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 Drinking Water	Provided separately to Board of Directors.
Capital Improvement Projects for Wastewater	Provided separately to Board of Directors.
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 Infrastructure, Community, and Receiving Waters	
Negotiate with PADEP/U.S. EPA/DOJ on Past and Future Practices	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.
Develop Necessary Planning for Implementation of Green Infrastructure	No update.
Joint Pollutant Reduction Plan - Collaborate with Suburban Partners on MS4	No update.
Obtain and Comply with Individual MS4 Permit	No update.

Operate Facilities with a High Standard of Care	
Permit Compliance	The Drinking Water department met all primary and secondary Safe Drinking Water Act permit parameters for the month.
	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.

CCTV	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.
Geographic Information System (GIS)	• 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. • 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	[redacted]
Asset Management	**Phase 1, year 2 active tasks per the assigned Asset Management Roadmap Implementation Groups (RIG):** **<u>Decision Making Capital Planning RIG</u>** • 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). **<u>Information System Data Management RIG</u>** • Future Commissioning and Decommissioning asset workflows are under review to align with recently completed Design Requirements. **<u>Operations & Maintenance RIG</u>** • 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. **<u>Organizational Framework RIG</u>** • 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.
Development Review Summary	For details, see attached Development Stormwater Management Review Summary spreadsheet for March.

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:** • 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 [redacted] • Cameron Street Water Main Improvements Project Phase 4 – Recommendation of Award [redacted] **Wastewater:** • Basic Ordering Agreement and Task Order 2023-08-01: Engineering Services for CBH2OPP Water Quality Services [redacted] **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 Improvements	The contractors are addressing punch list items and site cleanup. Final change orders are expected for the April Board meeting.
WSC Flocculator Equipment Replacement	A substantial completion inspection was held on 3/2/2023. The contractors are addressing punch list items.

Undertake Renewal and Replacement Projects	
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 (Excavation)	The contractor continues construction with inlet replacement along 15th Street.
2023 Sewer System Improvements (Trenchless)	The contractor continues to provide submittals for approval before physical construction can begin.
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 - Phase 2	The bypass pipe is installed and in service. The contractor plans to begin cured in place piping (CIPP) lining activities on 4/3/2023.
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.

Operate as an Efficient, Sustainable and Resilient 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. Annual forest management planning meeting was held 2/21/2023.
Sustainability	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 Media	**PRESS RELEASES:** 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 nineteen (219) customers. Included eleven (11) project notfications, 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.

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)	[redacted]

Office Management and Admin Professional Services and Construction	**Incoming Correspondence Report:** Refer to attached Incoming Correspondence Report for February 2023. **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:** **<u>Drinking Water</u>:** • C-99 - 2023 Ford F-250 Super Duty Truck [redacted] • C-102 - 2023 Ford Escape SE AWD [redacted] • C-103 - 2023 Ford Transit Connect XL Van [redacted] • C-104 - 2023 Ford Escape SE AWD [redacted] • C-105 - 2023 Ford F-150 XL 4X4 SuperCab with Upfit [redacted] • C-106 - 2023 Ford F-150 XL 4X4 SuperCab with upfit [redacted] **<u>Wastewater</u>**: • G-90 - 2023 Ford F-350 Turbo Diesel 4X4 Truck [redacted] • G-91 - 2023 Ford F-250 Regular Cab Truck [redacted] • G-93 - 2023 ProMaster High Roof CCTV Van [redacted] • G-94 - 2023 Ford F-150 XL 4X4 Pickup Truck [redacted]
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. [redacted]

CAPITAL REGION™

WATER

Reconciled Bank Account Balances

CAPITAL REGION WATER

Reconciled Bank Account Balances

02/28/2023

Unrestricted Cash Accounts	Balance	APY	Bank	
ADMIN				
Business Checking-6908	$ 66,427.83	0.65%	First National Bank	
Money Market-Admin-0621	$ 100,378.55	3.81%	First National Bank	
FNB Lockbox-6393	$ 58,788.16	0.0000%	First National Bank	
General Account-7892	$ 745,698.49	0.00%	First National Bank	
Project Fund-6990	$ 438,226.98	3.61%	First National Bank	
WATER				
Water Revenue Fund-6833	$ 735,896.05	0.00%	First National Bank	Earnings Generated offset fees for Services
Money Market-Water-0639	$ 5,689,727.94	3.59%	First National Bank	
Water 2022 Pennvest-1878	$ 7,790.04	0.00%	First National Bank	
SEWER				
Sewer Revenue Account-5819	$ 515,099.53	0.00%	First National Bank	Earnings Generated offset fees for Services
Money Market-Sewer-0589	$ 6,728,928.04	3.60%	First National Bank	
Sewer 2021 Pennvest-5846	$ 2,828.45	0.00%	First National Bank	
Sewer Pennvest-3642	$ 42,448.89	0.00%	First National Bank	
Sewer 2022 Pennvest-6430	$ -	0.00%	First National Bank	
STORMWATER				
Stormwater Revenue Account-8814	$ 347,069.12	0.00%	First National Bank	Earnings Generated offset fees for Services
Stormwater Money Market-4633	$ 1,717,204.68	3.62%	First National Bank	
Stormwater Pennvest-0241	$ 22,995.80	0.00%	First National Bank	

Restricted Cash Accounts	Balance	APY	Bank	
WATER				
Water Operation Reserve Account-6841	$ 1,731,368.69	3.61%	First National Bank	
Water Contingency Account-6866	$ 1,456,606.54	3.61%	First National Bank	
Water Contingency Subaccount -0328	$ 1,894,007.83	3.61%	First National Bank	
Water 2016A Debt Service Reserve-517295	$ 5,992,514.64	4.4100%	Bank of New York	
Water 2016A Debt Service Fund-517296	$ 3,994,954.57	4.4100%	Bank of New York	
Water 2018 Debt Service Reserve-763549	$ 4,327,017.88	4.4100%	Bank of New York	
Water 2018 Debt Service Fund-763548	$ 252,329.99	4.4100%	Bank of New York	
Water 2018 Bond-Construction-763594	$ 4.93	4.4600%	Bank of New York	
SEWER				
Wastewater 2017 Debt Service Reserve-721503	$ 2,972,063.61	4.41%	Bank of New York	
Wastewater 2017 Debt Service Fund-721387	$ 678,549.59	4.41%	Bank of New York	

Investment Accounts	Balance	APY	Bank	
ADMIN				
Certificate of Deposit – Nat'l Civil War Museum	$ 250,000.00	0.1499%	First National Bank	Restricted $250,000 min/$500,000 max
WATER				
PLGIT Investment Mar 2023	$ 500,000.00	3.4800%	PLGIT	$500,000 increment
PLGIT Investment May 2023	$ 500,000.00	4.1300%	PLGIT	
PLGIT Investment June 2023	$ 500,000.00	4.6400%	PLGIT	
PLGIT Investment June 2023	$ 500,000.00	5.0400%	PLGIT	
PLGIT Investment Sept 2023	$ 500,000.00	5.0400%	PLGIT	
PLGIT Investment Oct 2023	$ 500,000.00	5.3900%	PLGIT	
PLGIT Investment Nov 2023	$ 500,000.00	5.2500%	PLGIT	
PLGIT Investment Dec 2023	$ 500,000.00	5.1400%	PLGIT	
PLGIT Investment Feb 2024	$ 500,000.00	4.9800%	PLGIT	
Water CD Mar 2023-2597	$ 1,000,000.00	3.338%	First National Bank	
Water CD Apr 2023-2600	$ 1,000,000.00	3.4355%	First National Bank	
Water CD July 2023	$ 500,000.00	5.2900%	First National Bank	
Water CD Aug 2023-0604	$ 500,000.00	5.340%	First National Bank	
Water CD Sept 2023-0619	$ 1,000,000.00	5.000%	First National Bank	
Water CD Oct 2023	$ 500,000.00	5.0400%	First National Bank	
Water CD Nov 2023	$ 500,000.00	5.0400%	First National Bank	
Water CD Feb 2024	$ 1,000,000.00	5.0000%	First National Bank	
SEWER				
Plgit Investment	$ 500,000.00	4.690%	PLGIT	
Sewer CD May 2023	$ 500,000.00	5.19000%	First National Bank	
Sewer CD July 2023	$ 500,000.00	5.0400%	First National Bank	
Sewer CD Nov 2023	$ 500,000.00	5.0000%	First National Bank	
STORMWATER				
Stormwater CD July 2023	$ 500,000.00	5.040%	First National Bank	
Stormwater CD July 2023	$ 500,000.00	5.040%	First National Bank	

CAPITAL REGION™

WATER

Grant Management Report

CAPITAL REGION WATER

Grant Management Report
February 2023

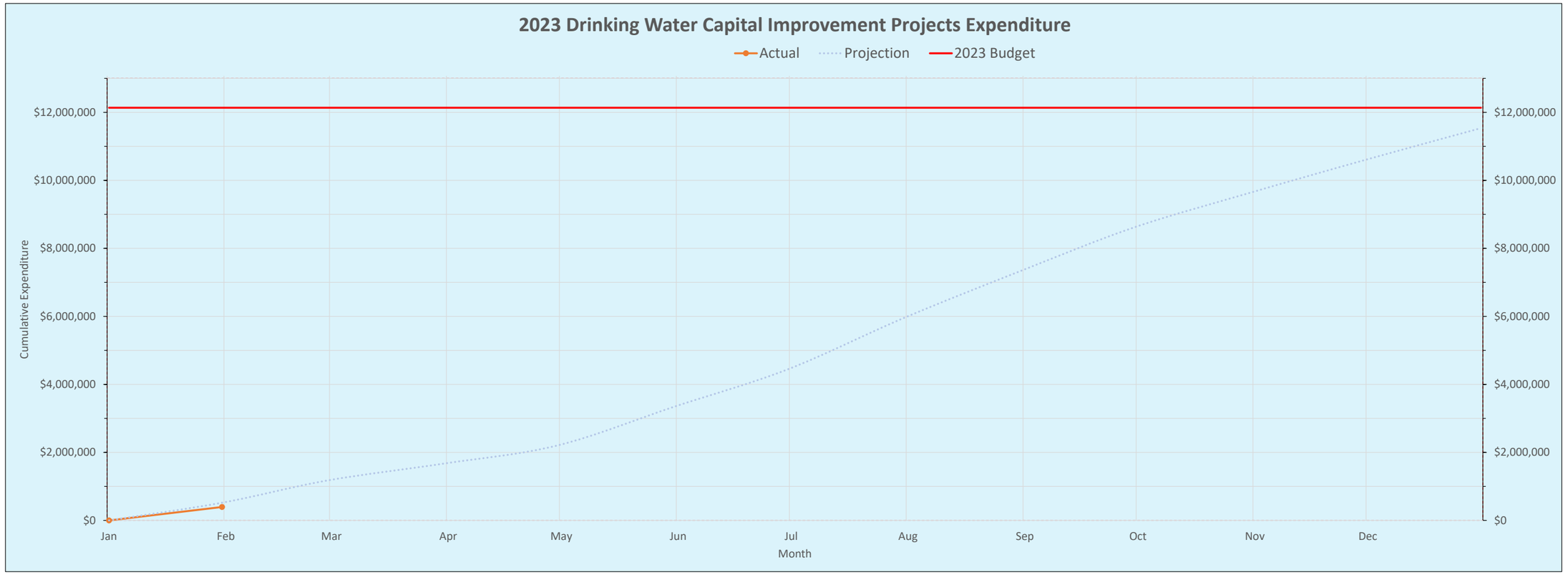
GRANT OVERVIEW											
Funding	**Program**	**Project**	**Proposal Due Date**	**Anticipated Announcement Date**	**Date of Notification**	**Request Amount**	**Request Type (Cash vs. Loan)**	**CRW Matching Amount**	**$$$ Awarded**	**Loan Disbursed**	**Rationale/Notes**
Capital Region Water's Pending Grant & Loan Applications											
FY23 Community Project Funding Appropriations Request	Green Stormwater Infrastructure	Riverfront Park Green Infrastrusture Project	4/25/2022	TBD	TBD	$2,000,000	Cash	$600,000	TBD	$0	
Department of Community and Economit Development	COVID-19 ARPA H2O PA - Small Water Supply, Sanitary Sewer and Storm Water Projects	Paxton Creek Interceptor Site Preparation Project	12/21/2022	Mid to late 2023	TBD	$10,500,000	Cash	$5,275,105	TBD	$0	
National Fish and Wildlife Foundation	Chesapeake Bay Innovative Nutrient and Sediment Reduction Grant	Enhancing Community Connections Through Clean Water Project	11/17/2022	3/1/2023	TBD	$1,000,000	Cash	$300,000	TBD	$0	
Susquehanna River Basin Commission (SRBC)	2023 Comsuptive Use Mitigation Grant Program	Advanced Metering Infrastructure Upgrade Project	1/31/2023	April 2023	TBD	$250,000	Cash	$2,070,000	TBD	$0	
		SUB TOTALS				**$13,750,000**		**$8,245,105**		**$0**	
Capital Region Water's Awarded Grant, Loan and Bond Proceeds											
PENNVEST	Infrastructure (Projects)	ProFi Wastewater Infrastructure Loan	COMPLETED	10/21/2020	10/21/2020	$65,000,000	Loan	$1,000,000	$65,000,000	$0	Phase 1 settlement occurred on 7/7/2022 $1,283,951 submitted for reimbursement on 3/13/23
PENNVEST	Infrastructure (Projects)	ProFi Wastewater Collection System Rehab Loan	COMPLETED	9/2/2021	9/2/2021	$21,000,000	Loan	$500,000	$21,000,000	$3,292,257	Final submission for R-III contract submitted on 9/28/2022 and disbursed on 10/17/2022
PENNVEST	Infrastructure (Projects)	ProFi Green Infrastructure PENNVEST Loan	COMPLETED	10/16/2019	10/16/2019	$13,000,000	Loan	$0	$13,000,000	$3,256,611	Phase 4 closed on 2/7/2023 for $5,199,249
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
Impact Harrisburg (IH)	Local Stormwater	Project with City of Harrisburg Parks & Rec.	COMPLETED	11/16/2017	11/16/2017	$250,000	Cash	$200,000	$250,000	$177,030	Project complete and all funding as it relates to the IH, COH, and CRW Parks Project received
PENNVEST	Infrastructure (Projects)	ProFi Drinking Water System Improvements	COMPLETED	4/20/2022	4/20/2022	$41,622,000	Loan	$0	$41,622,000	$425,855	Approximately $204,000 to be submitted for reimbursement prior to 3/31/23
FEMA	Coronavirus (COVID-19) Pandemic: Safe Opening and Operation Work Eligible for Public Assistance	FEMA COVID Relief	COMPLETED	7/13/2021	7/13/2021	$103,258	Cash	$0	$103,258	$92,933	Awarded on 2/7/2022
		SUB TOTALS				**$152,112,158**		**$1,700,000**	**$110,386,900**	**$17,824,742**	
Capital Region Water's Not Awarded Grants & Loans											
Susquehanna River Basin Commission (SRBC)	2022 Comsuptive Use Mitigation Grant Program	Paxton Creek Restoration Planning Project	1/28/2022	3/31/2022	3/31/2022	$0	Cash	$0	$0	$0	Notified on 3/31/2022 that CRW was not selected for grant funding
		SUB TOTALS				**$0**		**$0**	**$0**	**$0**	

CAPITAL REGION™

WATER

2022 and 2023 Capital Improvement Projects Report

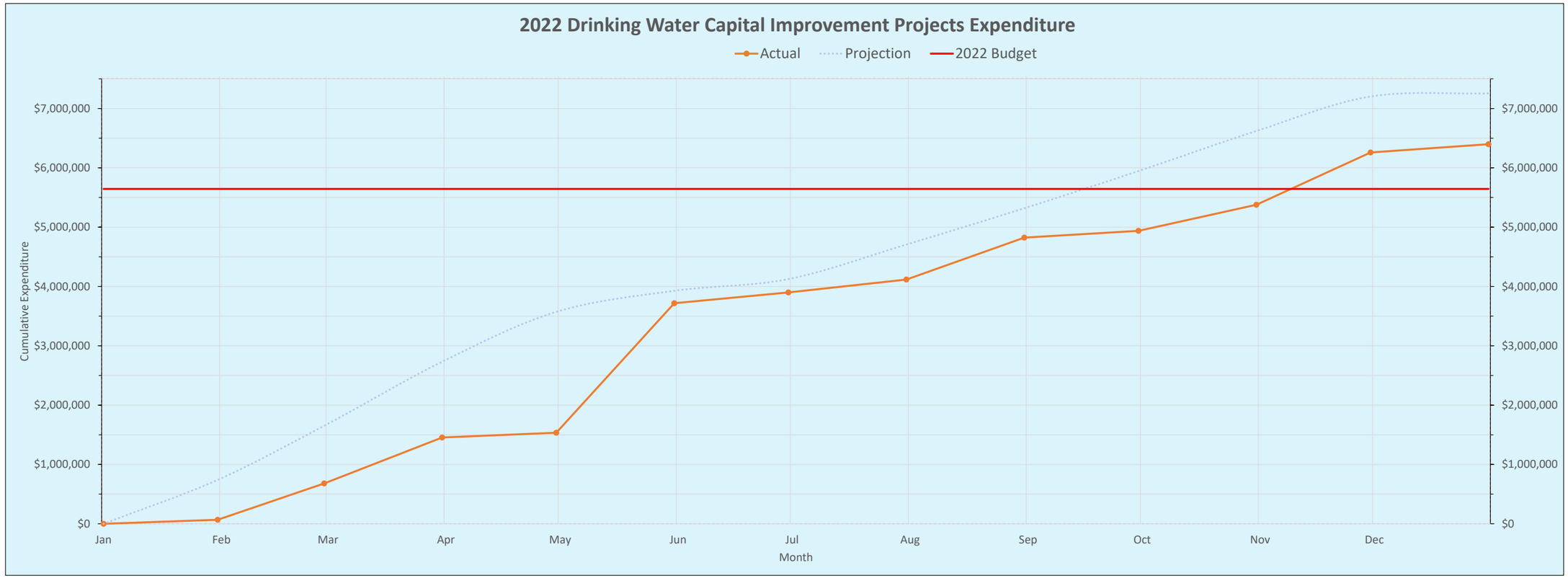
Drinking Water Capital Improvement Projects Report



ACTUAL EXPENDITURE (from Finance)

MUNIS Project Code	Description	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Actual Expenditure YTD	% Budget Expended	2023 Budget
60800801-80100-00006	Mountain Line Repairs	STUDY	$ 5,159												$ 5,159	6%	$ 82,500
60800801-80100-00015	Water Main Replacement	CONSTRUCTION	$ 17,020												$ 17,020		$ -
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	$ 266,133												$ 266,133	9%	$ 2,843,662
60800801-80100-00228	Cameron St. Water Main Improve (PV)	DESIGN	$ 30,741												$ 30,741	0%	$ 6,348,000
60800801-80100-00229	Water Meter Network Conversion (PV)	DESIGN	$ 4,765												$ 4,765	0%	$ 1,650,000
60800801-80100-00230	DeHart Dam Improvements PV	DESIGN	$ 70,996												$ 70,996	16%	$ 445,000
60800801-80300-00303	Flocculation Equipment Upgrade	CONSTRUCTION	$ -												$ -	0%	$ 641,859
		Actual Monthly Expenditure	**$ 394,813**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 394,813**	3.3%	**$ 12,135,521**
		Actual CUMULATIVE Expenditure	**$ 394,813**														

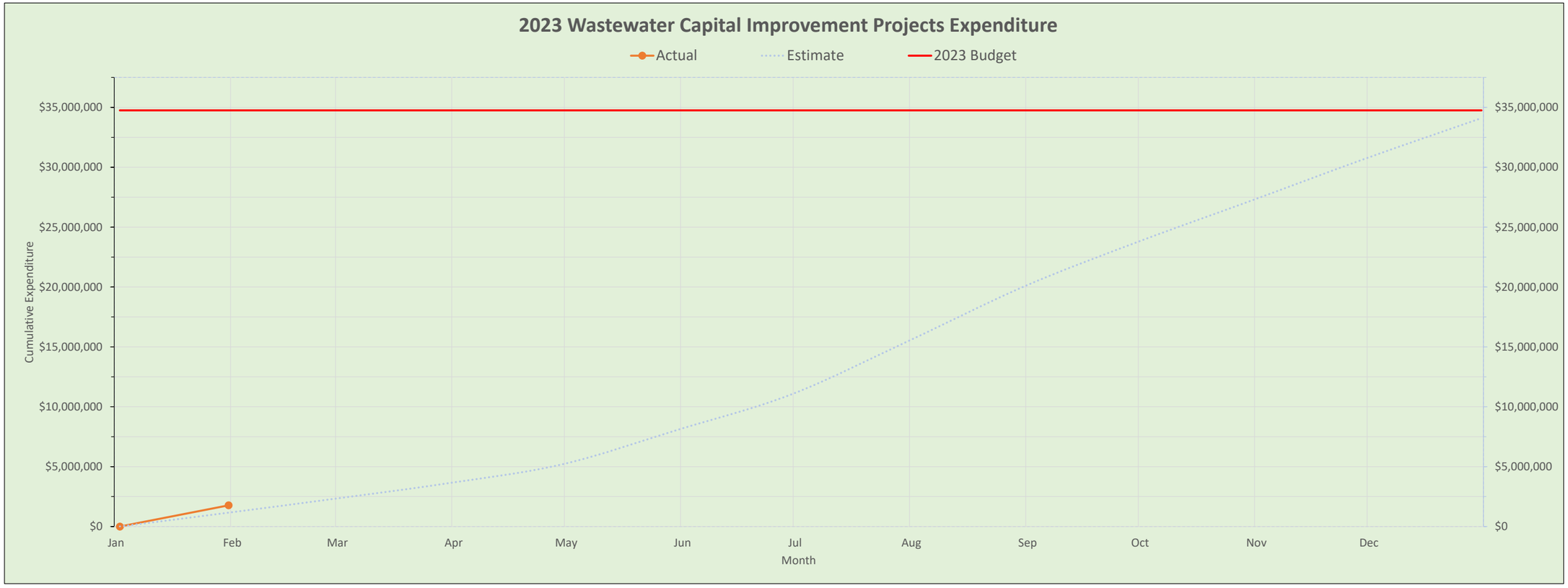
Drinking Water Capital Improvement Projects Report



ACTUAL EXPENDITURE (from Finance)

MUNIS Project Code	Description	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Actual Expenditure YTD	% Budget Expended	2022 Budget
60800801-80100-00006	Mountain Line Repairs	STUDY	$ -	$ -	$ -	$ 1,803	$ -	$ -	$ -	$ 311	$ 2,467	$ -	$ 378	$ 15,187	$ 20,146	12%	165,000
60800801-80100-00015	Water Main Replacement	CONSTRUCTION	$ 37,834	$ 156,621	$ 655,552	$ 55,274	$ 422,516	$ 131,702	$ 97,684	$ 26,619	$ 86,491	$ 10,227	$ 782,045	$ 21,413	$ 2,850,505	104%	2,750,000
60800801-80100-00226	2022 Water System Improvement (PV)	CONSTRUCTION	$ -	$ -	$ -	$ -	$ -	$ -	$ 67,441	$ 4,295	$ -	$ 268,720	$ 18,895	$ 7,177			
60800801-80100-00016	Water Main Condition Assessment	CONSTRUCTION	$ -	$ 9,285	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 67,839	$ 29,074	$ -	$ 106,198	106%	100,000
60800801-80100-00050	DeHart Spillway Improvements	DESIGN	$ -	$ 42,934	$ 37,445	$ 60	$ 26,602	$ -	$ -	$ -	$ -	$ 52,522	$ 51,010	$ -	$ 210,573	34%	626,000
60800801-80100-00081	Cameron Street Water Main	CONSTRUCTION	$ 29,706	$ 404,529	$ 81,189	$ 23,405	$ 1,733,703	$ 48,775	$ -	$ 676,455	$ -	$ -	$ -	$ -	$ 3,164,289	173%	1,824,000
60800801-80100-00228	Cameron St. Water Main Improve (PV)	DESIGN	$ -	$ -	$ -	$ -	$ -	$ -	$ 51,918	$ -	$ 25,220	$ 39,426	$ -	$ 49,963			
60800801-80100-00105	Automatic Meter Reading Tower	STUDY	$ -	$ -	$ -	$ -	$ -	-	$ -	$ -	$ -	$ 540	$ -	$ 10,668	$ 11,208	22%	50,000
60800801-80100-00118	Wtr PennDOT I-83 Expansion	DESIGN	$ -	$ -	$ -	$ -	$ -	-	$ -	$ -	$ -	$ -	$ -	$ 35,410	$ 35,410	30%	119,000
60800801-80100-00122	Wtr Soda Ash Conversion	CONSTRUCTION	$ -	$ -	$ -	$ -	$ -	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0%	10,000
	Actual Monthly Expenditure		**$ 67,540**	**$ 613,369**	**$ 774,187**	**$ 80,541**	**$ 2,182,822**	**$ 180,477**	**$ 217,043**	**$ 707,680**	**$ 114,178**	**$ 439,273**	**$ 881,402**	**$ 139,817**	**$ 6,398,329**	**113.4%**	**5,644,000**
	Actual CUMULATIVE Expenditure		**$ 67,540**	**$ 680,909**	**$ 1,455,096**	**$ 1,535,637**	**$ 3,718,459**	**$ 3,898,936**	**$ 4,115,979**	**$ 4,823,659**	**$ 4,937,837**	**$ 5,377,110**	**$ 6,258,512**	**$ 6,398,329**			

Wastewater Capital Improvement Projects Report



ACTUAL EXPENDITURE (from Finance)

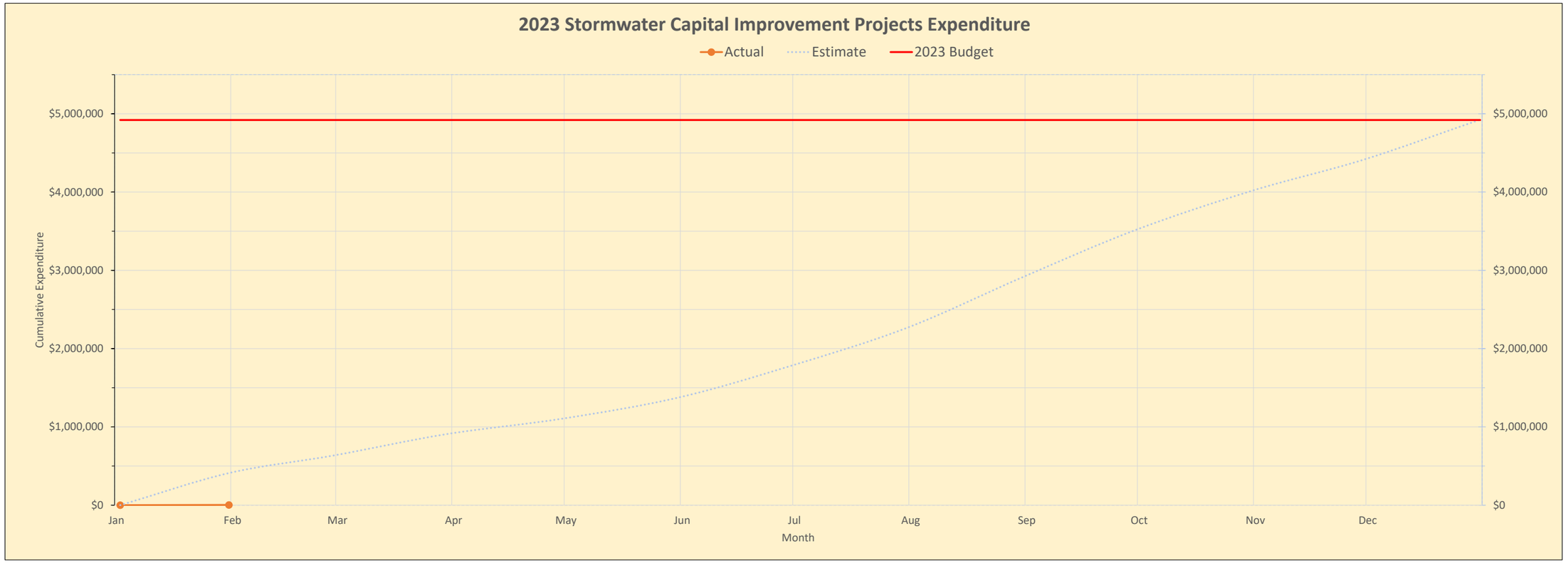
MUNIS Project Code	Description	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Actual Expenditure YTD	% Budget Expended	2023 Budget
80800801-80100-00023	AWTF Energy Recovery Improv	DESIGN	$ -												$ -	0%	$ 8,074,562
80800801-80100-00024	Primary Clarifier Improvement	DESIGN	$ -												$ -	0%	$ 168,000
80800801-80100-00026	Collection System Rehab	CONSTRUCTION	$ 131,057												$ 131,057	8%	$ 1,707,000
80800801-80100-00028	Paxton Creek Interceptor Repai	STUDY	$ -												$ -	0%	$ 465,000
80800801-80100-00061	Arsenal Boulevard Sewer Improv	DESIGN	$ -												$ -	0%	$ 2,689,400
80800801-80100-00065	Other Multi-Modal CCTV Investi	STUDY	$ -												$ -	0%	$ 500,000
80800801-80100-00083	Front St Interceptor Rehab P2	CONSTRUCTION	$ 1,504,104												$ 1,504,104	9%	$ 16,017,826
80800801-80100-00115	PennDOT I-83 Expansion	DESIGN	$ 8,647												$ 8,647	2%	$ 405,000
80800801-80100-00126	3rd & Wiconisco Separation	DESIGN	$ -												$ -	0%	$ 230,000
80800801-80100-00127	Ww Sewer Rehab Pennvest $21M	CONSTRUCTION	$ 127,371												$ 127,371	3%	$ 3,993,881
80800801-80100-00128	Primary Digester Insulation	STUDY	$ -												$ -	0%	$ 500,000
		Actual Monthly Expenditure	**$ 1,771,179**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,771,179**	**5.1%**	**$ 34,750,669**
		Actual CUMULATIVE Expenditure	**$ 1,771,179**														

Wastewater Capital Improvement Projects Report

ACTUAL EXPENDITURE (from Finance)

MUNIS Project Code	Description	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Actual Expenditure YTD	% Budget Expended	2022 Budget
80800801-80100-00020	Primary Digester Rehabiliation	CONSTRUCTION	$ 82,670	$ 139,992	$ 153,033	$ 71,984	$ 70,072	$ 68,737	$ -	$ -	$ -	$ 101,531	$ 49,129	$ -	$ 737,147	172%	427,838
80800801-80100-00023	AWTF Energy Recovery Improv	DESIGN	$ 200	$ -	$ -	$ 160,283	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 42,247	$ 202,729	8%	2,400,000
80800801-80100-00024	Primary Clarifier Improvement	DESIGN	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 654	$ 1,015	$ 777	$ 8,565	$ 11,011	7%	168,000
80800801-80100-00025	Front St Pump Station Des/Cons	CONSTRUCTION	$ -	$ 18,563	$ 5,504	$ 125,511	$ 12,347	$ 67,748	$ -	$ -	$ -	$ -	$ -	$ -	$ 229,674	63%	366,875
80800801-80100-00026	Collection System Rehab	CONSTRUCTION	$ 86,251	$ 301,457	$ 315,544	$ 39,014	$ 130,813	$ 531,799	$ 133,797	$ 685,793	$ 33,019	$ 323,971	$ 258,551	467,976	$ 7,443,490	77%	9,725,260
80800801-80100-00127	Sewer Rehab PV Project	CONSTRUCTION	$ 196,190	$ 383,912	$ 610,982	$ 383,214	$ 24,644	$ 8,281	$ 1,220,414	$ 48,857	$ 471,722	$ 577,024	$ -	210,265			
80800801-80100-00028	Paxton Creek Interceptor Repair	STUDY	$ 96	$ -	$ 600	$ 4,610	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,306	2%	350,000
80800801-80100-00061	Arsenal Boulevard Sewer Improv	DESIGN	$ 17,515	$ 16,270	$ 6,899	$ 8,728	$ 5,351	$ 916	$ -	$ -	$ -	$ 9,512	$ -	3,555	$ 68,746	7%	991,000
80800801-80100-00065	Other Multi-Modal CCTV Investi	STUDY	$ -	$ 3,888	$ -	$ -	$ -	$ 57,220	$ 137,985	$ 126,684	$ -	$ 112,635	$ 51,637	$ -	$ 490,048	98%	500,000
80800801-80100-00083	Front St Interceptor Rehab P2	BID/AWARD	$ 919	$ 227	$ 2,220	$ 2,524	$ 28,663	$ 16,491	$ 6,036	$ 31,148	$ -	$ 22,170	$ 23,042	41,010	$ 174,450	1%	15,409,000
80800801-80100-00115	PennDOT I-83 Expansion	DESIGN	$ -	$ 14,397	$ 11,237	$ 6,140	$ 2,779	$ 3,542	$ 4,995	$ 6,116	$ -	$ -	$ 1,654	36,590	$ 87,449	182%	48,000
80800801-80100-00126	3rd & Wiconisco Separation	DESIGN	$ 640	$ -	$ 1,506	$ 5,639	$ 4,061	$ 3,426	$ 869	$ -	$ -	$ -	$ -	$ -	$ 16,140	4%	435,000
	Actual Monthly Expenditure		**$ 384,481**	**$ 878,706**	**$ 1,107,525**	**$ 807,646**	**$ 278,730**	**$ 758,159**	**$ 1,504,096**	**$ 898,597**	**$ 505,395**	**$ 1,147,857**	**$ 384,789**	**$ 810,208**	**$ 9,450,050**	**31.1%**	**$ 30,385,973**
	Actual CUMULATIVE Expenditure		**$ 384,481**	**$ 1,263,187**	**$ 2,370,712**	**$ 3,178,358**	**$ 3,457,088**	**$ 4,215,248**	**$ 5,719,344**	**$ 6,617,940**	**$ 7,123,336**	**$ 8,271,192**	**$ 8,655,981**	**$ 9,466,190**			

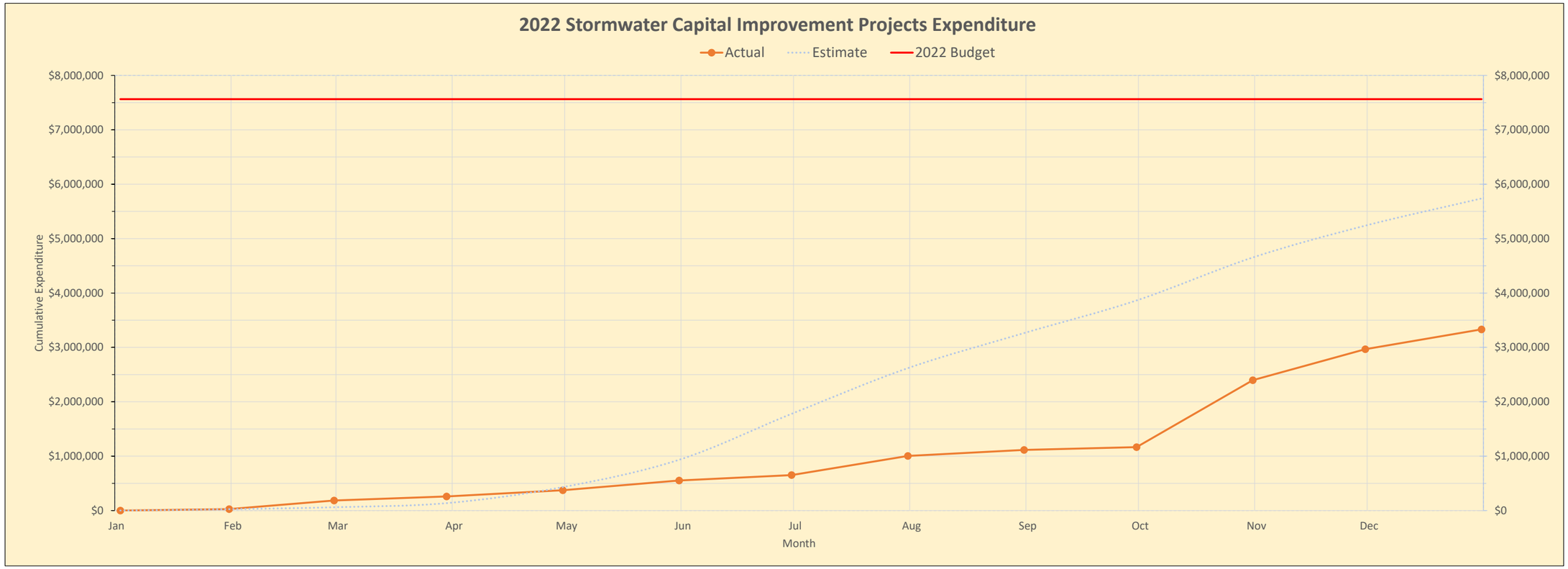
Stormwater Capital Improvement Projects Report



ACTUAL EXPENDITURE (from Finance)

MUNIS Project Code	Description	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Actual Expenditure YTD	% Budget Expended	2023 Budget
90800801-80100-00087	Camp Curtin Big Green Block GSI	CONSTRUCTION	$ -												$ -	0%	$ 588,904.00
90800801-80100-00091	Paxton Crk TMDL Joint PRP MS4	CONSTRUCTION	$ -												$ -	0%	$ 180,400.00
90800801-80100-00108	SW Pond Retrofit - Bellevue Pa	CONSTRUCTION	$ -												$ -	0%	$ 292,874.00
90800801-80100-00124	Sw PENNVEST Pro-Fi Phase 4	CONSTRUCTION	$ -												$ -	0%	$ 2,901,302.00
90800801-80100-00125	Sw PENNVEST Pro-Fi Phase 5	DESIGN	$ 3,180												$ 3,180	0%	$ 770,000.00
90800801-80100-00130	PHEAA Campus GSI	DESIGN	$ -												$ -	0%	$ 37,000.00
90800801-80100-00131	Reservoir Park - Phase 2 GSI	DESIGN	$ -												$ -	0%	$ 150,000.00
	Actual Monthly Expenditure		**$ 3,180**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 3,180**	**0.1%**	**$ 4,920,480**
	Actual CUMULATIVE Expenditure		**$ 3,180**														

Stormwater Capital Improvement Projects Report



ACTUAL EXPENDITURE (from Finance)

MUNIS Project Code	Description	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Actual Expenditure YTD	% Budget Expended	2022 Budget
90800801-80100-00087	Camp Curtin Big Green Blok GSI	CONSTRUCTION	$ 109	$ 516	$ 29,558	$ -	$ -	$ -	$ -	$ 97,719	$ 13,751	$ 907,812	$ 110,697	177,481	$ 1,337,643	61%	2,197,000
90800801-80100-00091	Paxton Crk TMDL Joint PRP MS4	CONSTRUCTION	$ -	$ -	$ -	$ 5,000	$ -	$ -	$ 240,000	$ -	$ -	$ -	$ 56,773	-	$ 301,773	146%	206,620
90800801-80100-00108	SW Pond Retrofit - Bellevue Pa	CONSTRUCTION	$ 1,818	$ 1,344	$ -	$ 33,758	$ 151,774	$ 16,324	$ 32,086	$ -	$ 26,455	$ 317,645	$ 292,569	187,285	$ 1,061,058	76%	1,396,000
90800801-80100-00124	Sw PENNVEST Pro-Fi Phase 4	BID/AWARD	$ 24,221	$ 131,972	$ 31,817	$ 77,118	$ 23,157	$ 2,531	$ 15,908	$ 12,679	$ -	$ -	$ -	-	$ 319,403	9%	3,464,510
90800801-80100-00125	Sw PENNVEST Pro-Fi Phase 5	DESIGN	$ -	$ 25,915	$ 11,237	$ -	$ 3,132	$ 80,964	$ 64,345	$ -	$ 11,582	$ 5,388	$ 109,037	-	$ 311,599	104%	300,000
		Actual Monthly Expenditure	**$ 26,148**	**$ 159,747**	**$ 72,611**	**$ 115,876**	**$ 178,064**	**$ 99,820**	**$ 352,338**	**$ 110,397**	**$ 51,787**	**$ 1,230,845**	**$ 569,076**	**$ 364,766**	**$ 3,331,476**	**44.0%**	**$ 7,564,130**
		Actual CUMULATIVE Expenditure	**$ 26,148**	**$ 185,895**	**$ 258,507**	**$ 374,383**	**$ 552,447**	**$ 652,266**	**$ 1,004,605**	**$ 1,115,002**	**$ 1,166,789**	**$ 2,397,634**	**$ 2,966,710**	**$ 3,331,476**			

CAPITAL REGION™

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Development Stormwater Management Review Summary

CAPITAL REGION WATER

Development Stormwater Management Review Summary

March 15, 2023 Status Report

Development	Status	Latest Submittal	Latest Comments	Act 167 Watershed	BMP	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	X			Need executed O&M
Kelker Street and North 5th Street	Preliminary/Final Development	12/17/2019	11/19/2020	Susquehanna River	Infiltration Beds	0.166	X	X	X	O&M received
15th and Walnut Street	Preliminary/Final Development	12/17/2019	1/2/2020	Paxton Creek	Rain Garden/Porous Pavement	3.23	X	X	X	Sent comment letter on 1/2/2020
Bethesda Mission	Preliminary/Final Development	2/10/2020	2/20/2020	Paxton Creek	Rain Garden	0.4	X	X	X	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	X	X	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	X		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	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

CAPITAL REGION WATER

Development Stormwater Management Review Summary

March 15, 2023 Status Report

Development	Status	Latest Submittal	Latest Comments	Act 167 Watershed	BMP	Disturbed Area (Ac)	Rate Control	Volume Control	Infiltration	Comment
6th & Herr St (Bethel Village)	Preliminary/Final Development	9/3/2021	9/20/2021	Susquehanna River	Underground Infiltration Facilty	0.49	X	X	X	Approval letter 9/20/2021
2101 North 6th Street	Preliminary/Final Development	8/17/2021	8/31/2021	Paxton Creek	SW Conveyance	0.71	X			Approval letter 1/18/2022
1719 Market Street	Preliminary/Final Development	8/24/2021	9/20/2021	Paxton Creek	Underground Infiltration Facility	0.5	X	X	X	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	X	X	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	X	X	X	Sent comment letter on 1/5/2022
2463 Jefferson Street	Preliminary/Final Development	1/24/2022	1/31/2022	Paxton Creek	Basin	0.54	X	X	X	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	X	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	X	X	X	Sent comment letter on 6/22/2022
6th Street Apartments	Preliminary/Final Development	12/15/2022	1/27/2022	Susquehanna River	Rain Garden	0.77	X	X	X	Sent comment letter on 1/27/2023
2151-2161 N. 4th Street	Preliminary/Final Development	1/18/2023	2/7/2023	Susquehanna River	Roof Sump	0.17	X		X	Sent comment letter on 2/07/2023

CAPITAL REGION™

WATER

Recruiting Status

CAPITAL REGION WATER

RECRUITING STATUS

Gina Bond, HR Generalist

March 14, 2023

New Hires

Position	Employee	Effective Date	Service Area
Risk Manager & Safety Officer	Miriam Gonzalez-Siegel	3/13/2023	YES
HR Analyst I Benefits & EE Engagement	Jodi Freeburn	4/3/2023	NO

Promotions

Employee	Former Position	New Position	Effective Date
Darla Boyer	CSR/Accts Specialist	Customer Service Asst. Manager	3/13/2023

Open Positions

Position	Status	Service Area
Project Manager/ Design Engineer	Interview Process Underway	N/A
Superintendent – Drinking Water	Interview Process Underway	N/A
Procurement Manager	Open	N/A
Community Outreach Manager	Interview Process Underway	N/A
Laborer I - Wastewater	Interview Process Underway	N/A

CAPITAL REGION™

WATER

Incoming Correspondence Report

Incoming Correspondence Report

February 2023

Date Received	Date of Correspondence	Company/Agency and Name of Sender	Reference	CRW Addressee/ Received by/ Provided to
2/7/2023	1/30/2023	PA Department of Environmental Protection	Public Water Supply Partial Operation Permit #2221515 Flocculator Improvements Susquehanna Township	Addressed to: Dave Stewart Received by: Janice Miller-Zerbe Provided to: Dave Stewart
2/7/2023	1/30/2023	PA Department of Environmental Protection	Public Water Supply Partial Operation Permit #2222522MA Liquid Lime & KMnO4 Susquehanna Township	Addressed to: Dave Stewart Received by: Janice Miller-Zerbe Provided to: Dave Stewart
2/17/2023	2/10/2023	Thomas, Thomas, & Hafer Attorneys at Law	McFarland, LP v. Cutler Associates, Inc., et al. Dauphin County Court of Common Pleas No. [redacted]	Addressed to: Records Custodian Received by: Janice Miller-Zerbe Provided to: Karen McKillip
2/27/2023	2/16/2023	Veolia	Downstream Notification and Public Notice for Veolia 6th Street Water Treatment Facility - 4405 N. 6th St, Harrisburg	Addressed to: CRW Water Facility Received by: Janice Miller-Zerbe Provided to: Maynard Gardner & Jess Rosentel
2/27/2023	2/16/2023	PA Public Utility Commission	Notification of Damage Prevention Committee Meeting	Addressed to: Jeff Bowra/Rebecca Laufer Received by: Janice Miller-Zerbe Provided to: Jeff Bowra/Rebecca Laufer

CAPITAL REGION™

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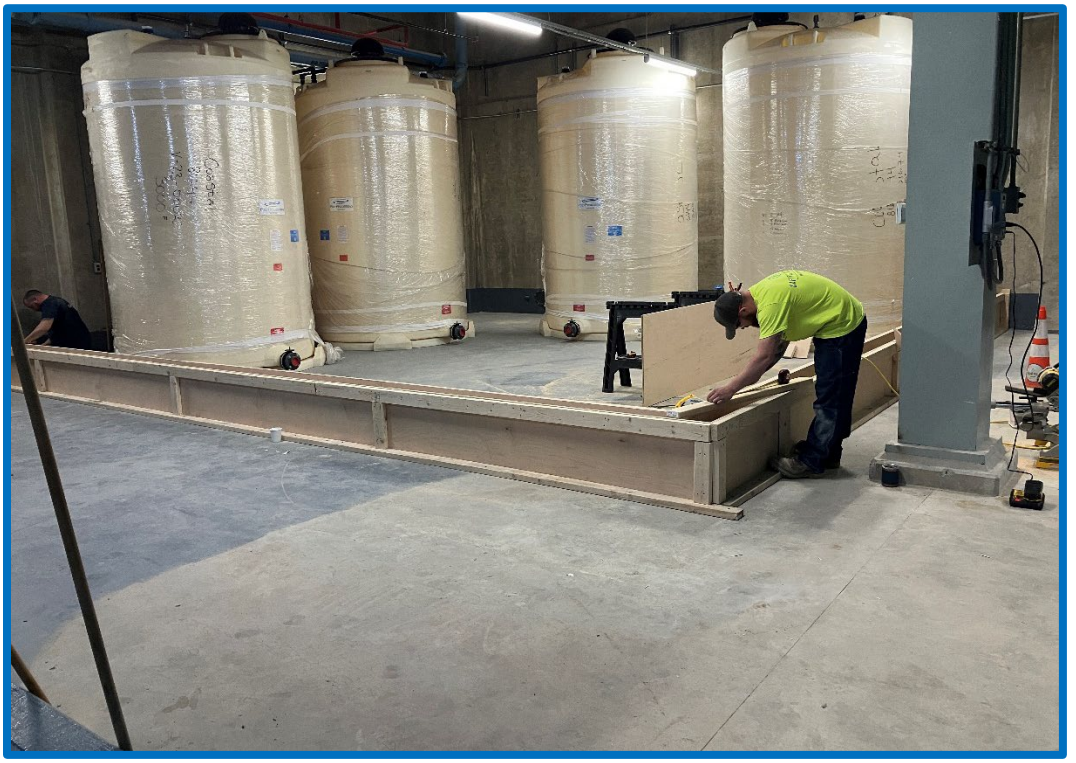
Drinking Water

CAPITAL REGION™

WATER

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

CAPITAL REGION WATER

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.

- 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.

CAPITAL REGION™

WATER

Drinking Water Exhibits

CAPITAL REGION WATER

EXHIBIT A
Water Quality Anaylsis - 2023

PARAMETERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average	MCL Limits
Total Coliform: Presence/Absence														
Distribution System	A	**A**	A	A	A	A	A	A	A	A	A	A	**A**	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														
Influent from DeHart	1.20	**0.98**											**1.09**	NA
Influent from Susquehanna	NA	**NA**												NA
Filter Plant Effluent	0.03	**0.03**											**0.03**	0.30
pH, Std Units														
Influent from DeHart	6.4	**6.5**											**6.46**	NA
Influent from Susquehanna	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*
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**														
Distribution System	34.2	**NA**											**34.2**	80.0
****Total Haloacetic Acids, ug/L**														
Distribution System	36.8	**NA**											**36.8**	60.0
Total Organic Carbon, mg/L														
Influent from DeHart	1.22	**NA**											**1.22**	NA
Influent from Susquehanna	NA	**NA**											**NA**	NA
Filter Plant Effluent	2.16	**NA**											**2.16**	NA
Average Filter Run, Hours	115	**112**											**113.50**	NA

*** Not Available at Time of Report

* Values are related to DEP *Secondary* MCL

** Running Annual Quarterly Average

CAPITAL REGION WATER

EXHIBIT B

Water Production Data - 2023

	DeHart Withdrawal		River Withdrawal		Total Withdrawal		Treated Water		Process Water		Finished Water	
Month	**Total (MG)**	**Average (MGD)**	**Total (MG)**	**Average (MGD)**	**Total (MG)**	**Average (MGD)**	**Total (MG)**	**Average (MGD)**	**Total (MG)**	**Average (MGD)**	**Total (MG)**	**Average (MGD)**
January	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**

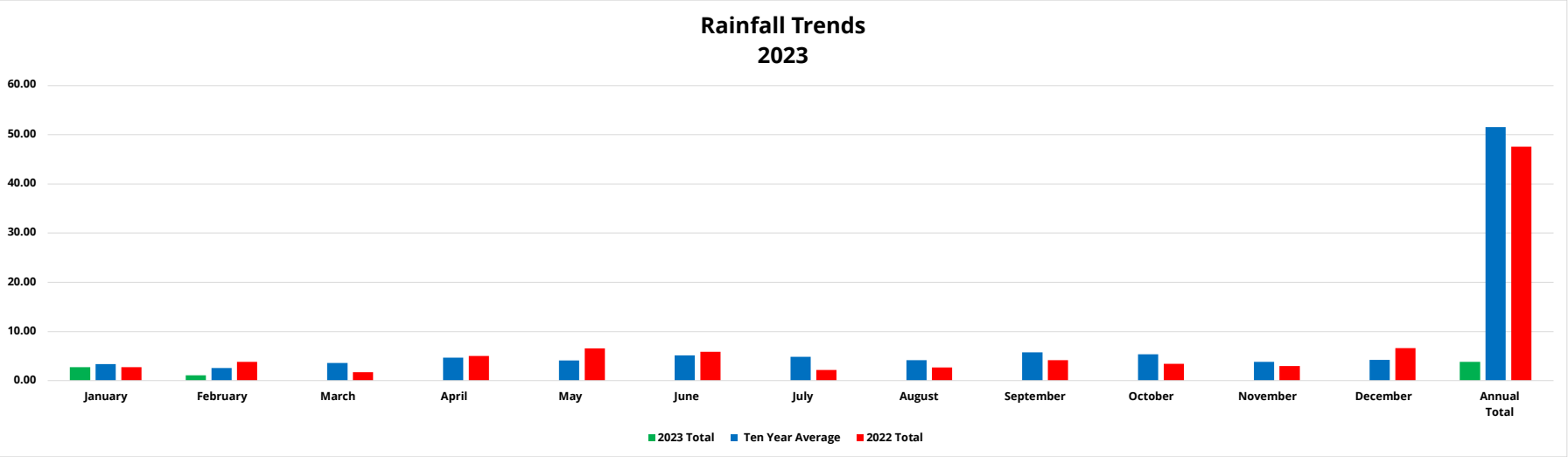
Peak Day Water Use	5/31/2020	6.966	(MG) = Million Gallons
Minimum Day Water Use	5/1/2020	6.081	(MGD) = Million Gallons per Day

CAPITAL REGION WATER

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**



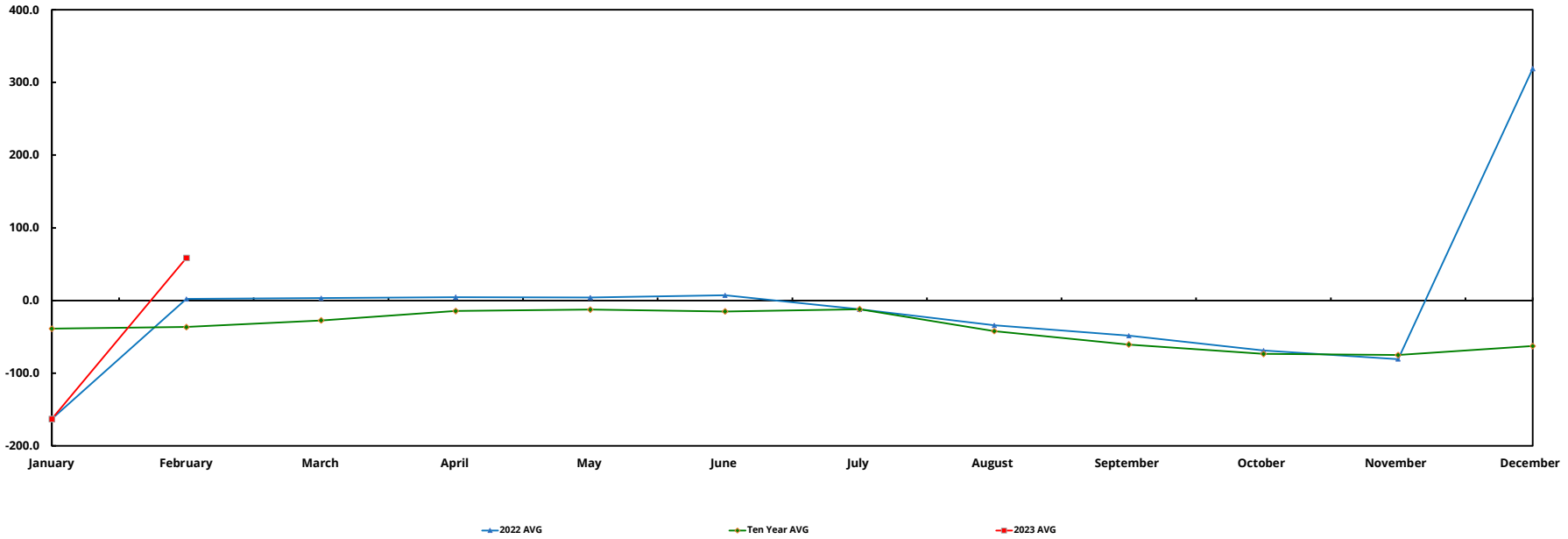
CAPITAL REGION WATER

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

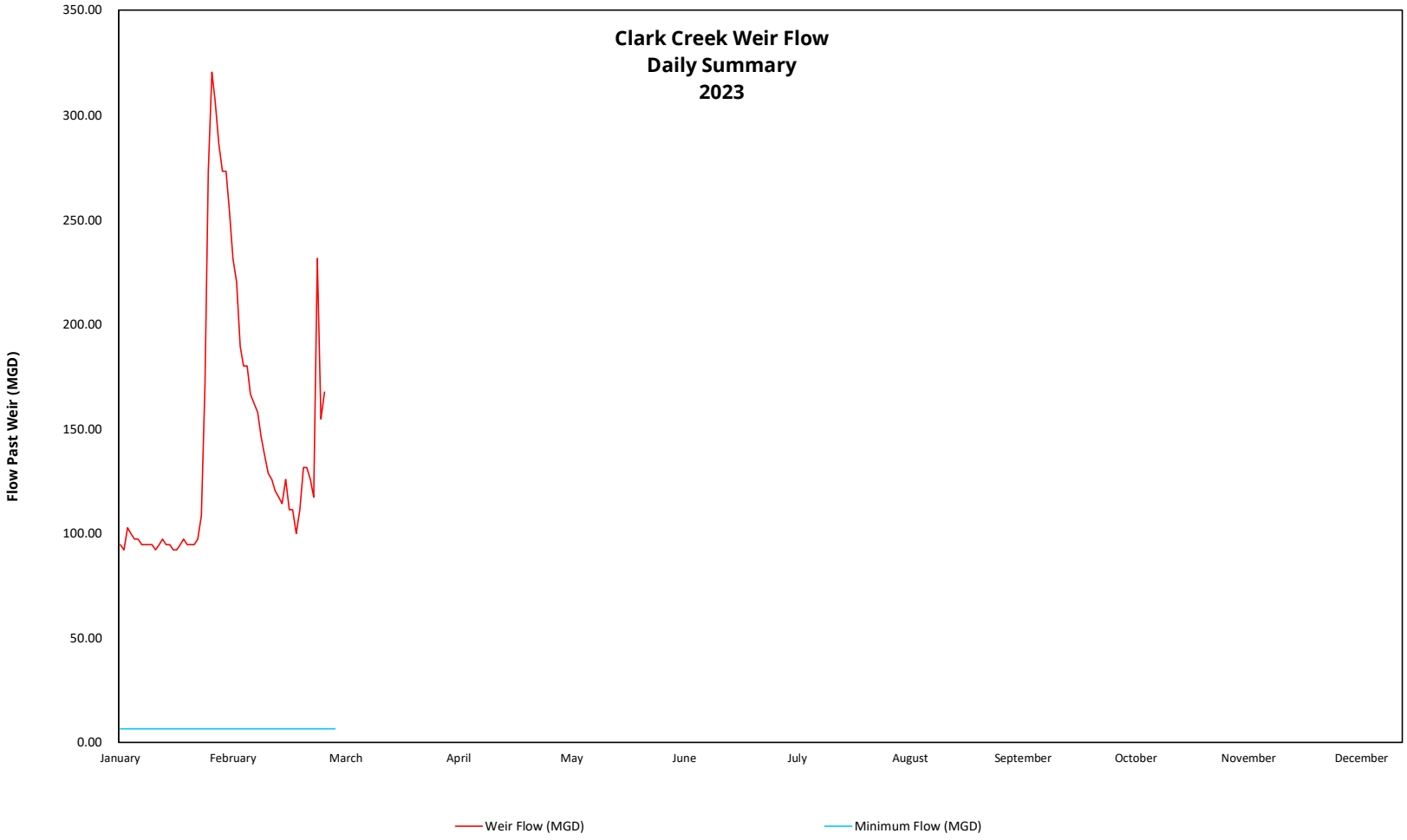
DeHart Reservoir Water Level Trends
2023



CAPITAL REGION WATER

EXHIBIT E

Daily Conservation Release - 2023



CAPITAL REGION WATER

EXHIBIT F

Utility Usage - 2023

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Water Services Center														
Electric Transmission														
Total, kwH	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Electric Generation														
Total, kwH	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Natural Gas														
Total, Cu Ft	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Sewer														
Total, Gal	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Refuse														
Cost, Dollars	$0.00												$0.00	$0.00
Reservoir Park Pump Station														
Electric Transmission														
Total, kwH	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Electric Generation														
Total, kwH	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Natural Gas														
Total, Cu Ft	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Susquehanna River Pump Station														
Electric Transmission														
Total, kwH	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Electric Generation														
Total, kwH	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Natural Gas														
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
Electric 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												$0.00	$0.00
Electric Generation														
Total, kwH	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Fuel Oil														
Total, Gals.	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
City Island Heat Trace														
Electric Transmission														
Total, kwH	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Electric Generation														
Total, kwH	0												0	0
Cost, Dollars	$0.00												$0.00	$0.00
Expenditures YTD													$0	$0

** 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 Utilities	**$0**

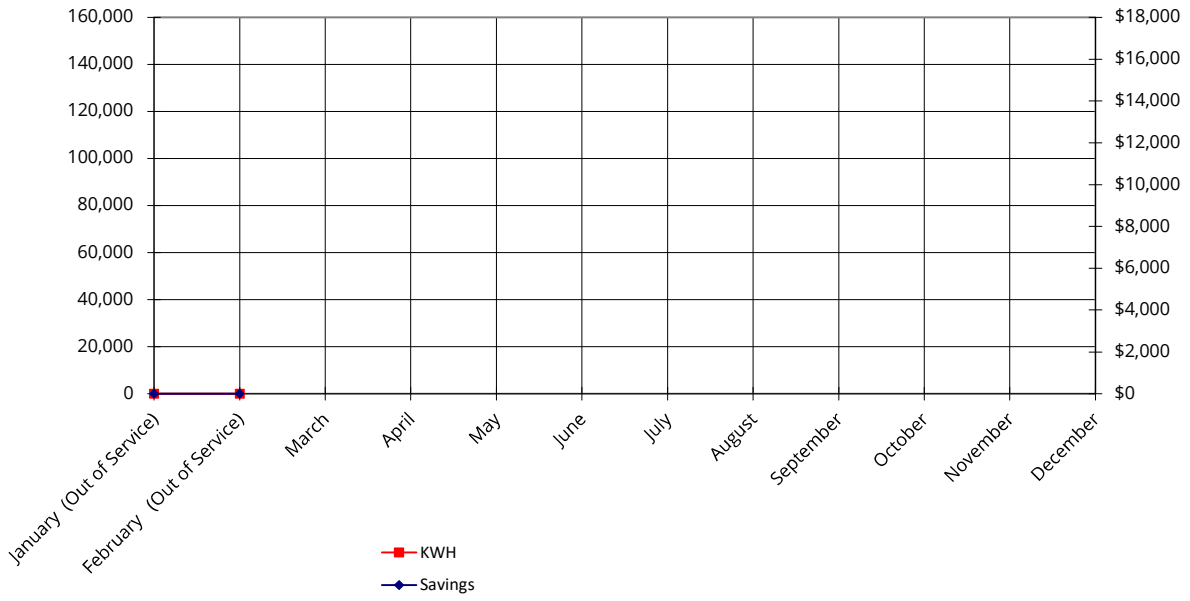
CAPITAL REGION WATER

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



CAPITAL REGION WATER

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**											**5,906**	**11,812**
Average, Chlorine Lbs./Day	203	**197**											**200.0**	
Average, Chlorine Dose, mg/L	6.9	**1.6**											**4.3**	
Chlorine, Cost, $/Lbs.	$1.639	**$1.639**											**1.6**	
Chlorine Total Cost, Dollars	$10,316	**$9,044**											**$9,679.94**	**$19,359.87**
Alum 48.5%														
Total Lbs.	26,829	**16,763**											**21,796**	**43,592**
Average, Alum, Lbs./Day	866	**599**											**732.5**	
Average, Alum, mg/L	10.7	**7.7**											**9.2**	
Alum Cost, $/Lbs.	$0.121	**$0.121**											**0.1**	
Alum Total Cost, Dollars	$3,246	**$2,028**											**$2,637.16**	**$5,274.31**
Lime														
Total Lbs.														**0**
Average Lime, Lbs./Day														
Average, Lime Dose, mg/L														
Lime Cost, $/Lbs.	$0.86												**$0.86**	
Lime Total Cost, Dollars	$0.00												**$0.00**	**$0.00**
		0	0	0										
Soda Ash														
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**	**4,205**
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**	
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**	**66,848**
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**	**$30,081.35**
Zinc Orthophosphate														
Total Zn3(PO4)2, wet Lbs.	4,802	**4,239**											**4,521**	**9,041**
Average Zn3(PO4)2, wet Lbs./Day	155	**151**											**153.0**	
Average, Zn3(PO4)2 Dose, mg/L	2.5	**2.5**											**2.5**	
Zn3(PO4)2 Cost, wet $/Lbs.	$1.724	**$1.724**											**1.7**	
Zn3(PO4)2 Total Cost, Dollars	$8,279	**$7,308**											**$7,793.33**	**$15,586.65**
Potassium Permanganate														
Total KMnO4, Lbs.	0												**0**	**0**
Average KMnO4, Lbs./Day	0												**0.0**	
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**	**$82,512.18**
Average Treated Cost per (MG)														
Total Treated Flow (MGD)														**0.000**
Average Treated Flow (MGD)														**225.150**

CAPITAL REGION WATER

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**

CAPITAL REGION WATER

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															
Replacement	**Missing**	6	**3**											**9**	**5**
	Leaking	2	**3**											**5**	**3**
	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**

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Wastewater

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WASTEWATER DEPARTMENT MONTHLY REPORT

New AWTF Operator, Lillian Dolan.

February 2023

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

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AWTF Monthly Report

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.

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.

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

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.

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Wastewater Exhibits

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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	**16.8**											19.4	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/L	97	**141**											119	-----
Effluent, mg/L	4	**3**											4	25
Percent Removal, %	95.6	**97.4**											96.5	-----
Effluent Loading, lb/d	681	**390**											536	7,860
Suspended Solids:														
Influent, mg/L	156	**222**											189	-----
Effluent, mg/L	8	**3**											6	30
Percent Removal, %	95.0	**98.5**											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	**4.4**											5	Monitor
Percent Removal, %	80.5	**87.2**											83.9	-----
Effluent Loading, lb/d	993	**586**											790	-----
NH3-N														
Influent mg/L	17	**21**											19	-----
Effluent, mg/L	1.9	**1.2**											2	11 (2)
Percent Removal, %	88.5	**94.3**											91.4	-----
Effluent Loading, lb/d	359	**168**											264	4,716
Phosphorus:														
Influent, mg/L	2.9	**4.2**											3.6	-----
Effluent, mg/L	0.8	**1.6**											1.2	2.0
Percent Removal, %	70.3	**61.3**											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 (1)
Chlorine Residual:														
Effluent, mg/L	0.22	**0.18**											0.20	0.50

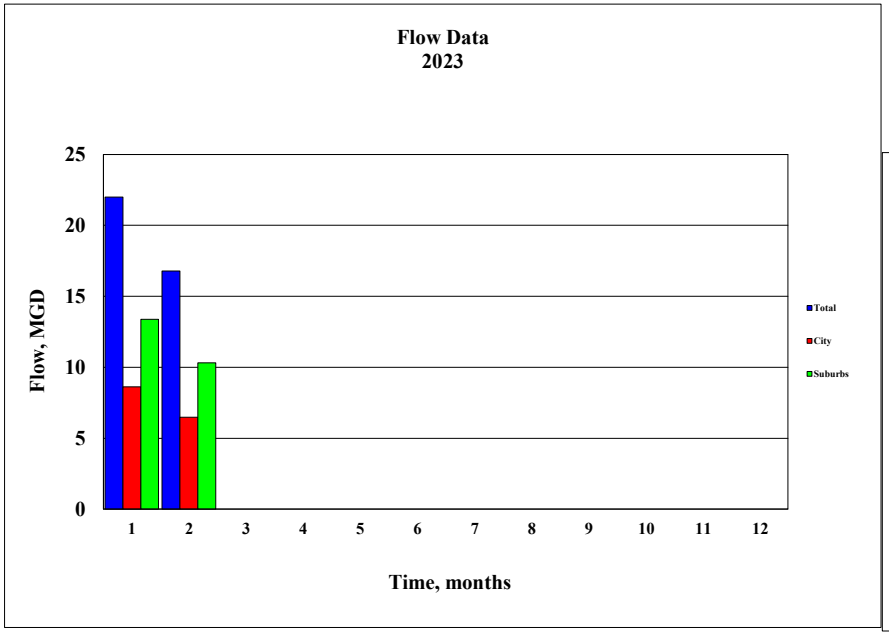
(1) Seasonal limit 2,000/100 ml Oct. 1 to Apr. 30 and 200/100 ml May 1 to Sept. 30.
(2) Seasonal Limit May 1 to Nov.1.

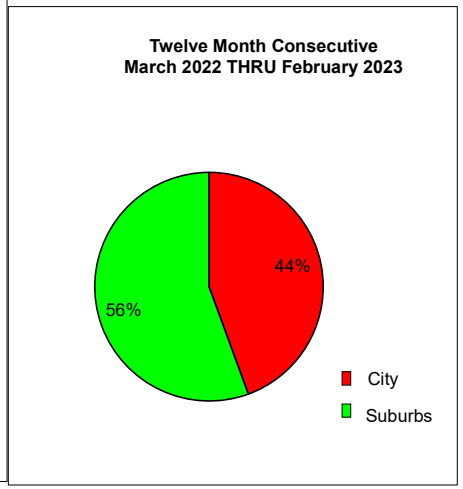
EXHIBIT B

CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY

Flow Monitoring Information, MGD - 2023

	Total			City Regions					Suburb Regions					Total 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														
April														
May														
June														
July														
August														
September														
October														
November														
December														
Average	19.40	7.55	11.85											1.73
Percent	100.00	38.92	61.08											3.46





CAPITAL REGION WATER

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**											1,093,650	2,187,300
Average, kwH/Day	37,384	**36,729**											37,056	-------
Cost, Dollars	$98,628.52	**$60,520.22**											$79,574.37	$159,148.74
Natural Gas														
Total, Cu Ft	621.9	*											311	622
Average, Cu Ft/Day	20	*											20	-------
Cost, Dollars	$6,237.14	*											$3,118.57	$6,237.14
Water														
Total, Gal.	1,187,000	*											1,187,000	1,187,000
Average, Gal./Day	38,290	*											38,290	-------
Cost, Dollars	$15,616.58	*											$7,808.29	$15,616.58
MicroC														
Total, Gal.	0	**0**											0	0
Average, Gal./Day	0.0	**0.0**											0	-------
Cost, Dollars	$0	**$0.00**											$0.00	$0.00
Sodium Hydroxide														
Total, Gal.	0	**0**											0	0
Average, Gal./Day	0	**0**											0	-------
Cost, Dollars	0	**0**											$0.00	$0.00
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	-------
Cost, $/Lbs.	$1.64	**$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**											$1.74	-------
FeCl3 Total Cost, Dollars	$5,416.97	**$5,132.65**											$5,274.81	$10,549.62

*** No data at time of report**

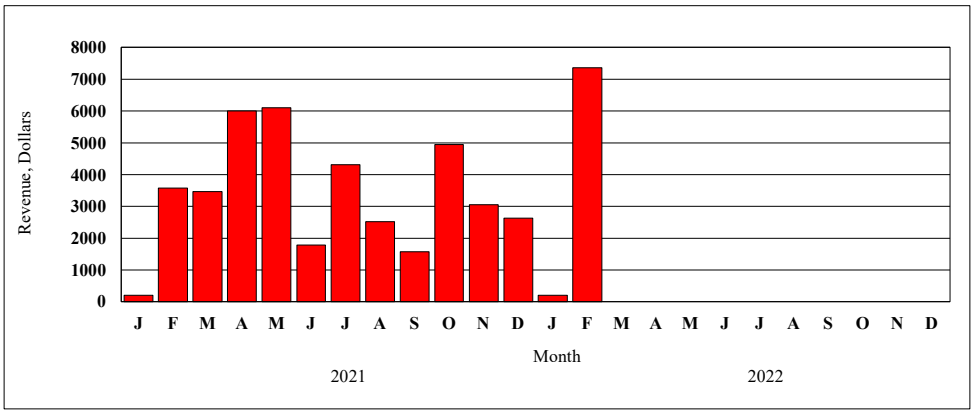
CAPITAL REGION WATER

EXHIBIT D

CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY

Cogeneration Electrical Production: 2022-2023

Period	Percent Run Time	Daily Avg Kilowatt	Kilowatt Hours Produced	Estimated 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



CAPITAL REGION WATER

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														
Feed Volume, Gals.	5,489,000	**4,398,000**											4,943,500	9,887,000
Feed Solids, %	1.5	**1.5**											1.5	-
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	

CAPITAL REGION WATER

EXHIBIT F

CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY

Conveyance Utility Usage - 2023

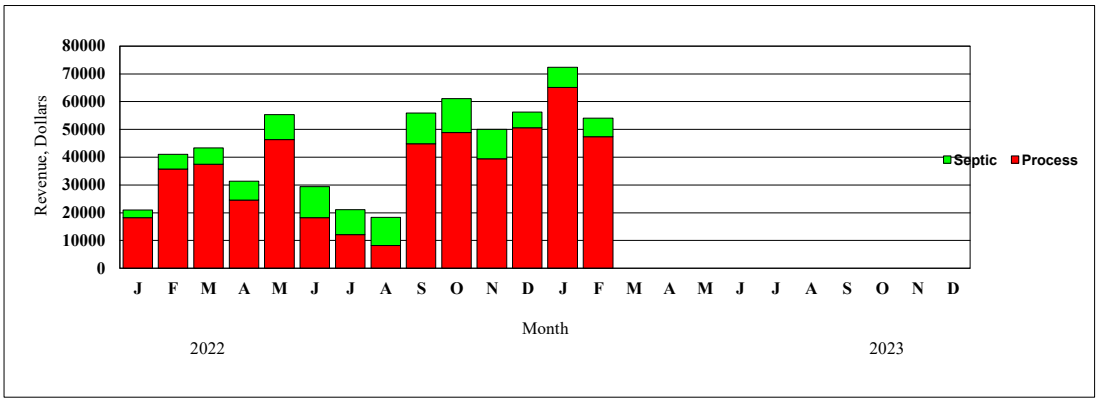
Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Front Street Pump Station														
Electric														
Total, kwH	153,600	**97,200**											125,400	250,800
Average, kwH/Day	4,955	**3,471**											4,213	-----
Cost, Dollars	#######	**$6,179.35**											$8,175.61	$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

*** No Data at time of report**

CAPITAL REGION WATER

EXHIBIT G

CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY

Contract Waste Hauling Program 2022 - 2023

	Process		Septic		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	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
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						
April						
May						
June						
July						
August						
September						
October						
November						
December						
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