

February 2023 As of March 15, 2023 Page 1 of 6

Ensure Financial Stability	
Reconciled Bank Account Balances	Refer to attached Reconciled Bank Account Balances as of 2/28/2023.
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	Provided separately to Board of Directors.
Drinking Water	
Capital Improvement Projects for	Provided separately to Board of Directors.
Wastewater	
Grant Management	Refer to attached Grant Management Report.

Ensure Revenues are Consistent with System Usage									
Water Shut-offs	There were 0 water shut-offs for non-payment, One (1) was turned back on after payment from previous months' shut offs, and 11 service shut-off requests.								
Repair/Replace Meters/MXUs/Batteries	Drinking Water Distribution staff replaced 23 water meters, replaced 323 batteries, and 43 MXUs.								
Reduce Wet Weather Impacts to Infrasti	ructure, Community, and Receiving Waters								
Negotiate with PADEP/U.S. EPA/DOJ on	The Modification of the Partial Consent Decree was lodged on 2/13/2023 and placed on the Federal Registry for public comment. Public comment is open until 3/20/2023.								
Past and Future Practices									
Develop Necessary Planning for	No update.								
Implementation of Green									
Infrastructure									
Joint Pollutant Reduction Plan -	No update.								
Collaborate with Suburban Partners on									
MS4									
Obtain and Comply with Individual MS4	No update.								
Permit									

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.									
	The AWTF met all NPDES permit parameters for the month of February. No Sanitary Sewer Overflow or Dry Weather Overflows were reported.									
Notice of Violations (NOVs)	The Drinking Water Department received a Notice of Violation in February. All required samples were obtained and results were within all water quality parameters, but a									
	subcontracted lab failed to report results to PADEP within the required timeframe. This late reporting violation will simply require publication in next year's Annual									
	Consumer Confidence Report (CCR).									
	There were no NOVs received by the Wastewater department in February.									
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 February.									



February 2023 As of March 15, 2023 Page 2 of 6

ссту	A total of 7,180 feet (1.36 miles) of sewer pipes were assessed by CCTV footage during the month of February. A total of 2,783 feet (0.52 miles) of pipe were flushed as well.
Incident Response	Wastewater responded to seven (7) backup and overflow calls from residents during the month of February. CRW was liable for none.
	• Seventeen (17) Pennsylvania One Call tickets were completed. Eight (8) required maps and nine (9) had no CRW-owned facilities in the project area.
	Bi-weekly meetings were held with KCI Technologies, Inc.
Geographic Information System (GIS)	Progress continues with the development of the ESRI "Lead Service Line Inventory Solution".
	Approximately 150 assets were GPS'd.
	• In person GIS update sessions were held twice at AWTF.
Cityworks	
Asset Management	Phase 1, year 2 active tasks per the assigned Asset Management Roadmap Implementation Groups (RIG):
	Decision Making Canital Blanning BIC
	 Decision Making Capital Planning RIG Completed Design Requirements, finalized asset naming convention language for inclusion in CRW record drawing requirements, design documents and integrated CRW's
	Strategic Asset Management Plan. • Future state will be to pilot use of newly developed Construction and Design Requirements into project(s).
	Future state will be to pilot use of newly developed Construction and Design Requirements into project(s).
	Information System Data Management RIG
	Future Commissioning and Decommissioning asset workflows are under review to align with recently completed Design Requirements.
	Operations & Maintenance RIG
	The collection system Asset Management Plan (AMP) schedule is being adjusted to accommodate time for additional data matters.
	• Rehabilitation and Replacement Schedule of costs completed and will be utilized in creating a 20-year capital improvement plan for the collection asset management plan.
	Organizational Framework RIG
	• Not started.
	The lead service line inventory working group held a monthly meeting on 2/21/2023, Work is in progress.
	Met with Strategic Initiatives team on 2/23/2023 to continue steps for future tracking AM stakeholder interaction levels of service, performance metrics and reporting
	requirements.
	• Met with Diversity Program Manager on 2/22/2023. As a result, process improvements were made to tracking asset management professional services.
Dovolonment Poviow Summary	For details, see attached Development Stormwater Management Review Summary spreadsheet for March.
Development Review Summary	roi details, see attached Development stormwater management keview summary spreadsheet for march.



February 2023 As of March 15, 2023 Page 3 of 6

Undertake Capital Improvement Project	ts - Refer to attached Capital Improvement Projects Report								
Professional & Contractor Services	Recommend Board approval of the following Resolutions, Task Orders, Change Orders and Agreements:								
	Drinking Water:								
	• Resolution No. 2023–005 Authorization for Cost Sharing Agreement with PennDOT for Cameron/Maclay Intersection Project								
	• Resolution No. 2023–006 Authorization for Cost Sharing Agreement with PennDOT for I-83 Expansion Project								
	• Task Order 2023-06-01: Engineering Services for GIS Support								
	• Cameron Street Water Main Improvements Project Phase 4 – Recommendation of Award								
	Wastewater:								
	Basic Ordering Agreement and Task Order 2023-08-01: Engineering Services for CBH2OPP Water Quality Services								
	Stormwater: None.								
Stormwater O&M Agreements	Recommend Board approval of the following: None.								
AWTF Primary Digesters Rehabilitation	The contractors are addressing punch list items and site cleanup. Final change orders are expected for the April Board meeting.								
AWTF Energy Recovery Improvements	No update. Permit applications are being reviewed by PADEP.								
Front Street Pumping Station	The contractors are addressing punch list items and site cleanup. Final change orders are expected for the April Board meeting.								
Improvements									
WSC Flocculator Equipment	A substantial completion inspection was held on 3/2/2023. The contractors are addressing punch list items.								
Replacement									

Undertake Renewal and Replacement P	rojects
2022 Water System Improvements	Installation of water main continues in the Sylvan Terrace neighborhood.
Cameron Street Water Main - Phase 4	Bids were received 3/7/2023. Refer to the agenda for a recommendation of award.
2023 Sewer System Improvements	The contractor continues construction with inlet replacement along 15th Street.
(Excavation)	
2023 Sewer System Improvements	The contractor continues to provide submittals for approval before physical construction can begin.
(Trenchless)	
Arsenal Boulevard Sewer	No update. We are working with property owners to acquire temporary and construction easements needed before advertising the project.
Front Street Interceptor Rehabilitation	The bypass pipe is installed and in service. The contractor plans to begin cured in place piping (CIPP) lining activities on 4/3/2023.
Phase 2	
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, pumping stations, and at the North Front Street office building throughout the month
	of February. A narrative is provided in the Wastewater Department Monthly Report.
Sinkhole Program	One sinkhole was investigated by CRW in the month of February. CRW was liable for none.
Inlet Cleaning	A total of 136 stormwater inlets were cleaned during the month of February, and 134 stormwater inlet inspections were performed.



February 2023 As of March 15, 2023 Page 4 of 6

Operate as an Efficient, Sustainable and Resilient Water Utility									
DeHart Property Stewardship	accordance with the DeHart Property Forest Management Plan, a regeneration harvest is underway in MUs 20, 34, 36, and 37 (approximately 155 acres). Harvest will prove forest health and release regeneration of a more desirable understory.								
Sustainability	Annual forest management planning meeting was held 2/21/2023. Development of a Request for Proposals (RFP) is underway for a solar project.								
Internal Communications	Intranet (Sharepoint) site continues to be used. The Q1 internal newsletter, The Daily Flow, was released. The Q1 all employee meeting was held on 1/31/2023.								

Inform and Listen to Customers and	Encourage Stewardship of our Systems							
Media Relations - Press and Social	PRESS RELEASES:							
Media	2/07/2023: "CAPITAL REGION WATER TO HOST PUBLIC FEEDBACK SESSION".							
	2/13/2023: "HISTORIC MOMENT FOR CLEAN WATER AS MODIFICATION TO THE PARTIAL CONSENT DECREE IS FILED".							
	SOCIAL MEDIA TOPICS:							
	Facebook: 1 New Organic Follower (1,611 Total). Eight (8) Posts and one (1) Event Post; Highest Engaged Post: "Public Comment Period Now Open" (201 Reachs, 14							
	Reactions, 6 Likes, 4 Comments, 4 Shares); Other topics: Public Feedback Session (invites and thank you), Presidents Day, Board Meeting, and Public Comments.							
	Twitter: 0 Tweets; Month overview: 137 total Impressions; 321 Profile Visits; 4 New Followers; 6 Mentions.							
	Instagram: 6 New Followers (682 Total), 6 Posts; Highest Engaged Post: "Public Comment Period Now Open," 203 Organic Reachs, 6 likes, 4 comment, 4 shares, 2 saves.							
	2023 Demographics: Most Active Age-range: 25-54; Gender division: 62% women / 37% Men; Locations: Harrisburg, Penbrook, Mechanicsburg, Steelton, Linglestown, Camp Hill and Lancaster.							
Community Relations	Community Outreach:							
	One (1) community event (City Beautiful H2O Public Feedback Session).							
	• Three (3) community meetings (CRW Community Ambassadors, Harrisburg Young Professionals, and Giant Company).							
	• Delivered twelve (12) door-to-door notifications impacting approximately two hundred ninteen (219) customers. Included eleven (11) project notifications, three (3)							
	requiring water service interruptions, and one (1) emergency sewer repair.							
	• Zero (0) Everbridge alerts.							
Public Communications	WHAT'S ON TAP COMMUNICATION: The February monthly bill stuffer was distributed as a bill insert. Topics included: "New Rates, Modifications to Partial Consent Decree							
	information and Public Feedback Session invite.							
Diversity	No update.							



February 2023 As of March 15, 2023 Page 5 of 6

Administrative	
Risk Management	Insurance Claims: No update.
	Training: No update.
Human Resources	For details, see attached Recruiting Status Report.
Procurement	Procurement Specialist assisted Drinking Water and Wastewater facility supervisors in procuring:
	• C-90 - Salt Spreader
	• C-100 - Air Compressor
	• C-101 - Zero Turn Mower w/60" deck
	• G-87 - Zero Turn Mower w/60" deck
	• G-88 - Zero Turn Mower w/72" deck
	Procurement staff continue to identify and assist in establishing contracts that include fixed rate pricing and discounts with frequently used vendors for goods and services.
	Recommend Board approval of the following:
	• None
Information Technologies (IT)	
,	



February 2023 As of March 15, 2023 Page 6 of 6

Office Management and	Incoming Correspondence Report: Refer to attached Incoming Correspondence Report for February 2023.								
Admin Professional Services and									
Construction	Street/Sidewalk-Cut Permits: One (1) Sewer and four Drinking Water permits were issued. Two (2) Sewer permits and two Drinking Water permits were successfully								
	completed, inspected, and closed by the City of Harrisburg's Engineer.								
	Fleet Acquisitions: Assisted Operations staff in compiling 2023 budgeted vehicles and equipment specifications and obtaining quotes from vendors.								
	Recommend Board approval of the following:								
	Drinking Water:								
	• C-99 - 2023 Ford F-250 Super Duty Truck								
	• C-102 - 2023 Ford Escape SE AWD								
	• C-103 - 2023 Ford Transit Connect XL Van								
	• C-104 - 2023 Ford Escape SE AWD								
	• C-105 - 2023 Ford F-150 XL 4X4 SuperCab with Upfit								
	• C-106 - 2023 Ford F-150 XL 4X4 SuperCab with upfit								
	<u>Wastewater</u> :								
	• G-90 - 2023 Ford F-350 Turbo Diesel 4X4 Truck								
	• G-91 - 2023 Ford F-250 Regular Cab Truck								
	• G-93 - 2023 ProMaster High Roof CCTV Van								
	• G-94 - 2023 Ford F-150 XL 4X4 Pickup Truck								
Right-to-Know Requests	CRW has received and responded to zero (0) Right-to-Know requests during the period 2/16/2023 through 3/15/2023. Other informational requests were identified as not being formal RTK requests and/or were transferred to the Customer Service Center for appropriate response throughout the month,								
	OOR Training: Open Records Officer participated in webinar on 3/8/2023 with the Pennsylvania State Archives/Pennsylvania Historical and Museum Commission on Digitizing Municipal Records, a Practical Discussion.								



DRINKING WATER DEPARTMENT MONTHLY REPORT



Containment wall construction for the Lime Slurry project.

February 2023

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



Drinking Water Department Monthly Report

February 2023

Plant Operations

The Capital Region Water (CRW) Drinking Water department met all Federal Safe Drinking Water Act water quality standards for the month of February. However, a late-reporting Notice of Violation (NOV) was received due to late subcontracted lab reporting results to PADEP. More information is available in the Water Quality section of this report.

Specific water quality results are summarized in Exhibit A. A total of 202.799 MG, averaging 7.243 MGD was withdrawn from the water supply source for treatment. As shown in Exhibit B, a total of 202.279 MG, averaging 7.224 MGD, of finished drinking water was pumped to the distribution system.

The DeHart water source was in service 28 days. The Susquehanna River water source was in service for zero days.

The DeHart Watershed had below average rainfall in February (Exhibit C) and the DeHart reservoir water level increased (Exhibit D). An estimated 369.54 MG of water was released from DeHart reservoir to Clark Creek, averaging 14.78 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 Flocculator project has been completed on the A Basin side and the B Basin side. The Lime Slurry project is underway now.

Plant Maintenance

The Maintenance team performed approximately 63 preventative maintenance work orders and one corrective maintenance work order for the month of January using the Cityworks maintenance management system for all water treatment plant equipment, pumping stations and fleet vehicles.

- The DeHart Dam watershed was patrolled daily and maintained.
- The Lime Silo Demolition project is complete.
- The Maintenance team install blank caps on the two existing 40k gallon carbon feed tanks.
- The Maintenance team constructed 70 feet of containment wall forming for new concrete containment walls.
- The Maintenance team installed temporary bypass valving and chemical feed lines for the upgrades of the existing Orthophosphate system.



Drinking Water Department Monthly Report

February 2023

- The new Aluminum Sulfate Chemical Injection system is currently under testing for commissioning and DEP approval.
- The Maintenance team is installing several electrical upgrades for the Lime Slurry and Rotork actuator installations.
- The Lime Silo Tank Slurry feed system project is in progress.
- The Maintenance team replaced two process sampling pumps on the A and B side of the system.
- The Maintenance team continues to do snow removal and perform other winter duties at the Water Service Center, pump houses, and DeHart Dam facility.
- The Maintenance team continues to maintain the distribution and maintenance fleet vehicles and equipment.

Distribution

The Distribution group completed the following work during the month of February:

- Repaired five leaking services during the month totaling 41,760 gallons of unmetered water.
- Repaired one main break 2,836,746 gallons of unmetered water.
- Completed 576 work orders.
- Completed 430 water, sewer, and stormwater locates.
- Write up service cards for 8,000 non existing cards.
- Work with contractors on several water, sewer, and stormwater 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.
- Received first round of UMCR5 samples back, ND for Lithium and all PFOs/PFOAs.
- In January, all samples were collected and met reporting criteria. The subcontract laboratory neglected to upload data to PADEP Greenport by February 10, 2023, resulting in a late reporting violation for CRW. The laboratory has been fired and a NOV will have to be posted in the CCR for 2023.



Drinking Water Exhibits



EXHIBIT A Water Quality Anaylsis - 2023

PARAMETERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Average	MCL Limits
Total Coliform: Presence/Absence														
Distribution System	A	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	5% P
Chlorine Residual, mg/L Free														
Filter Plant Effluent	2.00	1.98											1.99	0.2 - 4.0
Distribution System	1.40	1.43											1.41	<0.02
Turbidity, NTU	11.10	1,10												0.02
Influent from DeHart	1.20	0.98											1.09	NA
Influent from Susquehanna	NA NA	NA												NA
Filter Plant Effluent	0.03	0.03											0.03	0.30
pH, Std Units	0.05	0.03											0.03	0.50
Influent from DeHart	6.4	6.5											6.46	NA
Influent from Susquehanna	NA	NA											NA	NA NA
Filter Plant Effluent	7.6	7.5											7.56	6.5 - 8.5*
Distribution System	7.1	7.7											7.39	6.5 - 8.5*
	7.1	7.7											7.39	6.5 - 6.5"
Total Alkalinity, mg/L as CaCO3 Influent DeHart	5	5											5.00	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	15	14											14.46	<15*
Distribution System	13	14											13.69	<15*
Temperature, degrees C														
Influent from DeHart	5.9	5.4											5.65	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	6.6	6.4											6.48	NA
Distribution System	14.1	13.2											13.65	NA
Fluoride, mg/L														
Filter Plant Effluent	0.95	1.02											0.99	2
Aluminum, mg/L														
Filter Plant Effluent	0.02	0.02											0.02	0.2*
Iron, mg/L														
Influent from DeHart	0.11	0.06											0.09	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	0.02	0.01											0.02	0.3*
Distribution System	0.07	0.00											0.03	0.3*
Total Dissolved Solids, mg/L														
Influent from DeHart	15	15											15.30	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	37	34											35.41	500*
Distribution System	39	36											37.43	500*
Total Hardness, mg/L														
Influent from DeHart	8	8											8.00	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	8	8											8.34	NA
Distribution System	10	6											7.80	NA
Orthophosphate, mg/L														
Filter Plant Effluent	1.20	1.24											1.22	0.7 - 1.3*
Distribution System	1.21	1.19											1.20	0.7 - 1.3*
**Total Trihalomethanes, ug/L	1,21	1.15											1.20	0.7 1.5
Distribution System	34.2	NA											34.2	80.0
**Total Haloacetic Acids, ug/L	57.2	1475											34.2	55.5
Distribution System	36.8	NA											36.8	60.0
Total Organic Carbon, mg/L	50.0	IVA											50.0	00.0
Influent from DeHart	1.22	NA											1.22	NA
	1.22 NA	NA NA											NA	NA NA
Influent from Susquehanna	2.16	NA NA											2.16	NA NA
Filter Plant Effluent														_
Average Filter Run, Hours	115	112		Report									113.50	NA

^{*} Values are related to DEP Secondary MCL
** Running Annual Quarterly Average



EXHIBIT B

Water Production Data - 2023

	DeHart Wi	art Withdrawal River Withdrawal			Total Wit	hdrawal	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	233.562	7.534	0.000	0.000	233.562	7.534	239.964	7.741	6.487	0.210	229.172	7.393	
February	202.799	7.243	0.000	0.000	202.799	7.243	210.336	7.513	4.938	0.176	202.279	7.224	
March													
April													
May													
June													
July													
August													
September													
October													
November													
December													
Total	436.361		0.000		436.361		450.300		11.425		431.451		
Average	218.181	7.389	0.000	0.000	218.181	7.389	225.150	7.627	5.713	0.193	215.726	7.309	

Peak Day Water Use 5/31/2020 6.966 (MG) = Million Gallons
Minimum Day Water Use 5/1/2020 6.081 (MGD) = Million Gallons per Day



EXHIBIT C

Rainfall at the DeHart Reservoir - 2023

(inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
2023 Total	2.70	1.09											3.79
Daily Average	0.087	0.039											0.126
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
2022 Total	2.70	3.79	1.67	5.03	6.55	5.84	2.16	2.67	4.16	3.43	2.94	6.63	47.57

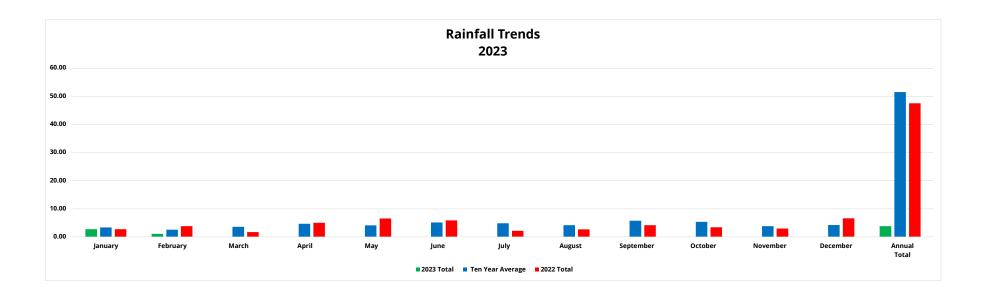




EXHIBIT D

Water Level at the DeHart Reservoir - 2023

(Inches from Spillway)

Date	January	February	March	April	May	June	July	August	September	October	November	December
2023 AVG	-162.9	58.6										
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	-162.9	2.1	3.2	4.6	4.1	7.2	-12.1	-34.1	-48.5	-68.9	-80.6	319.0

DeHart Reservoir Water Level Trends 2023

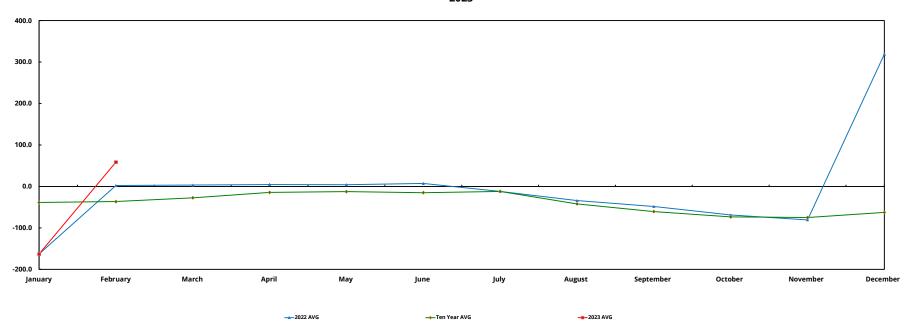




EXHIBIT E

Daily Conservation Release - 2023

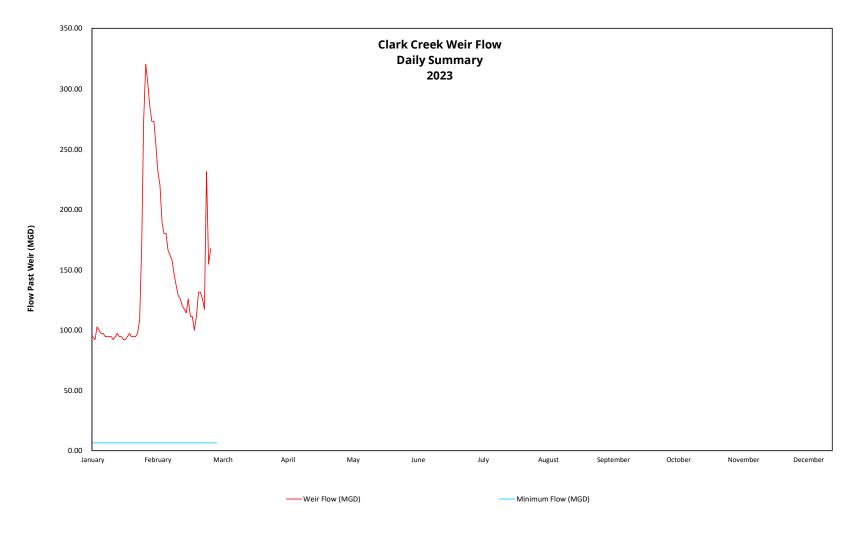




EXHIBIT F

Utility Usage - 2023

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Vater Services Center														
lectric Transmission														
Total, kwH	0												0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
lectric Generation	\$0.00												40.00	30.00
Total, kwH	0												0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
Natural Gas	\$0.00												40.00	30.00
Total, Cu Ft	0					-							0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
iewer	40.00												40.00	40.00
Total, Gal	0												0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
Refuse	40.00												40.00	40.00
Cost, Dollars	\$0.00												\$0.00	\$0.00
teservoir Park Pump Station	40.00												¥0.00	40.00
lectric Transmission														
Total, kwH	0				+	+	+	+	+				0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
Electric Generation	50.00												¥0.00	\$0.00
Total, kwH	0					-			-				0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
Natural Gas	\$0.00												40.00	30.00
Total, Cu Ft	0												0	0
Cost, Dollars	\$0.00				_								\$0.00	\$0.00
Susquehanna River Pump Station	\$0.00												\$0.00	\$0.00
Electric Transmission														
Total, kwH	0												0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
Electric Generation	\$0.00												\$0.00	\$0.00
Total, kwH	0												0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
Vatural Gas	\$0.00					_							\$0.00	\$0.00
Total, Cu Ft	0												0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
Union Square Booster Station														
Electric Transmission														
Total, kwH	0												0	0
Cost,Dollars	0												\$0.00	\$0.00
lectric Generation														
Total, kwH	0												0	0
Cost, Dollars	0												\$0.00	\$0.00
DeHart Facilities														
Electric Transmission														
Total, kwH	0												0	0
Cost, Dollars	\$0.00						1	1					\$0.00	\$0.00
lectric Generation														
Total, kwH	0												0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
uel Oil														
Total, Gals.	0												0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
City Island Heat Trace														
lectric Transmission														
Total, kwH	0												0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
lectric Generation														
	0												0	0
Total, kwH														
Total, kwH Cost, Dollars	\$0.00												\$0.00	\$0.00

** Not available at time report was developed

Total Transmission	\$0
Total Generation	\$0
Total Refuse	\$0
Total Gas	\$0
Total Sewer	\$0
Total Fuel Oil	\$0
Total Hallisian	**



Exhibit G

Hydro-Turbine Generator Performance - 2023

Month	Kilowatt-hour (KWH)	Anticipated Savings *
January (Out of Service)	0	\$0
February (Out of Service)	0	\$0
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
Average		
Year to Date	0	\$0

^{*} Estimated savings based on electrical rate of 0.058 per KWH

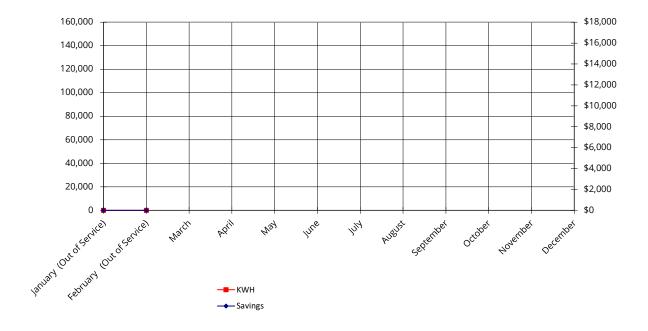




EXHIBIT H

Treatment Chemical Usage - 2023

Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Chlorine	1													
Total Lbs.	6,294	5,518											5,906	11,81
Average, Chlorine Lbs./Day	203	197											200.0	
Average, Chlorine Dose, mg/L	6.9	1.6											4.3	
Chlorine, Cost, \$/Lbs. Chlorine Total Cost, Dollars	\$1.639 \$10,316	\$1.639 \$9,044											1.6 \$9,679.94	\$19,359.8
Chiorine rotal Cost, Dollars	\$10,310	\$9,044											\$9,079.94	\$19,559.6
Alum 48.5%	26.820	16 763											21 706	42.50
Total Lbs.	26,829 866	16,763											21,796 732.5	43,592
Average, Alum, Lbs./Day Average, Alum, mg/L	10.7	599 7.7											9.2	
Alum Cost, \$/Lbs.	\$0.121	\$0.121											0.1	
Alum Total Cost, Dollars	\$3,246	\$2,028											\$2,637.16	\$5,274.3
	\$3,240	\$2,020											\$2,037.10	43,274.3
Lime Total Lbs.														
Average Lime, Lbs./Day														<u>'</u>
Average Lime, List, Day Average, Lime Dose, mg/L														
Lime Cost, \$/Lbs.	\$0.86												\$0.86	
Lime Total Cost, Dollars	\$0.00												\$0.00	\$0.00
	75155	0	C		0								75,60	+0.0
Soda Ash				T.								l		
Total Lbs.	17,400	12,350											14,875	29,750
Average Soda Ash, Lbs./Day	561	441											501.0	
Average, Soda Ash Dose, mg/L	19.2	13.5											16.4	
Soda Ash Cost, \$/Lbs.	\$0.368	\$0.368											0.4	***
Soda Ash Total Cost, Dollars	\$6,403	\$4,545											\$5,474.00	\$10,948.00
Fluoride														
Total Lbs.	2,240	1,965											2,103	4,20
Average, Fluoride Lbs./Day	72	70											71.0	
Average, Fluoride (F-) Dose, mg/L	1.1	1.1											1.1	
Fluoride Cost, \$/Lbs.	\$0.30	\$0.30											\$0.30	#4 252 0
Fluoride Total Cost, Dollars	\$672	\$590											\$631.00	\$1,262.00
Sodium Hydroxide 50%														
Total NaOH 50% dry Lbs.	35,623	31,225											33,424	66,84
Average NaOH 50%, dry Lbs./Day	1,149	1,115											1,132	
Average, NaOH 50%, mg/L	19.2	15.7											17.5	
NaOH 50% Cost, dry \$/Lbs	\$0.450	\$0.450											0.5	****
NaOH 50% Total Cost, Dollars	\$16,030	\$14,051											\$15,040.68	\$30,081.3
Zinc Orthophosphate														
Total Zn3(PO4)2, wet Lbs.	4,802	4,239											4,521	9,04
Average Zn3(PO4)2, wet Lbs./Day	155	151											153.0	
Average, Zn3(PO4)2 Dose, mg/L	2.5 \$1.724	2.5 \$1.724											2.5	
Zn3(PO4)2 Cost, wet \$/Lbs. Zn3(PO4)2 Total Cost, Dollars	\$8,279	\$7,308											\$7,793.33	\$15,586.6
		,,,,,												,
Potassium Permanganate Total KMnO4, Lbs.	0												0	
Average KMnO4, Lbs./Day	0												0.0	<u> </u>
Average, KMnO4 Dose, mg/L	0.0												0.0	
KMnO4 Cost, \$/Lbs.	\$0.00												\$0.00	
KMnO4 Total Cost, Dollars	\$0.00												\$0.00	\$0.00
	0													
Expenditure													\$41,256.09	\$82,512.1
Average Treated Cost per (MG)													++1,250.05	+32,312.1
Total Treated Flow (MGD)														0.00
														225.15

2023-02-00 WSC Monthly Report Exhibit H



EXHIBIT I

DISTRIBUTION DEPARTMENT ACTIVITIES - 2023

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
PA One Call Locates	501	430											931	466
Street Restorations	0	0											0	0
Leak Detection Assessment Percent of Distribution System	8	8											16	8
Main Break Repair - Detected Non-Surfacing	0	0											0	0
Main Breaks Repaired - Emergency	2	1											3	2
Service Line Leaks Detected	0	0											0	0
Service Line Leaks Repaired	1	0											1	1
Valves - Exercised	0	0											0	0
Valves - Replaced	0	0											0	0
Hydrant Flow Tests	0	8											8	4
Hydrants Returned to Service	0	0											0	0
Water Tap - Disconnected	2	0											2	1
Water Tap - New Connection	2	0											2	1
Water Shutoffs - Delinquent Accounts	0	0											0	0
Water Shutoffs - Other	24	11											35	18
Water Shutoffs - Non Payment	0	0											0	0
Water Restoration Turn on Other	24	22											46	23
Water Turn on - Non Payment	0	1											1	1



EXHIBIT J

Metering Activities - 2023

Board Monthly Report	Distribution Monthly Report														
Activity	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Meter Installations															
	Missing	6	3											9	5
	Leaking	2	3											5	3
Replacement	Frozen	20	4											24	12
	Non-registering	6	6											12	6
	Large Meters ¹	0	0											0	0
New Service	New Installation	2	0											2	1
Meter Service															
MXU's Replaced	MXU's Replaced	47	43											90	45
Batteries Replaced	Batteries Replaced	45	323											368	184
Meter Pits Serviced	Meter Pits Serviced	0	0											0	0
Meter Calibrations															
Small Meters ²	Calibrated meters	0	0											0	0

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) - 2023

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											0	N/A
Billed Metered Exported	Bulk Water Hauling	N/A	N/A											0	N/A
Billed Metered	Hydrant Connections	0	0											0	0
Billed Unmetered	Hydrant Flow Tests	0	12,300											12,300	6,150
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	48,449	51,011											99,460	49,730
Leakage on Distribution Mains	Main Leaks	1,318,637	2,836,746											4,155,383	2,077,692
Leakage on Service Lines	Service Leaks	2,321,113	41,760											2,362,873	1,181,437
	Total	3,688,199	2,941,817											6,630,016	3,315,008



Wastewater



WASTEWATER DEPARTMENT MONTHLY REPORT



New AWTF Operator, Lillian Dolan.

February 2023

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



February 2023

Overview

In February, Wastewater prepared and submitted several annual regulatory reports that were due on March 1st, including:

- Annual PAG-08 Report for Beneficial Use of Biosolids
- Sara Title III, Tier II Report for Hazardous Chemicals
- Annual Air Quality Emissions Report to DEP.

Support for the Chapter 94 Municipal Waste Load Management Report and Semi-Annual Consent Decree Report will continue through March.

A good deal of time was also dedicated to the Asset Management Program (AMP) with several meetings focusing on development of the Asset Class Plan and the Collection System AMP.

A major step was taken toward the strategic goal of generating a widespread benchmarking program across CRW. We will utilize the AWWA's Utility Benchmarking Survey to serve as a set of key performance indicators to measure our performance against the results of other water utilities. The "CReW BUS" working group developed an online survey program to collect the 400 plus data points from various departments. The results will be databased so that CRW can set goals and track progress to achieving them year-after-year.

Operations

During the month of February, the AWTF met all monthly average NPDES permit requirements. No Sanitary Sewer or Dry Weather Overflows were reported.

Hydraulic loading to the AWTF averaged 16.8 million gallons per day (MGD). The treatment process achieved removal reductions of 97.4 percent CBOD, 98.5 percent Suspended Solids, 61.3 percent Phosphorus, and 94.3 percent Ammonia (Exhibit A).

The Contract Waste Hauling program collected \$54,021.15 in revenue from 1,615,520 gallons discharged (Exhibit G). Landfill clients are continuing to discharge leachate which is the primary source of revenue the last few months. Nutrient loading is the main concern with additional leachate waste streams, but the process is working well at removing it to stay under permit limits.

In recent months, adjustments to the Divert Food Slurry pumping system, along with other process adjustments, has resulted in progressively lower effluent nitrogen concentrations. As this progress continues it will allow us to generate more Nitrogen Credits for the 2023 Water Year, which will end on September 30th.



February 2023

The Cogeneration facility experienced an average run time of 58 percent in February. Revenue is estimated at \$7,367.85 on 63,000 Kilowatt-hours generated for the month. The increase in runtime is due to mechanical failures that were repaired from the previous month.

Laboratory

- Received new accreditation certificate for 2023 from DEP.
- Updated timeline for Colilert Fecal Coliform and E. Coli analysis with DEP, plan to be updated by the end of March.
- Testing more variables within BOD/CBOD analysis for low recovery root cause.
- Bench sheets are uploaded into WIMS, beginning calculation setup.

Pretreatment

- Pretreatment Inspection with EPA was conducted and went smoothly. We are still waiting for final report.
- Finished updating all fourth quarter SMR data from IU's and organized all logbooks for 2022.
- Started Swatara Landfill's IU permit renewal.
- Worked with Waste Management to renew biosolids hauling permit for Cumberland County Landfill.
- Acquired Conestoga Landfill as a new waste hauling client via Eldredge, Inc.

Plant Maintenance

- Installed new laboratory sampler at Chamber D. This completes a comprehensive update of all composite samplers throughout the AWTF process. One replacement sampler head is immediately available in inventory in case of failure.
- Continued to re-lamp/repair all lighting fixtures throughout the facility.
- Serviced standby generator full load test at Market Street and Spring Creek Pump Stations.
- Replaced outlet valve and check valve on Plant Drain Pump No. 3.
- Installed new Gorman Rupp pump at the Plant Drain Pump Station.
- Repaired linear motion mixer on Primary Digester No. 1.
- Performed ten vehicular repairs in preparation for state inspections.
- Provided weekly maintenance for JCB loader.
- Performed daily service on vehicles such as replacing bulbs, batteries, tires, lube oil and filters.
- Performed maintenance tasks per request at 3003 NFS offices.



February 2023

Field Construction

- Repaired 32 inlets in various locations in the city.
- Blanked 13 inlets in various locations in the city.
- Repaired 5-feet of storm water pipe at 2310 N. Fourth Street.
- Repaired 10-feet of storm water pipe at Camp and Jefferson Streets.
- Started inlet box replacement at Central and Bob Streets.
- Repaired interceptor manhole under the Mulberry Street Bridge.

Field Operations

- Total CCTV footage of sewer pipe assessed this month was 7,180 feet (1.36 miles).
- Total of pipe flushed this month was 2,783 feet (0.52 miles).
- Responded to seven backup and overflow calls from residents. CRW was liable for none.
- Responded to one sinkhole call. Wastewater was liable for none.
- Cleaned 136 stormwater inlets.
- Inspected 134 stormwater inlets.
- Performed CCTV assessment and flushed flat alleys in the Kensington Street area.
- Flushed line for Grease Pit No. 1.
- Cleaned Pista Grit No. 3.
- There were no Dry Weather or Sanitary Sewer Overflows to report.

Environmental Compliance

- Completed five inspections of FOG dischargers.
- Issued two new FOG discharge permits.
- Issued two FOG-related Notice of Violation (NOVs).
- Provided education packet to four newly identified FOG dischargers (either new business or previously unidentified). Spent time educating business owners/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.
- Two investigations were conducted during the month of February:
 - CRW's Environmental Compliance Inspector was contacted by PADEP regarding a complaint of ongoing illicit discharges at the Harrisburg City Public Works building. A site visit was conducted and the complaint unsubstantiated.
 - CRW's Water Distribution crew discovered an incident in the 1600 block of Market Street of raw wastewater being pumped onto the street from a resident's basement. The prohibited discharge was investigated, and Harrisburg City Codes was contacted regarding the health



February 2023

issue. The discharge was discontinued immediately after the tenant was reached, and the source was due to a broken pipe. Repairs were conducted the same day by the tenant/landlord.

Street Sweeping

- Received five complaints this month and all complaints have been resolved.
- Completed 752.57 miles of scheduled street sweeping within the City of Harrisburg. Due to a
 new methodology developed by CRW's GIS Team, a more accurate count of miles that are
 swept is now available for reporting. This counts a street that may have been swept multiple
 times due to severity of debris.
- Water usage was approximately 8,800 gallons this month.
- Continued to assist cleaning storm inlets in scheduled sweeping areas.



Wastewater Exhibits



EXHIBIT A

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Process Control - 2023

Parameters	January	February	March	April	May	June	July	August	September	October	November December	Average	NPDES Limits
Volume, MGD	22.0											19.4	37.7
volume, MdD	22.0	10.0										19.4	37.7
Carbonaceous Biochemical Oxygen Demand	07											440	
Influent, mg/L	97											119	
Effluent, mg/L	4											4	25
Percent Removal, % Effluent Loading, lb/d	95.6 681	97.4 390										96.5 536	7,860
Emdent Loading, ib/d	001	390										550	7,000
Suspended Solids:													
Influent, mg/L	156											189	
Effluent, mg/L	8											6	30
Percent Removal, %	95.0											96.8	
Effluent Loading, lb/d	1,447	412										929	9,433
Nitrogen													
Total-N													
Influent, mg/L	26	35										30	
Effluent, mg/L	5.0											5	Monitor
Percent Removal, %	80.5											83.9	
Effluent Loading, lb/d	993	586										790	
NH3-N													
Influent mg/L	17											19	
Effluent, mg/L	1.9											2	11
Percent Removal, %	88.5											91.4	
Effluent Loading, lb/d	359	168										264	4,716
Phosphorus:													
Influent, mg/L	2.9											3.6	
Effluent, mg/L	0.8											1.2	2.0
Percent Removal, %	70.3											65.8	
Effluent Loading, lb/d	152	222										187	629
pH:													
Influent, Std. Units	7.4	7.3										7.4	
Effluent, Std. Units	7.4	7.4										7.4	6.0 - 9.0
Dissolved Oxygen:													
Effluent Minimum, mg/L	8.0	8.8										8.4	5.0 Min.
Fecal Coliform:													
Effluent, No./100 ml	25	3										14	200/100 ml
Chlorine Residual:													
Effluent, mg/L	0.22	0.18										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.

PROCESS2032-A

⁽²⁾ Seasonal Limit May 1 to Nov.1.

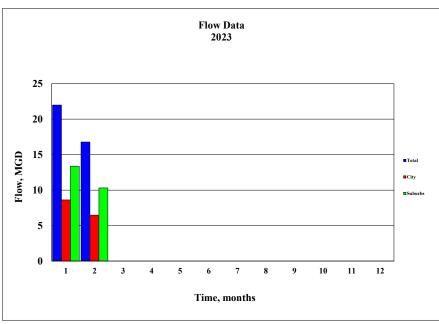


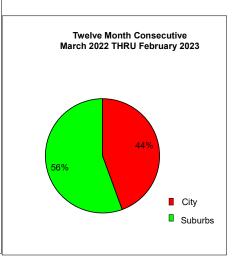
EXHIBIT B

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Flow Monitoring Information, MGD - 2023

	Total				С	ity Region	S			Su	burb Regi	ons		Total Precip
Month	Flow	City	Suburbs	1	2	3	4	5	6	7	8	9	10	inches
January February March April May June July August September October November December	22.000 16.800	8.622 6.480	13.378 10.320	8.110 5.480	0.192 0.150	0.300 0.300	-0.160 0.410	0.180 0.140	1.400 1.200	5.280 3.950	2.208 1.720	4.060 3.100	0.430 0.350	2.450 1.010
Average Percent	19.40 100.00	7.55 38.92	11.85 61.08											1.73 3.46





FLOW2022 No Zeros-B



EXHIBIT C

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Treatment Utility and Chemical Usage - 2023

Mater	Utility / Chemical	January	February	March	April	May	June	July	August	September	October	November December	Average	Total
Total Call 1,182,000 1,284,000 1,033,600 1,0														
Average, Cal/Day 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,														
Cost, Dollars \$98,678.57 \$60,320.22 \$79,574.37 \$15,148.74														
Natural Gis Total, Cu Pr Average Cu FUDay 20 4 20 5 20 20 20 20 20 20 20 20 20 20 20 20 20														
Total Cu F	Cost, Dollars	¥98,028.32	\$60,520.22										¥/9,5/4.3/	\$159,146.74
Total Cu F	Natural Gas													
Average, Cu PL/Day 20		621.9	*										311	622
Cost, Dollars \$6,237.14 * \$3,118.57 \$6,237.14 Water Total, Gal. 1,187,000 * 1,187,000			*											
Total, Gal. 1,187,000			*											\$6,237.14
Total, Gal. 1,187,000	Water													
Average, Gal/Day 38,290 * 38,290 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 57,808.29 * 515,616.58 * 51,64 *		1 187 000	*										1 187 000	1 187 000
Style="black solid light sol														
Total, Gal. 0 <td< td=""><td></td><td></td><td>*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			*											
Total, Gal. 0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
Average, Gal/Day 0.0 0.0 cost, Dollars \$0 \$0.00														
Cost, Dollars \$0 \$0.00 \$0.00 Sodium Hydroxide Total, Gal. 0 0 0 Average, Gal./Day 0 0 0														0
Sodium Hydroxide Total, Gal. 0 0 0 Average, Gal/Day 0 0 0 Cost, Dollars 0 0 0 Cost, Dollars 5,973 Average, Lbs/Day 423 223 Average, Lbs/Day 423 223 Avg Residual, mg/L 0.22 0.18 Cost, \$7\the.\$ \$11.64 \$11.64 Total Cost, Dollars \$21,508.60 \$9,795.72 Phosphorous Removal Total FcCl3, Gals. 3,113 2,950 Avg FcCl3, Gals. 3,113 2,950 Avg FcCl3, Gals. 3,113 2,950 Avg FcCl3, Gals. 3,114 \$1.74 Total FcCl3, Gost, \$7\therefore Avg FcCl3, Gals. 3,114 \$1.74 Total FcCl3, Gals. 3,115 \$2,950 Avg FcCl3, Gals. 3,117 Total														
Total, Gal. 0 0 0 Average, Gal/Day 0 0	Cost, Dollars	\$0	\$0.00										\$0.00	\$0.00
Average, Gal./Day 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sodium Hydroxide													
Chlorine Disinfection Total, Lbs. 13,115 5,973 Average, Lbs./Day 423 223 Avg Residual, mg/L 0.22 0.18 Cost, \$/Lbs. \$1.64 \$1.64 Total Cost, Dollars \$21,508.60 \$9,795.72 Phosphorous Removal Total FeCl3, Gals./Day 100 105 FeCl3 Cost, \$/Gal. \$1.74 \$1.74 \$0.00	Total, Gal.	0	0										0	0
Chlorine Disinfection Total, Lbs. 13,115 5,973 9,544 19,088 Average, Lbs./Day 423 223 323 Avg Residual, mg/L 0.22 0.18 0.20 0.20 Cost, \$/Lbs. \$1.64 \$1.64 Total Cost, Dollars \$21,508.60 \$9,795.72 \$15,652.16 \$31,304.32 Phosphorous Removal Total FeCl3, Gals. 3,113 2,950 3,032 6,063 6,063 6,063 6,064 6,064 6,065														
Total, Lbs. 13,115 5,973 19,088 Average, Lbs./Day 423 223 323	Cost, Dollars	0	0										\$0.00	\$0.00
Total, Lbs. 13,115 5,973 19,088 Average, Lbs./Day 423 223 323	Chlorine Disinfection													
Average, Lbs./Day 423 223 323		13,115	5,973										9,544	19,088
Cost, \$/Lbs. \$1.64 \$1.64 Total Cost, Dollars \$21,508.60 \$9,795.72 \$15,652.16 \$31,304.32 Phosphorous Removal Total FeCl3, Gals. 3,113 2,950 3,032 6,063 Avg FeCl3, Gals./Day 100 105 103 FeCl3 Cost, \$/Gal. \$1.74 \$1.74														
Total Cost, Dollars \$21,508.60 \$9,795.72 \$15,652.16 \$31,304.32 Phosphorous Removal Total FeCl3, Gals. 3,113 2,950 3,032 6,063 Avg FeCl3, Gals./Day 100 105 103 FeCl3 Cost, \$/Gal. \$1.74 \$1.74		0.22	0.18										0.20	
Phosphorous Removal Total FeCl3, Gals. 3,113 2,950 3,032 6,063 Avg FeCl3, Gals./Day 100 105 103 FeCl3 Cost, \$/Gal. \$1.74 \$1.74 \$1.74														
Total FeCl3, Gals. 3,113 2,950 3,032 6,063 Avg FeCl3, Gals./Day 100 105 103 FeCl3 Cost, \$/Gal. \$1.74 \$1.74 \$1.74	Total Cost, Dollars	\$21,508.60	\$9,795.72										\$15,652.16	\$31,304.32
Avg FeCl3, Gals./Day 100 105 103 FeCl3 Cost, \$/Gal. \$1.74 \$1.74 \$1.74														
FeCl3 Cost, \$/Gal. \$1.74 \$1.74 \$1.74 \$1.74														6,063
Fecis Total Cost, Dollars \$5,416.97 \$5,132.65 \$10,549.62														*******
	FeCi3 Total Cost, Dollars	\$5,416.97	\$5,132.65										\$5,274.81	\$10,549.62

^{*} No data at time of report

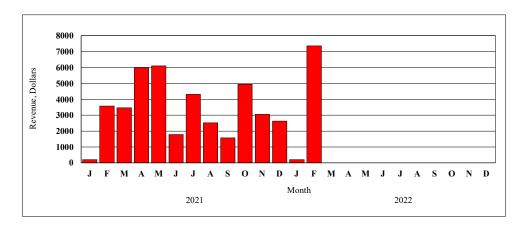


EXHIBIT D

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Cogeneration Electrical Production: 2022-2023

	Percent	Daily Avg	Kilowatt Hours	Estimated	
Period	Run Time	Kilowatt	Produced	Revenue	
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	33	1,190	36,900	\$4,315.46	
August 2022	28	697	21,600	\$2,526.12	
September 2022	12	450	13,500	\$1,578.83	
October 2022	34	1,365	42,300	\$4,946.99	
November 2022	21	870	26,100	\$3,052.40	
December 2022	20	726	22,500	\$2,631.38	
Total - 2022			343,800	\$40,207.41	
Monthly Average - 2022	28	943	28,650	\$3,350.62	
January 2023	2	58	1,800	\$210.51	
February 2023	58	2,250	63,000	\$7,367.85	
March 2023		,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
April 2023					
May 2023					
June 2023					
July 2023					
August 2023					
September 2023					
October 2023					
November 2023					
December 202					
Total - 2023			64,800	\$7,578.36	
Monthly Average - 2023	30	1,154	32,400	\$3,789.18	



COGEN2023-D 10



EXHIBIT E

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Sludge Handling Information - 2023

Process	January	February	March	April	May	June	July	August	September	October	November December	Average	Total
Solids Removal													
Process, Lbs.	704,819	890,443										797,631	1,595,262
CWH Program, Lbs.	196,727	230,186										213,456	426,913
Total Solids, Lbs.	901,546	1,120,629										1,011,087	2,022,175
Sludge Dewatering													
	F 480 000	4 700 000										4.042.500	0.887.000
Feed Volume, Gals. Feed Solids, %	5,489,000 1.5	4,398,000 1.5										4,943,500 1.5	9,887,000
Labor, Hours	635	519										577	1,155
Operations, Hours	1,181	977										1,079	2,159
Total Cake, Dry Tons	208	168										188	376
Total Cake, Wet Tons	1,264	1,089										1,177	2,353
Cake TS, %	16.5	15.9										16.2	-
Press Rate, Lbs./Hour	2,140	2,228										2,184	4,368
Polymer Dosage, Lbs	4,299	4,556										4,428	8,855
Polymer Dosage, Lbs/Dry Ton	24.3	26.4										25.4	-
Disposal Cost													
Labor, Dollars	\$12,208.54	\$9,982.89										\$11,095.72	\$22,191.43
Electrical,Dollars	\$519.82	\$430.06										\$474.94	\$949.87
Polymer, Dollars	\$8,383.05	\$8,885.16										\$8,634.11	\$17,268.21
Disposal, Dollars	\$43,033.40	\$59,350.50										\$51,191.95	\$102,383.90
Total Cost, Dollars	\$64,144.81	\$78,648.61										\$71,396.71	\$142,793.42
Cost Per Dry Ton, Dollars	\$308.39	\$468.15										\$388.27	

SLUDGE2023-E 11

EXHIBIT F

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Conveyance Utility Usage - 2023

Location / Utility	January	February	March	April	May	June	July	August	September	October	November D	December	Average	Total
Front Street Pump Station														
Electric														
Total, kwH	153,600	97,200											125,400	250,800
Average, kwH/Day	4,955	3,471											4,213	
Cost, Dollars	#######	\$6,179.35												\$16,351.22
Fuel Oil													,	,
Total, Gals.	0	0											0	0
Average, Gals./Day	0	0											0	
Cost, Dollars	\$0.00	\$0.00											0	\$0.00
Water														
Total, Gals.	284,000	*											284,000	284,000
Average, Gal./Day	9,161	*											9,161	
Cost, Dollars	\$3,633.08	*												\$3,633.08
Spring Creek Pump Station														
Electric														
Total, kwH	38,400	*											38,400	38,400
Average, kwH/Day	1,239	*											1,239	
Cost, Dollars	\$1,274.90	*											\$1,274.90	\$1,274.90
Fuel Oil														
Total, Gals.	0	0											0	0
Average, Gals./Day	0	0											0	
Cost, Dollars	\$0.00	\$0.00											\$0.00	\$0.00
Water														
Total, Gals.	90,000	*											90,000	90,000
Average, Gal./Day	2,903	*											2,903	
Cost, Dollars	\$1,006.59	*											\$1,006.59	\$1,006.59
Market Street Pump Station														
Electric														
Total, kwH	1,320	*											1,320	1,320
Average, kwH/Day	43	*											43	
Cost,Dollars	\$112.61	*											\$112.61	\$112.61
Fuel Oil														
Total, Gals.	0	0											0	0
Average, Gals./Day	0	0											0	
Cost, Dollars	\$0.00	\$0.00											\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kwH	40	*											40	40
Average, kwH/Day	1	*											1	
Cost, Dollars	\$42.43	*											\$42.43	\$42.43

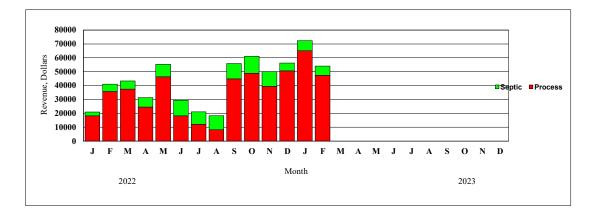


EXHIBIT G

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Contract Waste Hauling Program 2022 - 2023

	Proc	ess	Sept	tic	Total			
Month	Gallons	Revenue	Gallons	Revenue	Gallons	Revenue		
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	1,599,990	\$46,377.27	250,650	\$8,874.90	1,850,640	\$55,252.17		
	583,370	\$18,218.79	315,100	\$11,217.60	898,470	\$29,436.39		
	352,570	\$12,137.31	252,900	\$8,969.40	605,470	\$21,106.71		
	248,100	\$8,169.21	287,600	\$10,209.60	535,610	\$18,378.81		
	1,589,990	\$44,824.05	311,600	\$11,046.60	1,901,590	\$55,870.65		
	1,738,680	\$48,922.56	342,650	\$12,173.40	2,081,330	\$61,095.96		
	1,412,550	\$39,494.61	293,700	\$10,537.20	1,706,250	\$50,031.81		
	1,776,820	\$50,682.24	158,050	\$5,586.30	1,934,870	\$56,268.54		
Total - 2022	13,212,877	\$384,858.78	2,799,825	\$99,434.60	16,012,612	\$484,293.48		
Monthly Average - 2022	1,101,073	\$32,071.57	233,319	\$8,286.22	1,334,384	\$40,357.79		
January February March April May June July August September October November December	2,332,260	\$65,162.88	208,150	\$7,173.90	2,540,410	\$72,336.78		
	1,424,370	\$47,326.95	191,150	\$6,694.20	1,615,520	\$54,021.15		
Total - 2023	3,756,630	\$112,489.83	399,300	\$13,868.10	4,155,930	\$126,357.93		
Monthly Average - 2023	1,878,315	\$56,244.92	199,650	\$6,934.05	2,077,965	\$63,178.97		



CWH2022-G 13