

August 2023 As of September 20, 2023 Page 1 of 7

Ensure Financial Stability	
Reconciled Bank Account Balances	Refer to attached Reconciled Bank Account Balances as of 8/31/2023.
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 Drinking	Provided separately to Board of Directors.
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 Syste	em Usage									
Water Shut-offs	There were 37 water shut-offs for non-payment and 31 service shut-off requests.									
Repair/Replace Meters/MXUs/Batteries	Drinking Water Distribution staff replaced 16 water meters, 67 batteries, and 40 MXUs.									
Reduce Wet Weather Impacts to Infrastructure, Community, and Receiving Waters										
Negotiate with PADEP/U.S. EPA/DOJ on	United States Department of Justice (USDO)] entered the Modification to the Partial Consent Decree with the Court, making the agreement effective on 8/25/2023. CRW Staff									
Past and Future Practices	is preparing the Semi-Annual Report due 9/30/2023.									
Develop Necessary Planning for	• Phase 4 Stormwater Pro-Fi construction is ongoing. The contractor is currently working on the Boys and Girls Club GSI and 4th and Harris Street GSI.									
Implementation of Green Infrastructure	Design and planning for next phase of GSI (2024-2027) is underway.									
Joint Pollutant Reduction Plan -	No update.									
Collaborate with Suburban Partners on										
MS4										
Obtain and Comply with Individual MS4	CRW staff is preparing the third Annual MS4 Report (8/1/2022 - 7/31/2023) due 9/30/2023,									
Permit										

Operate Facilities with a High Stand	dard of Care							
Permit Compliance	The Drinking Water department met all primary and secondary Safe Drinking Water Act permit parameters for the month of August.							
	The AWTF met all NPDES permit parameters for the month of August. One Dry Weather Overflow was reported.							
Notice of Violations (NOVs)	There were no NOVs received by the Drinking Water department in August.							
	There were no NOVs received by the Wastewater department in August.							
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 August.							
	The Wastewater department completed all regularly scheduled preventative maintenance in the month of August.							
ссти	A total of 10,769 feet (2.04 miles) of sewer pipes were assessed by closed circuit television (CCTV) footage during the month of August. A total of 1,457 feet (0.28 miles) of							
	sewer pipes were flushed as well.							
Incident Response	Wastewater responded to nine (9) backup and overflow calls from residents during the month of August. CRW was responsible for none.							



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Geographic Information System (GIS)	 Eleven (11) Pennsylvania One Call tickets were completed. Two (2) had no CRW assets in the project area and nine (9) required a map. Bi-weekly meetings were held with KCI Technologies, Inc. Progress continues with the development of the ESRI "Lead Service Line Inventory Solution". Attended Operations (OPS) Challenge practices on 8/4/2023, 8/11/2023, 8/18/2023 and 8/25/2023. Attended several meetings with the Lead Service Line Inventory group to collaborate with Strategic Initiatives in developing external data collection tools and workflow.
Cityworks	
Asset Management	Roadmap Implementation Activity Report:
	Decision Making Capital Planning Roadmap Implementation Group (RIG) No Update
	Information System Data Management Roadmap Implementation Group RIG • Work session planning has begun for Subtask 3.3, Integrations and Interface, an evaluation for optimizing links between CRW's core enterprise systems.
	Operations & Maintenance Roadmap Implementation Group RIG • Meetings held 8/23/2023 and 9/6/2023 to finalize the rehabilitation and replacement criteria inputs for the 20-year collection system capital improvements planning horizon. Projected 20-Year Capital Improvement Plan deliverable due 8/15/2023. • AWTF inventory and condition assessment project in progress, over 50% completion.
	Organizational Framework Roadmap Implementation Group RIG • Draft scope of work and budget for 2024 asset management and Innovyze - InfoAsset Planner activities developed.
	InfoAsset Planner Year 2 Implementation Activity Report: - Completed rehab and replacement schematics in support of the Collection System Asset Management Plan 20-Year Capital Improvement Plan.
	Other activities: Finalized the dashboard tracking level of service statements and performance measurements related to the Collection System Asset Management Plan. Recent collaborative efforts with the Lead Service Line Inventory working group, Strategic Initiatives, Distribution and Water Quality focused on tracking the procedures of post repair and replacement activities for compliance. Presented Asset Management program to Community Ambassadors during 8/16/2023 meeting. Design workflow diagram for tracking land development and service application procedures.
Development Review Summary	For details, see attached Development Stormwater Management Review Summary spreadsheet for September.



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Undertake Capital Improvement Projects -	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:
	Task Order 2022-18-02: Engineering Services for Advanced Metering Infrastructure Upgrade
	Wastewater: None.
	Stormwater: None.
Stormwater O&M Agreements	Recommend Board approval of the following: Refer to Resolution No. 2023-015 Stormwater Operations & Maintenance Agreement - Bethel Village Associates, LLC
AWTF Primary Digesters Rehabilitation	Closeout of the general construction contract is dependent upon resolution of the contractor's time delay claim.
AWTF Energy Recovery Improvements	The biogas sale agreements are being finalized with UGI Energy Services. CRW is procuring specialized Pondus equipment in advance of the general construction contracts
	which will be advertised for bids this fall.
Front Street Pumping Station	Closeout of the general construction contract is dependent upon resolution of the contractor's time delay claim.
Improvements	

Undertake Renewal and Replacement Proje	ects
2022 Water System Improvements	Water main and service line installation is expected to be completed by the end of September 2023.
Cameron Street Water Main - Phase 4	The contractor has installed a portion of the temporary water (bypass) main and will begin excavation of access pits in Cameron Street.
2023 Sewer System Improvements	The contractor continues excavation work around the area of Mulberry and Derry Streets.
(Excavation)	
2023 Sewer System Improvements	A Stop Work Notice has been issued to Standard Pipe Services (contractor) due to defective cured-in-place pipe (CIPP) liner. The engineer is working with the contractor to
(Trenchless)	address the issue.
Arsenal Boulevard Sewer Improvements	The Right-of-Entry document with the Department of General Services will be signed by mid-October. The project will be advertised for bids this fall.
Front Street Interceptor Rehabilitation -	Cured-in-place pipe (CIPP) lining activities were completed as of 9/8/2023. Over the next month, the contractor is performing manhole rehabilitation work and removing the
Phase 2	bypass pipe from the site.
Water Facility Maintenance	Drinking Water Maintenance staff performed repairs to various process units as described in the Drinking Water Department Monthly Report for August.
Wastewater Facility Maintenance	The Wastewater Maintenance group completed various repairs throughout the Advanced Wastewater Treatment Facility (AWTF), pumping stations, and at the
	Administrative Offices throughout the month. A narrative is provided in the Wastewater Department Monthly Report for August.
Sinkhole Program	Six (6) sinkholes were investigated by CRW in the month of August. Three (3) were due to failure of wastewater assets.
Inlet Cleaning	A total of 162 stormwater inlets were cleaned during the month of August, and 156 stormwater inlet inspections were performed.



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Operate as an Efficient, Sustainable and R	esilient Water Utility
DeHart Property Stewardship	In 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 improve forest health and release regeneration of a more desirable understory. Notice to Proceed was provided to Hoffman Brothers Lumber, Inc. on 8/18/2023 for the harvest and sale of wood products within MU 40 and 42 (approximately 135 acres). Pre-harvest site work has commencted. Harvest prescription will support overstory removal to release regeneration.
Sustainability	No update.
Internal Communications	Intranet (Sharepoint) site continues to be used. The Q3 newsletter, The Daily Flow, was issued on 7/13/2023.

Media Relations - Press and Social Media	PRESS RELEASES: August 23rd: "MOTION TO ENTER THE MODIFICATION TO THE PARTIAL CONSENT DECREE".									
	SOCIAL MEDIA TOPICS:									
	Facebook/Instagram: 7 New Organic Followers (1,643 Facebook/ 712 Instagram). Nine (9) Posts; Highest Engaged Post: "BWA- Kittatinny & Nectarine St" (4,121 Reachs, 11									
	Reactions, 10 Shares, 7 post clicks); Other topics: Stormwater Week, Customer Service Center closed for training, Billing misstake, and Employee of the Month (Kendrick). Twitter: 0 Tweets; Month overview: 35 total Impressions; 1 New Followers.									
	Nextdoor: Stats: 6,858 Total Members (59 New members); Three (3) Posts.									
	Boil Water Advisory - Active - 18 Impressions.									
	Boil Water Advisory - Lifted - 9 Impressions, 1 like.									
	Customer Delinquent Notice Error - 1,157 Impressions, 5 Reactions.									
	2023 Demographics: Most Active Age-range: 25-54; Gender division: 62% women / 37% Men; Locations: Harrisburg, Penbrook, Mechanicsburg, Steelton, Linglestown, Camphill and Lancaster.									
Community Relations	Community Outreach:									
	• Three (3) community events were attended: National Night Out on 8/1/2023; Midtown Action Council Litter Cleanup on 8/15/2023; Harrisburg Young Professionals' Litter Cleanup on 8/26/2023.									
	• One (1) facility tour: Messiah University Tour of the Water Services Center on 8/24/2023.									
	• One (1) community meeting: CRW Community Ambassador Meeting on 8/16/2023.									
	• Delivered twenty-three (23) door-to-door notifications impacting approximately two hundred seventy-eight (278) customers. Included fourteen (14) courtesy construction									
	notices; six (6) lead risk mitigation notifications; one (1) fats, oils and grease notification; and two (2) boil water/lift notifications.									
	• Two (2) Everbridge alerts: Boil Water Advisory on 8/23/2023 affecting five (5) customers; Boil Water Problem Corrected on 8/25/2023 affecting five (5) customers.									
Public Communications	WHAT'S ON TAP COMMUNICATION: The August monthly bill stuffer was distributed as a bill insert. Topics included: Homeowner's Responsibility Guide, CRW is hiring!									
Business Diversity	On 10/23/2023, we will be hosting our Capital Improvement Project Look-Ahead: Planning for 2024 event. This event will be held in our first-floor conference center. The									
	afternoon will consist of detailed, project-specific presentations on our robust 2024 Capital Improvement Project schedule and PENNVEST requirements.									

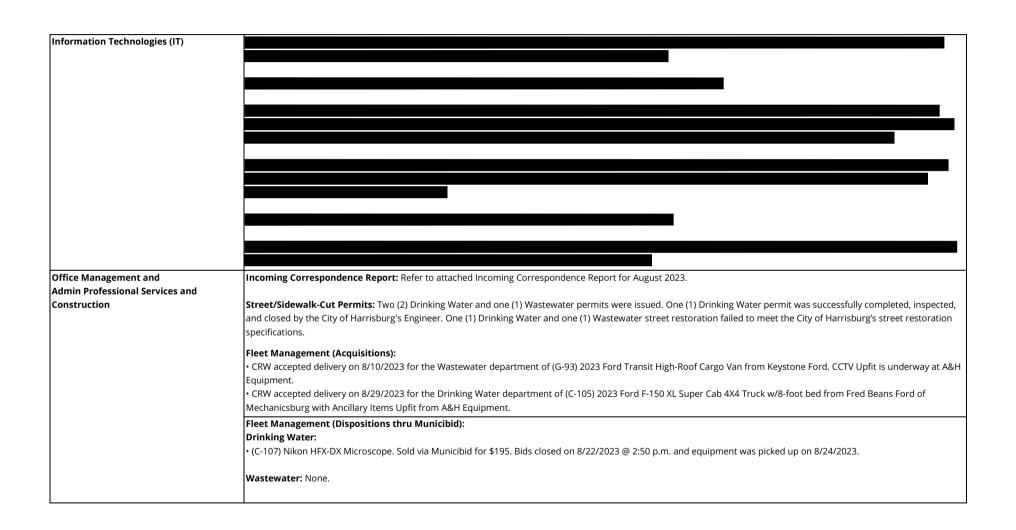


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A Last transaction	
Administrative	
Risk Management	Executive Summary:
	Total Claims: 22
	New: 0*
	Open:7
	Closed: 15
	Insurance Line Claim Count:
	Auto: 2
	General Liability: 11
	Public Officials: 2
	Workers Compensation: 7
	Note *New count included in Open
Human Resources	For details, see attached Recruiting Status Report.
Procurement	Procurement staff continues to identify and assist in establishing contracts that include fixed rate pricing and discounts with frequently used vendors for goods and
	services. The Procurement Specialist completed the following contract extensions:
	<u>Chemicals</u>
	Liquid Ferric Chloride - Wastewater
	• Liquid Alum - Drinking Water
	Liquid Chlorine - Drinking Water and Wastewater
	Water Treatment (Caustic Soda, Liquid Hydrofluosilicic Acid) - Drinking Water
	Other Other
	• Uniforms
	Grease Removal
	• Propane
	Procurement staff continues to assist staff in identifying vendors and requesting quotes for goods and services, as requested. The Procurement Specialist is currently assisting with AEDs for organization-wide and Online pH Analyzers for Drinking Water.
	Recommend Board approval of the following:
	Project Number 2023 - 206 - Precipitation and Wastewater Flow Monitoring Services
	Project Number 2023 - 210 - Switchgear Replacement and Feeder Cables at AWTF
	• Ratification of Change Order No. 1 for Cost Increase of Backwash/Finished Pumps 604B, 605A, 605D, 630A, and 630B Repair Services
	through COSTARS
	Change Order No. 1 for Cost Increase of Repairs of the Existing Salt Shed



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Right-to-Know Requests

CRW has received and responded to two (2) new and two (2) prior Right-to-Know requests during the period 8/17/2023 through 9/20/2023. 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: No update.

RTK 2023-011 - Stephanie Vargas (SmartProcure) - Request for any and all purchasing records from 5/8/2023 to current. Specific information requested from the record-keeping system: (1) Purchase Order Number. If purchase orders are not used a comparable substitute is acceptable, i.e. invoice, encumbrance, or check number. (2) Purchase date. (3) Line item details (Detailed description of the purchase). (4) Line item quantity. (5) Line item price. (6) Vendor ID number, name, address, contact person and their email address. Response due: 8/9/2023. Response provided 8/9/2023 for 30-day extension until 9/8/2023. Final Response provided 8/25/2023.

RTK 2023-012 - Dina Pinsky (AFSCME) - Requested minimum and maximum wages and job descriptions for the following job titles (or whatever jobs you have that most closely match): Plant Operators, Electronics Technicians, Engineering Support Technicians, and/or Customer Service Representatives. Response due: 8/18/2023. Response provided 8/11/2023 for 30-day Extension until 9/18/2023. Final Response provided: 8/29/2023.

RTK 2023-013 - Brandon Russ - Requested a current list of residents and residential addresses that are subject to having their water shut off due to violations. Response due: 8/29/2023. Response provided 8/23/2023.

RTK 2023-014 - Tom L. Bates - Requested engineering drawings for the old City Island Water Filtration Plant and Pumping Station from the original 1904 Plant and the 1924 Expansion. Response due: 9/14/2023. Response provided 9/12/2023.



Reconciled Bank Account Balances





Unrestricted Cash Accounts		Balance	APY	Bank	
ADMIN		02.057.25	0.650	First National D.	
Business Checking-6908	\$	93,957.26	0.65%	First National Bank	
Money Market-Admin-0621	\$	304,296.41	4.59%	First National Bank	
FNB Lockbox-6393	\$	46,230.53	0.0000%	First National Bank	
General Account-7892	\$	293,408.14	0.00%	First National Bank	
Project Fund-6990	\$	447,281.70	4.59%	First National Bank	
WATER					
Water Revenue Fund-6833	\$	1,871,183.18	0.00%	First National Bank	Earnings Generated offset fees for Services
Money Market-Water-0639	\$	4,645,649.30	4.59%	First National Bank	
Water Contingency Account-6866	\$	-	4.15%	First National Bank	Closed account 7/30/23
Water 2022 Pennvest-1878	\$	7,852.12	0.00%	First National Bank	
SEWER					
Sewer Revenue Account-5819	\$	578,744.47	0.00%	First National Bank	Earnings Generated offset fees for Services
Money Market-Sewer-0589	\$	4,379,070.90	4.59%	First National Bank	
Sewer 2021 Pennvest-5846	\$	10,000.52	0.00%	First National Bank	
Sewer Pennyest-3642	\$	47,141.07	0.00%	First National Bank	
Sewer 2022 Pennvest-6430	\$	14,632.52	0.00%	First National Bank	
STORMWATER					
Stormwater Revenue Account-8814	\$	544,428.48	0.00%	First National Bank	Earnings Generated offset fees for Services
Stormwater Money Market-4633	\$	2,021,808.01	4.59%	First National Bank	
Stormwater Pennvest-0241	\$	10,012.30	0.00%	First National Bank	
Restricted Cash Accounts		Balance	APY	Bank	
WATER					
Water Operation Reserve Account-6841	\$	-	4.15%	First National Bank	Closed account 7/30/23
Water Contingency Subaccount -0328	\$	=	4.15%	First National Bank	Closed account 7/30/23
Water 2016A Debt Service Reserve-517295	\$	5,812,524.38	5.190%	Bank of New York	
Water 2016A Debt Service Fund-517296	\$	630,604.74	5.190%	Bank of New York	
Water 2018 Debt Service Reserve-763549	\$	4,209,028.13	5.190%	Bank of New York	
Water 2018 Debt Service Fund-763548	\$	257,423.20	5.190%	Bank of New York	
Water 2018 Bond-Construction-763594	\$		4.870%	Bank of New York	
SEWER			1.07 070	Darik of Hew York	
Wastewater 2017 Debt Service Reserve-721503	\$	2,932,057.73	5.19%	Bank of New York	
Wastewater 2017 Debt Service Reserve-721303 Wastewater 2017 Debt Service Fund-721387	\$	282,951.75	5.19%	Bank of New York	
	-			Dalik Of New York	
Investment Assounts	Pale		ADV	Pank	
Investment Accounts	Bala	ance	APY	Bank	
ADMIN		ance			
ADMIN Certificate of Deposit – Nat'l Civil War Museum	Bala \$			Bank First National Bank	Restricted \$250,000 min/\$500,000 max
ADMIN Certificate of Deposit – Nat'l Civil War Museum WATER	\$	250,000.00	0.1499%	First National Bank	
ADMIN Certificate of Deposit – Nat'l Civil War Museum WATER PLGIT Investment Aug 2023	\$	250,000.00 500,000.00	0.1499% 4.870%	First National Bank PLGIT	Restricted \$250,000 min/\$500,000 max \$500,000 increment
ADMIN Certificate of Deposit – Nat'l Civil War Museum WATER PLGIT Investment Aug 2023 PLGIT Investment Seot 2023	\$	250,000.00	0.1499%	First National Bank	
ADMIN Certificate of Deposit – Nat'l Civil War Museum WATER PLGIT Investment Aug 2023 PLGIT Investment Seot 2023 PLGIT Investment Oct 2023	\$ \$ \$	250,000.00 500,000.00 500.000.00	0.1499% 4.870% 5.040%	First National Bank PLGIT PLGIT	
ADMIN Certificate of Deposit – Nat'l Civil War Museum WATER PLGIT Investment Aug 2023 PLGIT Investment Sept 2023 PLGIT Investment Oct 2023 PLGIT Investment Nov 2023 PLGIT Investment Nov 2023 PLGIT Investment Dec 2023	\$ \$ \$ \$ \$ \$	250,000.00 500,000.00 500,000.00 500,000.00 500,000.00	0.1499% 4.870% 5.040% 5.390% 5.250% 5.140%	First National Bank PLGIT PLGIT PLGIT PLGIT PLGIT PLGIT	
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Grant Management Report



	GRANT OVERVIEW Anticipated Announcement Request Type (Cash vs.													
Funding	Program	Project	Proposal Due Date	Anticipated Announcement Date	Date of Notification	Request Amount	Request Type (Cash vs. Loan)	CRW Matching Amount	\$\$\$ Awarded	Loan Disbursed	Rationale/Notes			
					Capital Region Water's Pe	ending Grant & Loan Applicati	ions							
FY23 Community Project	Green Stormwater	Riverfront Park Green	4/25/2022	TBD	TBD	\$2,000,000	Cash	\$600,000	TBD	\$0				
Funding Appropriations Request	Infrastructure	Infrastrusture Project												
	ind COVID-19 ARPA H2O PA - Small	1	12/21/2022	Mid to late 2023	TBD	\$10,500,000	Cash	\$5,275,105	TBD	\$0				
Economit Development	Water Supply, Sanitary Sewer and Storm Water Projects	Preparation Project												
			SUB TOTAL	5		\$12,500,000		\$5,875,105		\$0				
					Capital Region Water's Awar	ded Grant, Loan and Bond Pr	roceeds							
PENNVEST	Infrastructure (Projects)	ProFi Wastewater	COMPLETED	10/21/2020	10/21/2020	\$65,000,000	Loan	\$1,000,000	\$65,000,000	\$8,927,209	\$592,449 submitted for			
		Infrastructure Loan									reimbursement on 9/8/2023			
PENNVEST	Infrastructure (Projects)	ProFi Wastewater Collection	COMPLETED	9/2/2021	9/2/2021	\$21,000,000	Loan	\$500,000	\$21,000,000	\$4,258,440	\$1,245,492 submitted for			
		System Rehab Loan									reimbursement on 9/8/2023			
PENNVEST	Infrastructure (Projects)	ProFi Green Infrastructure	COMPLETED	10/16/2019	10/16/2019	\$13,000,000	Loan	\$0	\$13,000,000	\$4,863,640	\$283,678 submitted for			
		PENNVEST Loan									reimbursement on 9/8/2023			
											Amount due from COH - \$216,430			
PENNVEST	Infrastructure (Projects)	Front Street Pump Station Upgrade	COMPLETED	7/18/2018	7/18/2018	\$11,136,900	Loan	\$0	\$11,136,900	\$10,580,055	\$556,748 is PENNVEST holdback amount for project			
PENNVEST	Information (Dunington)	Des Fi Dein Line Western Construe	COMPLETED	4/20/2022	4/20/2022	¢44.622.000	1	\$0	\$41,622,000	\$1,895,371	Phase 3 settled on 9/19/2023			
FENNVEST	Infrastructure (Projects)	ProFi Drinking Water System Improvements	COMPLETED	4/20/2022	412012022	\$41,622,000	Loan	\$ U	\$41,022,000	\$1,050,11	\$281,152 submitted for reimbursement on 9/8/2023			
FEMA	Coronavirus (COVID-19)	FEMA COVID Relief	COMPLETED	7/13/2021	7/13/2021	\$103,258	Cash	\$0	\$103,258	\$103,258	Awarded on 2/7/2022			
	Pandemic: Safe Opening and Operation Work Eligible for Public Assistance										Final payment of \$10,326 received on 5/9/2023			
Susquehanna River Basin	2023 Comsuptive Use	Advanced Metering	1/31/2023	April 2023	4/21/2023	\$250,000	Cash	\$2,070,000	\$250,000	\$0	Award letter received on 4/21/2023			
Commission (SRBC)	Mitigation Grant Program	Infrastructure Upgrade Project									PENNVEST Drinking Water Pro-Fi Phase 3 settled on 9/19/2023			
			SUB TOTAL			\$152,112,158		\$3,570,000	\$4F2 442 4F0	\$30,627,974				
			SUB TOTAL:		Capital Region Water	s Unawarded Grants & Loans		\$5,570,000	\$152,112,158	\$30,627,974				
National Fish and Wildlife Foundation	Chesapeake Bay Innovative Nutrient and Sediment Reduction Grant	Enhancing Community Connections Through Clean Water Project	11/17/2022	Notified 5/30/2023	5/30/2023	\$1,000,000	Cash	\$300,000	\$0	\$0	Notified on 5/30/2023 that CRW was not selected for grant funding			
			SUB TOTAL			\$1,000,000		\$300,000	\$0	\$0				
						\$1,000,000		4500,000	30	\$0				



Capital Improvement Projects Report



Drinking Water Capital Improvement Projects Report

Actual Expenditure



			ACTUAL EXPENDITURE (from Finance)									Actual Expenditure							
								ACIOA	L LAI LINDII O	te (iioiii i iiiaii	ccj					YTD	% Budget Expend	ed .	2023 Budget
MUNIS Project Code	Description	Status	Jan		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	_			
60800801-80100-00006	Mountain Line Repairs	STUDY	\$	5,159 \$	- \$	- \$	- :	\$ - \$	- \$	-						\$ 5,159	6%	\$	82,500
60800801-80100-00015	Water Main Replacement	CONSTRUCTION	\$	7,020 \$	1,587 \$	13,120 \$	42,434	\$ 44,230 \$	4,265	4,438						\$ 127,094		\$	-
60800801-80100-00016	Water Main Condition Assessment	STUDY	\$	- \$	- \$	- \$	- :	\$ - \$	- \$	-						\$ -	0%	\$	100,000
60800801-80100-00118	Water PennDOT I-83 Expansion	DESIGN	\$	- \$	- \$	- \$	- :	\$ - \$	- \$	-						\$ -	0%	\$	24,500
60800801-80100-00226	2022 Water System Improvement (PV)	CONSTRUCTION	\$ 26	6,133 \$	39,555 \$	230,907 \$	166,349	\$ 210,541 \$	195,090	232,386						\$ 1,340,961	47%	\$	2,843,662
60800801-80100-00228	Cameron St. Water Main Improve (PV)	DESIGN	\$ 3	0,741 \$	13,100 \$	9,755 \$	1,061	\$ 2,376 \$	13,069	311,685						\$ 381,787	6%	\$	6,348,000
60800801-80100-00229	Water Meter Network Conversion (PV)	DESIGN	\$	4,765 \$	5,905 \$	9,885 \$	6,873	\$ 2,320 \$	5,054 \$	2,706						\$ 37,508	2%	\$	1,650,000
60800801-80100-00230	DeHart Dam Improvements PV	DESIGN	\$	0,996 \$	19,920 \$	47,120 \$	31,025	\$ 16,895 \$	13,662 \$	6,058						\$ 205,676	46%	\$	445,000
60800801-80300-00303	Flocculation Equipment Upgrade	CONSTRUCTION	\$	- \$	323,960 \$	9,360 \$	7,878	\$ 1,433 \$	3,861	1,181						\$ 347,673	54%	\$	641,859
					-											-			
	Act	ual Monthly Expenditure	\$ 39	4,813 \$	404,027 \$	320,147 \$	255,621	\$ 277,795 \$	235,001 \$	558,454 \$	- \$; -	\$ -	\$ -	\$ -	\$ 2,445,857	20.2%	\$	12,135,521
	Actual C	UMULATIVE Expenditure	\$ 39	4,813 \$	798,841 \$	1,118,987 \$	1,374,608	\$ 1,652,403 \$	1,887,404 \$	2,445,857									



Stormwater Capital Improvement Projects Report

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8%

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668,741

349.950

59,742

180,400

292,874

2,901,302

770,000

37,000

150,000

4,920,480



1,937,821 \$

MUNIS Project Code 90800801-80100-00087 90800801-80100-00091 90800801-80100-00108 90800801-80100-00125 90800801-80100-00130 90800801-80100-00130 Description
Camp Curtin Big Green Block GSI
Paxton Crk TMDL Joint PRP MS4
SW Pond Retrofit - Bellevue Pa
Sw PENNVEST Pro-Fi Phase 4
Sw PENNVEST Pro-Fi Phase 5
PHEAA Campus GSI
Reservoir Park - Phase 2 GSI

Status
CONSTRUCTION
CONSTRUCTION
CONSTRUCTION
CONSTRUCTION
DESIGN
DESIGN
DESIGN
DESIGN

Actual Monthly Expenditure

Actual CUMULATIVE Expenditure \$

481,458 \$ 1,104,009 \$

													(
	Jan		Feb		Mar		Apr		May		Jun		Jul	Aug	Sep	0	ct	Nov		Dec	
\$	=	\$	201,231	\$	601,170	\$	73,981	\$	355,934	\$	3,558	\$	18,327								Ş
\$	-	\$	-	\$	-	\$	-	\$	-	\$	1	\$	-								- 5
\$	-	\$	270,296	\$	14,646	\$	114,783	\$	269,016	\$	-	\$	-								\$
\$	-	\$	-	\$	4,511	\$	1,751	\$	7,916	\$	6,268	\$	329,505								5
\$	3,180	\$	6,751	\$	2,225	\$	10,432	\$	-	\$	37,155	\$	-								\$
\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-								\$
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2,332,634



Wastewater Capital Improvement Projects Report



								ACT	UAL EXPEND	ITURE (from	Finance)					YTD	% Budget Ex	randad	2023 Budget
MUNIS Project Code	Description	Status	Jan		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	110	% buuget Ex	pended	2023 Buuget
80800801-80100-00023	AWTF Energy Recovery Improv	DESIGN	\$	- \$	-	\$ -	\$ 11,830	\$ -	\$ -	\$ 9,867	-					\$ 21,69	7 0%	\$	8,074,562
80800801-80100-00024	Primary Clarifier Improvement	DESIGN	\$	- \$	-	\$ -	\$ -	\$ -	\$ -	\$ 1,503						\$ 1,50	3 1%	\$	168,000
80800801-80100-00026	Collection System Rehab	CONSTRUCTION	\$ 131	057 \$	190,622	\$ 127,034	\$ 735,728	\$ 54,308	\$ 21,915	\$ 216,097						\$ 1,476,76	2 87%	\$	1,707,000
80800801-80100-00028	Paxton Creek Interceptor Repai	STUDY	\$	- \$	-	\$ 4,040	\$ -	\$ -	\$ -	\$ -						\$ 4,04	0 1%	\$	465,000
80800801-80100-00061	Arsenal Boulevard Sewer Improv	DESIGN	\$	- \$	2,877	\$ 2,987	\$ 9,885	\$ -	\$ 308	\$ 22,278						\$ 38,33	5 l 1%	\$	2,689,400
80800801-80100-00065	Other Multi-Modal CCTV Investi	STUDY	\$	- \$	-	\$ -	\$ -	\$ -	\$ -	\$ -						\$ -	0%	\$	500,000
80800801-80100-00083	Front St Interceptor Rehab P2	CONSTRUCTION	\$	- \$	290,525	\$ 52,434	\$ 2,811,899	\$ 4,443,109	\$ 699,579	\$ 1,395,961						\$ 9,693,50	7 61%	\$	16,017,826
80800801-80100-00115	PennDOT I-83 Expansion	DESIGN	\$ 8	647 \$	3,358	\$ 1,115	\$ 140,699	\$ 3,113	\$ 1,015	\$ 52,493						\$ 210,44	0 52%	. \$	405,000
80800801-80100-00126	3rd & Wiconisco Separation	DESIGN	\$	- \$	-	\$ -	\$ -	\$ -	\$ 2,063	\$ 609						\$ 2,67	2 1%	\$	230,000
80800801-80100-00127	Ww Sewer Rehab Pennvest \$21M	CONSTRUCTION	\$ 152	411 \$	152,411	\$ 152,411	\$ 152,411	\$ 152,411	\$ 152,411	\$ 152,411							32%		3,993,881
80800801-80100-00132	Ww Sewer Rehab Pennvest \$21M Phase 2	CONSTRUCTION	\$	-						\$ 204,221						\$ 1,287,96	7	,	3,333,001
80800801-80100-00132	Ww Sewer Rehab Pennvest \$21M Phase 3	DESIGN								\$ 16,871									
80800801-80100-00128	Primary Digester Insulation	STUDY	\$	- \$	-	\$ -	\$ -	\$ -	\$ -	\$ -						\$ -	0%	\$	500,000
	Ac	ctual Monthly Expenditure	\$ 292	,115 \$	639,794	\$ 340,020	\$ 3,862,452	\$ 4,652,941	\$ 877,291	\$ 2,072,310	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,736,92	36.79	6 \$	34,750,669

Actual CUMULATIVE Expenditure \$ 292,115 \$ 931,909 \$ 1,271,929 \$ 5,134,381 \$ 9,787,322 \$ 10,664,612 \$ 12,736,923



Development Stormwater Management Review Summary



Development Stormwater Management Review Summary

September 20, 2023 Status Report

Development	Status	Latest Submittal	Latest Comments	Act 167 Watershed	ВМР	Disturbed Area (Ac)	Rate Control	Volume Control	Infiltration	Comment
137 South 17th Street	Preliminary/Final Development	9/16/2019	10/10/2019	Paxton Creek	Detention Basin	0.85	Х			Need executed O&M
15th and Walnut Street	Preliminary/Final Development	12/17/2019	1/2/2020	Paxton Creek	Rain Garden/Porous Pavement	3.23	Х	X	Х	Sent comment letter on 1/2/2020
Bethesda Mission	Preliminary/Final Development	2/10/2020	2/20/2020	Paxton Creek	Rain Garden	0.4	Х	Х	Х	Sent comment letter on 2/20/2020
638-644 Woodbine Street	Preliminary/Final Development	2/12/2020	2/27/2020	Paxton Creek	Control Structure with Weir	0.24	X	X		Sent comment letter on 2/27/2020
Harrisburg Military Post	Preliminary/Final Development	3/5/2020	4/24/2020	Paxton Creek	SWM Facility	5.95	X	Х	Х	Sent comment letter on 4/24/2020
1605-1609 Swatara Street	Preliminary/Final Development	1/19/2021	2/2/2021	Paxton Creek	SWM Facility/Porous Pavement	1.68	X		X	Sent comment letter on 2/2/2021
Riverfront Office Lot	Preliminary/Final Development	2/3/2021	3/2/2021	Susquehanna River	Infiltration Bed	2.57	X	Х		Sent comment letter on 3/2/2021
430 Reily Street	Preliminary/Final Development	2/23/2021	3/24/2021	Paxton Creek	Basin	1.69	X	×		Sent comment letter on 3/24/2021
1216 Kittatinny Street/ Hummel Street	Preliminary/Final Development	4/13/2021	5/17/2021	Paxton Creek	Pervious Pavement	0.31	X	X		Sent comment letter on 5/7/2021
1103 S. Front Street	Preliminary/Final Development	5/17/2021	12/21/2021	Susquehanna River/Paxton Creek	Rain Garden, Infiltration Trench, Infiltration Basin	5	X	X	X	Approval letter 12/29/2021
6th & Herr St (Bethel Village)	Preliminary/Final Development	9/3/2021	9/20/2021	Susquehanna River	Underground Infiltration Facility	0.49	Х	Х	Х	Approval letter 9/20/2021



Development Stormwater Management Review Summary

September 20, 2023 Status Report

Development	Status	Latest Submittal	Latest Comments	Act 167 Watershed	ВМР	Disturbed Area (Ac)	Rate Control	Volume Control	Infiltration	Comment
2101 North 6th Street	Preliminary/Final Development	8/17/2021	8/31/2021	Paxton Creek	SW Conveyance	0.71	Х			Approval letter 1/18/2022
1719 Market Street	Preliminary/Final Development	8/24/2021	9/20/2021	Paxton Creek	Underground Infiltration Facility	0.5	Х	X	Х	Approved and O&M received
3rd and Clinton Street	Preliminary/Final Development	9/13/2021	10/4/2021	Paxton Creek	Underground Infiltration Facility and Porous Pavement	0.6	Х	Х	X	Sent comment letter on 10/4/2021
2426 North 2nd Street	Preliminary/Final Development	12/17/2021	1/5/2022	Paxton Creek	Underground Infiltration Facility / Pervious Pavement	0.17	х	Х	Х	Sent comment letter on 1/5/2022
2463 Jefferson Street	Preliminary/Final Development	1/24/2022	1/31/2022	Paxton Creek	Basin	0.54	Х	Х	Х	Sent comment letter on 2/9/2022
1400 Sycamore Street	Preliminary/Final Development	9/1/2022	2/2/2023	Paxton Creek	Underground Storage	0.29	X	X	Х	Approval letter 2/2/2023
Catherine Hershey School (6th-7th Street & Muench)	Preliminary/Final Development	6/21/2022	6/22/2022	Paxton Creek	Underground Storage	5	Х	Х	Х	Sent comment letter on 6/22/2022
6th Street Apartments	Preliminary/Final Development	5/22/2023	6/12/2023	Susquehanna River	Rain Garden	0.77	Х	Х	X	Approval letter 6/12/2023
2151-2161 N. 4th Street	Preliminary/Final Development	7/13/2023	8/2/2023	Susquehanna River	Roof Sump	0.17	Х		Χ	Approval letter 8/2/2023
2709 & 2717 N. Front Street	Preliminary/Final Development	2/9/2023	3/22/2023	Susquehanna River	Rain Garden/Trench	0.87	X	X	Х	Sent comment letter on 3/22/2023
6th & Emerald	Preliminary/Final Development	4/11/2023	6/16/2023	Susquehanna River/Paxton Creek	Underground Storage	1	Х	Х	Х	Sent comment letter on 9/6/2023



Recruiting Status



RECRUITING STATUS

Gina Bond, HR Analyst

September 11, 2023

New Hires

Position	Employee	Effective Date	Service Area
Accounting Manager	Rebecca Staub	9/11/2023	No
Procurement Manager	Bryon Maze	9/25/2023	No

Promotions/Transfers

Employee	Former Position	New Position	Effective Date
Trevor Thompson	Field Maintenance Worker I - Wastewater	Field Maintenance Worker II - Wastewater	8/9/2023
Kevin Martin	Field Maintenance Worker I - Wastewater	Field Maintenance Worker II - Wastewater	8/21/2023
Rodney Bebenek	Maintenance Specialist I – Drinking Water	Maintenance Specialist II – Drinking Water	9/7/2023
Damian Bernstein	Environmental Compliance Inspector	Operator IV – Wastewater	9/11/2023

Left Employment/Resignations/Retirements

Employee	Position	Effective Date
Victor Hess	Electrician III	9/1/2023



RECRUITING STATUS Gina Bond, HR Analyst

September 11, 2023

Open Positions

Position	Status	Service Area
Project Manager/Design Engineer	Interview process underway	N/A
Laborer – Drinking Water	Interview process underway	N/A
Payroll Manager, Accounting Specialist	Interview process underway	N/A
Assistant Facility Maintenance Supervisor	Interview process underway	N/A
Maintenance Specialist I – Drinking Water	Posted internally & externally	N/A
Electrician III	Posted internally	N/A
Environmental Compliance Inspector	Posting pending	N/A



Incoming Correspondence Report

Incoming Correspondence Report

August 2023

Date Received	Date of Correspondence	Company/Agency and Name of Sender	Reference	CRW Addressee/ Received by/ Provided to
8/15/2023	8/7/2023	PA Department of Environmental Protection	PWSID No. 7220049 Categorical Exclusion Approval	Addressed to: Jeff Bowra CC'd to: Dave Stewart Received by: Janice Miller-Zerbe Provided to: Jeff Bowra & Dave Stewart
8/16/2023	8/11/2023	Appalachian Forest Consultants	Timber Product Harvest/Sale Agreement	Addressed to: Tanya Dierolf Received by: Janice Miller-Zerbe Provided to: Tanya Dierolf
8/31/2023	8/31/2023	Glace Associates, Inc., Max Stoner Project Manager	Preliminary/Final Land Development Plan	Addressed to: Claire Maulhardt Received by: Janice Miller-Zerbe Provided to: Micaela Swart



Drinking Water



DRINKING WATER DEPARTMENT MONTHLY REPORT



Installation of two (2) Mag Meters at Water Services Center.

August 2023

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



Drinking Water Department Monthly Report

August 2023

Plant Operations

Capital Region Water's (CRW) Drinking Water department met all Federal Safe Drinking Water Act water quality standards for the month of August.

Specific water quality results are summarized in Exhibit A. A total of 235.092 MG, averaging 7.584 MGD was withdrawn from the water supply source for treatment. As shown in Exhibit B, a total of 248.488 MG, averaging 8.016 MGD, of finished drinking water was pumped to the distribution system.

The DeHart water source was in service for 31 days. The Susquehanna River water source was in service for zero days.

The DeHart Watershed had below average rainfall in August (Exhibit C) and the DeHart Reservoir water level decreased (Exhibit D). An estimated 226.94 MG of water was released from the DeHart Reservoir to Clark Creek, averaging 7.32 MGD for the month. This downstream flow, which is received by remote flow monitoring from the weir location and actual staff gauge readings, met the flow required by the State Water Allocation Permit (Exhibit E).

Plant Maintenance

The Maintenance team performed approximately 37 preventative maintenance work orders and nine corrective maintenance work orders for the month of August 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 Water Service Center (WSC) took delivery of C-105, the Distribution's team's F-150-Pickup truck and applied all branding and identifiers to vehicle.
- Installed conduit and wiring the two new remote heads for the two isolation valve actuators.
- Installed two (2) new 8-inch Magnetic Flow Meters and two (2) Remote Heads on the Domestic/Process Water lines.
- Continue to perform work on the lab renovations for the BACTI Lab and Amy's office relocate from the Lab Closet.
- Removed the old Aluminum Sulfate Chemical Feed System. The new one is in place and operational and in receipt of Operational Permit from PADEP.
- The Filter Building Window Replacement project via PennBid is complete.
- The Water Service Center Basin Railing project via PennBid is underway.
- DeHart Dam Control Building Parapet Wall Cap project via COSTARS is complete.



Drinking Water Department Monthly Report

August 2023

Distribution

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

- Repaired Six (6) leaking services during the month of August, totaling 241,920 gallons of unmetered water.
- Repaired one (1) water main break 51,840 gallons of unmetered water.
- Installed two (2) mag meters in water plant.
- Repaired two (2) fire hydrants.
- Completed 446 work orders.
- Completed 523 water, sewer, and stormwater locates.
- Worked 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 monthly regulatory samples for Total Coliform, and E. Coli.
- No taste or odor complaints.



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	2.01	1.99	1.95	1.98	1.99	1.99					1.99	0.2 - 4.0
Distribution System	1.40	1.43	1.42	1.31	1.21	1.19	1.10	1.07					1.27	>0.20
Turbidity, NTU														
Influent from DeHart	1.20	0.98	0.71	0.61	0.77	1.02	1.05	0.80					0.89	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA						NA
Filter Plant Effluent	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03					0.03	0.30
pH, Std Units														
Influent from DeHart	6.4	6.5	6.5	6.4	6.1	6.0	5.9	5.8					6.19	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA						NA
Filter Plant Effluent	7.6	7.5	7.9	7.7	7.5	7.4	7.4	7.4					7.55	6.5 - 8.5*
Distribution System	7.1	7.7	8.1	8.0	8.0	7.4	7.9	8.0					7.76	6.5 - 8.5*
Total Alkalinity, mg/L as CaCO3														
Influent DeHart	5	5	5	5	5	5	5	5					5.00	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA						NA
Filter Plant Effluent	15	14	13	15	16	18	20	24					16.89	NA
Distribution System	13	14	15	14	15	14	20	25					16.25	NA
Temperature, degrees C														
Influent from DeHart	5.9	5.4	7.3	10.0	13.0	14.2	16.8	17.9					11.31	NA
Influent from Susquehanna	NA	NA	NA NA	NA	NA	NA	NA	NA						NA
Filter Plant Effluent	6.6	6.4	7.2	9.8	12.0	13.3	15.4	16.4					10.88	NA
Distribution System	14.1	13.2	13.6	16.8	18.3	20.9	22.4	23.7					17.87	NA
Fluoride, mg/L	1-4.1	13.2	13.0	10.0	10.5	20.3	22,4	23.7					17.07	1474
Filter Plant Effluent	0.95	1.02	1.00	0.88	0.69	0.77	0.75	0.83					0.86	2
Aluminum, mg/L	0.55	1.02	1.00	0.00	0.05	0.77	0.75	0.05					0.00	_
Filter Plant Effluent	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.03					0.02	0.2*
Iron, mg/L	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.05					0.02	V.I
Influent from DeHart	0.11	0.06	0.04	0.05	0.07	0.13	0.24	0.42					0.14	NA
Influent from Susquehanna	NA	NA	NA NA	NA	NA	NA	NA	NA					U	NA
Filter Plant Effluent	0.02	0.01	0.01	0.02	0.02	0.01	0.02	0.02					0.02	0.3*
Distribution System	0.07	0.00	0.00	0.01	0.00	0.02	0.00	0.00					0.01	0.3*
Total Dissolved Solids, mg/L	0.07	0.00	0.00	0.01	0.00	0.02	0.00	0.00					0.01	0.5
Influent from DeHart	15	15	16	16	16	17	17	18					16.31	NA
Influent from Susquehanna	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA	NA					10.51	NA NA
Filter Plant Effluent	37	34	35	37	39	42	45	51					40.00	500*
Distribution System	39	36	34	38	40	44	46	52					41.13	500*
Total Hardness, mg/L	39	30	34	36	40	44	40	32					41.13	300
Influent from DeHart	8	8	8	8	8	8	8	18					9.21	NA
Influent from Susquehanna	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA					9.21	NA NA
Filter Plant Effluent	8	8	8	8	8	8	8	51					13.49	NA NA
Distribution System	10	6	6	6	6	7	7	7					6.77	NA NA
Orthophosphate, mg/L	10	0	0	0	U	,	,	,					0.77	INA
Filter Plant Effluent	1.20	1,24	1.27	1.27	1.20	1,22	1.17	1.24					1.23	0.7 - 1.3*
		1.19		1.27				1.24					1.23	0.7 - 1.3*
Distribution System **Total Trihalomethanes, ug/L	1.21	1.19	1.12	1.27	1.21	1.18	1.12	1.27					1.20	0.7 - 1.3*
	34.2	NA	NA	42.8	NA	NA	57.0	NA					44.7	80.0
Distribution System	34.2	INA	INA	42.8	INA	INA	3/.0	INA					44./	oU.U
**Total Haloacetic Acids, ug/L	26.0	NIA	NIA	49.4	NIA	NA	E1 /	NA					AE E	60.0
Distribution System	36.8	NA	NA	48.4	NA	INA	51.4	NA					45.5	60.0
Total Organic Carbon, mg/L	2.46	B14	N14	1.00	N/A	NI A	2.40	B. C					2.05	B1 A
Influent from DeHart	2.16	NA	NA	1.90	NA	NA	2.10	NA					2.05	NA
Influent from Susquehanna	NA 1.22	NA	NA	NA 1.20	NA	NA	NA 1.20	NA					4.04	NA
Filter Plant Effluent	1.22 115	NA 112	NA 120	1.20 119	NA 112	NA 109	1.20 112	NA 113					1.21 114.03	NA NA
Average Filter Run, Hours														

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



EXHIBIT B

Water Production Data - 2023

	DeHart W	ithdrawal	River Wit	thdrawal	Total Wit	:hdrawal	Treated	l Water	Process	Water	Finished	l Water
Month	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	235.779	7.606	0.000	0.000	235.779	7.606	233.913	7.546	6.770	0.218	223.545	7.211
April	228.546	7.618	0.000	0.000	228.546	7.618	226.774	7.559	10.158	0.339	216.616	7.221
May	225.428	7.272	0.000	0.000	225.428	7.272	232.974	7.515	6.110	0.197	222.530	7.178
June	226.317	7.544	0.000	0.000	226.317	7.544	226.356	7.545	6.117	0.204	215.490	7.185
July	238.920	7.707	0.000	0.000	238.920	7.707	239.368	7.722	5.935	0.191	228.528	7.372
August	235.092	7.584	0.000	0.000	235.092	7.584	240.323	7.752	6.166	1.199	248.488	8.016
September												
October												
November												
December												
Total	1826.443		0.000		1826.443		1850.008		52.681		1786.648	
Average	228.305	7.514	0.000	0.000	228.305	7.514	231.251	7.612	6.585	0.342	223.331	7.350

Peak Day Water Use Minimum Day Water Use (MG) = Million Gallons (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	2.93	3.71	2.63	3.85	7.85	2.66					27.42
Daily Average	0.087	0.039	0.095	0.124	0.085	0.128	0.253	0.086					0.897
Ten Year Average	3.028	2.558	3	3.672	4.531	4.518	5.576	3.831	4.589	3.931	2.544	3.002	44.78
2022 Total	2.74	3.14	1.67	5.03	6.55	5.84	2.16	2.67	4.16	3.43	2.94	6.63	46.96

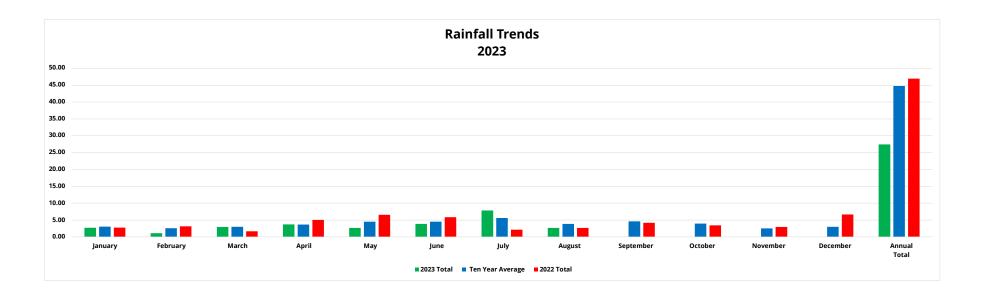




EXHIBIT D

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	-98.7	1.1	1.8	-10.0	-20.1	-32.3				
Ten Year AVG	-22.6	-19.4	-19.5	-8.0	-2.1	-2.9	-7.2	-18.1	-26.2	-39.1	-44.5	-42.5
2022 AVG	1.9	3.1	3.2	4.6	4.1	7.2	-12.1	-34.1	-48.5	-68.9	-80.6	-58.9

DeHart Reservoir Water Level Trends 2023

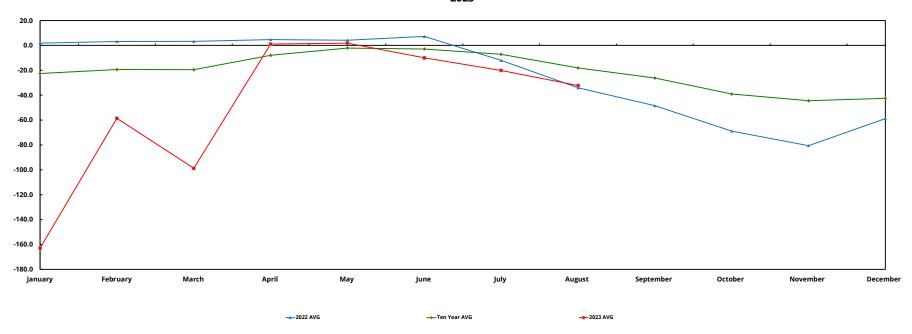




EXHIBIT E

Daily Conservation Release - 2023

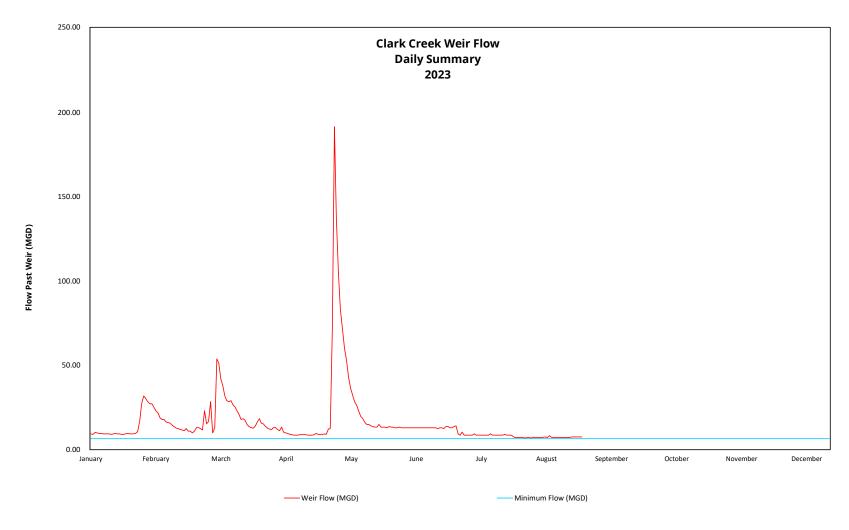




EXHIBIT F

Utility Usage - 2023

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
iter Services Center														
ctric Transmission														
Total, kwH	214.200	172.800	198.000	174.600	122.400	135.000	127.800	**					163.543	1.144.80
Cost, Dollars	\$16,812.87	\$8,947.67	\$10,245.05	\$9,131.12	\$7,335.72	\$8,306.81	\$8,063.86	**					\$9,834.73	\$68,843.1
ectric Generation														
Total, kwH	214,200	172,800	198,000	174,600	122,400	135,000	127,800	135,000					159,975	1,279,80
Cost, Dollars	\$1,253.64	\$1,180.73	\$1,168.47	\$1,159.78	\$981.51	\$1,058.66	\$870.88	\$1,037.51					\$1,088.90	\$8,711.1
atural Gas														
Total, Cu Ft	13,533	13,229	11,509	8,795	1,475	1,920	1,604	1,514					6,697	53,579
Cost, Dollars	\$12,244.94	\$11,133.40	\$9,875.88	\$8,238.84	\$1,838.65	\$1,880.96	\$1,852.79	\$1,490.85					\$6,069.54	\$48,556.3
ewer														
Total, Gal	7,710,000	6,070,000	7,288,000	7,213,000	6,490,000	7,000,000	6,498,000	6,609,000					6,859,750	54,878,00
Cost, Dollars	\$71,240.40	\$56,086.80	\$67,341.12	\$66,359.60	\$59,967.60	\$64,680.00	\$60,041.52	\$61,067.16					\$63,348.03	\$506,784.2
efuse														
Cost, Dollars	\$967.70	\$967.70	\$967.70	\$967.70	\$967.70	\$967.70	\$967.70	\$967.70					\$967.70	\$7,741.60
eservoir Park Pump Station														
ectric Transmission														
Total, kwH	88.000	92,400	85,600	93,200	93,200	80.800	82.800	**					88.000	616.000
Cost, Dollars	\$3,704.13	\$3,935.15	\$3,650.18	\$3,737.99	\$3.808.93	\$3,292.40	\$3,201.41	**					\$3.618.60	\$25,330.1
lectric Generation		,					.,,							,
Total, kwH	88.000	92,400	85,600	93,200	80,800	82,800	89,200	**					87.429	612,000
Cost, Dollars	\$1,350.22	\$1,214.10	\$1,215.18	\$1,292.31	\$1,417.70	\$1,323.10	\$1,465.66	**					\$1,325.47	\$9,278.27
latural Gas	11,000.00	4.,2	**,=*****	4.,222.0.	***************************************	1.,020	1.7							17,2.0.0
Total, Cu Ft	982	629	473	466	9	0	0	0					320	2.559
Cost, Dollars	\$903.79	\$626.39	\$509.26	\$456.90	\$36.03	\$28.36	\$28.36	\$28.36					\$327.18	\$2,617.4
usquehanna River Pump Station	4303.73	\$020.55	\$303.20	\$450.50	430.03	\$20.50	\$20.50	420.30					4527.10	42,017.40
lectric Transmission														
Total, kwH	1.200	1,200	600	1.200	600	1,200	**	**	-				1.000	6.000
Cost. Dollars	\$20.90	\$67.18	\$46.15	\$72.56	\$52.12	\$67.11	**	**					\$54,34	\$326.02
lectric Generation	\$20.50	\$07.10	940.15	\$72.30	432.12	407.11			+			1	454.54	4520.02
Total, kwH	1,200	1,200	600	**	600	1,200	1,200	**					1,000	6,000
Cost, Dollars	\$98.68	\$71.83	\$70.50	**	\$70.69	\$72.82	\$103.45	**					\$81.33	\$487.97
latural Gas	\$90.00	\$/1.03	\$70.30		\$70.09	\$72.02	\$103.43						\$61.33	\$407.97
Total, Cu Ft	580	499	499	389	53	2	0	0					253	2,022
Cost, Dollars	\$543.32	\$515.95	\$524.07	\$378.07	\$75.04	\$30.13	\$28.36	\$28.36					\$265.41	\$2,123.30
Inion Square Booster Station	\$343.32	\$313.93	\$324.07	\$376.07	\$75.04	\$30.13	\$20.30	\$28.36					\$265.41	\$2,123.30
lectric Transmission Total, kwH	3.340	2.744	2.483	1.559	744	441	**	**					1.885	11.311
Cost.Dollars	\$305.46	\$132.56	\$138.65	\$118.51	\$52.69	\$43.91	**	**					\$131.96	\$791.78
	\$305.46	\$132.5b	\$138.65	\$118.51	\$52.69	\$43.91							\$131.96	\$/91./8
lectric Generation	3.340	2.744	2.483	1,559	380	441		**						
Total, kwH							522	**					1,638	11,469
Cost, Dollars	\$130.77	\$113.42	\$101.36	\$95.50	\$81.60	\$70.49	\$70.68	**					\$94.83	\$663.82
eHart Facilities														
lectric Transmission														
Total, kwH	3,131	2,289	2,308	2,945	2,396	1,346	2,137	**					2,365	16,552
Cost, Dollars	\$168.70	\$167.37	\$165.82	\$158.03	\$134.07	\$94.26	\$120.70	**					\$144.14	\$1,008.9
lectric Generation								1						
Total, kwH	3,131	2,289	2,308	2,945	2,396	1,346	2,137	2,307					2,357	18,859
Cost, Dollars	\$102.80	\$83.69	\$161.05	\$63.55	\$89.12	\$84.90	\$104.57	\$85.27					\$96.87	\$774.95
rel Oil														
Total, Gals.	2,251	0	0	0	0	0	1,370	0					453	3,621
Cost, Dollars	\$5,768.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,232.03	\$0.00					\$1,375.00	\$11,000.0
ity Island Heat Trace														
ectric Transmission														
Total, kwH	40	140	147	116	0	0	0	**					63	443
Cost, Dollars	\$7.57	\$16.44	\$9.59	\$8.42	\$4.36	\$11.70	\$2.74	**					\$8.69	\$60.82
ectric Generation														
Total, kwH	40	140	147	116	0	0	0	0					55	443
				\$61.83	\$61.47	\$61.44	\$61.39	\$61.39	1	1	1	1	\$68.83	\$550.62
Cost, Dollars	\$61.81	\$61.93	\$119.36											

^{**} Not available at time report was developed

Total Transmission	\$96,361
Total Generation	\$20,467
Total Refuse	\$7,742
Total Gas	\$53,297
Total Sewer	\$506,784
Total Fuel Oil	\$11,000
Total Utilities	\$687,909



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 (Out of Service)	0	\$0
April	38,680	\$5,725
May	77,840	\$11,520
June	72,100	\$10,671
July	57,020	\$8,438
August	38,300	\$5,668
September		
October		
November		
December		
Average	35,493	\$5,253
Year to Date	283,940	\$42,022

^{*} Estimated savings based on electrical rate of \$0.148 per KWH

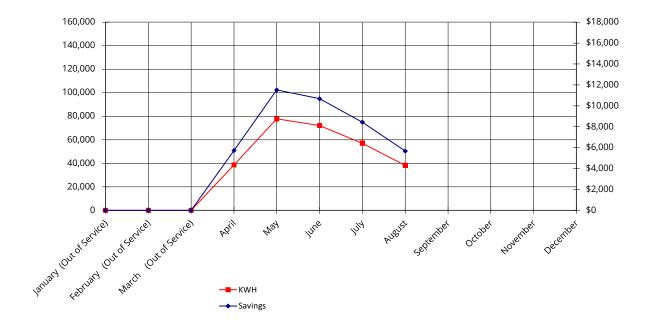




EXHIBIT H

Treatment Chemical Usage - 2023

Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Chlorine														
Total Lbs.	6,294	5,518	5,991	5,949	6,112	5,938	6,279	6,117					6,025	48,19
Average, Chlorine Lbs./Day	203	197	193	198	197	198	203	197					198.2	
Average, Chlorine Dose, mg/L	6.9	1.6	2.6	3.2	3.4	3.2	3.1	3.2					3.4	
Chlorine, Cost, \$/Lbs.	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639					1.6	
Chlorine Total Cost, Dollars	\$10,316	\$9,044	\$9,819	\$9,750	\$10,018	\$9,732	\$10,291	\$10,026					\$9,874.54	\$78,996.3
Alum 48.5%														
Total Lbs.	26,829	16,763	19,163	21,756	20,615	19,942	19,413	19,606					20,511	164,08
Average, Alum, Lbs./Day	866	599	618	725	665	664	626	632					674.4	
Average, Alum, mg/L	10.7	7.7	12.0	11.8	11.0	10.4	10.0	10.0					10.5	
Alum Cost, \$/Lbs.	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121					0.1	
Alum Total Cost, Dollars	\$3,246	\$2,028	\$2,319	\$2,632	\$2,494	\$2,413	\$2,349	\$2,372					\$2,481.70	\$19,853.5
Lime														
Total Lbs.	0	0	0	0	0	0	0	0					0	
Average Lime, Lbs./Day	0	0	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	0.0					0.0	
Lime Cost, \$/Lbs.	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86					\$0.86	
Lime Total Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00					\$0.00	\$0.00
Code Ach														
Soda Ash Total Lbs.	17,400	12,350	13,050	13,650	17,400	20,350	23,950	23,803					17,744	141,953
Average Soda Ash, Lbs./Day	561	441	421	455	561	678	772	767					582.0	141,555
Average, Soda Ash Dose, mg/L	19.2	13.5	19.0	7.2	9.0	10.8	12.0	12.1					12.8	
			\$0.368	\$0.368		\$0.368	\$0.368	\$0.368					0.4	
Soda Ash Cost, \$/Lbs.	\$0.368 \$6,403	\$0.368 \$4,545	\$4,802	\$5,023	\$0.368 \$6,403	\$7,489		\$8,760					\$6,529.79	\$52,238.30
Soda Ash Total Cost, Dollars	\$6,403	\$4,545	\$4,802	\$5,023	\$6,403	\$7,489	\$8,814	\$8,760					\$6,529.79	\$52,238.30
Fluoride Total Lbs.	2,240	1,965	1,965	1,660	1,167	1,133	1,198	1,167					1,562	12,495
						1,133								12,495
Average, Fluoride Lbs./Day	72	70	63	55	38		38	37					51.3	
Average, Fluoride (F-) Dose, mg/L	1.1	1.1	1.0	0.9	0.6	0.7	0.7	0.7					0.8	
Fluoride Cost, \$/Lbs.	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30					\$0.30	
Fluoride Total Cost, Dollars	\$672	\$590	\$590	\$498	\$350	\$340	\$359	\$350					\$468.69	\$3,749.50
Sodium Hydroxide 50%														
Total NaOH 50% dry Lbs.	35,623	31,225	33,907	33,665	34,585	33,603	35,534	17,449					31,949	255,591
Average NaOH 50%, dry Lbs./Day	1,149	1,115	1,094	1,122	1,116	1,120	1,146	562					1,053	
Average, NaOH 50%, mg/L	19.2	15.7	19.2	8.9	8.8	8.9	8.9	8.9					12.3	
NaOH 50% Cost, dry \$/Lbs	\$0.450	\$0.450	\$0.450	\$0.450	\$0.450	\$0.450	\$0.450	\$0.450					0.5	
NaOH 50% Total Cost, Dollars	\$16,030	\$14,051	\$15,258	\$15,149	\$15,563	\$15,121	\$15,990	\$7,852					\$14,376.88	\$115,015.05
Zinc Orthophosphate														
Total Zn3(PO4)2, wet Lbs.	4,802	4,239	4,565	4,539	4,559	4,246	4,788	4,669					4,551	36,407
Average Zn3(PO4)2, wet Lbs./Day	155	151	147	151	147	142	154	150					149.6	55,407
Average, Zn3(PO4)2, Wet Lbs./bay Average, Zn3(PO4)2 Dose, mg/L	2.5	2.5	2.5	2.5	2.5	2.4	2.5	2.5					2.5	
Zn3(PO4)2 Cost, wet \$/Lbs.	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724					1.7	
Zn3(PO4)2 Total Cost, Dollars	\$8,279	\$7,308	\$7,870	\$7,825	\$7,860	\$7,320	\$8,255	\$8,049					\$7,845.70	\$62,765.62
Potassium Permanganate Total KMnO4, Lbs.	0	0	0	0	0	0	0	0					0	0
Average KMnO4, Lbs./Day	0	0	0	0	0	0	0	0					0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.0	
Average, KMnO4 Dose, mg/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
KMnO4 Cost, \$/Lbs.	****	***	****		***	***		***					#DIV/0!	
KMnO4 Total Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			+	-	\$0.00	\$0.00
Expenditure													\$41,577.30	\$332,618.37
Average Treated Cost per (MG) Total Treated Flow (MGD)														0.000
Average Treated Flow (MGD)		- 1		ı İ			I	I			I	1		231.25



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	550	520	497	485	546	523					4,052	507
Street Restorations	0	0	7	1	15	6	1	0					30	4
Leak Detection Assessment Percent of Distribution System	8	8	8	8	8	8	8	8					64	8
Main Break Repair - Detected Non-Surfacing	0	0	0	0	0	0	0	0					0	0
Main Breaks Repaired - Emergency	2	1	1	0	1	3	1	1					10	1
Service Line Leaks Detected	0	0	0	0	0	0	0	0					0	0
Service Line Leaks Repaired	1	0	10	7	4	2	6	7					37	5
Valves - Exercised	0	0	0	21	1	0	55	88					165	21
Valves - Replaced	0	0	0	0	0	0	1	3					4	1
Hydrant Flow Tests	0	8	1	2	7	6	4	1					29	4
Hydrants Returned to Service	0	0	0	0	1	2	2	0					5	1
Water Tap - Disconnected	2	0	11	13	4	0	6	1					37	5
Water Tap - New Connection	2	0	0	0	0	0	5	0					7	1
Water Shutoffs - Delinquent Accounts	0	0	0	0	0	0	0	0					0	0
Water Shutoffs - Other	24	11	21	62	48	56	56	31					309	39
Water Shutoffs - Non Payment	0	0	21	41	31	43	42	37					215	27
Water Restoration Turn on Other	24	22	23	33	23	55	41	19					240	30
Water Turn on - Non Payment	0	1	6	24	4	38	21	19					113	14



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	4	5	7	6	1	6					38	5
	Leaking	2	3	2	5	2	2	2	0					18	2
Replacement	Frozen	20	4	3	1	1	1	0	0					30	4
	Non-registering	6	6	9	4	8	10	16	10					69	9
	Large Meters ¹	0	0	0	0	0	0	0	0					0	0
New Service	New Installation	2	0	0	0	0	0	0	0					2	0
Meter Service															
MXU's Replaced	MXU's Replaced	47	43	40	22	34	66	34	40					326	41
Batteries Replaced	Batteries Replaced	45	323	113	65	80	134	75	67					902	113
Meter Pits Serviced	Meter Pits Serviced	0	0	0	0	1	0	0	0					1	0
Meter Calibrations															
Small Meters ²	Calibrated meters	0	0	0	0	0	0	0	1					1	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	N/A	N/A	N/A	N/A	N/A	N/A					N/A	N/A
Billed Metered Exported	Bulk Water Hauling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					N/A	N/A
Billed Metered	Hydrant Connections	0	0	113,557	4,500	407	448	11,883	0					130,795	16,349
Billed Unmetered	Hydrant Flow Tests	0	12,300	4,000	4,305	14,094	14,304	9,450	12,200					70,653	8,832
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	48,449	51,011	40,285	3,479,672	5,975,003	39,060	277,818	34,248					9,945,546	1,243,193
Leakage on Distribution Mains	Main Leaks	1,318,637	2,836,746	95,144	0	109,685	383,537	370,363	19,274					5,133,386	641,673
Leakage on Service Lines	Service Leaks	2,321,113	41,760	568,560	135,444	95,040	17,280	312,960	241,920					3,734,077	466,760
	Total	3,688,199	2,941,817	821,546	3,623,921	6,194,229	454,629	982,474	307,642	0	0	0	0	19,014,457	2,376,807



Wastewater



WASTEWATER DEPARTMENT MONTHLY REPORT



Nighttime view of the Final Clarifiers from the RAS Regeneration Tank. Photo by David Toth.

August 2023

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



AWTF Monthly Report

August 2023

Overview

The Wastewater Department continued its steady march on WIMS implementation in August. Additional rounds sheets were created in RIO to pull Operator hand-reads directly into the database. Several sheets remain to be created in RIO. That work will continue through the fall.

The laboratory took a major step with the implementation of LabCal, another module within WIMS. This was the final step in the digitization of all laboratory data that is utilized for process control and regulatory reporting. August was spent as a test run to work out all glitches. Full implementation commenced on September 1st and the Laboratory is now almost entirely paperless.

Facility Operations continued and intensified a deep-cleaning project at the AWTF in preparation for the Central Pennsylvania Water Quality Association's Annual Trade Fair and Supertour which will take place on September 22nd. Operators spent significant time cleaning buildings and power washing concrete tankage. The Maintenance group has also been hard at work with cleaning and painting projects. The event presents an excellent opportunity to showcase the AWTF and Capital Region Water itself to regional industry professionals.

Operations

During the month of August, the AWTF met all monthly average NPDES requirements. One (1) Dry Weather Overflow (DWO) was reported.

Hydraulic loading to the AWTF averaged 16.0 million gallons per day (MGD). The treatment process achieved removal reductions of 98.2 percent CBOD, 97.6 percent Suspended Solids, 52.8 percent Phosphorus, and 93.8 percent Ammonia (Exhibit A).

The Contract Waste Hauling program collected \$98,846.86 in revenue from 2,198,180 gallons discharged (Exhibit G). This is the largest revenue month in two and a half (2 ½) years, continuing the high revenue trend from the previous four months. Increased leachate volume from NSP attributed to the revenue boost as they discharged nearly 1 million gallons.

The Cogeneration facility had no runtime in August. As such, no revenue was generated. The extraordinarily long lead time for a critical replacement part on the 39-year-old unit has kept it inactive since July.





August 2023

Laboratory

- LabCal is set up and most of the bugs have been fixed. We used August to test run all components of WIMS for the lab: Data entry, QA/QC, and LabCal. We will go live on September 1st.
- Gathered more information on our part of the PFA pilot from the Kemira Team. Working on ordering supplies and getting a place to set up the extra equipment in the auxiliary lab.
- Successfully passed all PT samples for continued lab accreditation through PADEP. Received another Certificate of Excellence from ERA for our results.

Pretreatment

- Started organizing and going through all the Industrial User files left from the Pretreatment Coordinator for an easier experience during the next pretreatment inspection from the EPA.
- Started scheduling facility inspections for Industrial User's in September.
- Continuing to provide information to Durabond located in Steelton on the permitting process if they decide to discharge wastewater into the sewer system.

Plant Maintenance

- Continued annual pump and motor lubrication at the facility.
- Replaced worn conveyor belt segments on sludge conveyor at the Belt Filter Press.
- Removed washer compactor screens on both units to modify clearances to avoid grease buildup on screen at the Headworks Screening building.
- Continued curb painting and general cleaning at the facility in preparation of plant tours.
- Serviced standby generator full load test at Market Street and Spring Creek Pump Stations.
- Repaired drive assembly on Rotary Lobe Pump No. 2 and cleared debris lodged in lobes at the Waste Activated Sludge Pump Station.
- Repairing 16-inch pump discharge line where coupling was rusted thru at the Return Sludge Pump Station.
- Preparing for annual preventative maintenance and installation of new Unox Cooling Tower.
- Performed vehicle repairs in preparation for state inspections.
- Provided weekly maintenance on JCB loader.
- Performed daily service for vehicular related repairs: bulbs, batteries, tires, A/C, lube oil and filters, and flat tires.
- Performed maintenance tasks per request at Administrative Offices.

AWTF Monthly Report



August 2023

Field Construction

- Repaired 20 inlets in various locations throughout the city.
- Blanked eight (8) inlets in various locations throughout the city to combat trash from entering the system.
- Investigated inlet laterals on Walnut Street to identify potential leaks that were causing problems for the steam lines. The problem was identified and sent to the Engineering Department for IDIQ.
- Installed flow metering in flood chambers to monitor overflows during storm events as part of required study.
- Repaired 20 feet of 12-inch storm pipe on Summit Street. Also, replaced the inlet box and top with a new M top inlet.
- Replaced 10 feet of 10-inch sanitary sewer pipe on Luce Street.

Field Operations

- Performed CCTV assessment of 10,769 feet (2.04 miles) of pipe.
- Flushed 1,457 feet (0.28 miles) of sewer pipe.
- Responded to nine backup and overflow calls. None were the responsibility of CRW.
- Responded to six sinkhole calls. CRW was liable for three.
- Cleaned 162 inlets.
- Inspected 156 inlets.
- One Dry Weather Overflow (DWO) occurred this month at CSO #043 Kittatinny and Cameron Streets.
- Assisted Land Studies at four sites for flow monitoring and sampling.
- Performed CCTV assessment for 2024 Sanitary Sewer Improvement Project.

Environmental Compliance

- CRW's Environmental Compliance Inspector (ECI) resigned his position to take another
 opportunity with the AWTF Facility Operations group. Much of the month was spent training
 other Wastewater managers on interim duties while CRW searches for a new ECI.
- There were no Illicit discharges in the month of August.

Street Sweeping

- Recieved three (3) complaints in the month of August 2023. All complaints were addressed.
- Replaced the Beacon Light Bars on Sweepers SW-1 and SW-3.



AWTF Monthly Report

August 2023

- Replaced the main battery on Sweeper SW-3.
- Only completed morning routes on September 9, 2023, due to weather conditions.
- Completed 851.67 miles of Schedule Street Sweeping within the City of Harrisburg.
- Water usage was approximately 12,100 gallons.
- Continued to assist with the cleaning of storm inlets in scheduled sweeping area.
- Participated in Green Stormwater Infrastructure meetings.
- Started training for interim duties for Fats, Oils, and Grease program due to the resignation of the Environmental Compliance Inspector.
- When the days of the month fall on a 5th week there is no schedule sweeping. The Sweeping group will be assigned specific assignments throughout the City to continue the upkeep in high visible areas. At the end of August, there were three (3) days with a total of 106 miles swept (included with total miles.)



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	Novembe	Decembe	er Average	NPDES Limits
olume, MGD	22.0		19.3	19.1	20.3	16.2	21.0	16.0					18.8	37.
nume, wob	22.0	10.0	19.5	19.1	20.5	10.2	21.0	10.0					10.0	37.
rbonaceous Biochemical Oxyge														
Influent, mg/L	97		114	198	165	193	145	161					152	
Effluent, mg/L	4		4	4	3	3	3	3					3	2
Percent Removal, %	95.6		96.7	98.3	98.1	98.2	97.7	98.2					97.5	
Effluent Loading, lb/d	681	469	596	821	507	470	582	393					565	7,86
spended Solids:				•										
Influent, mg/L	156	222	173	187	175	212	168	185					185	
Effluent, mg/L	8	3	3	4	4	6	4	4					5	3
Percent Removal, %	95.0	98.5	98.1	96.6	97.5	96.8	97.2	97.6					97.2	
Effluent Loading, lb/d	1,447	412	582	1,043	660	954	827	588					814	9,43
trogen														
Гotal-N														
Influent, mg/L	26	33	26	30	26	30	23	24					27	
Effluent, mg/L	5.0	4.0	5.7	4.3	3.7	5.2	4.5	3.1					4	Monite
Percent Removal, %	80.5	87.9	78	85.6	85.5	82.8	80.3	80.3					82.7	
Effluent Loading, lb/d	993	548	846	652	861	717	748	425					724	
NH3-N														
Influent mg/L	17	21	17	16	13	15	12	14					16	
Effluent, mg/L	1.9	1.2	1.4	1.6	0.4	1.1	0.5	0.9					1	1
Percent Removal, %	88.5	94.3	91.8	89.7	97.0	92.6	95.9	93.8					92.9	
Effluent Loading, lb/d	359	168	248	258	74	150	86	118					183	4,71
osphorus:														
Influent, mg/L	2.9	4.2	3.5	3.8	3.5	4.0	3.1	3.6					3.6	
Effluent, mg/L	0.8	1.6	1.2	1.6	1.4	1.6	1.7	1.6					1.4	2
Percent Removal, %	70.3	61.3	64.4	55.6	59.0	58.1	43.5	52.8					58.1	
Effluent Loading, lb/d	152	222	194	237	215	223	301	220					221	62
:														
Influent, Std. Units	7.4	7.3	7.3	7.3	7.4	7.4	7.4	6.8					7.3	
Effluent, Std. Units	7.4	7.4	7.4	7.4	7.5	7.5	7.4	7.6					7.5	6.0 - 9
solved Oxygen:														
Effluent Minimum, mg/L	8.0	8.8	7.8	8.3	7.6	6.5	6.1	7.2					7.5	5.0 Mi
al Coliform:														
Effluent, No./100 ml	25	3	5	3	2	2	4	7					6	200/100 n
lorine Residual:														
Effluent, mg/L	0.22	0.18	0.20	0.22	0.43	0.44	0.45	0.37					0.31	0.

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

PROCESS2032-A

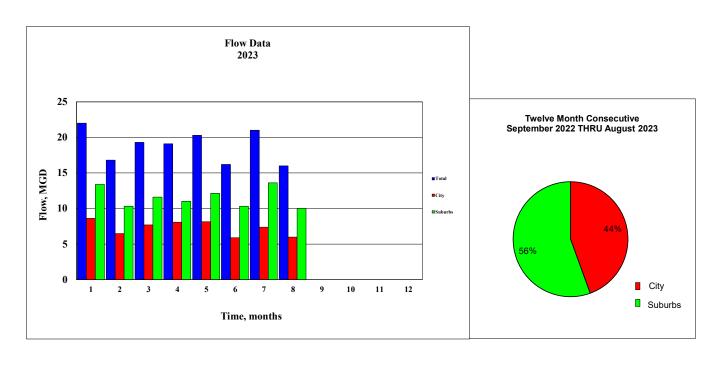
⁽²⁾ Seasonal Limit May 1 to Nov.1.

EXHIBIT B

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Flow Monitoring Information, MGD - 2023

														Total
	Total				C	ity Region	S			Su	burb Regi	ons		Precip
Month	Flow	City	Suburbs	1	2	3	4	5	6	7	8	9	10	inches
January	22.000	8.622	13.378	8.110	0.192	0.300	-0.160	0.180	1.400	5.280	2.208	4.060	0.430	2.450
February	16.800	6.480	10.320	5.480	0.150	0.300	0.410	0.140	1.200	3.950	1.720	3.100	0.350	1.010
March	19.300	7.696	11.604	6.670	0.176	0.300	0.390	0.160	1.300	4.250	2.024	3.670	0.360	2.560
April	19.100	8.076	11.024	7.140	0.166	0.300	0.270	0.200	1.300	4.130	1.914	3.320	0.360	5.890
May	20.300	8.151	12.149	6.780	0.191	0.300	0.600	0.280	1.500	4.320	2.199	3.730	0.400	0.200
June	16.200	5.883	10.317	5.130	0.173	0.300	0.130	0.150	1.300	3.820	1.987	2.900	0.310	4.250
July	21.000	7.382	13.618	6.740	0.212	0.300	(0.060)	0.190	1.400	4.770	2.438	3.970	1.040	6.380
August September October November December	16.000	5.979	10.021	5.120	0.139	0.300	0.280	0.140	1.300	3.680	1.601	3.080	0.360	2.230
Average Percent	18.84 100.00	7.28 38.67	11.55 61.33											3.12 24.97



FLOW2023 No Zeros-B



EXHIBIT C

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Treatment Utility and Chemical Usage - 2023

Utility / Chemical	January	February	March	April	May	June	July	August	September	October	November December	Average	Total
Electric													
Total, kwH	1,158,900	1,028,400	1,033,800	1,089,000	994,800	977,100	1,103,700	1,016,400				1,050,263	8,402,10
Average, kwH/Day	37,384	36,729	33,348	36,300	32,090	32,570	35,603	32,787				34,601	
Cost, Dollars	\$98,628.52	\$60,520.22	\$60,192.18	\$63,307.22	\$59,395.55	\$58,647.46	\$65,379.99	\$59,269.04				\$65,667.52	\$525,340.1
latural Gas													
Total, Cu Ft	621.9	554.8	287.6	27.4	0.8	0.6	0.1	*				187	1,493
Average, Cu Ft/Day	20	20	9	1	0	0	0	*				7	
Cost, Dollars	\$6,237.14	\$5,423.45	\$3,026.40	\$377.30	\$147.32	\$147.14	\$142.69	*				\$1,937.68	\$15,501.44
Water													
Total, Gal.	1,187,000	1,298,000	928,000	977,000	932,000	1,218,000	1,020,000	*				1,080,000	7,560,000
Average, Gal./Day	38,290	46,357	29,935	32,567	30,065	40,600	32,903	*				35,817	7,360,000
Cost, Dollars	\$15,616.58	\$16,764.32	\$12,938.52		\$12,979.88		\$13,889.80	*				,	\$101,571.40
	1 10,010.00	, , , , , , , , ,	,	, , , , , , , , , , , , , , , , , , , ,	,	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,					1 - 2,000 01 10	, , , , , , , , , , , , , , , , , , , ,
MicroC													
Total, Gal.	0	0	0	0	258	0	0	0				32	258
Average, Gal./Day	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0				1	
Cost, Dollars	\$0	\$0.00	\$0	\$0	\$1,029	\$0	\$0	\$0				\$128.68	\$1,029.42
odium Hydroxide													_
Total, Gal.	0	0	0	0	0	0	0	0				0	0
Average, Gal./Day Cost, Dollars	0	0	0	0	0	0	0	0				0	±0.00
Cost, Dollars	U	U	U	U	0	U	U	U				\$0.00	\$0.00
Chlorine Disinfection													
Total, Lbs.	13,115	5,973	6,830	5,240	10,940	8,630	11,170	8,309				8,776	70,207
Average, Lbs./Day	423	223	220	175	353	288	360	268				289	
Avg Residual, mg/L	0.22	0.18	0.20	0.22	0.43	0.44	0.45	0.39				0.32	
Cost, \$/Lbs.	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64				\$1.64	*445.430.40
Total Cost, Dollars	\$21,508.60	\$9,795.72	\$11,201.20	\$8,593.60	\$17,941.60	\$14,153.20	\$18,318.80	\$13,626.76				\$14,392.44	\$115,139.48
Phosphorous Removal													
Total FeCl3, Gals.	3,113	2,950	3,113	3,589	4,429	3,156	4,231	4,997				3,697	29,578
Avg FeCl3, Gals./Day	100	105	100	120	143	105	136	161				121	
FeCl3 Cost, \$/Gal.	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74				\$1.74	¢51.466.03
FeCl3 Total Cost, Dollars	\$5,416.97	\$5,133.00	\$5,416.62	\$6,244.86	\$7,706.46	\$5,491.44	\$7,361.94	\$8,694.78				\$6,433.26	\$51,466.07

^{*} No data at time of report

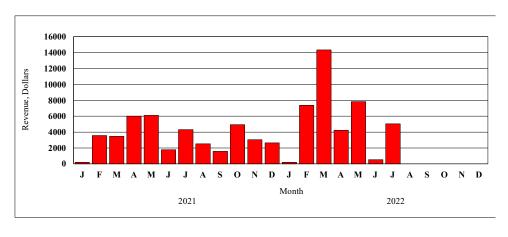


EXHIBIT D

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	75	3,135	97,200	\$14,337.97
April 2023	25	960	28,800	\$4,248.29
May 2023	38	1,713	53,100	\$7,832.78
June 2023	5	120	3,600	\$531.04
July 2023	32	1,103	34,200	\$5,044.84
August 2023	0	0	0	\$0.00
September 2023				
October 2023				
November 2023				
December 202				
-				
Total - 2023			281,700	\$39,573.28
Monthly Average - 2023	29	1,167	35,213	\$4,946.66



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	1,557,518	1,554,485	1,206,679	964,105	1,146,178	786,642			1,101,359	8,810,869
CWH Program, Lbs.	196,727	230,186	125,669	137,543	502,270	446,289	315,199	412,091			295,747	2,365,974
Total Solids, Lbs.	901,546	1,120,629	1,683,187	1,692,028	1,708,949	1,410,394	1,461,377	1,198,733			1,397,105	11,176,843
Sludge Dewatering												
Feed Volume, Gals.	5,489,000	4,398,000	3,878,000	5,322,000	4,268,000	5,185,000	4,945,000	5,373,000			4,857,250	38,858,000
Feed Solids, %	1.5	1.5	1.5	1.4	1.5	1.4	1.5	1.8			1.5	-
Labor, Hours	635	519	531	651	691	671	1104	1130			741	5,932
Operations, Hours	1,181	977	1,014	672	691	671	688	602			812	6,496
Total Cake, Dry Tons	208	168	162	181	197	228	238	213			199	1,595
Total Cake, Wet Tons	1,264	1,089	1,040	1,164	1,223	1,421	1,485	1,267			1,244	9,953
Cake TS, %	16.5	15.9	15.6	15.6	16.1	16.1	16.0	16.9			16.1	-
Press Rate, Lbs./Hour	2,140	2,228	2,052	3,465	3,539	4,237	4,316	4,212			3,274	26,190
Polymer Dosage, Lbs	4,299	4,556	4,533	5,031	5,765	7,226	5,208	3,947			5,071	40,565
Polymer Dosage, Lbs/Dry Ton	20.7	27.1	28.0	27.8	29.3	31.7	21.9	18.5			25.6	-
Disposal Cost												
Labor, Dollars	\$12,208.54	\$9,982.89	\$10,200.05	\$12,502.61	\$13,282.94	\$12,890.85	\$21,224.65	\$21,712.83			\$14,250.67	\$114,005.37
Electrical,Dollars	\$519.82	\$430.06	\$445.98	\$295.64	\$304.08	\$295.11	\$302.76	\$264.70			\$357.27	\$2,858.15
Polymer, Dollars	\$8,383.05	\$8,885.16	\$8,839.35	\$9,810.45	\$11,241.75	\$14,090.70	\$10,155.60	\$7,696.65			\$9,887.84	\$79,102.71
Disposal, Dollars	\$47,358.20	\$52,886.50	\$47,998.60	\$25,793.27	\$70,097.60	\$60,858.30	\$143,251.00	\$52,571.30			\$62,601.85	\$500,814.77
Total Cost, Dollars	\$68,469.61	\$72,184.61	\$67,483.99	\$48,401.97	\$94,926.38	\$88,134.96	\$174,934.01	\$82,245.49			\$87,097.63	\$696,781.01
Cost Per Dry Ton, Dollars	\$329.18	\$429.67	\$416.57	\$267.41	\$481.86	\$386.56	\$735.02	\$386.13			\$429.05	

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	December	Average	Total
Front Street Pump Station														
Electric														
Total, kwH	153,600	97,200	78,000	61,200	96,000	54,000	76,800	68,400					85,650	685,200
Average, kwH/Day	4,955	3,471	2,516	2,040	3,097	1,800	2,477	2,206					2,820	
Cost, Dollars	#######	\$6,179.35	\$5,794.20	\$4,760.30	\$6,808.76	\$5,640.08	\$6,454.65	\$6,101.73					\$6,488.87	\$51,910.94
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0					0	0
Average, Gals./Day	0	0	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					0	\$0.00
Water														
Total, Gals.	284,000	318,000	276,000	291,000	326,000	355,000	336,000	*					312,286	2,186,000
Average, Gal./Day	9,161	11,357	8,903	9,700	10,516	11,833	10,839	*					10,330	
Cost, Dollars	\$3,633.08	\$3,984.64	\$3,550.36	\$3,705.46	\$4,067.36	\$4,367.22	\$4,170.76	*						\$27,478.88
Spring Creek Pump Station														
Electric														
Total, kwH	38,400	50,240	40,640	38,400	56,320	49,600	54,080	48,320					47,000	376,000
Average, kwH/Day	1,239	1,794	1,311	1,280	1,817	1,653	1,745	1,559					1,550	
Cost, Dollars	\$1,274.90	\$3,346.91	\$3,295.83	\$3,158.30	\$4,604.53	\$3,047.64	\$4,356.37	\$3,775.67					\$3,357.52	\$26,860.15
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0					0	0
Average, Gals./Day	0	0	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					\$0.00	\$0.00
Water														
Total, Gals.	90,000	104,000	86,000	105,000	118,000	137,000	141,000	*					111,571	781,000
Average, Gal./Day	2,903	3,714	2,774	3,500	3,806	4,567	4,548	*					3,688	
Cost, Dollars	\$1,006.59	\$1,151.35	\$965.23	\$1,161.69	\$1,296.11	\$1,492.57	\$1,533.93	*					\$1,229.64	\$8,607.47
Market Street Pump Station														
Electric														
Total, kwH	1,320	1,200	1,200	960	1,080	720	840	840					1,020	8,160
Average, kwH/Day	43	43	39	32	35	24	27	27					34	
Cost,Dollars	\$151.91	\$153.90	\$174.52	\$157.79	\$253.89	\$207.36	\$208.98	\$185.03					\$186.67	\$1,493.38
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0					0	0
Average, Gals./Day	0	0	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					\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kwH	40	40	40	40	40	40	0	40					35	280
Average, kwH/Day	1	1	1	1	1	1	0	1					1	
Cost, Dollars	\$42.43	\$62.63	\$64.36	\$64.11	\$64.27	\$83.86	\$62.57	\$64.16					\$63.55	\$508.39

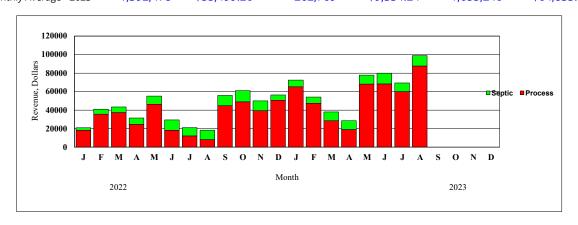


EXHIBIT G

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Contract Waste Hauling Program 2022 - 2023

	Proc	ess	Sept	tic	Tot	al
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	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	352,570	\$12,137.31	252,900	\$8,969.40	605,470	\$21,106.71
August	248,100	\$8,169.21	287,600	\$10,209.60	535,610	\$18,378.81
September	1,589,990	\$44,824.05	311,600	\$11,046.60	1,901,590	\$55,870.65
October	1,738,680	\$48,922.56	342,650	\$12,173.40	2,081,330	\$61,095.96
November	1,412,550	\$39,494.61	293,700	\$10,537.20	1,706,250	\$50,031.81
December	1,776,820	\$50,682.24	158,050	\$5,586.30	1,934,870	\$56,268.54
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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	2,332,260	\$65,162.88	208,150	\$7,173.90	2,540,410	\$72,336.78
February	1,424,370	\$47,326.95	191,150	\$6,694.20	1,615,520	\$54,021.15
March	944,920	\$28,533.96	265,650	\$9,491.40	1,210,570	\$38,025.36
April	579,580	\$19,060.38	265,600	\$9,473.40	845,180	\$28,533.78
May	1,273,220	\$68,101.35	267,600	\$9,588.60	1,540,820	\$77,689.95
June	1,329,280	\$68,218.26	326,700	\$11,626.20	1,655,980	\$79,844.46
July	1,372,660	\$59,957.87	262,650	\$9,411.30	1,635,310	\$69,369.17
August	1,883,530	\$87,631.96	314,650	\$11,214.90	2,198,180	\$98,846.86
September		•	•	•		•
October						
November						
December						
_						
Total - 2023	11,139,820	\$443,993.61	2,102,150	\$74,673.90	13,241,970	\$518,667.51
Monthly Average - 2023	1,392,478	\$55,499.20	262,769	\$9,334.24	1,655,246	\$64,833.44



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