



Ensure Financial Stability	
Reconciled Bank Account Balances	Refer to attached Reconciled Bank Account Balances as of 4/30/2022.
Monthly Financial Statements	Provided separately to Board of Directors.
Monthly Financial Dashboard	Provided separately to Board of Directors.
AP Check Reconciliation Register	Provided separately to Board of Directors.
Capital Improvement Projects for Drinking Water	Provided separately to Board of Directors.
Capital Improvement Projects for Wastewater	Provided separately to Board of Directors.
Grant Management	Refer to attached <i>Grant Management Report</i> .
Ensure Revenues are Consistent with System Usage	
Water Shut-offs	There were 37 water shut-offs for non-payment, 24 were turned back on after payment, and 47 service shut-off requests.
Repair/Replace Meters/MXUs/Batteries	Drinking Water Distribution staff replaced 25 water meters, replaced 65 batteries, and 18 MXUs.
Reduce Wet Weather Impacts to Infrastructure, Community, and Receiving Waters	
Negotiate with PADEP/U.S. EPA/DOJ on Past and Future Practices	CRW and USDOJ/U.S. EPA/PADEP are finalizing the Draft Partial Consent Decree Modification for public comment.
Develop Necessary Planning for Implementation of Green Infrastructure	Phase 4 PENNVEST SW Pro-Fi GSI project package is in the bidding phase. Bids are due 6/21/2022 and the construction contract is anticipated for award at the July Board Meeting. In coordination with this project package, several GSI Easement Agreements are being executed with the Community Partners - Harrisburg Redevelopment Authority and the Boys & Girls Club of Harrisburg (<i>See Issue Briefs</i>).
Joint Pollutant Reduction Plan -Collaborate with Suburban Partners on MS4	The Paxton Creek Cooperative (CRW, Lower Paxton Township, and Susquehanna Township) meet monthly to coordinate the implementation of our Joint Pollution Reduction Plan (PRP). We are continuing to advance our partnership with PennDOT to increase the pounds of sediment reduction on the Paxton Creek Sediment Reduction project contract.
Obtain and Comply with Individual MS4 Permit	No update.
Operate Facilities with a High Standard of Care	
Permit Compliance	The Drinking Water department met all primary and secondary Safe Drinking Water Act permit parameters for the month. AWTF met all required NPDES monthly permit parameters in April. No Dry Weather Overflows or Sanitary Sewer Overflows were reported.
Notice of Violations (NOVs)	There were no NOVs received by the Drinking Water department in April. There were no NOVs received by the Wastewater department in April.
Preventative Maintenance	The Drinking Water Maintenance group conducted all scheduled preventative maintenance for the month to the water treatment plant equipment. Specific facility maintenance activities are outlined within the Drinking Water Department Monthly Report. The Wastewater department completed all regularly scheduled preventative maintenance in the month of April.
CCTV	A total of 1,083 feet (0.21 miles) of sewer pipe were assessed by CCTV footage during the month of April. A total of 1,450 feet (0.27 miles) of pipe were flushed as well. Most CCTV activity was focused on post-CCTV assessment of small segments of pipe contracted for repair to note defects.

Incident Response	Wastewater responded to eight backup and overflow calls from residents during the month of April. CRW was liable for none.
Geographic Information System (GIS)	<ul style="list-style-type: none"> • Refresher training for use of the Trimble unit to GPS assets along the mountain line was provided to the DeHart Dam staff. • Twenty-three (23) Pennsylvania One Call tickets were completed. • Twenty (20) tickets required the creation of a map and three (3) had no CRW assets in the project area. • Assisted Asset Management with the Cityworks server upgrade and functionality testing. • GIS Manager joined the Operators Challenge team. Weekly practices have begun. • GIS participated in the 10th Annual Great Harrisburg Litter Cleanup on 4/23/2022.
Cityworks	[REDACTED]
Asset Management	Task Order 2022-04-02 Asset Management Quick Win Activities are in progress and on schedule. Front Street Pumping Station inventory pilot is scheduled for 5/17 - 5/18/2022. Asset management roadmap update presentation created and presented during the 2nd quarterly employee meeting. Innovyze InfoAsset Planner is in phase of <u>data gap analysis and closure plans</u> .
Development Review Summary	For details, see attached <i>Development Stormwater Management Review Summary</i> spreadsheet for May.

Undertake Capital Improvement Projects - Refer to attached Capital Improvement Projects Report

Professional & Contractor Services	<p>Recommend Board approval of the following Task Orders, Change Orders and Agreements:</p> <p>Drinking Water: 2022 Water System Improvements Project - Recommendation of Award [REDACTED] Task Order 2022-12-01: Forest Management Services [REDACTED] Timber Product Harvest/Sale – Recommendation to Reject Bids</p> <p>Wastewater: Task Order 2022-14-01: Engineering Services for Sewer Pipe CCTV Inspections - Phase 6 [REDACTED] Front Street Interceptor Rehabilitation Phase 2 Project - Recommendation of Award [REDACTED] Sewer and Water Maintenance Contract (Excavation No. 2) - Recommendation of Award [REDACTED]</p> <p>Stormwater: Resolution No. 2022-011 GSI Easement Agreement with [REDACTED] (4th & Peffer Streets) Resolution No. 2022-012 GSI Easement Agreement with [REDACTED] (15th & Hunter Streets) Resolution No. 2022-013 GSI Easement Agreement with [REDACTED]</p>
Stormwater O&M Agreements	<p>Recommend Board approval of the following: None.</p>
AWTF Primary Digesters Rehabilitation	The contractor will install the foam insulation by early June. Startup of Digester No. 1 is expected to begin in June.
AWTF Energy Recovery Improvements	Permit applications are being reviewed by Swatara Township and PADEP.
Front Street Pumping Station Improvements	The contractors are addressing punch list items and site cleanup.
WSC Flocculator Equipment Replacement	The contractor is providing equipment submittals for engineer's review.

Undertake Renewal and Replacement Projects	
2020 Sewer System Improvements	One cured-in-place lining segment on Kittatinny Street is scheduled for late May. Punch list items and final paving remains.
2021 Sewer System Improvements	The contract will be terminated on 5/25/2022. CRW is working with the engineer to close out the contract and rebid as soon as possible.
2021 Water System Improvements	The contractor is working at the Derry-Mulberry Street location and performing final paving.
2022 Water System Improvements	Bids were opened 5/2/2022. Refer to the Board agenda for a recommendation of award.
Cameron Street Water Main - Phase 3	The contractor is expected to complete final pavement restoration at the end of May.
Arsenal Boulevard Sewer Improvements	Permit applications submitted to PADEP in March 2022 are still under review.
Front Street Interceptor Rehabilitation - Phase 2	Bids were opened 4/28/2022. Refer to the Board agenda for a recommendation of award.
Water Facility Maintenance	Drinking Water maintenance staff performed repairs to various process units as described in the Drinking Water Department Monthly Report.
Wastewater Facility Maintenance	The Wastewater Maintenance group completed various repairs throughout the AWTF and pumping stations throughout the month of April. A narrative is provided in the Wastewater Department Monthly Report.
Sinkhole Program	Seven (7) sinkholes were investigated by CRW in the month of April. None were the fault of Capital Region Water.
Inlet Cleaning	A total of 135 stormwater inlets were cleaned during the month of April, and 130 stormwater inlet inspections were performed.

Operate as an Efficient, Sustainable and Resilient Water Utility	
DeHart Property Stewardship	<p>Timber harvest to improve regeneration continues in Management Unit (MU) 22/31 in accordance with the DeHart Property Forest Management Plan.</p> <p>Notice to proceed was provided to All Terrain Logging, LLC for a regeneration harvest in MUs 20, 34, 36, and 37 (approximately 155 acres); haul road improvements have been completed.</p> <p>It is recommended that bids for a regeneration harvest in MU24 are rejected. <i>See related Issue Brief.</i></p>
Sustainability	No update.
Internal Communications	The Intranet site and calendar continue to be utilized. Annual staff picnic was hosted on 4/27/2022.

Inform and Listen to Customers and Encourage Stewardship of our Systems	
Media Relations - Press and Social Media	<p>PRESS RELEASES: CAPITAL REGION WATER'S 2021 SEMI-ANNUAL REPORT ON CONSENT DECREE IMPLEMENTATION NOW AVAILABLE (4/12/2022) CAMP CURTIN YMCA AND CAPITAL REGION WATER BREAK GROUND ON BIG GREEN BLOCK STORMWATER MANAGEMENT PROJECT (4/29/2022)</p> <p>SOCIAL MEDIA TOPICS:</p> <p>Facebook: 14 New Organic Followers (1,432 Total). 13 Posts; Highest Engaged Post: (4/28/2022) "Employee of the Month- Jermaine Taylor." (453 Post Clicks; 672 Reactions, 32 Comments, 59 likes/loves & 15 Shares; 5,388 Organic Reach); Other topics: Water Week (5 posts), Ceisler Media litter clean-up, BWA Advisory & Lift, Earth Day, Financial Assistance posts.</p> <p>FACEBOOK LIHWAP AD created 2/3/2022: 5,713 Paid Reach; 189 clicks, Spend-to-date: \$76.60.</p> <p>Twitter: 4 Tweets; Highest Engaged Tweet: "BWA Advisory" (81 Impressions; 1 Likes, 1 Retweets) Month overview: 1,174 total Impressions; 1,127 Profile Visits; 1 New Followers; 6 Mentions.</p> <p>Instagram: 2 New followers (663 Total), 9 Posts; Highest Engaged Post: (4/25/2022) "Water Week: DeHart Post" 68 Organic Reach, 5 likes, 1 comment.</p> <p>2022 Demographics: Most Active Age-range: 25-54; Gender division: 62% women/37% Men; Locations: Harrisburg, Penbrook, Mechanicsburg, Steelton, Linglestown, Camp Hill and Lancaster.</p>

Community Relations	<p>Community Ambassador Meeting held 4/20/2022: Presenter: Jess Rosentel discussed Biobot chart. Updates: Community Litter Cleanups, Community events, tours and Community Ambassador Recruitment. Open items: construction projects, CRW job openings, and community ambassador concerns and updates.</p> <p>Community Outreach:</p> <ul style="list-style-type: none"> • Delivered 162 door-to-door notifications re: water service interruptions, sewer line repairs, sewer maintenance, Fats, Oil & Grease (FOGs) and boil water advisory and lifts. • Two (2) Everbridge emergencies for water service interruptions resulting in boil water advisories and lifts. Two (2) confirmations received from the 60 customers that were alerted. • Daily CSO inspections and Everbridge customer updates. • Four (4) community meetings and three (7) community litter clean up events. Three (3) on-site construction project meetings, and four (2) in-person customer complaint follow-ups.
Public Communications	<p>WHAT'S ON TAP COMMUNICATION: The April monthly bill stuffer was distributed as a bill insert. Topics included: "Hydrant Flushing": All information on timing and what to do after flushing has happened in your area.</p>
Diversity	<ul style="list-style-type: none"> • On 4/23/2022, the Business Diversity Manager volunteered for the 10th Annual Great Harrisburg Litter CleanUp with Tri-County Community Action as a driver. • On 5/10/2022, attended and participated in the American Water's 4th Annual Supplier Diversity Summit. This was an excellent opportunity to network and build CRW's Business Diversity Program. • On 5/12/2022, the Business Diversity Program Manager reviewed CRW's draft 5-year plan in the M/W/DBE & Outreach Committee meeting. • Collaborative meeting with 3N Consulting and HRG for the purpose of discussing new opportunities.
Administrative	
Risk Management	No update.
Human Resources	• Recruiting: Refer to <i>Recruiting Status Report</i> attached.
Procurement	<p>Ongoing projects include:</p> <ul style="list-style-type: none"> • AWTF assessment of inventory on hand for hardware and consumables will look to resume in April. • First phase of inventory has been extended until the end of July to build more usable data (due to COVID).

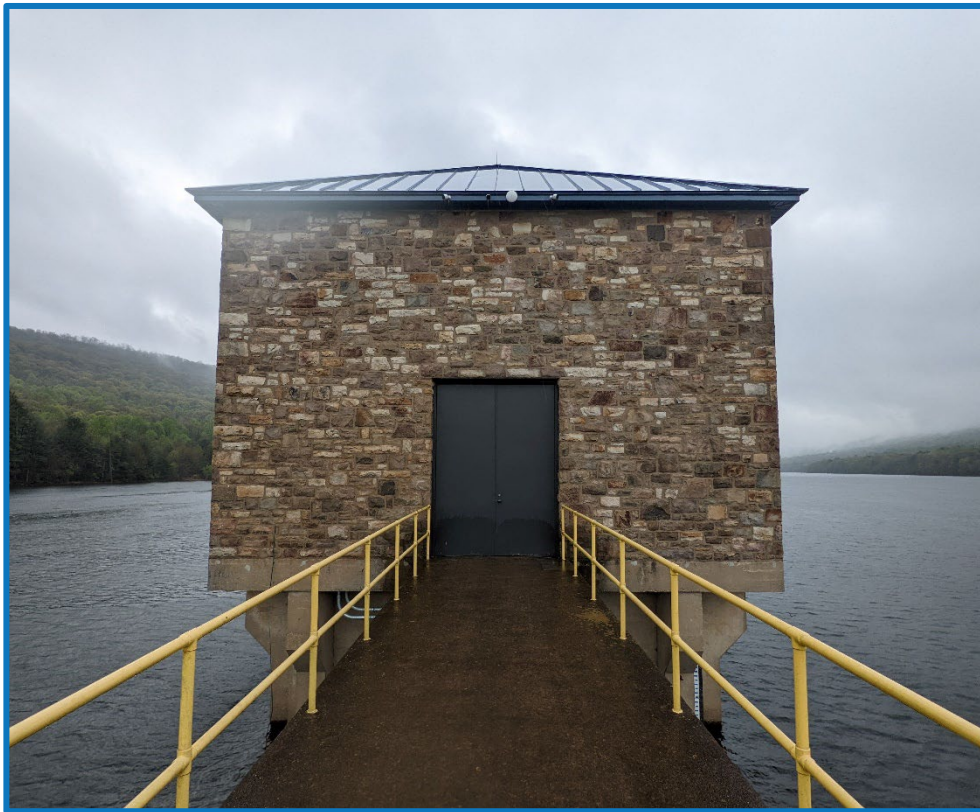
Information Technologies (IT)	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>
Office Management and Admin Professional Services and Construction	<p>Incoming Correspondence Report: Refer to attached <i>Incoming Correspondence Report for April 2022</i> .</p> <p>Street/Sidewalk-Cut Permits: Six Drinking Water and eight Sewer Permits were successfully completed, inspected, and closed by the City of Harrisburg Engineer.</p> <p>Recommend Board approval of the following:</p> <ul style="list-style-type: none"> • Purchase of (C-95) Service Body Upfit for the 2023 International MV607 SBA Main Break Truck from [REDACTED] for the Drinking Water Department.
Right-to-Know Requests	<p>CRW has received and responded to two Right-to-Know requests during the period 4/21/2022 through 5/18/2022. Other informational requests were identified as not being formal RTK requests throughout the month and/or were transferred to the Customer Service Center for appropriate response.</p> <p>2022-007 - Stefanie Kebede A list of residential properties that have had their water shut off for the last six months in Dauphin County. Response due: 5/11/2022. Response provided: 5/10/2022.</p> <p>2022-008 - Carolina Barrios (SmartProcure) Requested any and all purchasing records from 1/4/2022 to current. The request is limited to readily available records without physically copying, scanning or printing paper documents. Any editable electronic document is acceptable. Specific information requested from your recordkeeping system is: (1) Purchase order number. If purchase orders are not used a comparable substitute is acceptable, i.e., invoice, encumbrance, or check number. (2) Purchase date. (3) Line item details (detailed description of the purchase). (4) Line item quantity. (5) Line item price. (6) vendor ID number, name, address, contact person and their email address. Response due: 5/24/2022. Response provided 5/19/2022 for 30-day extension until 6/24/2022.</p>



CAPITAL REGION

WATER

**DRINKING WATER DEPARTMENT
MONTHLY REPORT**



DeHart Dam Intake Tower

April 2022

100 Pine Drive, Harrisburg, PA 17103 | 888-510-0606
capitalregionwater.com

Plant Operations

The Capital Region Water (CRW) Drinking Water department met all Federal Safe Drinking Water Act water quality standards for the month of April. Specific water quality results are summarized in Exhibit A. A total of 212.62 MG, averaging 7.08 MGD was withdrawn from the water supply source for treatment. As shown in Exhibit B, a total of 209.25 MG, averaging 6.97 MGD, of finished drinking water was pumped to the distribution system.

The DeHart water source was in service 30 days. The Susquehanna River water source was not in service. The DeHart Watershed had above average rainfall in April (Exhibit C) and the DeHart reservoir water level increased (Exhibit D). An estimated 1,587.74 MG of water was released from DeHart reservoir to Clark Creek, averaging 52.92 MGD for the month. This downstream flow, which is received by remote flow monitoring from the weir location and actual staff gauge readings, was in compliance with the flow required by the State Water Allocation Permit (Exhibit E).

Plant Maintenance

The Maintenance team performed approximately 55 preventative maintenance work orders and four corrective maintenance work orders for the month of April using the Cityworks maintenance management system for all water treatment plant equipment, pumping stations and fleet vehicles and corporate offices.

- The Maintenance team continues to follow COVID-19 morning temperature requirements and masking protocols.
- The DeHart Dam watershed was patrolled daily and maintained.
- The Maintenance and Distribution team installed two 8-inch saddles with 1.5-inch outlets and ball valves for the new soda ash feeders.
- The Maintenance team relocated the raw water turbidimeter from the valve control building to the basement of the control room building.
- The Maintenance team continues to support the requests and work orders for the NFS offices.
- The Maintenance team continues working on the DeHart Dam Distribution Mountain Line by installing markers, clearing of blow-off pits for ease of access and locating pits on GIS.
- The Maintenance team continues to service and repair the maintenance and distribution fleet.

Distribution

The Distribution group, while keeping up with the COVID-19 pandemic safety requirements, managed to:

- Repair one water main break during the month totaling 71,360 gallons of unmetered water for the month of April.
- Repair three leaking services during the month totaling 573,408 gallons of unmetered water for the month of April.
- Repair one fire hydrant.
- Hydrant flushing begun April 11 with 308 hydrants being flushed through the Month of April.
- Complete 348 work orders.
- Complete 564 water, sewer, and storm water locates.
- Work with contractors on several water, sewer, and storm water capital improvement projects.
- Continuing with leak detection.

Water Quality

In addition to overseeing the operation of both the accredited and process laboratories, the Water Quality Administrator also:

- Ensured collection of regulatory samples for total coliform and E. coli, THM/HAA, TOC and alkalinity.



CAPITAL REGION™

WATER

Drinking Water Exhibits

EXHIBIT A Water Quality Analysis - 2022

PARAMETERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average	MCL Limits
Total Coliform: Presence/Absence														
Distribution System	A	A	A	A										5% P
Chlorine Residual, mg/L Free														
Filter Plant Effluent	1.94	2.03	1.98	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.98	0.2 - 4.0
Distribution System	1.27	1.35	1.32	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	<0.02
Turbidity, NTU														
Influent from DeHart	0.57	0.55	0.61	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	NA
Influent from Susquehanna	NA	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	NA
Filter Plant Effluent	0.04	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.30
pH, Std Units														
Influent from DeHart	6.4	6.3	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.31	NA
Influent from Susquehanna	NA	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	NA
Filter Plant Effluent	7.4	7.5	7.5	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.50	6.5 - 8.5*
Distribution System	7.6	7.7	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.63	6.5 - 8.5*
Total Alkalinity, mg/L as CaCO3														
Influent DeHart	5	5	5	5	0	0	0	0	0	0	0	0	5.00	NA
Influent from Susquehanna	NA	NA	NA	NA	0	0	0	0	0	0	0	0	N/A	NA
Filter Plant Effluent	13	18	16	15	0	0	0	0	0	0	0	0	15.54	<15*
Distribution System	15	17	15	16	0	0	0	0	0	0	0	0	15.53	<15*
Temperature, degrees C														
Influent from DeHart	6.6	6.0	7.4	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.38	NA
Influent from Susquehanna	NA	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA
Filter Plant Effluent	7.0	6.9	8.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.15	NA
Distribution System	15.3	12.9	13.3	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.03	NA
Fluoride, mg/L														
Filter Plant Effluent	0.57	0.58	0.57	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	2
Aluminum, mg/L														
Filter Plant Effluent	0.10	0.22	0.23	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.2*
Iron, mg/L														
Influent from DeHart	0.62	0.13	0.10	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	NA
Influent from Susquehanna	NA	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
Filter Plant Effluent	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.3*
Distribution System	0.13	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.3*
Total Dissolved Solids, mg/L														
Influent from DeHart	13	13	14	15	0	0	0	0	0	0	0	0	14.02	NA
Influent from Susquehanna	NA	NA	NA	NA	0	0	0	0	0	0	0	0	N/A	NA
Filter Plant Effluent	37	38	41	44	0	0	0	0	0	0	0	0	39.88	500*
Distribution System	39	40	38	45	0	0	0	0	0	0	0	0	40.70	500*
Total Hardness, mg/L														
Influent from DeHart	8	8	8	8	0	0	0	0	0	0	0	0	8.00	NA
Influent from Susquehanna	NA	NA	NA	NA	0	0	0	0	0	0	0	0	N/A	NA
Filter Plant Effluent	8	8	8	8	0	0	0	0	0	0	0	0	8.00	NA
Distribution System	8	7	7	6	0	0	0	0	0	0	0	0	7.00	NA
Orthophosphate, mg/L														
Filter Plant Effluent	1.20	1.15	1.40	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.7 - 1.3*
Distribution System	1.23	1.14	NA	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.7 - 1.3*
**Total Trihalomethanes, ug/L														
Distribution System	0.035	NA	NA	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.04	0.080
**Total Haloacetic Acids, ug/L														
Distribution System	0.033	NA	NA	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.03	0.060
Total Organic Carbon, mg/L														
Influent from DeHart	3.00	NA	NA	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	NA
Influent from Susquehanna	NA	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	NA
Filter Plant Effluent	1.50	NA	NA	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	NA
Average Filter Run, Hours	114	116	116	115	0	0	0	0	0	0	0	0	115.25	NA

*** Not Available at Time of Report

* Values are related to DEP Secondary MCL

** Running Annual Quarterly Average

EXHIBIT B

Water Production Data - 2022

DeHart Withdrawal		River Withdrawal		Total Withdrawal		Treated Water		Process Water		Finished Water		
Month	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)
January	230.675	7.441	0.000	0.000	230.675	7.441	235.985	7.612	4.634	0.149	228.344	7.366
February	230.134	8.219	0.000	0.000	230.134	8.219	233.393	8.335	5.266	0.188	224.570	8.020
March	225.723	7.282	0.000	0.000	225.723	7.282	233.913	7.546	6.770	0.218	223.545	7.211
April	212.629	7.088	0.000	0.000	212.629	7.088	218.666	2.289	6.006	0.201	209.256	6.975
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	899.161		0.000		899.161		921.957		22.676		885.715	
Average	224.790	7.508	0.000	0.000	224.790	7.508	230.489	6.446	5.669	0.189	221.429	7.393

Peak Day Water Use
Minimum Day Water Use

5/31/2020
5/1/2020

6.966
6.081

(MG) = Million Gallons
(MGD) = Million Gallons per Day

EXHIBIT C

Rainfall at the DeHart Reservoir - 2022
(inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
2022 Total	2.74	3.14	1.67	5.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.58
Daily Average	0.080	0.113	0.150	0.168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.511
Ten Year Average	3.37	2.572	3.62	4.68	4.138	5.112	4.81	4.154	5.72	5.37	3.83	4.21	51.586
2021 Total	2.74	5.88	7.55	12.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.75

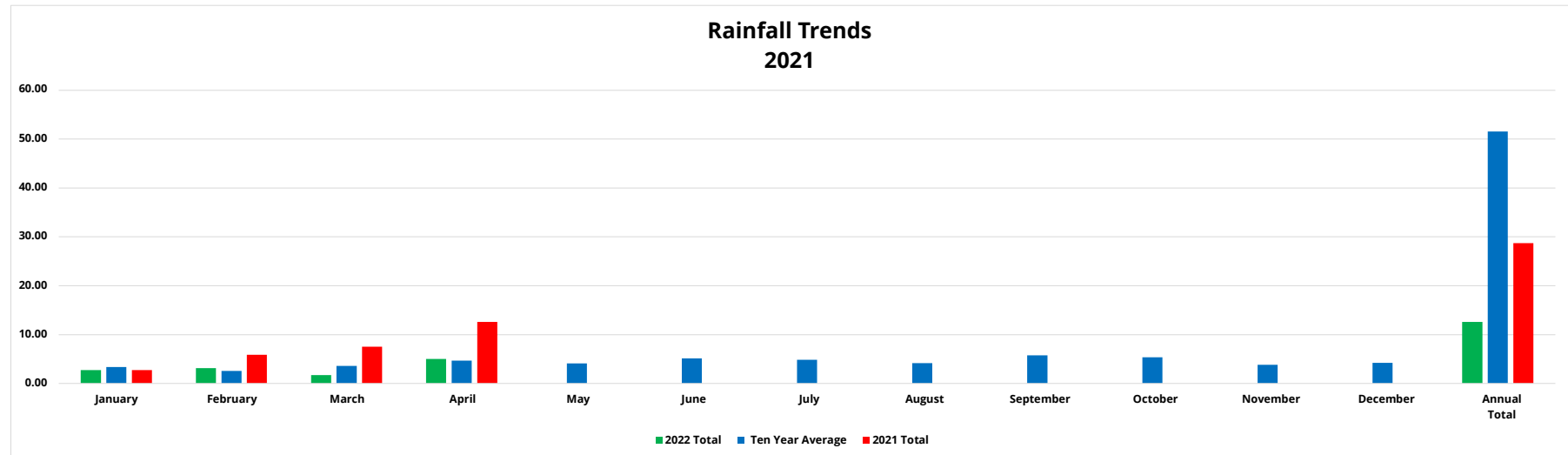


EXHIBIT D

Water Level at the DeHart Reservoir - 2022
(Inches from Spillway)

Date	January	February	March	April	May	June	July	August	September	October	November	December
2022 AVG	1.9	3.1	3.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ten Year AVG	-38.8	-36.6	-27.4	-14.4	-12.5	-15.0	-12.0	-42.0	-60.5	-73.5	-75.0	-62.6
2022 AVG	1.9	5.0	6.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DeHart Reservoir Water Level Trends
2021

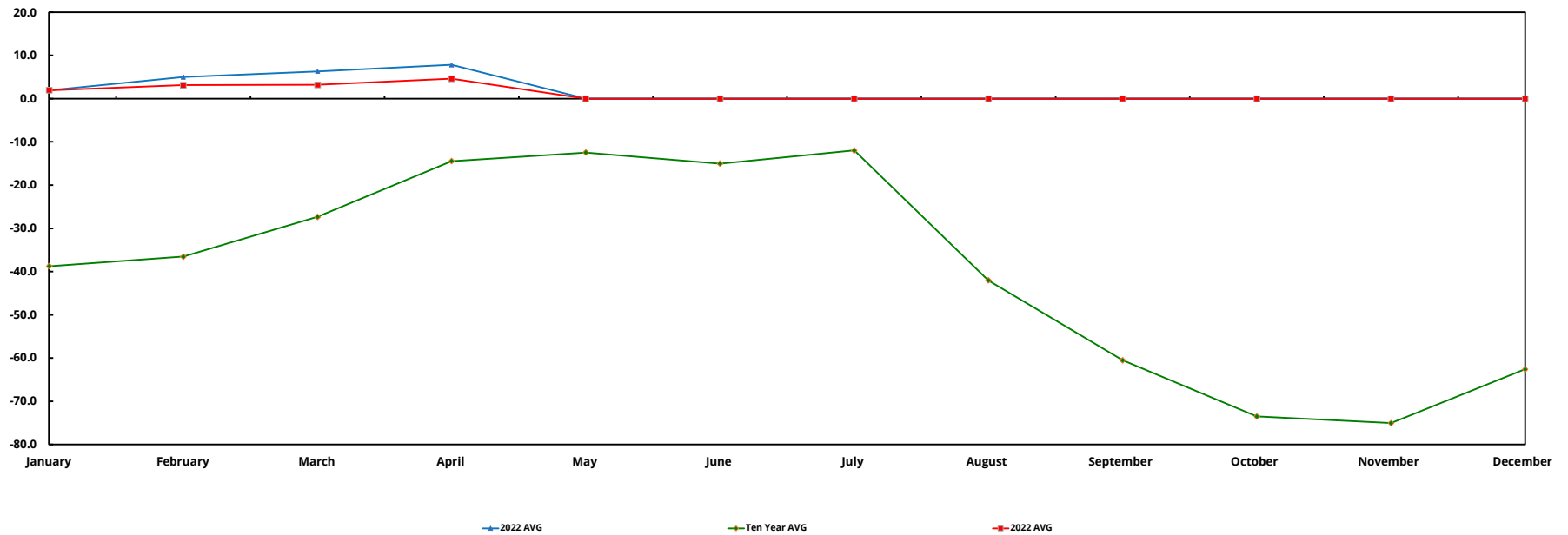


EXHIBIT E
Daily Conservation Release - 2022

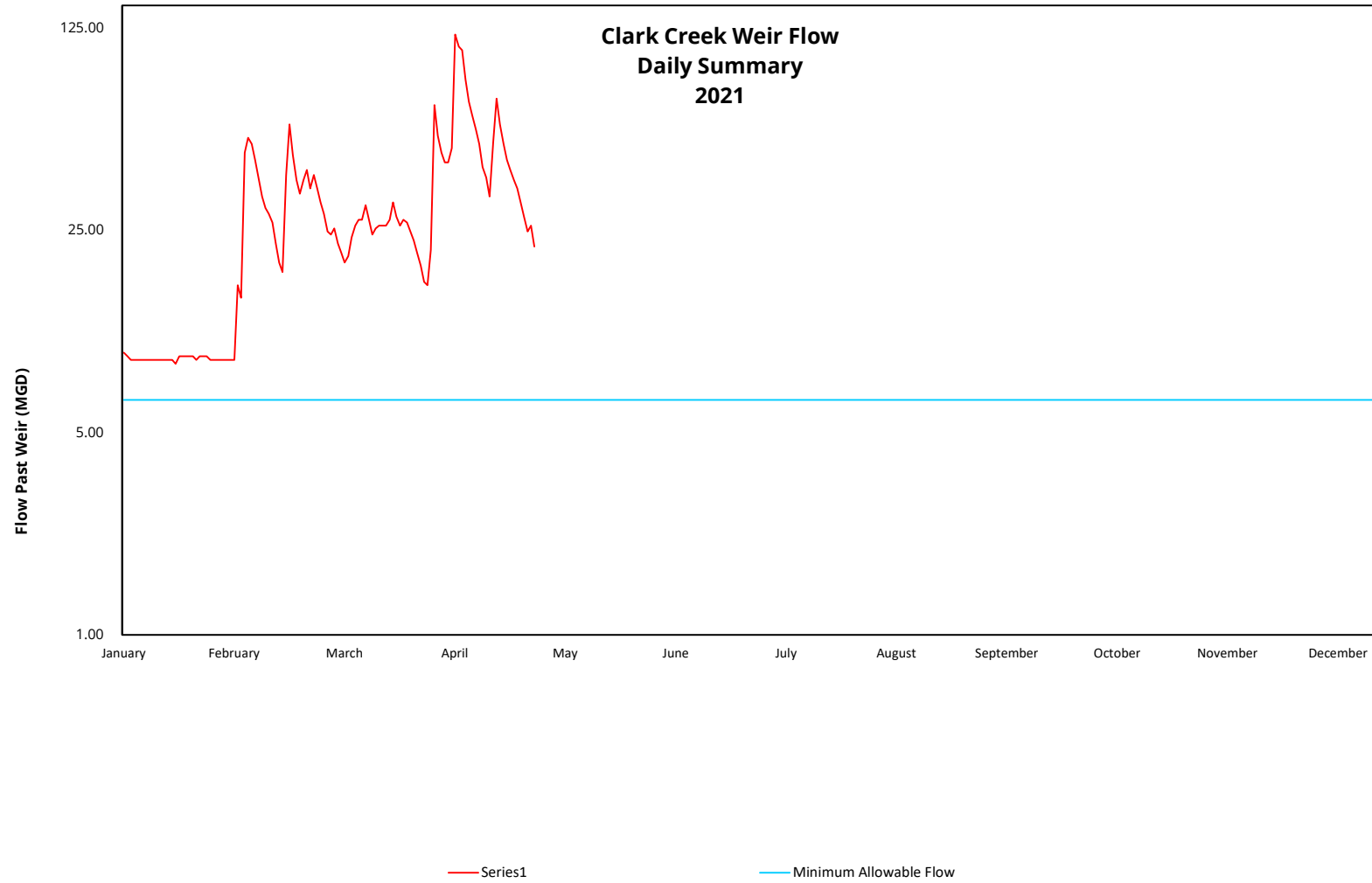




EXHIBIT F
Utility Usage - 2022

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Water Services Center														
Electric Transmission														
Total, kWh	196,200	136,800	145,800										159,600	478,800
Cost, Dollars	\$12,915.36	\$8,967.54	\$8,888.73										\$10,257.21	\$30,771.63
Electric Generation														
Total, kWh	196,200	136,800	145,800	181,800									165,150	660,600
Cost, Dollars	\$1,323.23	\$1,339.10	\$1,303.79	\$1,352.63									\$1,329.69	\$5,318.75
Natural Gas														
Total, Cu Ft	14,898	11,450											13,174	26,348
Cost, Dollars	\$12,296.76	\$9,486.52											\$10,891.64	\$21,783.28
Sewer														
Total, Gal	7,710,000	6,560,000											7,135,000	14,270,000
Cost, Dollars	\$65,997.60	\$56,152.60											\$61,075.10	\$122,150.20
Refuse														
Cost, Dollars	\$509.60	\$509.60	\$509.60										\$509.60	\$1,528.80
Reservoir Park Pump Station														
Electric Transmission														
Total, kWh	84,800	84,800	81,600										83,733	251,200
Cost, Dollars	\$3,943.58	\$3,917.06	\$3,362.56										\$3,741.07	\$11,223.20
Electric Generation														
Total, kWh	84,800	84,800	81,600										83,733	251,200
Cost, Dollars	\$1,074.71	\$1,134.00	\$1,168.51										\$1,125.74	\$3,377.22
Natural Gas														
Total, Cu Ft	823	523											673	1,346
Cost, Dollars	\$696.50	\$451.99											\$574.25	\$1,148.49
Wassukuhina River Pump Station														
Electric Transmission														
Total, kWh	1,800	1,200	1,800										1,600	4,800
Cost, Dollars	\$77.70	\$14.63	\$84.89										\$59.07	\$177.22
Electric Generation														
Total, kWh	1,800	1,200	1,800	600									1,350	5,400
Cost, Dollars	\$75.67	\$74.18	\$71.63	\$69.05									\$72.63	\$290.53
Natural Gas														
Total, Cu Ft	724	641											683	1,365
Cost, Dollars	\$615.82	\$548.16											\$581.99	\$1,163.98
Union Square Booster Station														
Electric Transmission														
Total, kWh	2876	3,875	2,888										3,213	6,763
Cost, Dollars	152.42	\$312.67	\$150.83										\$205.31	\$463.50
Electric Generation														
Total, kWh	2876	3,875	2,888	2,309									2,987	9,072
Cost, Dollars	125.54	\$127.11	\$162.09	\$120.18									\$133.73	\$409.38
DeHart Facilities														
Electric Transmission														
Total, kWh	2,965	2,845	2,728										2,846	8,538
Cost, Dollars	\$224.15		\$203.55										\$213.85	\$427.70
Electric Generation														
Total, kWh	2,965	2,845	2,728	2,499									2,759	11,037
Cost, Dollars	\$101.22	\$96.85	\$97.06	\$90.42									\$96.39	\$385.55
Fuel Oil														
Total, Gals.			1,438										1,438	1,438
Cost, Dollars			\$8,077.31										\$8,077.31	\$8,077.31
City Island Heat Trace														
Electric Transmission														
Total, kWh	390	378	356										375	1,124
Cost, Dollars	\$23.33	\$20.65	\$19.97										\$21.32	\$63.95
Electric Generation														
Total, kWh	390	378	356										375	1,124
Cost, Dollars	\$65.29	\$65.27	\$64.99										\$65.18	\$195.55
Expenditures YTD													\$99,031	\$208,956

** Not available at time report was developed

Total Transmission	\$43,127
Total Generation	\$9,977
Total Refuse	\$1,529
Total Gas	\$24,096
Total Sewer	\$122,150
Total Fuel Oil	\$8,077
Total Utilities	\$207,427

Exhibit G

Hydro-Turbine Generator Performance - 2022

Month	Kilowatt-hour (KWH)	Anticipated Savings *
January	48,590	\$2,818
February	42,322	\$2,455
March (Out for Service)	0	\$0
April (Out of Service)	0	\$0
May	0	\$0
June	0	\$0
July	0	\$0
August	0	\$0
September	0	\$0
October	0	\$0
November	0	\$0
December	0	\$0
Average	45,456	\$2,636
Year to Date	90,912	\$5,273

* Estimated savings based on electrical rate of \$0.058 per KWH

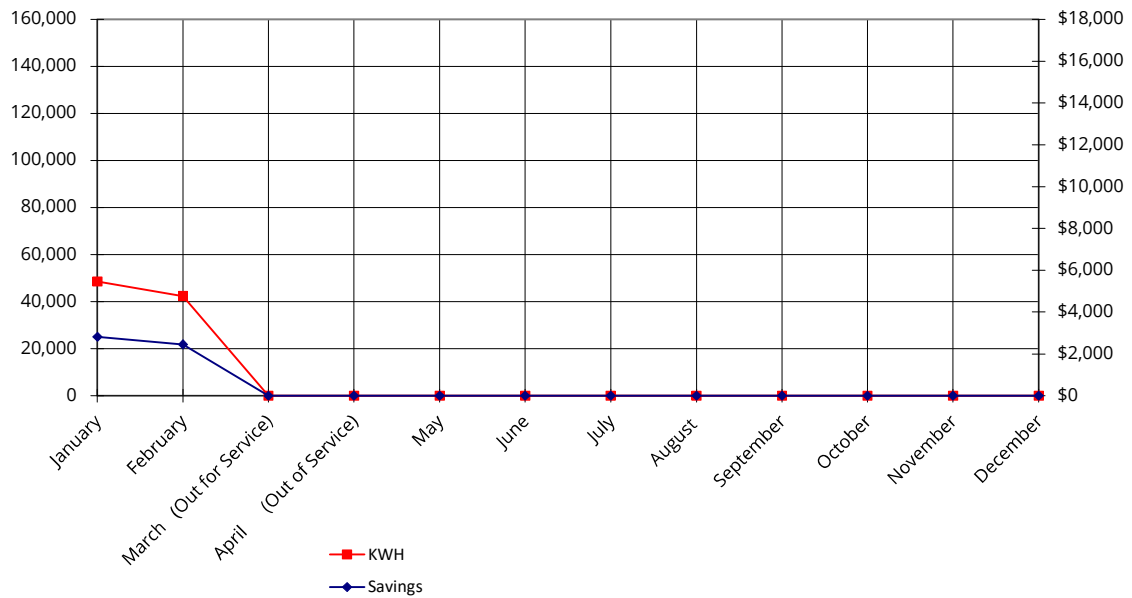


EXHIBIT H
Treatment Chemical Usage - 2022

Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Chlorine														
Total Lbs.	6,180	6,133	6,135	5,736									6,046	24,184
Average, Chlorine Lbs./Day	199	219	198	191									201.8	
Average, Chlorine Dose, mg/L	3.2	3.2	3.2	3.2									3.2	
Chlorine Cost, \$/Lbs.	\$0.305	\$0.305	\$0.305	\$0.305									0.3	
Chlorine Total Cost, Dollars	\$1,885	\$1,871	\$1,871	\$1,749									\$1,843.98	\$7,375.90
Alum 48.5%														
Total Lbs.	48,096	46,683	42,713	38,071									43,891	175,563
Average, Alum, Lbs./Day	1,551	1,667	1,378	1,269									1466.4	
Average, Alum, mg/L	25.0	25.0	18.3	18.8									21.8	
Alum Cost, \$/Lbs.	\$0.164	\$0.164	\$0.164	\$0.164									0.2	
Alum Total Cost, Dollars	\$7,888	\$7,656	\$7,005	\$6,244									\$7,198.19	\$28,792.74
Lime														
Total Lbs.	0	0	0	0									0	0
Average Lime, Lbs./Day	0	0	0	0									0.0	
Average, Lime Dose, mg/L	0.0	0.0	0.0	0.0									0.0	
Lime Cost, \$/Lbs.	\$0.00	\$0.00	\$0.00	\$0.00									\$0.00	
Lime Total Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00									\$0.00	\$0.00
Soda Ash														
Total Lbs.	24,800	25,750	25,400	26,250									25,550	102,200
Average Soda Ash, Lbs./Day	800	920	819	875									853.5	
Average, Soda Ash Dose, mg/L	16.7	16.7	16.2	16.9									16.6	
Soda Ash Cost, \$/Lbs.	\$0.299	\$0.299	\$0.299	\$0.299									0.3	
Soda Ash Total Cost, Dollars	\$7,415	\$7,699	\$7,595	\$7,849									\$7,639.55	\$30,558.20
Fluoride														
Total Lbs.	1,155	1,193	1,168	1,111									1,157	4,627
Average, Fluoride Lbs./Day	37	43	38	37									38.8	
Average, Fluoride (F-) Dose, mg/L	0.6	0.6	0.6	0.6									0.6	
Fluoride Cost, \$/Lbs.	\$0.48	\$0.48	\$0.48	\$0.48									\$0.48	
Fluoride Total Cost, Dollars	\$554	\$573	\$561	\$533									\$555.35	\$2,221.40
Sodium Hydroxide 50%														
Total NaOH 50% dry Lbs.	41,600	36,660	38,202	36,068									38,133	152,530
Average NaOH 50%, dry Lbs./Day	1,342	1,309	1,232	1,202									1,271	
Average, NaOH 50%, mg/L	10.7	10.7	9.8	9.9									10.3	
NaOH 50% Cost, dry \$/Lbs	\$0.174	\$0.174	\$0.174	\$0.174									0.2	
NaOH 50% Total Cost, Dollars	\$7,238	\$6,379	\$6,647	\$6,276									\$6,635.10	\$26,540.40
Zinc Orthophosphate														
Total Zn3(PO4)2, wet Lbs.	5,142	5,057	5,034	4,712									4,986	19,945
Average Zn3(PO4)2, wet Lbs./Day	166	181	162	157									166.5	
Average, Zn3(PO4)2 Dose, mg/L	2.7	2.7	2.7	2.7									2.7	
Zn3(PO4)2 Cost, wet \$/Lbs.	\$0.374	\$0.374	\$0.374	\$0.374									0.4	
Zn3(PO4)2 Total Cost, Dollars	\$1,923	\$1,891	\$1,883	\$1,762									\$1,864.78	\$7,459.11
Potassium Permanganate														
Total KMnO4, Lbs.														0
Average KMnO4, Lbs./Day														
Average, KMnO4 Dose, mg/L														
KMnO4 Cost, \$/Lbs.														
KMnO4 Total Cost, Dollars														\$0.00
Expenditure														\$102,947.75
Average Treated Cost per (MG)														#DIV/0!
Total Treated Flow (MGD)														0.000
Average Treated Flow (MGD)														230.489

EXHIBIT I

DISTRIBUTION DEPARTMENT ACTIVITIES - 2022

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
PA One Call Locates	423	501	523	564	0	0	0	0	0	0	0	0	2,011	503
Street Restorations	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leak Detection Assessment <i>Percent of Distribution System</i>	8	8	8	8	0	0	0	0	0	0	0	0	32	8
Main Break Repair - Detected Non-Surfacing	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Main Breaks Repaired - Emergency	2	6	3	1	0	0	0	0	0	0	0	0	12	3
Service Line Leaks Detected	2	10	0	0	0	0	0	0	0	0	0	0	12	3
Service Line Leaks Repaired	1	11	0	0	0	0	1	0	0	0	0	0	13	3
Valves - Exercised	0	0	0	2	0	0	0	0	0	0	0	0	2	1
Valves - Replaced	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrant Flow Tests	0	2	3	2	0	0	0	0	0	0	0	0	7	2
Hydrants Returned to Service	0	0	1	0	0	0	0	0	0	0	0	0	1	0
Water Tap - Disconnected	1	0	2	3	0	0	0	0	0	0	0	0	6	2
Water Tap - New Connection	1	1	1	1	0	0	0	0	0	0	0	0	4	1
Water Shutoffs - Delinquent Accounts	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Shutoffs - Other	26	23	14	47	0	0	0	0	0	0	0	0	110	28
Water Shutoffs - Non Payment	0	0	0	37	0	0	0	0	0	0	0	0	37	9
Water Restoration Turn on Other	22	24	22	36	0	0	0	0	0	0	0	0	104	26
Water Turn on - Non Payment	5	6	5	24	0	0	0	0	0	0	0	0	40	10

EXHIBIT J
Metering Activities - 2022

Board Monthly Report		Distribution Monthly Report													
Activity	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Meter Installations															
Replacement	Missing	7	8	3	4									22	6
	Leaking	7	1	3	1									12	3
	Frozen	10	6	6	5									27	7
	Non-registering	1	3	5	5									14	4
	Large Meters ¹	0	0	0	1									1	0
New Service	New Installation	0	1	1	1									3	1
Meter Service															
MXU's Replaced	MXU's Replaced	20	22	41	18									101	25
Batteries Replaced	Batteries Replaced	67	25	123	65									280	70
Meter Pits Serviced	Meter Pits Serviced	1	0	0	1									2	1
Meter Calibrations															
Small Meters ²	Calibrated meters	2	0	1	2									5	1

1 Large Meters are Meters 3" or greater that are calibrated at the customer's location by a contracted calibration service, assisted and witnessed by CRW staff
2 Small Meters are Meters 2" or less that are calibrated at the Water Services Center by CRW staff on a certified calibration stand

EXHIBIT K

Miscellaneous Water Usage (gals) - 2022

Category of Water Use	Description	Jan	Feb	Mar	APR	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Process Water	Process Water	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	0
Billed Metered Exported	Bulk Water Hauling	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	0
Billed Metered	Hydrant Connections	0	0	0	8,176	0	0	0	0	0	0	0	0	743	2,044
Billed Unmetered	Hydrant Flow Tests	0	7,955	11,526	3,812	0	0	0	0	0	0	0	0	23,293	5,823
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	221,167	32,288	120,010	3,485,233	0	0	0	0	0	0	0	0	3,858,698	964,675
Leakage on Distribution Mains	Main Leaks	4,349,565	1,286,902	2,856,325	71,360	0	0	0	0	0	0	0	0	8,564,152	2,141,038
Leakage on Service Lines	Service Leaks	998,776	708,950	595,243	573,408	0	0	0	0	0	0	0	0	2,876,377	719,094
	Total	5,569,508	2,036,095	3,583,104	4,141,989	0	0	0	0	0	0	0	0	15,330,696	3,832,674



CAPITAL REGION[™]

WATER

Wastewater

Wastewater

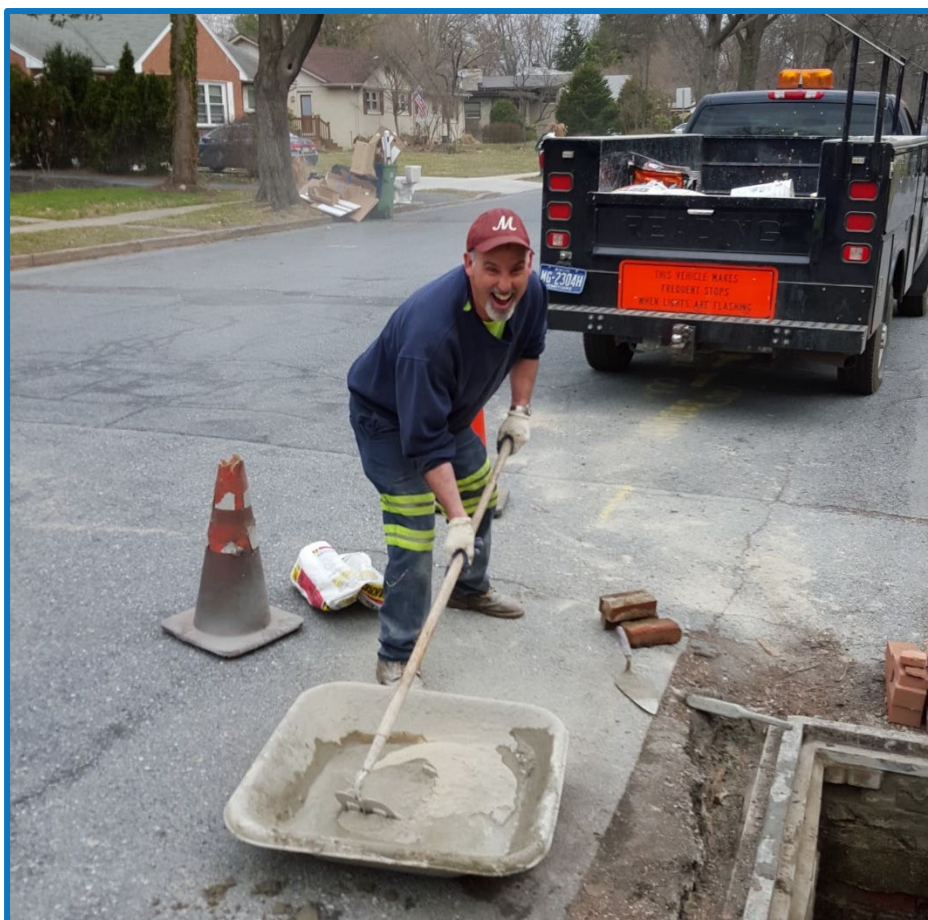




CAPITAL REGION™

WATER

WASTEWATER DEPARTMENT MONTHLY REPORT



Field Operator Michael Fox

April 2022

1662 South Cameron Street, Harrisburg, PA 17104 | 888-510-0606
capitalregionwater.com

Overview

Local caseload of COVID-19, as confirmed by CRW's Wastewater Surveillance Program, flattened in April. CRW will continue its surveillance program to monitor presence of the virus in our service territory and will be ready to re-enact mitigation measures should input factors warrant it.

Personnel changes continued to be a major focus for the Wastewater and Stormwater Departments during the month of April. Three promotions and one resignation created openings that were all filled by internal bidding and promotions, which in turn created four more vacancies, and so on. Division supervisors were busy with application reviews, conducting interviews and onboarding new CReW members.

Progress on the Front Street Pump Station project continued at a very slow pace throughout April as we attempt to address the remaining punch list item.

Work on the Primary Digester Rehabilitation Project continued with a slow pace in April, as well. Additional leak testing and the mixer installation occurred. Roof insulation has finally started as of the time of reporting, when complete, it will be possible to begin biological seeding of the unit.

Operations

During the month of April, the AWTF met all monthly average NPDES permit requirements. One Sanitary Sewer Overflow and three Dry Weather Overflows were reported.

Hydraulic loading to the AWTF averaged 26.0 million gallons per day (MGD). The treatment process achieved removal reductions of 97.0 percent CBOD, 98.3 percent Suspended Solids, 63.1 percent Phosphorus, 93.8 percent Ammonia, and 75.1 percent Nitrogen (Exhibit A).

Revenue of the Contract Waste Hauling program collected \$31,402.44 in revenue from 1,022,610 gallons discharged (Exhibit G).

The Cogeneration Facility experienced an average run time of 43 percent in April. Revenue is estimated at \$3,951.64 on 51,300 Kilowatt-hours generated for the month. Increased run time can be attributed to the retubing of No. 3 heat exchanger resulting in better heat transfer. Also, lower thickener blankets resulting in a higher solids sludge being pumped to the digester.

Laboratory

- Annual Demonstration of Capability (DOC) required by PA 252 Laboratory Accreditation Regulations for accredited BOD5/CBOD5, Total Suspended Solids, T. Phosphorus, Ammonia Nitrogen and Fecal Coliform test parameters was successfully completed by laboratory personnel.
- Completed semi-annual compliance sampling at select industrial users Boyd State Harrisburg, LLC., Hershey Creamery Company, Lancaster County Solid Waste Management Facility (Susquehanna Resource Management Facility), Robert E. Young Water Service Center and the Swatara Township Landfill.
- Updated the Laboratory's Procedures Manual, Quality Manual, and bench sheets.
- Submitted primary influent samples to Biobot for COVID-19 testing.

Pretreatment

- Received self-monitoring reports submitted for the 1st Quarter and March 2021 with the exception of Harrisburg Dairies, Inc.
- Completed semi-annual Industrial User Facility Inspections at the Boyd State Harrisburg LLC and the Swatara Township Landfill.
- Completed the Contract Waste Hauling Program's QuickBooks March data entry check before forwarding the waste hauler monthly reports to billing.

Plant Maintenance

- Cleared drains in the Belt Filter Press Building.
- Changed oil and filters and added antifreeze in Generator No. 2 in the Cogeneration Building.
- Installed new divert pump in the Chemical Storage Building.
- Serviced Unox Compressor No. 2 prior to plant turnaround.
- Installed concrete pads for north and south gate towers for plant access.
- Continued rehabilitation of Gas Compressor No. 2.
- Tested backup generator switch gear at the Market Street Pump Station.
- Replaced Rotork valve actuator on Influent Gate No. 1 at the Pista Grit.
- Repaired channel blower on the Pista Grit.
- Performed full load generator test at the Spring Creek Pump Station.
- Continued major overhaul on Bar Screen. Assembled new rag removal rake.
- Removed truck crane boom cylinder for repair.
- Performed 11 vehicular repairs in preparation for state inspections.
- Responded to work requests at the NFS office building as needed.

Field Construction

- Raised three manholes on Cameron Street to grade for the paving project.
- Helped dig out and frame concrete pads for the new card readers.
- Replaced a VCP inlet lateral at 3321 Green Street that had been bored through by the gas company. It was replaced with 13 feet of 10-inch SDR. While on site, the brick inlet was repaired, and the A-3 hood was blanked.
- Retrofitted eight inlets to help with floatable control.
- Raised five manholes at various locations throughout the city.
- Rebuilt 23 inlets in various locations throughout the city.
- Aided Miller Pipe at 16th and Herr Streets in identifying and removing a blanked off inlet box and inlet lateral.
- Dug up and replaced a failing A3 inlet top. Retrofitted with a C-Top.

Field Operations

- A total of 1,083 feet (0.21 miles) of sewer pipe were assessed by CCTV footage throughout the month.
- A total of 1,450 feet (0.27 miles) of pipe were flushed during the month.
- Responded to eight backup and overflow calls from residents. CRW was liable for none.
- Responded to seven sinkhole calls. Wastewater was liable for none, and Drinking Water was liable for none.
- Cleaned 135 stormwater inlets.
- Inspected 130 stormwater inlets.
- Hosed down Bar Screen and Wet Well at the Spring Creek Pump Station.
- Completed 55 semi-annual CSO PM's.

Environmental Compliance

- Completed 15 inspections of FOG dischargers. Ten locations received letters of non-compliance with compliance plans and one location was exempt.
- Issued five permit renewals and four new permits.
- Issued two FOG-related Notice of Violations (NOVs) and two non-FOG-related NOVs.
- Provided education packet to one newly identified FOG discharger (either new business or previously unidentified). Spent time educating business owner/representative and provided them with a FOG Best Management Practices Manual, copy of Section 7.5 of the updated Wastewater and Stormwater Rules and Regulations, discharge permit request, cleaning log sign-off sheet, and introduction letter.

- Three investigations were conducted during the month of April:
 - Wastewater was found to be leaking through an MS4 storm inlet wall in the vicinity of 20th and Herr Streets. The source was located, and a corrective action plan was adopted to repair the problem. A Notice of Violation was issued.
 - A contractor working in Midtown failed to establish proper erosion and sedimentation controls prior to beginning their work. The failure resulted in mud and sediment on the roadway. Cleanup of the area was required, and a Notice of Violation was issued.
 - A contractor in the vicinity of 13th and Derry Streets was operating a bypass pump during routine construction activities. A connection between two pipe lengths leaked resulting in wastewater on the street. The contractor immediately cleaned up the leak. There was no impact to the collections system or any receiving streams.

Street Sweeping

- Received one complaint this month and it was resolved.
- Nelson Gomez is fully trained for street sweeping operations.
- Completed 436 miles of street sweeping within the City of Harrisburg.
- Continued to sweep area of Reservoir Park. It will be included in Areas 1, 6, and 9.
- There were no days of suspended sweeping due to weather.
- Water usage was approximately 11,200 gallons.
- Continued to assist cleaning storm inlets in scheduled sweeping area.
- When the days of the month fall on a 5th week, there is no scheduled sweeping. The Street Sweeping group will be assigned specific assignments throughout the city to continue the upkeep in highly visible areas. The end of April, the Street Sweeping group swept an additional nine miles (included in total mile swept) and continued to clean off storm inlets.



CAPITAL REGION™

WATER

Wastewater Exhibits

EXHIBIT A

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Process Control - 2022

Parameters	January	February	March	April	May	June	July	August	September	October	November	December	Average	NPDES Limits
Volume, MGD	18.4	24.3	20.3	26.0									22.3	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/L	176	129	163	121									147	----
Effluent, mg/L	3	3	3	3									3	25
Percent Removal, %	98.1	93.3	97.9	97.0									96.6	----
Effluent Loading, lb/d	520	846	572	724									666	7,860
Suspended Solids:														
Influent, mg/L	177	149	212	144									171	----
Effluent, mg/L	4	4	3	2									3	30
Percent Removal, %	97.5	92.4	98.6	98.3									96.7	----
Effluent Loading, lb/d	715	1,397	499	569									795	9,433
Nitrogen														
Total-N														
Influent, mg/L	26	24	26	20									24	----
Effluent, mg/L	3.1	4.3	5	5.0									4	Monitor
Percent Removal, %	88.0	82.2	80	75.1									81.4	----
Effluent Loading, lb/d	469	719	778	996									741	----
NH3-N														
Influent mg/L	16	13	15	11									14	----
Effluent, mg/L	0.7	1.8	2.3	0.7									1	11 (2)
Percent Removal, %	95.5	85.7	84.4	93.8									89.8	----
Effluent Loading, lb/d	113	386	411	157									267	4,716
Phosphorus:														
Influent, mg/L	3.5	2.8	3.6	2.9									3.2	----
Effluent, mg/L	0.9	1.0	1.6	1.1									1.2	2.0
Percent Removal, %	71.6	63.4	53.6	63.1									62.9	----
Effluent Loading, lb/d	144	206	274	220									211	629
pH:														
Influent, Std. Units	7.4	7.1	7.3	7.3									7.3	----
Effluent, Std. Units	7.0	6.7	7.0	6.9									6.9	6.0 - 9.0
Dissolved Oxygen:														
Effluent Minimum, mg/L	7.0	7.7	7.1	7.0									7.2	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	6	6	1	4									4	200/100 ml (1)
Chlorine Residual:														
Effluent, mg/L	0.19	0.20	0.19	0.21									0.20	0.50

(1) Seasonal limit 2,000/100 ml Oct. 1 to Apr. 30 and 200/100 ml May 1 to Sept. 30.

(2) Seasonal Limit May 1 to Nov.1.

EXHIBIT B

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Flow Monitoring Information, MGD - 2022

Month	Total			City Regions					Suburb Regions					Total Precip inches
	Flow	City	Suburbs	1	2	3	4	5	6	7	8	9	10	
January	18.400	7.202	11.198	6.361	0.158	0.300	0.254	0.129	1.300	4.217	1.820	3.532	0.329	2.170
February	24.300	10.705	13.595	9.854	0.197	0.300	0.066	0.288	1.300	5.146	2.271	4.350	0.528	2.800
March	20.000	8.710	11.290	7.388	0.170	0.300	0.679	0.173	1.300	3.948	1.956	3.697	0.389	2.540
April	26.000	12.031	13.969	10.089	0.211	0.300	1.225	0.206	1.500	4.869	2.421	4.766	0.413	3.430
May														
June														
July														
August														
September														
October														
November														
December														
Average	22.18	9.66	12.51											2.74
Percent	100.00	43.57	56.43											10.94

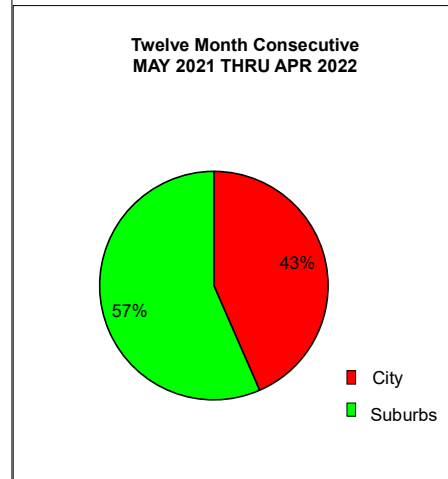
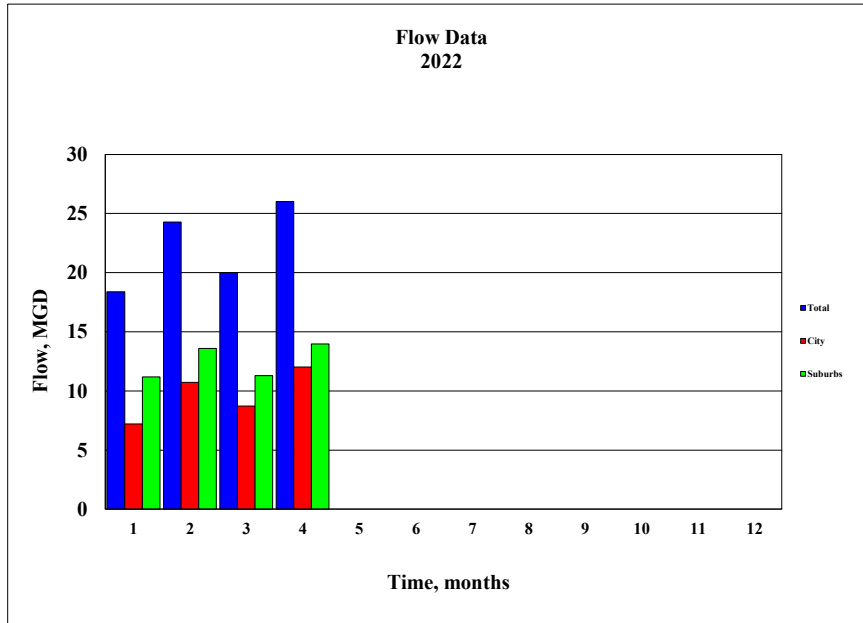


EXHIBIT C

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Treatment Utility and Chemical Usage - 2022

Utility / Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Electric														
Total, kWh	1,131,900	1,032,600	1,019,700	*									796,050	3,184,200
Average, kWh/Day	36,513	36,879	32,894	*									35,428	-----
Cost, Dollars	\$70,491.63	\$72,766.82	\$64,633.22	*									\$51,972.92	\$207,891.67
Natural Gas														
Total, Cu Ft	905.6	647.3	401.4	*									489	1,954
Average, Cu Ft/Day	29	23	13	*									22	-----
Cost, Dollars	\$7,509.60	\$5,404.37	\$3,544.64	*									\$4,114.65	\$16,458.61
Water														
Total, Gal.	681,000	871,833	743,167	*									765,333	2,296,000
Average, Gal./Day	21,968	31,137	23,973	*									25,693	-----
Cost, Dollars	\$10,384.54	\$12,357.75	\$11,027.35	*									\$8,442.41	\$33,769.64
MicroC														
Total, Gal.	0	0	0	0									0	0
Average, Gal./Day	0.0	0.0	0.0	0.0	0.0								0	-----
Cost, Dollars	\$0	\$0.00	\$0	\$0	\$0								\$0.00	\$0.00
Sodium Hydroxide														
Total, Gal.	0	0	0	0									0	0
Average, Gal./Day	0	0	0	0	0								0	-----
Cost, Dollars	0	0	0	0	0								\$0.00	\$0.00
Chlorine Disinfection														
Total, Lbs.	5,340	6,020	5,100	7,150									5,903	23,610
Average, Lbs./Day	172	215	165	238									198	-----
Avg Residual, mg/L	0.19	0.20	0.19	0.21									0.20	-----
Cost, \$/Lbs.	\$0.99	\$0.99	\$0.99	\$0.99									\$0.99	-----
Total Cost, Dollars	\$5,286.60	\$5,959.80	\$5,049.00	\$7,078.50									\$5,843.48	\$23,373.90
Phosphorous Removal														
Total FeCl3, Gals.	507	1,333	1,634	2,743									1,554	6,218
Avg FeCl3, Gals./Day	16	48	53	91									52	-----
FeCl3 Cost, \$/Gal.	\$1.26	\$1.26	\$1.26	\$1.26									\$1.26	-----
FeCl3 Total Cost, Dollars	\$638.82	\$1,679.58	\$2,058.84	\$3,456.18									\$1,958.36	\$7,833.42

* No data at time of report

EXHIBIT D

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Cogeneration Electrical Production: 2021-2022

	Period	Percent Run Time	Daily Avg Kilowatt	Kilowatt Hours Produced	Estimated Revenue
January 2021		12	377	11,700	\$901.25
February 2021		75	3,632	101,700	\$7,833.95
March 2021		84	4,384	135,900	\$10,468.38
April 2021		77	4,380	131,400	\$10,121.74
May 2021		79	3,454	107,100	\$8,249.91
June 2021		42	1,920	57,600	\$4,436.93
July 2021		8	406	12,600	\$970.58
August 2021		26	784	24,300	\$1,871.83
September 2021		27	1,260	37,800	\$2,911.73
October 2021		26	1,103	34,200	\$2,634.43
November 2021		12	510	15,300	\$1,178.56
December 2021		2	87	2,700	\$207.98
<hr/>					
Total - 2021				672,300	\$51,787.27
Monthly Average - 2021		39	1,858	56,025	\$4,315.61
January 2022		2	58	1,800	\$138.65
February 2022		37	1,093	30,600	\$2,357.12
March 2022		33	958	29,700	\$2,287.79
April 2022		43	1,710	51,300	\$3,951.64
May 2022					
June 2022					
July 2022					
August 2022					
September 2022					
October 2022					
November 2022					
December 2022					
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Total - 2022				113,400	\$8,735.20
Monthly Average - 2022		29	955	28,350	\$2,183.80

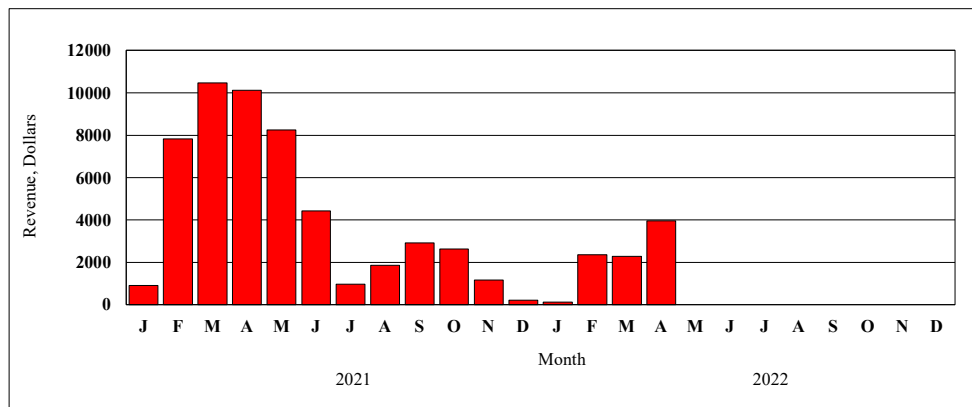


EXHIBIT E

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Sludge Handling Information - 2022

Process	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Solids Removal														
Process, Lbs.	836,796	808,604	1,256,456	1,295,249									1,049,277	4,197,106
CWH Program, Lbs.	69,353	76,120	124,956	61,652									83,020	332,081
Total Solids, Lbs.	906,149	884,724	1,381,413	1,356,901									1,132,297	4,529,187
Sludge Dewatering														
Feed Volume, Gals.	3,577,000	2,678,000	4,535,000	5,007,000									3,949,250	15,797,000
Feed Solids, %	1.7	1.7	2.0	1.8									1.8	-
Labor, Hours	459	416	659	644									545	2,178
Operations, Hours	930	785	1,132	1,058									976	3,904
Total Cake, Dry Tons	179	167	312	295									238	953
Total Cake, Wet Tons	1,149	1,069	1,855	1,682									1,439	5,755
Cake TS, %	15.5	15.6	16.8	17.6									16.4	-
Press Rate, Lbs./Hour	2,472	2,725	3,279	3,179									2,914	11,655
Polymer Dosage, Lbs	3,188	2,976	4,605	5,056									3,956	15,825
Polymer Dosage, Lbs/Dry	20.4	19.4	15.1	17.5									18.1	-
Disposal Cost														
Labor, Dollars	\$8,821.98	\$7,995.52	\$12,665.98	\$12,383.45									\$10,466.73	\$41,866.93
Electrical, Dollars	\$409.07	\$345.18	\$497.86	\$465.56									\$429.42	\$1,717.67
Polymer, Dollars	\$6,120.96	\$5,713.92	\$8,841.60	\$9,707.52									\$7,596.00	\$30,384.00
Disposal, Dollars	\$27,763.12	\$23,705.00	\$52,985.00	\$65,813.20									\$42,566.58	\$170,266.32
Total Cost, Dollars	\$43,115.13	\$37,759.62	\$74,990.44	\$88,369.73									\$61,058.73	\$244,234.92
Cost Per Dry Ton, Dollars	\$240.87	\$226.11	\$240.35	\$299.56									\$251.72	

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Conveyance Utility Usage - 2022

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Front Street Pump Station														
Electric														
Total, kWh	232,800	219,600	187,200	*									213,200	639,600
Average, kWh/Day	7,510	7,843	6,039	*									7,130	-----
Cost, Dollars	#####	\$14,468.72	\$10,417.84	*									\$13,256.56	\$39,769.68
Fuel Oil														
Total, Gals.	0	0	0	0									0	0
Average, Gals./Day	0	0	0	0									0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00									0	\$0.00
Water														
Total, Gals.	315,000	180,833	479,167	*									325,000	975,000
Average, Gal./Day	10,161	6,458	15,457	*									10,692	-----
Cost, Dollars	\$3,953.62	\$2,566.33	\$5,651.11	*										\$12,171.06
Spring Creek Pump Station														
Electric														
Total, kWh	36,160	52,160	85,120	*									57,813	173,440
Average, kWh/Day	1,166	1,863	2,746	*									1,925	-----
Cost, Dollars	\$2,617.50	\$3,866.14	\$4,313.23	*									\$3,598.96	\$10,796.87
Fuel Oil														
Total, Gals.	0	0	0	0									0	0
Average, Gals./Day	0	0	0	0									0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00									\$0.00	\$0.00
Water														
Total, Gals.	25,000	39,000	106,000	*									56,667	170,000
Average, Gal./Day	806	1,393	3,419	*									1,873	-----
Cost, Dollars	\$334.49	\$479.25	\$1,172.03	*									\$661.92	\$1,985.77
Market Street Pump Station														
Electric														
Total, kWh	1,200	1,200	1,080	*									1,160	3,480
Average, kWh/Day	39	43	35	*									39	-----
Cost, Dollars	\$207.27	\$123.51	\$121.40	*									\$150.73	\$452.18
Fuel Oil														
Total, Gals.	0	0	0	0									0	0
Average, Gals./Day	0	0	0	0									0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00									\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kWh	40	40	40	*									40	120
Average, kWh/Day	1	1	1	*									1	-----
Cost, Dollars	\$63.36	\$54.75	\$64.95	*									\$61.02	\$183.06

* No Data at time of report

EXHIBIT G

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Contract Waste Hauling Program 2021 - 2022

Month	Process		Septic			Total
	Gallons	Revenue	Gallons	Revenue	Gallons	Revenue
January	2,207,599	\$63,748.15	118,100	\$4,255.20	119,200	\$68,003.35
February	765,460	\$23,088.42	81,060	\$2,864.16	846,520	\$25,952.58
March	3,321,165	\$92,510.78	239,250	\$8,559.00	3,560,415	\$101,069.78
April	2,345,220	\$67,928.04	366,960	\$13,093.56	2,712,180	\$81,021.60
May	1,571,220	\$47,547.72	278,050	\$9,883.80	1,489,270	\$57,431.52
June	2,116,390	\$61,668.09	265,920	\$9,380.70	2,382,340	\$71,048.79
July	1,683,380	\$48,625.56	233,900	\$8,366.40	1,917,280	\$56,991.96
August	1,157,030	\$34,517.61	327,260	\$11,655.36	1,484,290	\$46,172.97
September	1,591,020	\$45,863.64	220,840	\$7,779.24	1,811,860	\$53,642.88
October	1,495,740	\$42,324.00	273,850	\$9,786.60	1,769,590	\$52,110.90
November	1,667,580	\$48,803.22	277,250	\$9,864.00	1,944,830	\$58,667.22
December	988,550	\$29,082.69	253,150	\$9,041.40	1,241,700	\$38,124.09
Total - 2021	20,910,354	\$605,707.92	2,935,590	\$104,529.42	21,279,475	\$710,237.64
Monthly Average - 2021	1,742,530	\$50,475.66	244,633	\$8,710.79	1,773,290	\$59,186.47
January	557,788	\$18,254.25	78,450	\$2,770.20	636,238	\$21,024.45
February	1,253,749	\$35,714.94	150,975	\$5,336.00	1,404,724	\$41,051.04
March	1,266,410	\$37,456.11	168,400	\$5,918.40	1,434,810	\$43,374.51
April	832,860	\$24,607.44	189,750	\$6,795.00	1,022,610	\$31,402.44
May						
June						
July						
August						
September						
October						
November						
December						
Total - 2022	3,910,807	\$116,032.74	587,575	\$20,819.60	4,498,382	\$136,852.44
Monthly Average - 2022	977,702	\$29,008.19	146,894	\$5,204.90	1,124,596	\$34,213.11

