	15.21
8/19/2022	-1.7	2,201,219	-65,590		2,135,629	2,415,170	270,000	85,280	3,850	2,871	14.01
8/20/2022	-1.9	2,458,281	-61,510		2,396,771	2,686,980	270,003	83,928	3,490	2,870	15.52
8/21/2022	-1.9	2,612,313	-65,570		2,546,743	2,888,980	270,003	82,054	3,680	2,870	16.72
8/22/2022	-2.0	1,864,000	-57,520		1,806,480	2,482,120	270,003	84,533	3,620	2,854	14.41
8/23/2022	-1.9	1,565,000	-53,720		1,511,280	1,816,280	270,005	21,149	3,520	2,763	10.41
8/24/2022	-1.9	1,981,594	-54,830		1,926,764	2,215,380	270,003	85,390	3,670	2,762	12.81
8/25/2022	-1.9	1,778,406	-60,380		1,718,026	2,254,940	222,653	85,407	3,620	2,768	13.21
8/26/2022	-1.9	1,762,781	-60,380		1,702,401	1,970,000	125,858	21,858	3,030	2,769	11.21
8/27/2022	-2.0	1,681,219	-62,240		1,618,979	1,920,400	125,238	63,761	3,120	2,772	11.11
8/28/2022	-2.0	2,135,000	-58,340		2,076,660	2,432,320	158,100	84,126	3,030	2,771	14.11
8/29/2022	-2.1	2,013,500	-60,070		1,953,430	2,488,740	210,625	63,402	2,730	2,770	15.01
8/30/2022	-2.1	1,816,906	-58,810		1,758,096	2,107,620	270,003	43,323	2,500	2,857	13.71
8/31/2022	-2.1	1,451,875	-62,380		1,389,495	1,628,500	270,003	63,894	2,370	2,764	10.21
Total	_	68,401,487	Send: 2,344,282	Send: ()	66,057,205	78,559,350	7,619,215	2,389,022	108,850		459
Average	-1.9	2,206,500	Recv: 0	Recv: 0	2,130,878	2,534,173	245,781	77,065	3,511	2,839	

System:	York Water District, J	ork Water District, Josiah Chase Filtration Plant							
PWSID:	91680	Date:	1/17/2023						
Month:	September 2022								

Date	Pond Level	Plant Pumped Finish- Gal	KKW Interconn Transfer-Gal (+/-)	KWD Interconn Transfer-Gal (+/-)	YWD System Total Demand	Raw Water Gal Used	Wash Water Return Gal	Back Wash Used Gal	Plant Water Used	Finish Water Flow	Plant RunHrs
9/1/2022	-2.1	1,847,125	-57,390		1,789,735	2,373,360	27,005	64,017	2,630	2,673	15.21
9/2/2022	-2.1	2,015,094	-60,460		1,954,634	2,360,780	270,003	85,663	2,140	2,680	13.61
9/3/2022	-2.1	1,973,281	-58,810		1,914,471	2,311,420	211,795	21,596	2,440	2,673	13.21
9/4/2022	-2.2	1,916,219	-61,310		1,854,909	2,220,420	143,995	62,988	2,280	2,674	12.81
9/5/2022	-2.2	1,640,281	-43,770		1,596,511	1,933,380	126,350	62,597	1,980	2,683	11.21
9/6/2022	-2.3	1,195,719	-38,090		1,157,629	1,638,600	206,663	42,579	1,630	2,673	10.31
9/7/2022	-2.3	1,480,594	-55,150		1,425,444	1,833,220	186,880	42,654	2,005	2,589	10.51
9/8/2022	-2.4	1,521,813	-65,170		1,456,643	1,841,880	119,533	43,307	2,055	2,687	10.61
9/9/2022	-2.4	1,595,500	-64,010		1,531,490	1,941,080	125,260	45,930	2,130	2,577	11.21
9/10/2022	-2.4	1,594,375	-64,090		1,530,285	1,921,280	124,463	63,324	2,210	2,585	11.01
9/11/2022	-2.4	1,757,625	-67,180		1,690,445	2,381,660	153,278	42,413	2,200	2,592	13.71
9/12/2022	-2.6	1,602,000	-64,210		1,537,790	1,955,380	209,928	43,058	2,090	2,594	11.21
9/13/2022	-2.6	1,283,781	-62,780		1,221,001	1,527,220	173,288	42,480	2,700	2,588	8.81
9/14/2022	-2.6	1,640,500	-65,050		1,575,450	1,999,780	129,638	44,999	1,790	2,828	11.51
9/15/2022	-2.7	1,746,594	-65,170		1,681,424	2,592,760	215,260	84,393	3,130	2,581	15.01
9/16/2022	-2.7	1,821,313	-61,400		1,759,913	2,273,440	270,003	42,711	2,610	2,496	13.01
9/17/2022	-2.7	1,488,500	-59,860		1,428,640	1,870,300	256,873	42,841	2,660	2,490	10.71
9/18/2022	-2.7	1,602,094	-64,530		1,537,564	2,015,900	131,705	65,808	1,700	2,479	11.71
9/19/2022	-2.7	1,330,500	-60,350		1,270,150	1,701,940	108,763	18,860	1,910	2,669	9.71
9/20/2022	-2.7	1,217,406	-60,490		1,156,916	1,752,480	114,300	62,794	2,390	2,475	10.11
9/21/2022	-2.8	1,369,406	-53,090		1,316,316	1,729,960	111,720	42,749	2,080	2,472	10.10
9/22/2022	-2.7	1,227,406	-67,460		1,159,946	1,651,360	187,180	42,824	2,460	2,886	9.51
9/23/2022	-2.8	1,213,875	-53,750		1,160,125	1,535,960	270,005	63,981	1,560	2,488	8.91
9/24/2022	-2.8	1,486,500	-66,070		1,420,430	1,867,500	189,478	20,870	2,410	2,478	10.61
9/25/2022	-2.9	1,377,625	-57,980		1,319,645	1,759,500	115,313	63,088	1,870	2,494	10.31
9/26/2022	-2.9	1,377,000	-69,330		1,307,670	1,977,440	127,238	42,836	1,940	2,493	11.31
9/27/2022	-2.9	1,244,188	-68,540		1,175,648	1,565,160	101,423	42,682	2,560	2,488	9.01
9/28/2022	-2.9	1,460,813	-58,670		1,402,143	1,810,560	115,880	20,904	2,050	2,489	10.31
9/29/2022	-3.0	1,351,000	-66,270		1,284,730	1,850,520	122,520	64,362	2,580	2,488	10.91
9/30/2022	-3.0	1,427,687	-61,760		1,365,927	1,775,880	114,463	21,227	1,930	2,493	10.21
Total		45,805,814	Send: 1,822,190	Send: ()	43,983,624	57,970,120	4,760,203	1,450,535	66,120		336
Average	-2.6	1,526,860	Recv: 0	Recv: ()	1,466,121	1,932,337	158,673	48,351	2,204	2,585	

System:	System: York Water District, Josiah Chase Filtration Plant				
PWSID:	91680	Date:	1/17/2023		
Month:	October 2022				

SOLD KKW	PURCHASE KKW	SOLD KWD	PURCHASE KWD		PLANT PUMPED	Ttl SYS DEMAND
9,698,859	39,645	0	0	SUM:	296,217,413	286,558,199
NET TRANSFER		NET TRANSFER		AVG:	1,609,877	1,557,382
-9,659,214	NET Positive/Neg	0	NET Positive/Neg	MIN:	660,094	383,422
			_	MAX:	3,176,500	2,781,210





#### ONLINE BROKERAGE FIRM COMPARISION

Company Charles Schwab

Fees Online - \$0.00

Representative Assisted - \$25.00

Minimum Balance You must meet a \$250,000 relationship minimum to qualify for a

Schwab Organization Account.

**Protection of Assets** Member of the Securities Investor Protection Corporation (SIPC)

which protects brokerage accounts of each customer up to \$500,000 in securities, including a limit of \$250,000 on claims for cash awaiting

reinvestment

Total aggregate coverage available excess of SIPC policy is \$600

million.

Cyber Security https://www.schwab.com/schwabsafe

Two-step verification

Receive a one-time security code to use with your password each

time you sign in for stronger account protection.

Secure process and procedures

Whether you call, visit a branch or go online, your identity will be

verified before any sensitive information is discussed.

Security alerts

Receive notifications so you'll know immediately when activity occurs in your accounts.

Voice ID

Access your account over the phone by saying the passphrase when prompted. Voice ID is fast, convenient and secure.\*

**Highly-trained specialists** 

Employees who handle sensitive information are trained in privacy and security. Our commitment to the privacy of your personal and financial information can be found here.

Multi-layered technology

Our sites feature encryption and risk-based security technology. These controls, combined with automated alerts, an identity verification process and rigorous monitoring, help defend against

unauthorized account access.

Security Guarantee https://www.schwab.com/schwabsafe/security-guarantee

Schwab will cover losses in any of your Schwab accounts due to unauthorized activity.

Fidelity

Online - \$0.00

Representative Assisted - \$19.95

No minimum account balance.

Member of the Securities Investor Protection Corporation (SIPC) which protects brokerage accounts of each customer up to \$500,000 in securities, including a limit of \$250,000 on claims for cash awaiting reinvestment.

Total aggregate coverage available excess of SIPC policy is \$1 billion.

https://www.fidelity.com/security/our-security-measures

Extra login security using 2-factor authentication (2FA)

To keep your accounts safer, we offer 2FA as an extra layer of security that can be added to your account to restrict someone from logging in—even if they have access to your username and password.

Find out more about 2FA and how it works

Fidelity SimpliSpeakSM

Our newest voice biometric technology verifies you by your unique voiceprint through any microphone-enabled digital device. Learn  $\,$ 

 $more\ about\ Fidelity\ Simpli Speak SM.$ 

Security alert texts

We've enabled email, text, and online notifications for certain transactions to inform you in real time about events that can have a security or fraud impact on your Fidelity accounts. Please make sure your contact information is up to date by visiting your ProfileLog In Required so you don't miss any important communications.

Fidelity MyVoice®

Our voice recognition technology ensures that your calls are more convenient and secure, with no need to enter PINs or passwords.

Learn more about Fidelity MyVoice®

Employee education

We make sure that our employees know and adhere to our security policies. We require periodic training for all personnel, and those who work directly with customers receive extra training on the latest

methods used by criminals to perpetrate identity theft.

Secure email

Send our associates secure, encrypted messages about your accounts once you're logged in to Fidelity.com. Send us a secure messageLog In Required

Strong username and password requirements

We prompt you to create a unique username and password when you first access your account. Learn more about updating your password

https://www.fidelity.com/security/customer-protection-guarantee

Fidelity will reimburse you for losses from unauthorized activity in your Covered Accounts occurring through no fault of your own.

RESOLVED by the Trustees of the York Water District as follows:

Section 1:

That the President of the Board of Trustees, Treasurer, Superintendent, Financial Manager and other officers of the District are, and each of them singly is, hereby authorized and empowered, for and on behalf of **York Water District** (herein called the "Business"), to establish, maintain, and act on this account (which may be a margin account), and each of them hereby is authorized and empowered for and on behalf of this Business, with (**TBD**) and its affiliates (collectively "(**TBD**)") for the purpose of purchasing, investing in, or otherwise acquiring, selling (including short sales), possessing, transferring, exchanging, or otherwise disposing of, or turning to account of, or realizing upon, and generally dealing in and with any and all forms of securities including, but not by way of limitation, shares, stocks, bonds, debentures, notes, scrip, participation certificates, rights to subscribe, options, warrants, certificates of deposit, mortgages, evidences of indebtedness, commercial paper, certificates of indebtedness and certificates of interest of any and every kind and nature whatsoever, secured or unsecured, whether represented by trust, participating and/or other certificates, or otherwise.

The fullest authority at all times with respect to any such commitment or with respect to any transaction deemed by any of the said officers and/or agents to be proper in connection therewith is hereby conferred, including authority (without limiting the generality of the foregoing) to give instructions (whether oral, written, electronic, or otherwise) to (TBD) with respect to said transactions; to borrow money and securities and to borrow such money and securities from or through (TBD), and to secure repayment thereof with the property of the Business; to bind and obligate the Business to and for the carrying out of any contract, arrangement, or transaction that shall be entered into by any such officer and/or agent for and on behalf of the Business with or through (TBD); to pay by checks and/or drafts drawn upon the funds of the Business such sums as may be necessary in connection with any of the said accounts; to deliver securities and contracts to (TBD); to deliver securities to and deposit funds with (TBD ); to order the transfer or delivery of securities to any other person whatsoever, and/or to order the transfer of record of any securities, to any name selected by any of the said officers or agents; to affix the corporate seal to any documents or securities to any name selected by any of the said officers or agents; to affix the corporate seal to any documents or agreements, or otherwise; to endorse any securities and/or contracts in order to pass title thereto; to direct the sale or exercise of any rights with respect to any securities; to sign for the Business all releases, powers of attorney, and/or other documents in connection with any such account, and to agree to any terms or conditions to control any such account; to direct (TBD) to surrender any securities to the proper agent or party for the purpose of effecting any exchange or conversion, or for the purpose of deposit with any protective or similar committee, or otherwise; to accept delivery of any securities; to appoint any other person or persons to do any and all things that any of the said officers and/or agents are hereby empowered to do, and generally to do and take all action necessary in connection with the account, or considered desirable by such officer and/or agent with respect thereto.

- Section 2: That **(TBD)** may deal with any and all of the persons directly or indirectly empowered by the foregoing resolution, as though they were dealing with the Business directly.
- Section 3: That the officers of the Business be and hereby are authorized, empowered, and if requested by (TBD), directed to certify:
  - (a) a true copy of these resolutions;
  - (b) specimen signatures of each and every person by these resolutions empowered;
  - (c) a certificate (which, if required by ( TBD ), shall be supported by an opinion of the general counsel of the Business, or other counsel satisfactory to ( TBD ) that the Business is duly organized and existing, that its operating documents empower it to transact the business by these resolutions defined, and that no limitation has been imposed upon such powers.
- Section 4: That (TBD) may rely upon any certification given in accordance with these resolutions, as continuing fully effective unless and until (TBD) shall receive due written notice of a change in or the rescission of the authority so evidenced and the dispatch or receipt of any other form of notice shall not constitute a waiver of this provision, nor shall the fact that any person hereby empowered ceases to be an officer of the Business or becomes an officer under some other title in any way affect the powers hereby conferred. The failure to supply any specimen signature shall not invalidate any transaction if the transaction is in accordance with authority actually granted.
- Section 5: That in the event of any change in the office or powers of persons hereby empowered, the officers of the Business shall certify such changes to (**TBD**) in writing in the manner herein above provided, which notification, when received, shall be adequate both to terminate the powers of the persons theretofore authorized, and to empower the persons thereby substituted.
- Section 6: That the foregoing resolutions and the certificates actually furnished to (**TBD**) by the Business pursuant thereto be and hereby are made irrevocable until written notice of the revocation thereof shall have been received by (**TBD**).
- Section 7: That the Business and its officers indemnify and hold (**TBD**) harmless from any claim, loss, expense, or other liability for effecting any transactions and acting upon any instructions given by the officers of the Business.

I hereby certify that the foregoing resolutions were adopted by vote of the Board of Trustees at its duly called meeting on April 19, 2023

Richard Leigh Board President

#### **Trustees**

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

Posted April 13, 2023

June 21st Trustee meeting: Staff will present materials for a proposed rate increase.

July 19th Trustee meeting: There will be an agenda item regarding a rate increase for Trustees to consider.

## If Trustees vote to proceed here is the proposed timeline for Rate Case and Hearing

- Rate case is filed with MPUC and Public Advocate 7/24/23.
- Notice goes out to customers and published in local paper 8/14/23.
- Public hearing occurs 9/5/23.
- Tariff sheets are filed with MPUC 9/18/23.
- Deadline for petitions (15% of customers must petition) 10/10/23.
- Rates are issued 10/20/23.
- Rates become effective 01/01/24.

### **Trustees**

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### Administration

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

POLICY: Early Retirement Payout Policy

Effective Dates: xx/xx/xx - xx/xx/xxBOARD APPROVED: xx/xx, 2023.

SUPERSEDES ANY PREVIOUS POLICY

REVISION DATE: April 11, 2023

### <u>Purpose</u>

To establish guidelines for an Early Retirement Payout Policy developed as a succession planning tool that will assist in reducing the cost of benefits and payroll.

### Scope

In an effort to provide an incentive to employees with long-term service to the District that may be considering retirement, eligible employees shall receive, upon retiring, a one-time lump sum payment of \$12,000 only after the policy is approved by the Board of Trustees for a specific term.

### Policy

An eligible employee means the following.

- Having at least twenty-five (25) years of full-time employment with YWD.
- Employee must provide a letter of intent with a minimum of a 3-month notice.
- Employee must retire or separate from full-time employment between the approved effective date and expiration date below (Full-time employment is considered working 32 or more hours per week and receiving benefits).
- Payment would be made at the time of retirement along with reconciliation of any sick or earned time as per the most current Employees Handbook.
- An employee that accepts the early retirement payout cannot participate in the District's retire/rehire plan.

### Effective Date; xx/xx/23

### Expiration Date; xx/xx/24

This policy does not apply to employees who retired or separated from employment before the implementation of this policy or to employees who were forcibly terminated. This policy will be implemented only when warranted and will not be available on a regular basis. It shall not be construed as an automatic or earned benefit and requires Board of Trustee approval to put the policy in place. The Board of Trustees has the right to terminate or discontinue this policy at any time.

### Complaint Procedure

Any concerns about this procedure should be directed to the Superintendent.

# YORK WATER DISTRICT

# YORK WATER NEWS

Volume 26 Issue 4

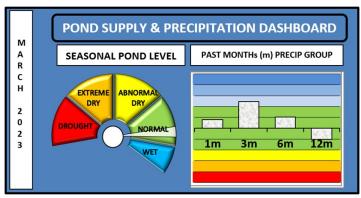
**MEETING DATE: 4/19/2023** 

YEAR	System Total^(MG)	Water Transfers*	Pond Level Assessment (ft)	Precipitation (Assessment)		
2023	22.0	+1.6KKW & -1.0KWD	+0.30 (High Normal)	4.4" (High Normal)		
2022	24.3	0.0	+0.19 (Normal)	2.9" (Low Normal)		
2021	20.9	+1.3 KKW	+0.30 (High Normal)	2.9" (Low Normal)		
2020	19.1	-1.2 KKW	+0.30 (High Normal)	4.0" (Normal)		

<sup>\*</sup> Water Transfers= District & amount (in MG) transferred at interconnection. ^ Total system Demand excluding transfer.

### TREATMENT REPORT

By: Ryan Lynch



This past month, we received just over 4.4 inches of precipitation (as water) which is above the average of 4.0. This continues a good streak of above average precipitation for the past six months which is signified by the white columns being above the middle average line. For the past twelve months group (12m), precipitation continues to be in the normal range (green) but slightly below average. The seasonal pond level is high normal. Water continues to run over the flashboard into the stream. The NOAA outlook for the next several months is still for a high likelihood of normal precipitation.

This month, our pump contractor informed us that the parts needed to complete the installation of the new finish pump, started in November, had been successfully fabricated and were ready. They removed the incorrect support or discharge pedestal, replaced it, and installed the motor onto the stainless shaft that drives the impellers at the bottom of the pump. The motor was wired up to the existing variable frequency drive (VFD) and tested. The pump actually moves slightly more water than the old pump and sounds a little different, but runs well.

Inside this issue:									
Treatment	1-2								
Metering	2								
GIS	3								
Resource Protection	3-4								
Distribution	4-5								
Wellness	5								
Safety	5-6								

Operators completed the installation of two new process turbidimeters to help with continuously measuring the turbidity of partially treated water off the two clarifiers before it is carried to the filters. Maximizing the turbidity removal (clarity) of water off the clarifiers helps the next step filters perform at their best. Previously, we had only one turbidimeter that measured one of the two clarifiers. The two turbidimeter units are supported by a single controller that will display and transmit the continuous data back to SCADA. This project will be wired and completed next month.

This time of year, operators perform cleaning and preventative maintenance on the filters and clarifiers as we are able to turn off one-half of the filtration plant for longer periods of time. Clarifier B was taken off-line and cleaned by power washing, then taken apart fully and new gasket material was installed to hold the plastic filtration media in the basin below the top screen. Operators also power washed the corresponding two filters and replaced old surface water nozzles to improve efficiency.



One of the variable frequency drives that runs a pump at Route One South Pump Station faulted during a power outage this month keeping one of the pumps from running correctly. After some troubleshooting, the drive was able to be reset and the pump came back into service with no issues. We will have to keep an eye on this piece of equipment.

We had one of the bigger snow storms of the winter season this month. Operators responded to an accident on Chases Pond Road across from the dam. A total of three cars ran off the road within severall hours, two hitting each other and a mailbox. Fortunately, the dam was untouched and any fluids from the cars was downstream of the water supply and cleaned up as best was possible.

### METERING REPORT

By: Tom Chase

In March, David read the Beach routes while Chris and I read the Kamstrup meters. We have finally made progress working with Munis to determine the proper layout needed for Chris to build the files necessary for converting the reading information through Kamstrup's READy program into an export file that will merge with our billing software. We also received our own READy converter kit this month, which comes with everything needed (minus the tablets) for two people to be able to read the new meters. We plan to utilize it at the first of the month to read all the newly updated meters within the harbor routes for billing.

David and I both attended the chainsaw safety class at the Resource Protection Office, a Dig Safe excavation seminar, and the Alpha & Macro series of fittings (made by ROMAC) that were demonstrated by E.J. Prescott. We each spent a day separately at the treatment plant shadowing the operators while they performed their daily chemical round checks and water quality sample analysis. While I was there, I also helped to clean Clarifier B and replace the gasket seals before securing the beams and hardware that keep everything from moving back into place.



We finalized all our year-end figures to determine our unaccounted-for water calculations. It resulted in a 9.3% total unaccounted for usage during the 2022 season. We have also installed four new meters this month and changed out 31.

### **GIS REPORT**

By: Todd Hill

Since the early 2000s, the District has been required to export both confidential infrastructure and service area maps. Both maps were required to be submitted in paper and digital format. This export also included the water utilities feature layers as well. In the beginning, all this data would have to be mailed to Maine Public Utilities Commission (MPUC) until about five years ago when the MPUC setup an online portal for digital submissions. Recently, the MPUC sent out an order granting a waiver which will allow water utilities to submit just service area maps for the required Chapter 140 submission. The new docket states as of 3/3/2023 that the MPUC will waive the submission of the infrastructure maps and data and will only require a service area map from the utility. Submissions are required to be uploaded by April 1st of each year.

We were finally able to complete the Sunset Road water main extension estimate this month. This project has been discussed for several years, but thankfully the group involved is ready to get the extension on the schedule. Because we are having issues with acquiring water pipe in a timely manner we suggested that the group pay for the materials now so we can pull a purchase order and get the materials ordered. Because Sunset Road is one of our summer line roads the project will be delayed until the end of October. At this time, the materials have been ordered and the contracts have been signed.

Due to a recent standby change, the distribution staff will be checking three additional sites. These include Simpson Hill Tank, Route One North Pump Station and the Whippoorwill Pump Station. Using ArcGIS Survey123 Connect, which is the program that helps create or update these mobile forms, I was able to make the necessary changes needed so we could continue to use the Survey123 mobile application to collect data from the new sites.

All the construction signs for the Lindsay Road and Moulton Lane water main replacement projects were hung on March 22nd. With the help of Dan Kingsbury, Matt Hutchins, and the Town of York's sign truck, the three of us hung over 25 signs. Three digital sign boards were set up and

turned on weeks before the project started so the traveling public would get familiar with the signs and what they say. The signs that were hung would be covered until the day of the project. Because Lindsay Road was the first project, only those signs were uncovered and the Moulton Lane signs will stay covered until that project starts.

Other projects performed in March include:

- Updated our Dig Safe Month and Work Zone Safety banners.
- Attended a Resource Management Plan meeting at the Resource Protection Office.
- Worked on LSLI updates.
- Helped Zach with Microsoft 365,email, and GIS setup.
- Created shut down maps for Lindsay Road and Moulton Lane in ArcGIS.
- Hyperlinked service and hydrant pictures in ArcGIS.
- Attended monthly cybersecurity meeting and training.
- Attended a lunch and learn with the Town's Code Enforcement, York Sewer District and other York Water District staff.
- Updated the summer line map book.

### RESOURCE PROTECTION REPORT

By: Zachariah Mein

This past month, I have started at the Resource Protection Office as the new manager; training with and working alongside Gary Stevens. We started the month off with a chainsaw safety class that had great participation between York Water District, Kittery Water District (KWD), Mt. Agamenticus staff, and York Land Trust.



The Resource Protection Office was able to secure a Source Water Protection Grant this month that will go towards the upgrade of the Silver Trail near Welch's Pond to the Silver Management Road that will help with access to parts of our watershed as well as KWD watershed that have been more difficult in the past.

We also secured an Asset Security Grant that will offer funds to update our Watershed Management Plan that was last written in 2009. The new Watershed Management Plan, that we have begun the process of updating this month, will give us an outline of future goals and plans for the watershed over the next 10 years. The plan will include but is not limited to trail and road construction, water quality testing, and timber management plans to maintain and better the source water quality of Chase's Pond. Brian Reader will be updating the Forest Management Plan at the same time.

As the weather has begun to warm and the trails

Excessive brush, trees, and branches accumulating alongside the trails due to the winter storms and winds.



are finally clearing of snow, we have started noting specific areas that need attention due to excessive brush, trees, and branches accumulating alongside the trails due to the winter storms and winds. We have started the coordination with the distribution crew to take care of the brush and to collect the hardwood to go towards our contribution to Project Graduation for the next year.

## **DISTRIBUTION REPORT**

By: Webster Ropke

We have completed our winter hydrant checks. There was only one hydrant that had leaked and froze this winter. District crews thawed it out without there being any damage. There were two snowstorms that required District crews to plow and shovel hydrants this month.

District crews ran the temporary lines for our main replacement projects on Lindsay Road and Moulton Lane. Curtis Earthworks has started the Lindsay Road main replacement. Curtis will be replacing the old eight-inch cast iron main with twelve-inch ductile iron. Curtis started by installing three-way valving at the intersection of Lindsay Road and Loving Kindness Way. The three-way valving will allow sections of the main to be shut off individually. The valves come into use also when we do our annual flushing. At this intersection there is an eight-inch valve that ties into the eight-inch main going to the hospital. There are two twelve-inch on either side of the tee that tie into the new twelve-inch main. The District hired Henniker Directional Drilling to bore across Lindsay Road to install a two-inch sleeve for a one-inch service line. Curtis dug an insertion pit and an exit pit for them. Boring across the road's least disruptive way to excavate. The distance was 160 feet. When Curtis makes the tap for the service line they will slide the service line through the sleeve and connect the homeowners waterline.

The District hired Henniker Directional Drilling to bore across Lindsay Road to install a two-inch sleeve for a one-inch service line.



# Three-way valving at the intersection of Lindsay Road and Loving Kindness Way.



On Monday, March 20th, we started annual spring main line flushing. Flushing water mains improves water quality by removing sediment that slowly builds up over time. We do unidirectional (UDF) flushing. UDF isolates each pipeline to create flow in a single direction to efficiently clean the pipe. By concentrating flow, UDF creates higher velocities that are better able to clean the pipe. Our flushing starts on the transmission main coming from the treatment plant to Route One. From Route One we work our way to the north side of the system to the Cape Neddick area. Once this area is completed, we work our way through the southern half of the system. The main line flushing takes four weeks to complete. Most of the flushing takes place during the day with several days going late into the night. As soon as the main line flushing is complete, we start flushing dead ends. There are 160 dead ends. Dead ends take approximately eight weeks to complete.



### **WELLNESS REPORT**

By: Karen Hale

## **Good Sleep for Good Health**

A good night sleep of 7 to 8 hours, can help you think more clearly, have better focus, and lower risk for diseases like cardiovascular disease and diabetes. Here are a few tips to help get a better night's sleep.

- Create a good sleeping environment. Make the room dark. Silence your cell phone. Keep the temperature cool if possible.
- Stick to a sleep schedule, even on the weekends.
- Avoid nicotine and caffeine. Caffeine can take 6 to 8 hours to completely wear off.
- Don't take naps after mid-afternoon.
- Limit electronics before bed.
- Avoid large meals before bedtime.
- Go outside. Try to get at least 30 minutes of natural sunlight each day.
- See your health care provider if nothing you try helps.

# TRAINING & SAFETY COMMITTEE REPORT

By: Tom Chase

We held our first T.A.S.C. meeting of 2023 in March, which began by discussing nominations for new members. Robbie and Karen joined the committee in February of 2019, so we wanted to rotate in some new members to help inspire all employees to become engaged with enforcing safe work practices. Joining the committee next month will be Dan Hiner from the Distribution Crew and Zach Mein from the Resource Protection Office, who will both help to add some new perspectives.

Everyone had an opportunity to utilize Maine Municipal Association's new training website (NeoGov) this month and we discussed some of the pros and cons. The program was relatively friendly to the employee by clearly displaying the list of assigned training on the user dashboard with due dates for completing them. For the administrator assigning the training, the largest benefit was being able to see all the progress from other users as well as maintaining a training history for everyone in one location. The biggest

downfall was that the only option to assign trainings was to select each program and assign them one at a time to each employee, or to assign each program to all employees in one step (meaning that some training not relevant for certain positions could be assigned). With the latter option taken, and some mixed reviews received, we are hoping to find a workaround to help streamline this process for the administrator.

We looked through Maine Municipal Employees Health Trust's training packet that Karen provided to make selections on wellness courses that we will host during the 2023 season. She is going to inquire about date availability for our selections so we can get them scheduled and send out invitations to the employees. We agreed that Karen should continue to manage the Wellness training aspect for the District, and she will attend the first T.A.S.C. meeting of each year so we can assist her in the course selection process. We also discussed some proposed changes to the language regarding emergency brake use and wheel chocks in part of the vehicle use policy, which were ultimately accepted in the final revisions.

Our next meeting will be held in June of 2023 (date and time to be determined).

### MARCH BILLING

York Beach Route

2023	Usage(cf)	Revenue	Customers
Residential	1,148,600	\$180,777	1,834
Commercial	237,900	\$24,410	90
Governmental	4,300	\$3,523	8

2022	Usage(cf)	Revenue	Customers
Residential	1,374,900	\$190,992	1,817
Commercial	234,600	\$26,283	93
Governm ental	4,900	\$3,523	8

# WATER QUALITY REPORT

REPORT DATE: 4/3/2023

AVERAGE PLANT FINISH WATER QUALITY RESULTS (Last 30 Days Before Report Date- Above)										
Avg Daily Gals Pumped	Avg Daily Gals Pumped Avg TEMP Avg Turb Avg pH AvgFreeCl2 Avg TtlCl2 Avg Ortho Current Lvl Avg Pond Lvl Min Pond Lvl Max Pond Lvl									
712,604 40 0.08 9.09 0.12 2.24 1.51 0.22 0.30 0.20 0.62										

PLANT FINISH WATER Q	PLANT FINISH WATER QUALITY RESULTS										
TEST DATE	Temp F	Turbidity	рН	Free Cl2	Total Cl2	Ortho	Alkalinity	Color	Manganese	Iron	Aluminum
3/28/2023	42	0.07	9.12	0.07	2.40	1.53	15	3	0.045	0.06	0.043
3/21/2023	40	0.11	9.17	0.11	2.30	1.50	17	3	0.038	0.03	0.048
3/16/2023	39	0.08	9.04	0.26	2.30	1.58	16	2	0.043	0.07	0.029
3/8/2023	38	0.09	9.09	0.29	2.10	1.51	20	1	0.045	0.03	0.073
3/2/2023	38	0.09	8.86	0.09	2.20	1.49	14	2	0.051	0.04	0.019
AVERAGE RESULTS:	39	0.09	9.06	0.16	2.26	1.52	16	2	0.044	0.05	0.042
TREATMENT TARGET PA	RAMETERS:	<0.3	9.0	<0.10	2.0-2.5	>=1.5	>10	<5	<0.05	<0.05	<0.05

ROUTINE DISTRIBUTION WATER QUALITY RESULTS											
Sample Site	Date	Turbidity	рН	Free Cl2	Total Cl2	Ortho	Alkalinity	Color	Manganese	Iron	Aluminum
Route 1 at Pine Ledge Motel S	3/28/2023	0.08	8.73	0.07	2.60	1.24	16	3	0.010	0.040	0.022
									1		
Route 1 at Pine Ledge Motel S	3/21/2023	0.06	7.90	0.12	2.80	1.16	14	3	0.012	0.030	0.024
Route 1 at Pine Ledge Motel S	3/16/2023	0.10	8.76	0.09	3.10	1.23	24	2	0.009	0.100	0.026
Route 1 at Pine Ledge Motel S	3/8/2023	0.12	8.80	0.17	3.20	1.26	17	1	0.017	0.040	0.039
Route 1 at Pine Ledge Motel S	3/1/2023	0.07	8.96	0.27	3.10	1.46	18	1	0.002	0.040	0.015
Route 1 North Pump Station	3/28/2023	0.13	9.14	0.06	2.70	1.16	22	3	0.007	0.030	0.113
Route 1 North Pump Station	3/21/2023	0.08	8.68	0.12	2.80	1.04	17	2	0.012	0.010	0.021
Route 1 North Pump Station	3/16/2023	0.08	9.11	0.06	2.70	1.19	18	1	0.006	0.100	0.010
Route 1 North Pump Station	3/8/2023	0.12	9.01	0.22	3.10	1.22	18	1	0.028	0.030	0.054
Route 1 North Pump Station	3/1/2023	0.07	9.29	0.16	3.00	1.20	17	1	0.009	0.040	0.000
Route 1 South Pump Station	3/28/2023	0.08	8.95	0.06	2.00	1.53	15	3	0.013	0.050	0.044
Route 1 South Pump Station	3/21/2023	0.09	8.91	0.09	1.90	1.50	16	5	0.025	0.080	0.037

TARGET MIN/MAX PARA	METERS:	<0.3	8.0-9.2	<0.10	>>1.0	>=1.0	>10	<5	<0.10	<0.10	<0.10
AVERAC	GE RESULTS:	0.09	8.83	0.10	2.40	1.39	17	2	0.014	0.048	0.040
York Water District Office	3/1/2023	0.08	8.75	0.06	1.80	1.63	13	2	0.013	0.060	0.044
York Water District Office	3/8/2023	0.07	8.89	0.14	1.80	1.63	15	3	0.024	0.020	0.057
York Water District Office	3/16/2023	0.08	8.66	0.05	1.80	1.57	15	3	0.010	0.000	0.038
York Water District Office	3/21/2023	0.13	8.85	0.09	2.00	1.55	16	4	0.025	0.060	0.049
York Water District Office	3/28/2023	0.07	8.90	0.05	1.90	1.55	16	2	0.015	0.020	0.046
Route 1 South Pump Station	3/1/2023	0.09	8.86	0.05	1.90	1.57	14	2	0.019	0.090	0.040
Route 1 South Pump Station	3/8/2023	0.09	8.61	0.07	1.90	1.54	15	3	0.027	0.050	0.077
Route 1 South Pump Station	3/16/2023	0.14	8.89	0.05	1.90	1.57	17	3	0.005	0.070	0.050

ROUTINE BACTERIA MONITORING PERFORMED (None if Empty)										
Sample Site	Date	Turbidity	рН	Free Cl2	Total Cl2	Ortho	Alkalinity	Temp	Total Coliform	
South Side Road Near Blaisdell Farm	3/6/2023	0.12	9.08	0.07	1.90	1.59	15	5.2	ABSENT	
Route 1 @ River Bend Road	3/6/2023	0.10	8.76	0.06	2.00	1.56	15	5.0	ABSENT	
Yorkshire Commons @ York Street	3/6/2023	0.09	8.81	0.06	1.90	1.56	15	4.2	ABSENT	
Ridge Road Across from Coastal Ridge Elemen	3/6/2023	0.06	8.67	0.08	1.90	1.52	15	4.3	ABSENT	
Webber Road Near Ridge Road (73 Webber)	3/6/2023	0.11	8.70	0.09	1.90	1.54	16	4.4	ABSENT	
Route 1 @ Old Post Road (Tranmission Line)	3/6/2023	0.12	8.54	0.09	2.10	1.51	16	3.6	ABSENT	
White Pine Pump Station Near Route 1	3/6/2023	0.06	8.64	0.07	1.90	1.58	15	5.5	ABSENT	
Route 1 @ Mr. Mikes Convenience Store	3/6/2023	0.11	8.72	0.07	2.20	1.51	15	4.2	ABSENT	
Organug Road @ Indian Trail	3/13/2023	0.09	8.80	0.05	1.90	1.57	16	4.9	ABSENT	
Seabury Road Near Route 103	3/13/2023	0.10	9.14	0.06	1.70	1.61	16	4.9	ABSENT	
Stageneck Road @ Harbor Beach Road	3/13/2023	0.08	8.94	0.06	1.90	1.56	16	5.6	ABSENT	
Route 1A @ Roaring Rock Road	3/13/2023	0.09	8.99	0.06	2.10	1.72	17	5.4	ABSENT	
Long Beach Ave Across From Long Beach Bath	3/13/2023	0.08	8.94	0.06	2.10	1.53	16	5.4	ABSENT	
Nubble Road at Sewer Pump Station	3/13/2023	0.10	9.12	0.06	1.90	1.54	17	6.0	ABSENT	
Route 1A @ York Senior Center formerly YPD	3/13/2023	0.08	9.01	0.07	2.00	1.64	16	5.1	ABSENT	

Average:	0.09	8.86	0.07	1.96	1.57	16	4.9
Minimum:	0.06	8.54	0.05	1.70	1.51	15	3.6
Maximum:	0.12	9.14	0.09	2.20	1.72	17	6.0