

Ensure Financial Stability	
Reconciled Bank Account Balances	Refer to attached Reconciled Bank Account Balances as of 6/30/2022.
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 41 water shut-offs for non-payment, 22 were turned back on after payment, and 60 service shut-off requests.
Repair/Replace Meters/MXUs/Batteries	Drinking Water Distribution staff replaced 21 water meters, replaced 34 batteries, and 24 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	No Update.
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. PennDOT has issued a second Invitation for Bid for the Paxton Creek Sediment Reduction Project and is awarding the contract (See Issue Brief).
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 June. Three Dry Weather Overflows were reported. Details are contained in the Wastewater Department Monthly Report for June.
Notice of Violations (NOVs)	There were no NOVs received by the Drinking Water department in June. There were no NOVs received by the Wastewater department in June.
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 for June. The Wastewater department completed all regularly scheduled preventative maintenance in the month of June. A final semi-annual PM for CSO regulator #048 was also completed.
CCTV	A total of 3,430 feet (0.65 miles) of sewer pipe were assessed by CCTV footage during the month of June. A total of 831 feet (0.16 miles) of pipe were flushed as well. Phase 6 CCTV has started, but data was not yet available at the time of this report.

Incident Response	Wastewater responded to 18 backup and overflow calls from residents during the month of June. CRW was liable for none.
Geographic Information System (GIS)	<ul style="list-style-type: none"> • Twenty-four (24) Pennsylvania One Call tickets were completed by GIS. Twenty-two (22) tickets needed maps created and one (1) had no CRW utilities in the map area. • GIS Manager participated in the PWEA Operations Challenge in State College. • GIS staff attended the 2022 PA GIS Conference in State College. • GIS is collaborating with Asset Management (AM) on the Lead and Copper Rule Revisions (LCRR) - lead service line inventory. • Updates to the "City Beautiful H2O GSI Tour" web app and the "CRW GeoHUB" were completed.
Cityworks	[REDACTED]
Asset Management	Task Order 2022-04-02 Asset Management Quick Win Activities are in progress and on schedule. The final section for the Strategic Asset Management Plan (SAMP) is under review including various business process workflows. Meetings held on 6/22/2022 and 6/24/2022 to discuss prioritization of the next phase of roadmap activities. Front Street pumping station assets have been labeled with barcodes. Asset Management team is collaborating on several organizational initiatives, including material management/inventory, Lead Copper Rule Revisions (LCRR) - lead service line inventory and AWWA benchmarking initiatives.
Development Review Summary	For details, see attached <i>Development Stormwater Management Review Summary</i> spreadsheet for July.

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, Agreements and Procurement:</p> <p>Drinking Water: Procurement of large Sensus meters [REDACTED]</p> <p>Wastewater: Professional Services Agreement for Gauge Adjusted Radar Rainfall (GARR) [REDACTED] Procurement of Roof Replacement for the Spring Creek Pump Station [REDACTED] Procurement of Gorman-Rupp Horizontal Centrifugal Sewage Pump [REDACTED]</p> <p>Stormwater: Resolution No. 2022-016 Joint Pollutant Reduction Plan – Intergovernmental Cooperation Agreement – Task Order 2022-01 – Contribution to PennDOT Phase 4 PENNVEST SW Pro-Fi Project – Recommendation to Reject Bids</p>
Stormwater O&M Agreements	Recommend Board approval of the following: None.
AWTF Primary Digesters Rehabilitation	Startup and testing of Digester No. 1 began the week of 7/11/2022. The contractor will be requesting Substantial Completion by the end of July.
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	Delivery of flocculator equipment is expected in October 2022.

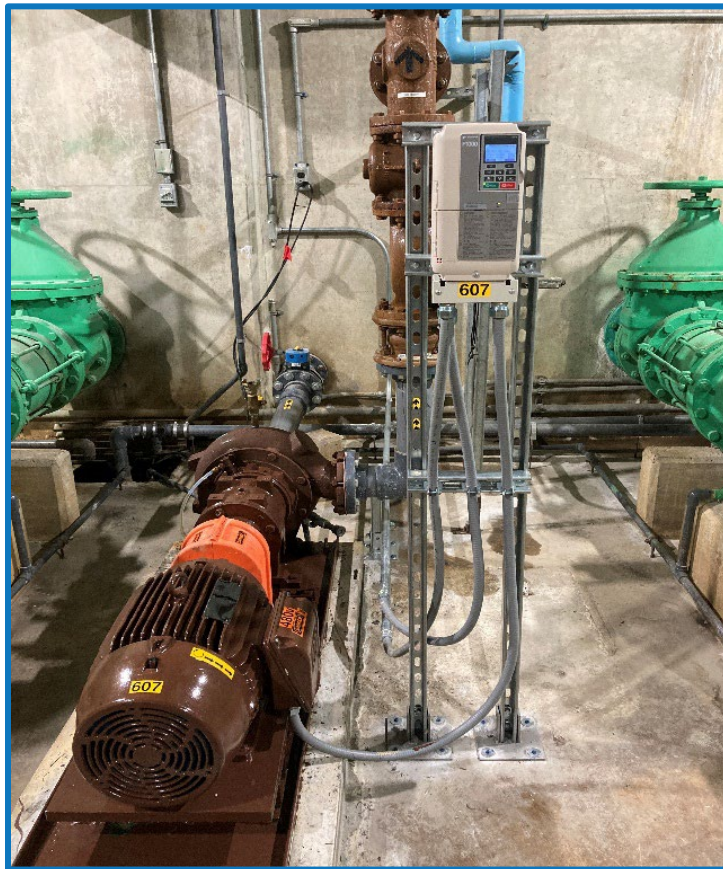
Undertake Renewal and Replacement Projects	
2020 Sewer System Improvements	Punch list items and final paving remains.
2021 Sewer System Improvements	The contract was terminated on 5/25/2022. Final payment and project closeout will occur in July.
2021 Water System Improvements	The contractor has remaining work at the 6th and Wallace Street location and is performing final paving.
2022 Water System Improvements	The preconstruction meeting is scheduled for 7/26/2022.
Cameron Street Water Main - Phase 3	Final paving is complete and punch list items remain.
Arsenal Boulevard Sewer Improvements	Temporary and construction easements must be acquired before advertising the project.
Front Street Interceptor Rehabilitation - Phase 2	The preconstruction meeting will be scheduled at the end of July.
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 June. A narrative is provided in the Wastewater Department Monthly Report.
Sinkhole Program	Twelve (12) sinkholes were investigated by CRW in the month of June. None were due to failure of CRW assets.
Inlet Cleaning	A total of 209 stormwater inlets were cleaned during the month of June, and 202 stormwater inlet inspections were performed.
Operate as an Efficient, Sustainable and Resilient Water Utility	
DeHart Property Stewardship	Timber harvest to improve regeneration is nearing completion in Management Unit (MU) 22/31 in accordance with the DeHart Property Forest Management Plan. Final inspection will be scheduled. 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 are complete and harvest equipment is on site.
Sustainability	No update.
Internal Communications	The Intranet site and calendar continue to be utilized. Management employees completed DISC assessments.
Inform and Listen to Customers and Encourage Stewardship of our Systems	
Media Relations - Press and Social Media	PRESS RELEASES: (June 13, 2022) - "CAPITAL REGION WATER IMPROVING SIGNS ALONG SUSQUEHANNA RIVER AND PAXTON CREEK" (June 22, 2022) - "CAPITAL REGION WATER TO PRESENT FIVE-YEAR SUMMARY OF ITS BUSINESS DIVERSITY PROGRAM" (June 29, 2022) - CAPITAL REGION WATER'S 2022 DRINKING WATER QUALITY REPORT NOW AVAILABLE. SOCIAL MEDIA TOPICS: Facebook: 5 New Organic Followers (1,501 Total). 11 Posts; Highest Engaged Post: (6/30/2022). "Employee of the Month - Tom York." (615 Reach, 95 Reactions, 61 Comments, 3 Shares, 85 Link Clicks); Other topics: Stormwater Week (5 posts) and BWA Advisory & Lift. Twitter: 3 Tweets; Highest Engaged Tweet: "BWA" (783 Impressions; 0 Likes, 0 Retweets) Month overview: 1,290 total Impressions; 1,099 Profile Visits; -5 New Followers; 2 Mentions. Instagram: 5 New followers (667 Total), 11 Posts; Highest Engaged Post: Highest Engaged Post: (6/30/2022) "Employee of the Month - Tom York." 63 Organic Reach, 8 likes, 1 comment. 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>Office Management and Admin Professional Services and Construction</p>	<p>Incoming Correspondence Report: Refer to attached <i>Incoming Correspondence Report for June 2022</i>.</p> <p>Street/Sidewalk-Cut Permits: Four (4) Drinking Water and eight (8) Sewer permits were successfully completed, inspected, and closed by the City of Harrisburg's Engineer. One (1) new Drinking Water and one (1) Sewer permits were issued.</p> <p>Fleet Management:</p> <ul style="list-style-type: none"> • During June, all vehicle/equipment data was transitioned into Cityworks. OMG group has provided all historical information from Cityworks' database to the Finance department for tracking of fixed assets received relative to the Transition Agreement between the City of Harrisburg and The Harrisburg Authority (now known as Capital Region Water) effective 11/4/2013. • C-92 - CRW accepted delivery - 2022 Ford F-250 Super Duty Truck from Hoffman Ford on 7/8/2022. (CRW is awaiting delivery of utility body upfit for C-92 from Stephenson/MJR Equipment - expected in Oct 2022) for the Drinking Water department (<i>previously approved on 2/23/22</i>). • C-93 - CRW accepted delivery - 2022 Ford F-250 Super Duty Truck from Hoffman Ford on 7/8/2022. (CRW is awaiting delivery of utility body upfit for C-93 from Stephenson/MJR Equipment - expected in Oct 2022) for the Drinking Water department (<i>previously approved on 2/23/22</i>). • G-78 - CRW will accept delivery - 2022 Ford F-250 4X4 Super Duty Regular Cab from Fred Beans Ford and U.S. Municipal on 7/21/2022. <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>Recommend Board approval of the following:</p> <ul style="list-style-type: none"> • None.
<p>Right-to-Know Requests</p>	<p>CRW has received and responded to two Right-to-Know requests during the period 6/16/2022 through 7/20/2022. 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>OOR Training: The Open-Records Officer participated in the following webinars conducted by the Office of Open Records (OOR) during the past month:</p> <ul style="list-style-type: none"> • None <p>2022-009 - Sisto Campana (AFSCME - Washington DC) Labor advocate for the American Federation of State, County and Municipal Employees performing a wage survey for one of our affiliates in Pennsylvania who work for a different wastewater treatment facility. Requesting non-personal wage and job description information of Capital Region Water positions similar to five job descriptions: (1) Sewer Maintenance Person; (2) Utility Person; (3) Waste Water Reuse Plant Operator; (4) Compost Operator; and (5) Inspector. As an example, if Capital Region Water doesn't have a job titled "Sewer Maintenance Person" but has a position that has duties, experience and qualifications that are similar to the attached "Sewer Maintenance Person" description, I would like to have information for that Capital Region Water position. This goes for all of the positions listed above. The information I am looking for from Capital Region Water would include the minimum wages and maximum wages, the job description, the experiences and qualifications needed for that position and the job title Capital Region Water uses. Response due: 6/13/2022. Response provided 6/9/2022 for 30-day extension until 7/13/2022. Final Response provided: 6/29/2022.</p> <p>2022-010 - Bret P. Shaffer, Esq. (Schiffman Sheridan & Brown, P.C.) Any bill/statement prepared/sent for services of CRW for/to any properties on the following segments of North 3rd Street, Harrisburg: between and including 1600 through 1646 North 3rd Street on the riverside (west) of North 3rd Street, and between and including 1601 through 1639 North 3rd on the opposite side (east) of North 3rd Street. Response due: 7/05/2022. Response provided: 6/29/2022 for 30-day extension until 8/4/2022. Final Response pending.</p> <p>2022-011 - Brianna Dinmore (Conrad O'Brien PC) [REDACTED] Response due: 7/25/2022. Response provided: 7/22/2022 for 30-day extension until 8/24/2022. Final Response pending.</p>



CAPITAL REGION
WATER

**DRINKING WATER DEPARTMENT
MONTHLY REPORT**



Newly upgraded sludge pump at Water Services Center.

June 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 June. Specific water quality results are summarized in Exhibit A. A total of 237.4 MG, averaging 7.91 MGD was withdrawn from the water supply source for treatment. As shown in Exhibit B, a total of 233.2 MG, averaging 7.77 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 June (Exhibit C) and the DeHart reservoir water level increased (Exhibit D). An estimated 340.6 MG of water was released from DeHart reservoir to Clark Creek, averaging 11.3 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).

The installation of soda ash feeder 804 was completed, and the new unit is operational. We will be running this unit for several weeks to verify that it is working properly. Once the operation of the unit is confirmed, we will be issued a permit of operation from PADEP. Sludge pump 607 was also replaced with a new pump and variable frequency drive (VFD). This unit replaced a unit that had lost its pumping capacity over the years, and with the addition of the new VFD, it will allow more flow control for the operators.

Plant Maintenance

The Maintenance team performed approximately 37 preventative maintenance work orders and one corrective maintenance work order for the month of June using the Cityworks maintenance management system for all water treatment plant equipment, pumping stations and fleet vehicles and NFS offices.

- The DeHart Dam watershed was patrolled daily and maintained.
- The Maintenance team repaired the existing blower for the HVAC unit in the Filter building.
- The Maintenance team repaired several leaks on the Operation and Maintenance buildings.
- The Maintenance team continues to support the requests and work orders for the NFS offices.
- The Maintenance team continues to cut grass and perform other landscaping duties at the Water Services Center, Pump Houses, DeHart Dam Facility and NFS offices.
- The Maintenance team repaired the heaters at the Reservoir Park Pumping Station.
- The Maintenance team continues to maintain the distribution and maintenance fleet vehicles and equipment.

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 88,843 gallons of unmetered water for the month of June.
- Repair six leaking services during the month totaling 466,560 gallons of unmetered water for the month of June.
- Repair three fire hydrants.
- CRW flushed 537 fire hydrants in June.
- Completed 342 work orders.
- Completed 513 water, sewer, and storm water locates.
- Continue leak detection daily.
- Work with contractors on several water, sewer, and storm water capital improvement projects.

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.
- Began collection of tri-annual lead and copper samples.



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	A	A								5% P
Chlorine Residual, mg/L Free														
Filter Plant Effluent	1.94	2.03	1.98	1.97	1.94	1.90							1.96	0.2 - 4.0
Distribution System	1.27	1.35	1.32	1.30	1.18	1.17							1.26	<0.02
Turbidity, NTU														
Influent from DeHart	0.57	0.55	0.61	0.72	0.67	0.69							0.64	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA							N/A	NA
Filter Plant Effluent	0.04	0.03	0.04	0.03	0.03	0.04							0.04	0.30
pH, Std Units														
Influent from DeHart	6.4	6.3	6.3	6.3	6.0	5.8							6.19	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA							N/A	NA
Filter Plant Effluent	7.4	7.5	7.5	7.6	7.6	7.6							7.52	6.5 - 8.5*
Distribution System	7.6	7.7	7.6	7.6	7.7	7.4							7.60	6.5 - 8.5*
Total Alkalinity, mg/L as CaCO3														
Influent DeHart	5	5	5	5	5	5							5.00	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA							N/A	NA
Filter Plant Effluent	13	18	16	15	17	19							16.48	<15*
Distribution System	15	17	15	16	16	20							16.40	<15*
Temperature, degrees C														
Influent from DeHart	6.6	6.0	7.4	9.5	12.2	14.8							9.42	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA							#DIV/0!	NA
Filter Plant Effluent	7.0	6.9	8.1	10.6	12.6	14.1							8.15	NA
Distribution System	15.3	12.9	13.3	14.6	17.6	21.9							14.03	NA
Fluoride, mg/L														
Filter Plant Effluent	0.57	0.58	0.57	0.52	0.64	0.55							0.56	2
Aluminum, mg/L														
Filter Plant Effluent	0.10	0.22	0.23	0.03	0.03	0.03							0.15	0.2*
Iron, mg/L														
Influent from DeHart	0.62	0.13	0.10	0.07	0.08	0.11							0.23	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA							N/A	NA
Filter Plant Effluent	0.01	0.02	0.01	0.01	0.02	0.01							0.01	0.3*
Distribution System	0.13	0.01	0.03	0.00	0.01	0.02							0.03	0.3*
Total Dissolved Solids, mg/L														
Influent from DeHart	13	13	14	15	16	16							14.70	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA							N/A	NA
Filter Plant Effluent	37	38	41	44	46	47							42.00	500*
Distribution System	39	40	38	45	46	49							43.07	500*
Total Hardness, mg/L														
Influent from DeHart	8	8	8	8	8	8							8.00	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA							N/A	NA
Filter Plant Effluent	8	8	8	8	8	8							8.02	NA
Distribution System	8	7	7	6	5	7							6.67	NA
Orthophosphate, mg/L														
Filter Plant Effluent	1.20	1.15	1.40	1.16	1.36	1.32							1.27	0.7 - 1.3*
Distribution System	1.23	1.14	NA	1.18	1.31	1.33							1.24	0.7 - 1.3*
**Total Trihalomethanes, ug/L														
Distribution System	0.035	NA	NA	0.041	NA	NA							0.04	0.080
**Total Haloacetic Acids, ug/L														
Distribution System	0.033	NA	NA	0.037	NA	NA							0.03	0.060
Total Organic Carbon, mg/L														
Influent from DeHart	3.00	NA	NA	2.40	NA	NA							2.70	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA							N/A	NA
Filter Plant Effluent	1.50	NA	NA	1.30	NA	NA							1.40	NA
Average Filter Run, Hours	114	116	116	115	114	116							115.17	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	231.932	7.482	0.000	0.000	231.932	7.482	239.807	7.735	6.563	0.212	230.430	7.433
June	237.403	7.913	0.000	0.000	237.403	7.913	242.242	8.075	6.000	0.200	233.202	7.773
July												
August												
September												
October												
November												
December												
Total	1368.496		0.000		1368.496		1404.006		35.239		1349.347	
Average	228.083	7.571	0.000	0.000	228.083	7.571	234.001	6.932	5.873	0.195	224.891	7.463

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	6.55	5.84	0.00	0.00	0.00	0.00	0.00	0.00	24.97
Daily Average	0.080	0.113	0.150	0.168	0.211	0.195	0.000	0.000	0.000	0.000	0.000	0.000	0.917
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	19.13	24.97	0.00	0.00	0.00	0.00	0.00	0.00	72.85

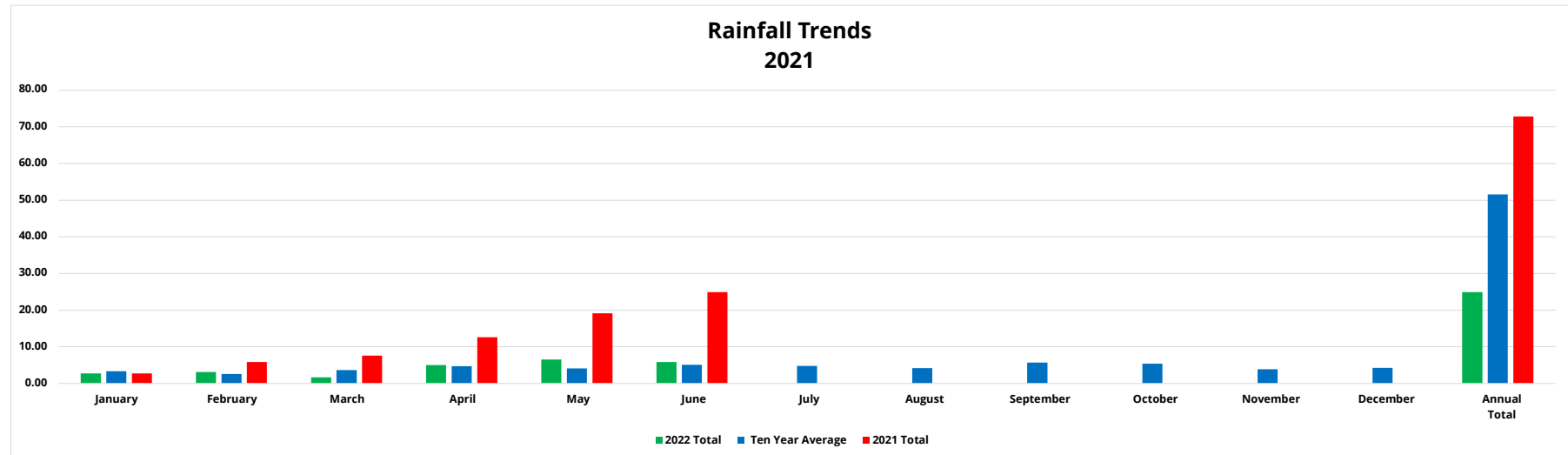


EXHIBIT D

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	4.1	7.2	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	11.9	15.9	0.0	0.0	0.0	0.0	0.0	0.0

DeHart Reservoir Water Level Trends
2021

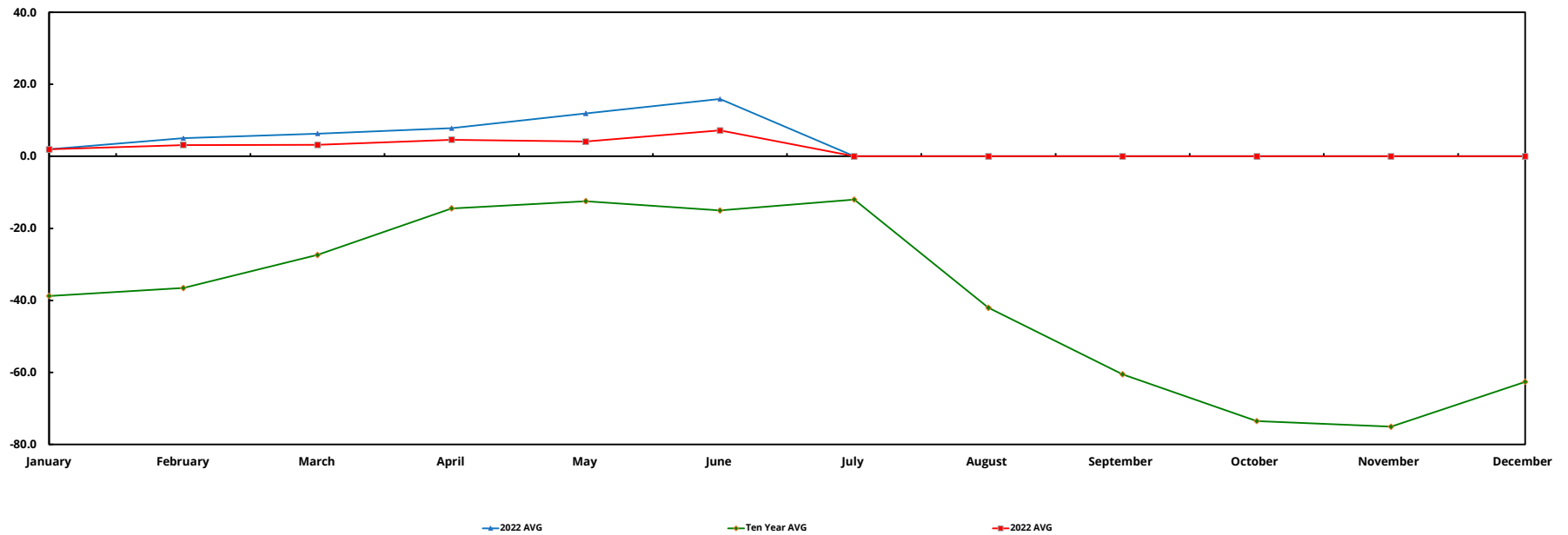


EXHIBIT E
Daily Conservation Release - 2022

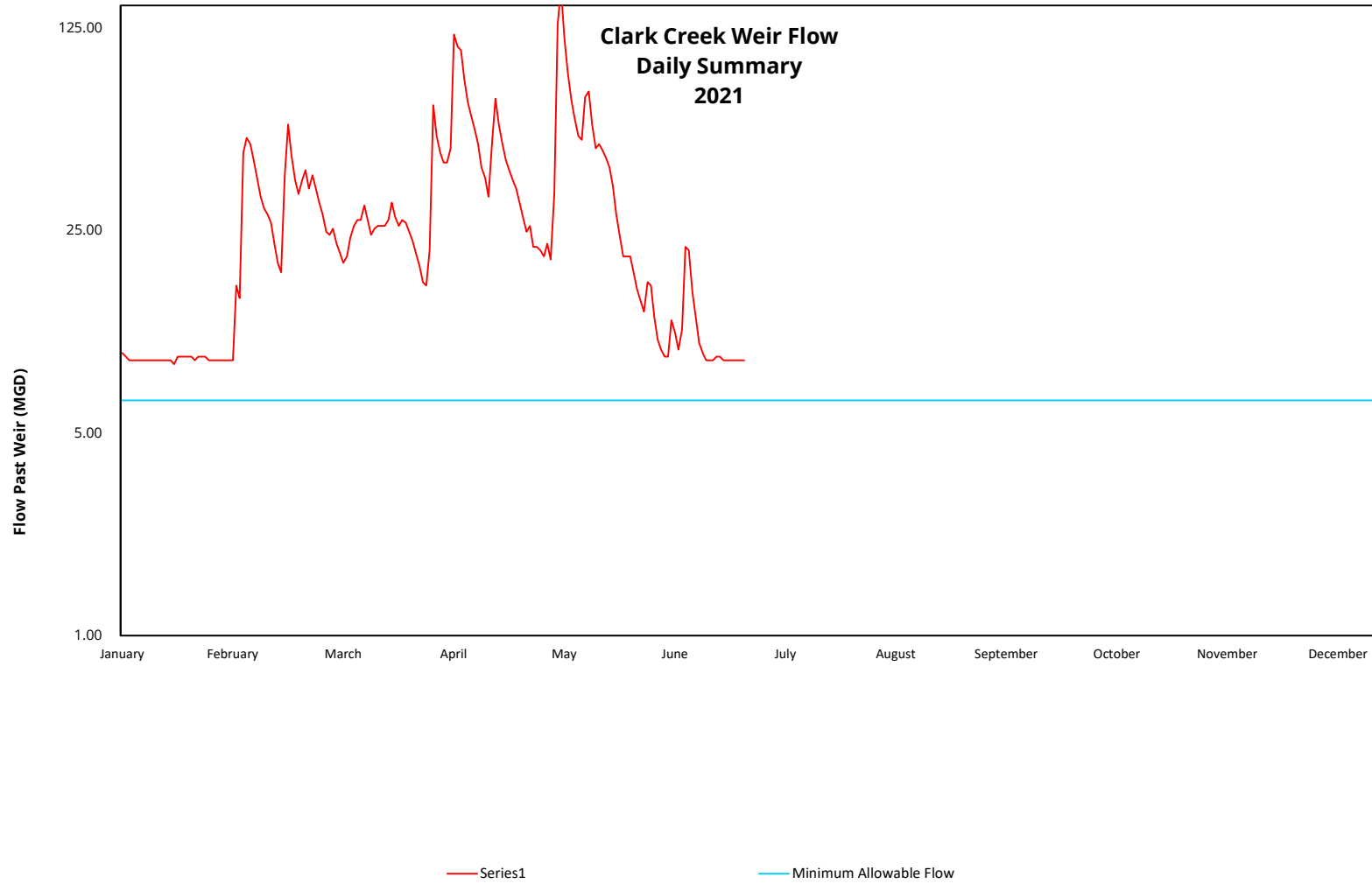




EXHIBIT F
Utility Usage - 2022

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	181,800									165,150	660,600
Cost, Dollars	\$12,915.36	\$8,967.54	\$8,888.73	\$11,610.27									\$10,595.48	\$42,381.90
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	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$6,115.20
Reservoir Park Pump Station														
Electric Transmission														
Total, kWh	84,800	84,800	81,600	82,400									83,400	333,600
Cost, Dollars	\$3,943.58	\$3,917.06	\$3,362.56	\$3,547.63									\$3,692.71	\$14,770.83
Electric Generation														
Total, kWh	84,800	84,800	81,600	82,400									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		600								1,350	5,400
Cost, Dollars	\$77.70	\$14.63	\$84.89		\$7.58								\$46.20	\$184.80
Electric Generation														
Total, kWh	1,800	1,200	1,800		600								1,200	6,000
Cost, Dollars	\$75.67	\$74.18	\$71.63		\$69.05								\$71.88	\$359.38
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	2,309									2,987	9,072
Cost, Dollars	152.42	\$312.67	\$150.83	\$127.58									\$185.88	\$591.08
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	2,470	2,209								2,643	13,217
Cost, Dollars	\$224.15		\$203.55	\$199.31	\$190.46								\$204.37	\$817.47
Electric Generation														
Total, kWh	2,965	2,845	2,728	2,499	2,209								2,649	13,246
Cost, Dollars	\$101.22	\$96.85	\$97.06	\$90.42	\$151.19								\$107.35	\$536.74
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		258								346	1,382
Cost, Dollars	\$23.33	\$20.65	\$19.97		\$11.81								\$18.94	\$75.76
Electric Generation														
Total, kWh	390	378	356										375	1,124
Cost, Dollars	\$65.29	\$65.27	\$64.99										\$65.18	\$195.55
Expenditures YTD													\$99,287	\$229,457

** Not available at time report was developed

Total Transmission	\$58,822
Total Generation	\$10,197
Total Refuse	\$6,115
Total Gas	\$24,096
Total Sewer	\$122,150
Total Fuel Oil	\$8,077
Total Utilities	\$223,342

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 (Partial Out of Service)	24,528	\$1,423
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	115,440	\$6,696

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

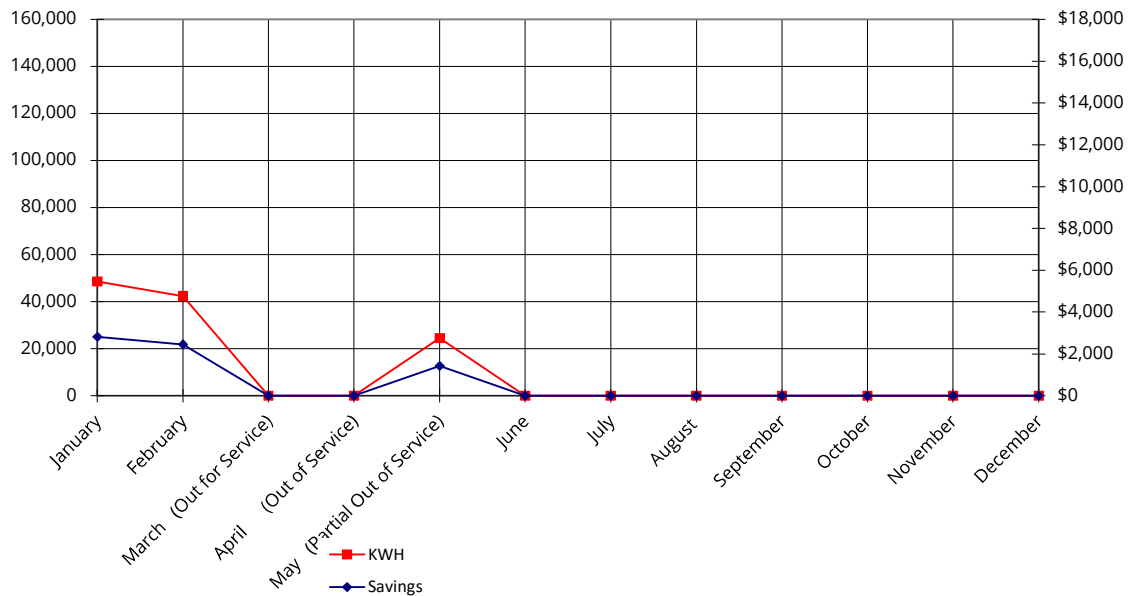


EXHIBIT H
Treatment Chemical Usage - 2022

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	6,296	6,356							6,139	36,836
Average, Chlorine Lbs./Day	199	219	198	191	203	212							203.7	
Average, Chlorine Dose, mg/L	3.2	3.2	3.2	3.2	3.2	3.2							3.2	
Chlorine Cost, \$/Lbs.	\$0.305	\$0.305	\$0.305	\$0.305	\$0.305	\$0.305							0.3	
Chlorine Total Cost, Dollars	\$1,885	\$1,871	\$1,871	\$1,749	\$1,919	\$1,939							\$1,872.32	\$11,233.90
Alum 48.5%														
Total Lbs.	48,096	46,683	42,713	38,071	38,686	37,906							42,026	252,155
Average, Alum, Lbs./Day	1,551	1,667	1,378	1,269	1,248	1,264							1396.2	
Average, Alum, mg/L	25.0	25.0	18.3	18.8	20.0	16.5							20.6	
Alum Cost, \$/Lbs.	\$0.164	\$0.164	\$0.164	\$0.164	\$0.164	\$0.164							0.2	
Alum Total Cost, Dollars	\$7,888	\$7,656	\$7,005	\$6,244	\$6,345	\$6,217							\$6,892.46	\$41,354.74
Lime														
Total Lbs.	0	0	0	0	0	0							0	0
Average Lime, Lbs./Day	0	0	0	0	0	0							0.0	
Average, Lime Dose, mg/L	0.0	0.0	0.0	0.0	0.0	0.0							0.0	
Lime Cost, \$/Lbs.	\$0.00	\$0.00	\$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							\$0.00	\$0.00
Soda Ash														
Total Lbs.	24,800	25,750	25,400	26,250	31,650	32,700							27,758	166,550
Average Soda Ash, Lbs./Day	800	920	819	875	1,021	1,090							920.8	
Average, Soda Ash Dose, mg/L	16.7	16.7	16.2	16.9	17.7	17.9							17.0	
Soda Ash Cost, \$/Lbs.	\$0.299	\$0.299	\$0.299	\$0.299	\$0.299	\$0.299							0.3	
Soda Ash Total Cost, Dollars	\$7,415	\$7,699	\$7,595	\$7,849	\$9,463	\$9,777							\$8,299.70	\$49,798.20
Fluoride														
Total Lbs.	1,155	1,193	1,168	1,111	1,202	1,215							1,174	7,044
Average, Fluoride Lbs./Day	37	43	38	37	39	41							39.2	
Average, Fluoride (F-) Dose, mg/L	0.6	0.6	0.6	0.6	0.6	0.6							0.6	
Fluoride Cost, \$/Lbs.	\$0.48	\$0.48	\$0.48	\$0.48	\$0.48	\$0.48							\$0.48	
Fluoride Total Cost, Dollars	\$554	\$573	\$561	\$533	\$577	\$583							\$563.57	\$3,381.40
Sodium Hydroxide 50%														
Total NaOH 50% dry Lbs.	41,600	36,660	38,202	36,068	41,385	42,323							39,373	236,238
Average NaOH 50%, dry Lbs./Day	1,342	1,309	1,232	1,202	1,335	1,411							1,305	
Average, NaOH 50%, mg/L	10.7	10.7	9.8	9.9	10.4	9.0							10.1	
NaOH 50% Cost, dry \$/Lbs	\$0.174	\$0.174	\$0.174	\$0.174	\$0.174	\$0.174							0.2	
NaOH 50% Total Cost, Dollars	\$7,238	\$6,379	\$6,647	\$6,276	\$720	\$7,364							\$5,770.73	\$34,624.40
Zinc Orthophosphate														
Total Zn3(PO4)2, wet Lbs.	5,142	5,057	5,034	4,712	5,189	5,251							5,064	30,385
Average Zn3(PO4)2, wet Lbs./Day	166	181	162	157	167	175							168.0	
Average, Zn3(PO4)2 Dose, mg/L	2.7	2.7	2.7	2.7	2.7	2.7							2.7	
Zn3(PO4)2 Cost, wet \$/Lbs.	\$0.374	\$0.374	\$0.374	\$0.374	\$0.374	\$0.374							0.4	
Zn3(PO4)2 Total Cost, Dollars	\$1,923	\$1,891	\$1,883	\$1,762	\$1,941	\$1,964							\$1,894.02	\$11,364.11
Potassium Permanganate														
Total KMnO4, Lbs.													#DIV/0!	0
Average KMnO4, Lbs./Day													#DIV/0!	
Average, KMnO4 Dose, mg/L													#DIV/0!	
KMnO4 Cost, \$/Lbs.													#DIV/0!	
KMnO4 Total Cost, Dollars													#DIV/0!	\$0.00
Expenditure														
Average Treated Cost per (MG)													#DIV/0!	\$151,756.75
Total Treated Flow (MGD)													#DIV/0!	#DIV/0!
Average Treated Flow (MGD)													#DIV/0!	0.000
														234.001

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	481	513							3,005	501
Street Restorations	0	0	0	0	0	0							0	0
Leak Detection Assessment <i>Percent of Distribution System</i>	8	8	8	8	8	8							48	8
Main Break Repair - Detected Non-Surfacing	1	0	0	0	0	0							1	0
Main Breaks Repaired - Emergency	2	6	3	1	3	1							16	3
Service Line Leaks Detected	2	10	0	0	0	3							15	3
Service Line Leaks Repaired	1	11	0	0	2	2							16	3
Valves - Exercised	0	0	0	2	0	0							2	0
Valves - Replaced	0	0	0	0	0	0							0	0
Hydrant Flow Tests	0	2	3	2	5	2							14	2
Hydrants Returned to Service	0	0	1	0	1	0							2	0
Water Tap - Disconnected	1	0	2	3	4	11							21	4
Water Tap - New Connection	1	1	1	1	0	1							5	1
Water Shutoffs - Delinquent Accounts	0	0	0	0	0	0							0	0
Water Shutoffs - Other	26	23	14	47	31	60							201	34
Water Shutoffs - Non Payment	0	0	0	37	31	41							109	18
Water Restoration Turn on Other	22	24	22	36	52	39							195	33
Water Turn on - Non Payment	5	6	5	24	14	22							76	13

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	6	13							41	7
	Leaking	7	1	3	1	4	1							17	3
	Frozen	10	6	6	5	1	0							28	5
	Non-registering	1	3	5	5	2	4							20	3
	Large Meters ¹	0	0	0	1	1	0							2	0
New Service	New Installation	0	1	1	1	0	1							4	1
Meter Service															
MXU's Replaced	MXU's Replaced	20	22	41	18	31	24							156	26
Batteries Replaced	Batteries Replaced	67	25	123	65	48	34							362	60
Meter Pits Serviced	Meter Pits Serviced	1	0	0	1	1	1							4	1
Meter Calibrations															
Small Meters ²	Calibrated meters	2	0	1	2	11	9							25	4

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	N/A	N/A							0	N/A
Billed Metered Exported	Bulk Water Hauling	N/A	N/A	N/A	N/A	N/A	N/A							0	N/A
Billed Metered	Hydrant Connections	0	0	0	8,176	359,716	81,274							449,166	74,861
Billed Unmetered	Hydrant Flow Tests	0	7,955	11,526	3,812	11,792	13,039							48,124	8,021
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	221,167	32,288	120,010	3,485,233	5,695,883	6,663,397							16,217,978	2,702,996
Leakage on Distribution Mains	Main Leaks	4,349,565	1,286,902	2,856,325	71,360	896,734	88,843							9,549,729	1,591,622
Leakage on Service Lines	Service Leaks	998,776	708,950	595,243	573,408	111,040	466,560							3,453,977	575,663
	Total	5,569,508	2,036,095	3,583,104	4,141,989	7,075,165	7,313,113							29,718,974	4,953,162



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WASTEWATER DEPARTMENT MONTHLY REPORT



Retirement of Randy Schaffer after 33 Years of Service.

June 2022

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

Overview

The Wastewater department continued its focus of staffing in June. Randy Schaffer, our Pretreatment Coordinator and Lab Supervisor, retired after more than 33 years of service to Harrisburg and the surrounding communities. Lab Technician Brian Hart was promoted to fill the void and is getting up to speed very quickly. A new Laborer was hired in the Maintenance group. Recruitment also continued with Operator and Laborer positions in the Plant Operations group and continues for the Electrician position. Interviews for the vacant Lab Technician position to replace Brian Hart is getting underway.

The flow maximization software program at the Front Street Pumping Station has been placed into service. There was one rain event in June that activated the program. It responded as intended, but several adjustments were made, and will continue to be made after each future event.

Seeding of Primary Digester No. 1 was delayed in June by the failed mixer gearbox on Digester No. 2. However, staff has proceeded with seeding process Digester No. 1 in July, and it is currently progressing as intended. So far, all equipment is performing as designed.

The “Food Slurry as Supplemental Carbon Source” pilot program was back in full swing and generating additional nitrogen credits that can be sold for significant non-rate revenue. Management staff is currently projecting to have approximately 100,000 credits available for sale for the 2022 Water Year, which ends on September 30th. CRW is currently in discussion with potential buyers.

Operations

During the month of June, the AWTF met all monthly average NPDES permit requirements. Three Dry Weather Overflows were reported.

Hydraulic loading to the AWTF averaged 19.4 million gallons per day (MGD). The treatment process achieved removal reductions of 97.1 percent CBOD, 98.0 percent Suspended Solids, 57.1 percent Phosphorus, and 95.9 percent Ammonia (Exhibit A).

Revenue of the Contract Waste Hauling program collected \$29,436.39 in revenue from 898,470 gallons discharged (Exhibit G). Revenue was lower due to low volumes of landfill leachate being offloaded.

The Cogeneration Facility experienced an average run time of 23 percent in June. Revenue is estimated at \$1,789.34 on 15,300 Kilowatt-hours generated for the month. The decrease in runtime is primarily due to the mechanical failures of the 38-year-old Enginotor unit.

Laboratory

- Refined existing procedures with NPDES testing, along with making a schedule for Biosolids, Priority Pollutant, and Local Limits testing.
- Purging laboratory files that are well past their retention requirements.
- Digitizing templates and forms for less paper consumption.
- Started updating all testing method SOPs to the 23rd Edition of Standard Methods.

Pretreatment

- Sending report templates to Document Specialist to digitize for an easy-to-use way to keep data up to date and file in an organized manner.
- Digitizing Industrial Use forms with Excel for better data management.
- Learning and studying about the pretreatment processes for each industrial user.
- Purging Pretreatment Program files that are well past their retention requirements.

Plant Maintenance

- Replaced 2-inch yard hydrant on the east side of Final Clarifier Tank.
- Removed remote gate access devices for the north and south entrances of the facility following the final completion of the Salto Security Access System installation.
- Excavated yard hydrant for replacement on the west side of Primary Clarifier No. 4.
- Installed new UPS battery backups in the Maintenance building, thickeners, and Pista Grit locations.
- Continued installation of Gorman Rupp Pump No. 3 in the Plant Drain Pump Station.
- Installed new pump control system and wet well level transducer in the Plant Drain Pump Station.
- Repaired 4-inch copper heating line to heat exchangers in the Primary Digester.
- Continued equipment replacement for grit convenience system in Primary Clarifier Tank No. 3.
- Assembled new drives in Primary Clarifier Tank No. 4.
- Continued repairs to the sewage pump air relief valves and pump control systems at the Spring Creek Pump Station.
- Installed rebuilt lift cylinder on the truck crane.
- Performed 15 vehicular repairs in preparation for state inspections.
- Serviced A/C units on several trucks.
- Responded to work requests as needed at the NFS Office.

Field Construction

- Repaired six inlets in various locations throughout the city.
- Worked on completing all work capable of being done in-house for the first phase of the CDM Smith regulator modifications. This included chaining open selected B&B gates and raising weirs for the Hemlock Street interceptor. Maintenance was also done on the flapper gates and flood gates to try and prevent backflow from Paxton Creek.

Field Operations

- A total of 3,430 feet (0.65 miles) of sewer pipe were assessed by CCTV footage throughout the month. Phase 6 CCTV has started but information is not available yet.
- A total of 831 feet (0.16 miles) of pipe were flushed during the month.
- Responded to 18 backup and overflow calls from residents. CRW was liable for none.
- Responded to 12 sinkhole calls. Wastewater was liable for none, and Drinking Water was liable for none.
- Cleaned 209 stormwater inlets.
- Inspected 202 stormwater inlets.
- There were three dry weather overflows: one at CSO #039 S. Mulberry and Cameron Streets, one at CSO #017 Front and Market Streets, and one at CSO #024 Hill Chamber T.R.W..
- There were no SSO's this month.
- Washed walls and floors of wet well and bar screen at the Front Street Pump Station.
- Added Joe Moore and Kevin Martin as the tenth crew members to the Field Operations Staff.
- Completed one CSO semi-annual PM at CSO #048.
- Scott Rotolo and Brandon Harris completed recertification of MACP, LACP, and PACP.

Environmental Compliance

- Completed four inspections of Fats Oils and Grease (FOG) dischargers. Four locations received letters of non-compliance with compliance plans.
- Issued two permit renewals.
- Issued three FOG-related Notice of Violations (NOVs).
- Two investigations were conducted during the month of June:
 - A CSO at South Mulberry and Cameron Streets recorded two dry-weather overflows in less than 30 days with very limited upstream contributors. The investigation was inconclusive, but likely caused by downstream blockages on the discharge side of the CSO leading to the Paxton Creek interceptor. That line was flushed multiple times from both directions and has had no issues since.



-
- While investigating the cause of dry-weather overflows at CSO-#039 (South Mulberry and Cameron Streets), it was discovered SWOUT-000035 was discharging to the Paxton Creek with no recorded rainfall for more than 72 hours. It was determined the source of the flow was groundwater entering the system through defects in SWP-007616.
 - FOG-related inspections/operations were suspended due to temporary reallocation of staff.

Street Sweeping

- Received no complaints this month.
- Completed 475 miles of street sweeping within the City of Harrisburg in June.
- Continued to sweep area of Reservoir Park. It will be included in Areas 1, 6, and 9.
- Water usage was approximately 11,000 gallons.
- Continued to assist cleaning storm inlets in scheduled sweeping areas.
- When the days of the month fall on a 5th week, there is no scheduled sweeping. However, the Street Sweeping group will be assigned specific assignments throughout the city to continue the upkeep in highly visible areas. At the end of June, the Street Sweeping group swept an additional 18 miles (included in total miles swept) and continued to clean off storm inlets.



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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	28.6	19.4							22.8	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/L	176	129	163	121	128	138							143	-----
Effluent, mg/L	3	3	3	3	3	4							3	25
Percent Removal, %	98.1	93.3	97.9	97.0	95.9	97.1							96.6	-----
Effluent Loading, lb/d	520	846	572	724	955	637							709	7,860
Suspended Solids:														
Influent, mg/L	177	149	212	144	139	153							162	-----
Effluent, mg/L	4	4	3	2	3	3							3	30
Percent Removal, %	97.5	92.4	98.6	98.3	96.7	98.0							96.9	-----
Effluent Loading, lb/d	715	1,397	499	569	907	650							790	9,433
Nitrogen														
Total-N														
Influent, mg/L	26	24	26	20	21	N/A							23	-----
Effluent, mg/L	3.1	4.3	5	5.0	5.9	4.5							5	Monitor
Percent Removal, %	88.0	82.2	80	75.1	71.5	N/A							79.4	-----
Effluent Loading, lb/d	469	719	778	996	1,170	705							806	-----
NH3-N														
Influent mg/L	16	13	15	11	10	15							13	-----
Effluent, mg/L	0.7	1.8	2.3	0.7	1.7	0.6							1	11 (2)
Percent Removal, %	95.5	85.7	84.4	93.8	83.2	95.9							89.7	-----
Effluent Loading, lb/d	113	386	411	157	323	99							248	4,716
Phosphorus:														
Influent, mg/L	3.5	2.8	3.6	2.9	2.9	3.5							3.2	-----
Effluent, mg/L	0.9	1.0	1.6	1.1	1.1	1.5							1.2	2.0
Percent Removal, %	71.6	63.4	53.6	63.1	62.2	57.1							61.8	-----
Effluent Loading, lb/d	144	206	274	220	239	240							221	629
pH:														
Influent, Std. Units	7.4	7.1	7.3	7.3	7.2	7.3							7.3	-----
Effluent, Std. Units	7.0	6.7	7.0	6.9	7.0	7.0							6.9	6.0 - 9.0
Dissolved Oxygen:														
Effluent Minimum, mg/L	7.0	7.7	7.1	7.0	7.2	6.3							7.1	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	6	6	1	4	2	3							4	200/100 ml (1)
Chlorine Residual:														
Effluent, mg/L	0.19	0.20	0.19	0.21	0.41	0.36							0.26	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	28.600	14.310	14.290	11.442	0.246	0.300	2.099	0.223	1.800	4.578	2.830	4.666	0.416	6.030
June	19.400	9.085	10.315	7.097	0.162	0.300	1.275	0.251	1.400	3.274	1.863	3.330	0.448	4.170
July														
August														
September														
October														
November														
December														
Average	22.78	10.34	12.44											3.52
Percent	100.00	45.39	54.61											21.14

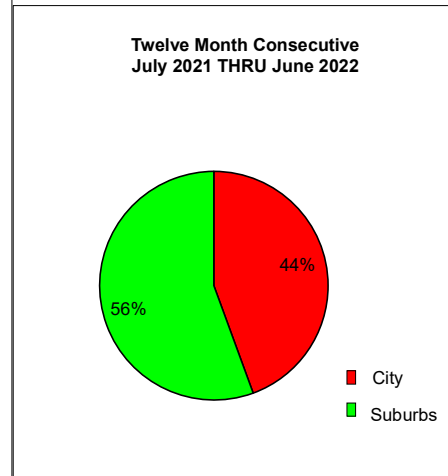
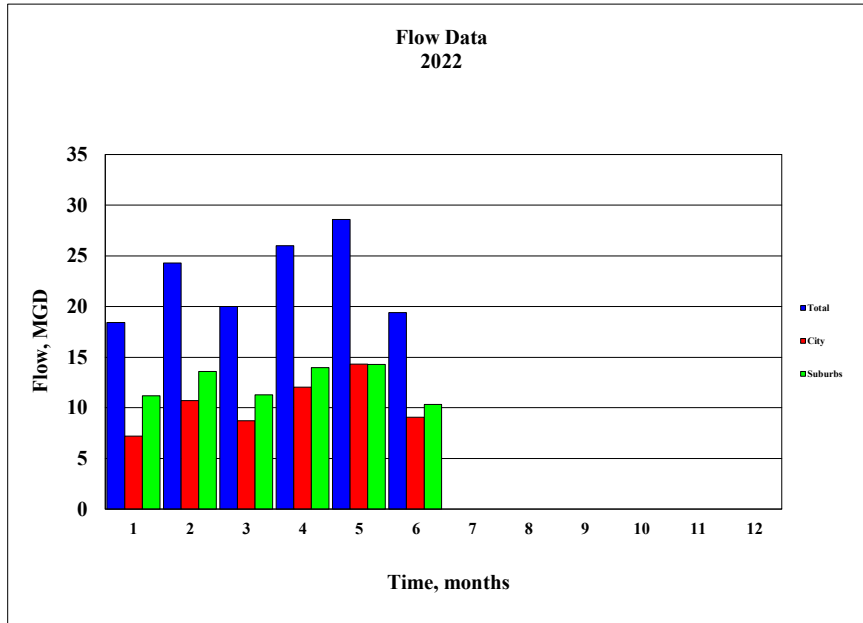


EXHIBIT C

**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	1,072,500	969,300		*						871,000	5,226,000
Average, kWh/Day	36,513	36,879	32,894	35,750	31,268		*						34,661	-----
Cost, Dollars	\$70,491.63	\$72,766.82	\$64,633.22	\$70,097.82	\$65,581.40		*						\$57,261.82	\$343,570.89
Natural Gas														
Total, Cu Ft	905.6	647.3	401.4	292.5	32.4		*						380	2,279
Average, Cu Ft/Day	29	23	13	10	1		*						15	-----
Cost, Dollars	\$7,509.60	\$5,404.37	\$3,544.64	\$2,689.99	\$413.51		*						\$3,260.35	\$19,562.11
Water														
Total, Gal.	681,000	871,833	743,167	1,166,000	1,126,000		*						917,600	4,588,000
Average, Gal./Day	21,968	31,137	23,973	38,867	36,323		*						30,453	-----
Cost, Dollars	\$10,384.54	\$12,357.75	\$11,027.35	\$15,399.44	\$14,282.72		*						\$10,575.30	\$63,451.80
MicroC														
Total, Gal.	0	0	0	0	0		0						0	0
Average, Gal./Day	0.0	0.0	0.0	0.0	0.0		0.0						0	-----
Cost, Dollars	\$0	\$0.00	\$0	\$0	\$0		\$0						\$0.00	\$0.00
Sodium Hydroxide														
Total, Gal.	0	0	0	0	0		0						0	0
Average, Gal./Day	0	0	0	0	0		0						0	-----
Cost, Dollars	0	0	0	0	0		0						\$0.00	\$0.00
Chlorine Disinfection														
Total, Lbs.	5,340	6,020	5,100	7,150	8,720		7,955						6,714	40,285
Average, Lbs./Day	172	215	165	238	281		265						223	-----
Avg Residual, mg/L	0.19	0.20	0.19	0.21	0.41		0.41						0.27	-----
Cost, \$/Lbs.	\$0.99	\$0.99	\$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	\$8,632.80		\$7,875.45						\$6,647.03	\$39,882.15
Phosphorous Removal														
Total FeCl3, Gals.	507	1,333	1,634	2,743	2,417		2,675						1,885	11,309
Avg FeCl3, Gals./Day	16	48	53	91	78		89						63	-----
FeCl3 Cost, \$/Gal.	\$1.26	\$1.26	\$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	\$3,045.42		\$3,370.00						\$2,374.81	\$14,248.84

* 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	\$1,473.57
August 2021		26	784	24,300	\$2,841.89
September 2021		27	1,260	37,800	\$4,420.71
October 2021		26	1,103	34,200	\$3,999.69
November 2021		12	510	15,300	\$1,789.34
December 2021		2	87	2,700	\$315.77
<hr/>					
Total - 2021				672,300	\$56,853.12
Monthly Average - 2021		39	1,858	56,025	\$4,737.76
January 2022		2	58	1,800	\$210.51
February 2022		37	1,093	30,600	\$3,578.67
March 2022		33	958	29,700	\$3,473.42
April 2022		43	1,710	51,300	\$5,999.54
May 2022		53	1,687	52,200	\$6,104.79
June 2022		23	510	15,300	\$1,789.34
July 2022					
August 2022					
September 2022					
October 2022					
November 2022					
December 2022					
<hr/>					
Total - 2022				180,900	\$21,156.26
Monthly Average - 2022		32	1,003	30,150	\$3,526.04

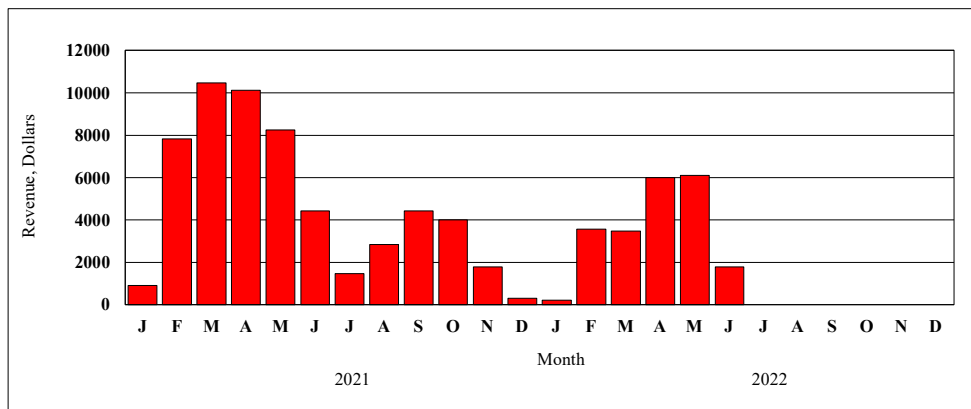


EXHIBIT E

**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	1,041,739	1,063,962							1,050,468	6,302,807
CWH Program, Lbs.	69,353	76,120	124,956	61,652	122,100	72,880							87,843	527,061
Total Solids, Lbs.	906,149	884,724	1,381,413	1,356,901	1,163,839	1,136,842							1,138,311	6,829,868
Sludge Dewatering														
Feed Volume, Gals.	3,577,000	2,678,000	4,535,000	5,007,000	4,782,000	6,279,000							4,476,333	26,858,000
Feed Solids, %	1.7	1.7	2.0	1.8	2.0	1.4							1.8	-
Labor, Hours	459	416	659	644	561	659							566	3,398
Operations, Hours	930	785	1,132	1,058	962	1,181							1,008	6,047
Total Cake, Dry Tons	179	167	312	295	281	279							252	1,513
Total Cake, Wet Tons	1,149	1,069	1,855	1,682	1,533	1,570							1,476	8,858
Cake TS, %	15.5	15.6	16.8	17.6	18.4	17.8							17.0	-
Press Rate, Lbs./Hour	2,472	2,725	3,279	3,179	3,186	2,659							2,917	17,500
Polymer Dosage, Lbs	3,188	2,976	4,605	5,056	4,545	5,358							4,288	25,728
Polymer Dosage, Lbs/Dry Ton	20.4	19.4	15.1	17.5	16.9	19.2							18.1	-
Disposal Cost														
Labor, Dollars	\$8,821.98	\$7,995.52	\$12,665.98	\$12,383.45	\$10,778.58	\$12,665.98							\$10,885.25	\$65,311.48
Electrical, Dollars	\$409.07	\$345.18	\$497.86	\$465.56	\$423.37	\$519.64							\$443.45	\$2,660.68
Polymer, Dollars	\$6,216.60	\$5,803.20	\$8,979.75	\$9,859.20	\$8,862.75	\$10,448.10							\$8,361.60	\$50,169.60
Disposal, Dollars	\$27,763.12	\$91,664.12	\$107,614.33	\$87,453.98	\$89,783.89	\$85,636.00							\$81,652.57	\$489,915.45
Total Cost, Dollars	\$43,210.77	\$105,808.02	\$129,757.92	\$110,162.19	\$109,848.58	\$109,269.72							\$101,342.87	\$608,057.21
Cost Per Dry Ton, Dollars	\$241.40	\$633.58	\$415.89	\$373.43	\$390.92	\$391.65							\$407.81	

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	187,200	190,800	93,600							185,200	1,111,200
Average, kWh/Day	7,510	7,843	6,039	6,240	6,155	3,120							6,151	-----
Cost, Dollars	#####	\$14,468.72	\$10,417.84	\$12,381.18	\$13,421.18	\$5,141.58							\$11,785.60	\$70,713.62
Fuel Oil														
Total, Gals.	0	0	0	0	0	0							0	0
Average, Gals./Day	0	0	0	0	0	0							0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							0	\$0.00
Water														
Total, Gals.	315,000	180,833	479,167	261,819	397,181	*							326,800	1,634,000
Average, Gal./Day	10,161	6,458	15,457	8,727	12,812	*							10,723	-----
Cost, Dollars	\$3,953.62	\$2,566.33	\$5,651.11	\$3,403.73	\$4,803.37	*								\$20,378.16
Spring Creek Pump Station														
Electric														
Total, kWh	36,160	52,160	55,040	85,120	96,960	79,360							67,467	404,800
Average, kWh/Day	1,166	1,863	1,775	2,837	3,128	2,645							2,236	-----
Cost, Dollars	\$2,617.50	\$3,866.14	\$3,752.30	\$6,514.96	\$7,873.63	\$6,791.79							\$5,236.05	\$31,416.32
Fuel Oil														
Total, Gals.	0	0	0	0	0	0							0	0
Average, Gals./Day	0	0	0	0	0	0							0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							\$0.00	\$0.00
Water														
Total, Gals.	25,000	39,000	106,000	79,333	224,667	*							94,800	474,000
Average, Gal./Day	806	1,393	3,419	2,644	7,247	*							3,102	-----
Cost, Dollars	\$334.49	\$479.25	\$1,172.03	\$896.29	\$2,399.05	*							\$1,056.22	\$5,281.11
Market Street Pump Station														
Electric														
Total, kWh	1,200	1,200	1,080	960	1,080	840							1,060	6,360
Average, kWh/Day	39	43	35	32	35	28							35	-----
Cost, Dollars	\$207.27	\$123.51	\$121.40	\$237.38	\$146.40	\$66.71							\$150.45	\$902.67
Fuel Oil														
Total, Gals.	0	0	0	0	0	0							0	0
Average, Gals./Day	0	0	0	0	0	0							0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kWh	40	40	40	40	40	40							40	240
Average, kWh/Day	1	1	1	1	1	1							1	-----
Cost, Dollars	\$63.36	\$54.75	\$61.50	\$63.19	\$56.52	\$53.56							\$58.81	\$352.88

* 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	1,599,990	\$46,377.27	250,650	\$8,874.90	1,850,640	\$55,252.17
June	583,370	\$18,218.79	315,100	\$11,217.60	898,470	\$29,436.39
July						
August						
September						
October						
November						
December						
Total - 2022	6,094,167	\$180,628.80	1,153,325	\$40,912.10	7,247,492	\$221,541.00
Monthly Average - 2022	1,015,695	\$30,104.80	192,221	\$6,818.68	1,207,915	\$36,923.50

