

Ensure Financial Stability	
Reconciled Bank Account Balances	Provided separately to the Board.
Monthly Balance Sheets	[REDACTED]
Monthly Income Statements	[REDACTED]
Monthly Financial Dashboard	[REDACTED]
AP Check Reconciliation Register	Provided separately to the Board.
Drinking Water Capital Improvement Projects	Provided separately to the Board.
Wastewater Capital Improvement Projects	Provided separately to the Board.
Stormwater Capital Improvement Projects	Provided separately to the Board.
Grant Management Report	[REDACTED]
Loan Summary Report	[REDACTED]

Ensure Revenues are Consistent with System Usage	
Water Shut-offs	There were 26 water shut-offs for non-payment and 38 service shut-off requests.
Repair/Replace Meters/MIUs/Batteries	Drinking Water Distribution staff replaced 0 water meters, two batteries and one MIU.
Reduce Wet Weather Impacts to Infrastructure, Community, and Receiving Waters	
Negotiate with PADEP/U.S. EPA/DOJ on Past and Future Practices	No updates.
Develop Necessary Planning for Implementation of Green Infrastructure	No updates.
Joint Pollutant Reduction Plan - Collaborate with Suburban Partners on MS4	No updates.
Obtain and Comply with Individual MS4 Permit	No updates.

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 of November.
	The Advanced Wastewater Treatment Facility (AWTF) met all NPDES Permit parameters for the month of November. One Sanitary Sewer Overflow was reported. CRW was also issued a new NPDES permit in November - it's first new Discharge Permit in 15 years. Details are contained within the Wastewater Department Monthly Report.
Notice of Violations (NOVs)	There were no NOVs received by the Drinking Water department in November.
	There were no NOVs received by the Wastewater department in November.
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 November.
	The Wastewater department completed all regularly scheduled preventative maintenance in the month of November, and continued its semi-annual lubrication PMs for all equipment at the AWTF.
CCTV	Field Operations performed CCTV assessment of 3,966 feet (0.75 miles) of pipe during the month of November and flushed 1,193 feet (0.23 miles) of sewer pipe.
Incident Response	Wastewater responded to four backup and overflow calls from residents during the month of November. CRW was responsible for none.
Geographic Information System (GIS)	<ul style="list-style-type: none"> • Eleven (11) Pennsylvania One Call tickets were completed with a pdf file or mark-up sent to the requestor. • One (1) Pennsylvania One Call ticket was completed with no CRW facilities involved based on the ticket information. • Lead Service Line Inventory (LSLI) project continues. This includes working with multiple internal departments and the U.S. EPA and its partners. • The Get the Lead Out (GLO) team completed the review and data update of two hundred and fifty (250) service lines listed as galvanized during their meter replacement. • GIS has been updated related to the 22nd and Kensington Street sewer replacement project.
Cityworks	<div style="background-color: black; height: 15px; width: 100%;"></div> <div style="background-color: black; height: 15px; width: 45%;"></div> <div style="background-color: black; height: 15px; width: 100%;"></div> <div style="background-color: black; height: 15px; width: 25%;"></div> <div style="background-color: black; height: 15px; width: 95%;"></div> <div style="background-color: black; height: 15px; width: 90%;"></div> <div style="background-color: black; height: 15px; width: 95%;"></div> <div style="background-color: black; height: 15px; width: 45%;"></div> <div style="background-color: black; height: 15px; width: 95%;"></div> <div style="background-color: black; height: 15px; width: 5%;"></div>

<p>Asset Management</p>	<p>Roadmap activity report:</p> <p>Roadmap Implementation Groups (RIG)</p> <p>Decision Making Capital Planning RIG</p> <ul style="list-style-type: none"> • Task 2.1 Funding Strategy. Task complete. • Task 2.2 Budget Processing Workflow finalized 6/21/2024. Task complete. • Task 2.3 AWTF Rehabilitation and Renewal Process. Meeting scheduled for 12/16/2024 to present final recommendations for rehabilitation and renewal of AWTF assets. <p>Information System Data Management RIG</p> <ul style="list-style-type: none"> • Task 3.1 Contractor Provided Updates to Asset Inventory. Met 11/15/2024 and altered deliverable to a recommended list of required steps/actions to fulfill process compliance due to lack of deliverables to test process. • Task 3.2 Integrations and Interface. Meeting held 11/18/2024 determining that a Business Case Proposal be developed endorsing best valued option for publishing Power BI dashboards internally. Proposal due by 12/31/2024. <p>Operations and Maintenance RIG</p> <ul style="list-style-type: none"> • Task 4.1 Distribution Asset Management Plan (DAMP). Version 2 draft in progress to be completed upon receipt of DAMP 20-Yr Capital Improvements Project (CIP) Technical Memo due by 12/31/2024. • Task 4.2 Asset Class Plans. Task completed. • Task 4.3 Collections Job Plans. Completed two working sessions with final scheduled for 12/16/2024. Current Job Plan results: Four (4) finalized and four (4) in draft form. • Task 4.4 Problem/Cause/Remedy (PCR) Codes. Task completed. • Task 6.1 Water Services Center (WSC) Asset Inventory and Visual Condition Assessment. Completed. <p>Organizational Framework RIG</p> <ul style="list-style-type: none"> • Task 5.1 Collections Asset Management Plan (CAMP) Levels of Service (LOS) and Performance. Updated Section 2 of CAMP received 11/13/2024. Will be incorporated into CAMP V2 updates. • Task 5.2 Roles and Responsibilities and Task 5.3 Allocation of Resources. Completed. • Task 5.4 Document and Knowledge Management project kickoff meeting held 12/4/2024 next scheduled meeting 12/18/2024. • Task 5.5 Program Evaluation task completed. • Task 5.6 Asset Management (AM) Roadmap Update. Completed. • Task 5.7 Employee Development and Training. Received five (5) draft training modules for vertical asset condition assessment on 12/2/2024.
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	<p>InfoAsset Planner Year 2 Implementation Activity Report:</p> <ul style="list-style-type: none"> Meeting held 11/20/2024 finalizing the Distribution System 20-Year Capital Improvement Plan. <p>Other activities:</p> <ul style="list-style-type: none"> Monthly collaboration meetings; CReW BUS committee - 11/19/2024, Operations and Maintenance Supervisor's - 12/4/2024 and scheduled for 12/11/2024 meeting with Lead and Copper Rule Revision working group. Preparatory steps are completed and placement of barcode labels will begin the week of 12/9/2024 at the Water Services Center.
Development Review Summary	For details, see attached Development Stormwater Management Review Summary spreadsheet for December.

Undertake Capital Improvement Projects - Refer to attached Capital Improvement Projects Report	
Professional & Contractor Services	<p>Recommend Board approval of the following Resolutions, Task Orders, Change Orders and Agreements:</p> <p>Drinking Water: None.</p> <p>Wastewater: None.</p> <p>Stormwater: None.</p>
Stormwater O&M Agreements	Recommend Board approval of the following: None.
AWTF Primary Clarifiers Improvements	The project was readvertised and bids were opened on 12/8/2024. Recommendation of award will be on the 1/22/2025 agenda.
AWTF Energy Recovery Improvements	Preliminary site work continues for building foundations and equipment pads.

Undertake Renewal and Replacement Projects	
2024 Water System Improvements	The contractor is nearing completion of water main installation on Swatara Street between 13th and Crescent Streets.
Cameron Street Water Main - Phase 4	The project is substantially complete and will be completed by the end of December.
2023 Sewer System Improvements (Trenchless)	All work is complete. A final change order must be processed before the project can be closed out.
2024 Sewer System Improvements	The contractor has completed dig up spot repairs at several locations and is on hold until precast concrete structures are delivered.

Arsenal Boulevard Sewer Improvements	The contractor is installing sewer main along the unnamed tributary to Asylum Run and within 17th Street.
Front Street Interceptor Rehabilitation - Phase 2	Punch list work in Riverfront Park should be completed in December.
Water Facility Maintenance	The Water Maintenance group completed various repairs throughout the Water Treatment Facility, pumping stations, and at the Administrative Offices throughout the month. A narrative is provided in the Drinking Water Department Monthly Report for November.
Wastewater Facility Maintenance	The Wastewater Maintenance group completed various repairs throughout the Advanced Wastewater Treatment Facility (AWTF), pumping stations, and at the Administrative Office throughout the month. A narrative is provided in the Wastewater Department Monthly Report for November.
Sinkhole Program	Five sinkholes were investigated by CRW in the month of November. The failure of a Wastewater asset was found to be responsible for one.
Inlet Cleaning	The Street Sweeping crew did not perform any inlet inspections in November due to being short staffed for most of the month. Field Construction repaired seven inlets and performed a total replacement of one.

Operate as an Efficient, Sustainable and Resilient Water Utility	
DeHart Property Stewardship	<p>In accordance with the DeHart Property Forest Management Plan:</p> <ul style="list-style-type: none"> • A regeneration harvest is underway in Management Units (MUs) 20, 34, 36, and 37 (approximately 155 acres). Harvest will improve forest health and release regeneration of a more desirable understory. • Harvest is underway in MU 12 (approximately 140 acres). Notice to Proceed has been issued for timber harvesting in MUs 2 and 6 (combined; approximately 155 acres) and MU 23 (approximately 75 acres). Harvest prescriptions will improve forest health through overstory removal and release of advanced and/or desirable regeneration. • Notice of Intent to Award is prepared for MU 16. Pending review and acceptance of the agreement and compliance documentation, a Notice to Proceed will be issued.
Sustainability	Task Order 2024-14-01 has been executed with HDR Engineering, Inc. for the development phase of services for a solar energy project at the Water Services Center (WSC). Preliminary conceptual layout of the design was provided and will be revised. A permitting matrix has also been provided. Site survey and geotechnical evaluation is underway and will refine the concept design.
Internal Communications	No update.

Inform and Listen to Customers and Encourage Stewardship of our Systems	
Media Relations - Press and Social Media	<p>PRESS RELEASES: Capital Region Water Complies With New Lead and Copper Rule Requirements and Capital Region Water to Operate Backup Water Supply.</p> <p>SOCIAL MEDIA TOPICS: Facebook/Instagram: 2 FB/ 3 IG New Followers (TOTAL: 1,706 FB and 750 IG). Five (5) Posts; Highest Engaged Post: Boil Water Advisory (BWA) "BWA-Capital Street" (2,209 Reach, 1,424 Impressions, 3 Reactions, 1 Shares); Other topics: Boil Water Advisory, and Advanced Metering Infrastructure (AMI) project update.</p> <p>Nextdoor: Stats: 8,647 Total Members; 177 New members; Zero (0) Posts.</p> <p>*2024 Demographics: Most Active Age-range: 35-44; Gender Division: 63.4% Women / 36.6% Men; Locations; Harrisburg, Penbrook, Mechanicsburg, Camp Hill, Linglestown, and Steelton.</p>
Community Relations	<p>Community Outreach:</p> <ul style="list-style-type: none"> • Zero (0) community events. • One (1) facility tour for Penn State Harrisburg at the Water Services Center on 11/7/2024, reaching sixteen (16) community members. • One (1) community meeting: CRW Community Ambassadors meeting on 11/20/2024, reaching six (6) community members. • Delivered fourteen (14) sets of door-to-door notifications to alert customers to CRW projects, boil water conditions and lead risk mitigation efforts.
Public Communications	<p>WHAT'S ON TAP COMMUNICATION: November edition topics include: Protecting the sewer systems via leaf collection and \$25 credit available for meter replacement.</p>
Business Diversity	No update.

Administrative															
Risk Management	<p>Executive Summary:</p> <p>Total Claims: 69 Open: 15 Closed: 54</p> <p><u>Insurance Line Claim Count:</u></p> <table> <tr> <td>Auto:</td> <td>13</td> </tr> <tr> <td>General Liability:</td> <td>30</td> </tr> <tr> <td>Public Officials:</td> <td>2</td> </tr> <tr> <td>Property:</td> <td>1</td> </tr> <tr> <td>Workers Compensation:</td> <td>21</td> </tr> <tr> <td>Surety Claim:</td> <td>1</td> </tr> <tr> <td>CRW Recovery Non-Ins Interest</td> <td>1</td> </tr> </table>	Auto:	13	General Liability:	30	Public Officials:	2	Property:	1	Workers Compensation:	21	Surety Claim:	1	CRW Recovery Non-Ins Interest	1
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Property:	1														
Workers Compensation:	21														
Surety Claim:	1														
CRW Recovery Non-Ins Interest	1														

<p>Procurement</p>	<p>Recommend Board approval at the December Board meeting with IB to follow from Engineering: Ratification of Natural Gas Transaction Confirmation [REDACTED]</p>
<p>Information Technologies (IT)</p>	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>
<p>Office Management and Admin Professional Services and Construction</p>	<p>Incoming Correspondence Report: Refer to attached Incoming Correspondence Report for November 2024.</p> <p>Street/Sidewalk-Cut Permits: Five (5) Drinking Water and one (1) Wastewater permits were issued. Two (2) Drinking Water and four (4) Wastewater permits were successfully completed, inspected, and closed by the City of Harrisburg's Engineer.</p> <p>Fleet Management Acquisitions – Deliveries for Wastewater as of 12/13/2024:</p> <ul style="list-style-type: none"> • G-101 - 2023 Ford F-250 Super Duty XL Regular Cab 4X4 Truck [REDACTED] and Ancillary Items Upfit [REDACTED] through COSTARS. • G-103 - 2024 Ford F-150 XL Regular Cab 4X4 Truck [REDACTED] and Ancillary Items Upfit [REDACTED] through COSTARS. <p>Disposition of Vehicles and/or Equipment thru Municibid for Wastewater:</p> <ul style="list-style-type: none"> • G-06 - 2004 International Vactor. Rebid on Municibid. [REDACTED]

<p>Right-to-Know Requests</p>	<p>CRW has received and responded to one (2) Right-to-Know requests during the period 11/22/2024 through 12/13/2024. 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.</p> <p>OOR Training: Annual OOR Training scheduled for 11/12/2024 was postponed is rescheduled for 12/17/2024 at 10:00 a.m. by the Office of Open Records (OOR).</p> <p>RTK 2024-015 Beau Brown: Requesting records related to Tax Parcel 3-002-038-0000, which is also known as 1936 Swatara Street in Harrisburg City. I submitted a similar request to Harrisburg City in 2018, but it has become apparent that much of this information may have been part of the former Harrisburg Authority.</p> <p>LIEN ASSIGNMENT: (1) Lien Assignment Documentation: Please provide any contracts, agreements, or records regarding the sale or assignment of municipal liens, including the lien filed against Tax Parcel No. 13-002-038-0000, from the City of Harrisburg or Harrisburg Authority to Pun Collections V, LLC. This sale would likely have taken place at some point between 2004-2006. (2) Records of Communication: Provide any emails, memorandum, or other communications related to the assignment of municipal liens to Pun Collections V, LLC. (3) Policies on Lien Management and Revival: Provide any documentation outlining the policies and procedures for maintaining, reviving, or enforcing municipal liens that were previously held by the Harrisburg Authority or sold to third parties. (4) Financial Records: Provide records showing payments made to the City of Harrisburg or Harrisburg Authority by Pun Collections V, LLC in connection with the lien assignment or sale. (5) Ownership or Control over the Lien: Provide any records indicating whether Capital Region Water retains any ownership interest, control, or oversight of municipal liens sold to Pun Collections V, LLC.</p> <p>BILLING QUESTIONS: (1) Billing Records for Tax Parcel No. 13002028-2: (13-002-038-0000): Provide all billing records for water, sewer, and refuse services associated with Tax Parcel No. 13002028-2 for the period between 1985 and 2005. Include records of any invoices, payments, or notices sent to the parcel owner or occupant during this period. (2) Account Status for Tax Parcel No. 13002038-2: Provide documentation regarding whether the parcel was classified as "inactive," "vacant," or otherwise excluded from billing for water, sewer, or refuse services during the period in question. Include any internal notes or communications explaining why the account may not have been billed during specific years. (3) Verification of Water/Sewer Shutoff: Provide records indicating the date(s) when water and/or sewer service was disconnected for Tax Parcel No. 13002028-2, including work orders or field service logs documenting the disconnection. (4) Policies on Billing for Disconnected Properties: Provide any policies or procedures outlining whether charges for water, sewer, or refuse services are assessed against properties with disconnected or inactive utility services. (5) Records Supporting the Lien Amount: Provide documentation or calculations used to determine the lien amount for Tax Parcel No. 13002028-2 (12-002-038-0000). Specifically include: (a) A breakdown or charges for water, sewer, or refuse that resulted in a lien recorded under Docket 2000-MU-01384. and (b) Any assessments or penalties included in the lien total. (6) Communication Between City and Harrisburg Authority Regarding Billing: Provide any emails, letters, or internal memoranda between the City of Harrisburg and the Harrisburg Authority (now CRW) regarding billing practices or the lien filed against Tax Parcel No. 13002028-2. (7) Policy on Back-Billing or Retroactive Charges: Provide any policies or regulations regarding the assessment of back-billed or retroactive charges for water, sewer, or refuse services, particularly in cases where no prior bills were issued. Response due: 11/25/2024. Response provided on 11/21/2024 for 30-day extension until 12/27/2024. [REDACTED]</p>
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Ensure Financial Stability	
Reconciled Bank Account Balances	Provided separately to the Board.
Monthly Balance Sheets	[REDACTED]
Monthly Income Statements	[REDACTED]
AP Check Reconciliation Register	Provided separately to the Board.
Drinking Water Capital Improvement Projects	Provided separately to the Board.
Wastewater Capital Improvement Projects	Provided separately to the Board.
Stormwater Capital Improvement Projects	Provided separately to the Board.
Grant Management Report	[REDACTED]
Loan Summary Report	[REDACTED]

Ensure Revenues are Consistent with System Usage	
Water Shut-offs	There were 0 water shut-offs for non-payment and 18 service shut-off requests.
Repair/Replace Meters/MIUs/Batteries	Drinking Water Distribution staff replaced 1 water meters, 0 batteries and 0 MIU.
Reduce Wet Weather Impacts to Infrastructure, Community, and Receiving Waters	
Negotiate with PADEP/U.S. EPA/DOJ on Past and Future Practices	In coordination with the agencies, CRW has been granted a six-month extension on the submission of the revised Long Term Control Plan (LTCP). The new deadline is 6/30/2025.
Develop Necessary Planning for Implementation of Green Infrastructure	On 1/14/2025, CRW advertised for the Phase 5 GSI Project, and the Small Sewer Separation (creating more separate storm sewer sheds draining to Paxton Creek). Both projects will continue to fulfill our CSO control requirements and community greening efforts.
Joint Pollutant Reduction Plan - Collaborate with Suburban Partners on MS4	CRW is still awaiting guidance from PADEP on the requirements of the future Pollutant Reduction Planning. The MS4 Program Permit renewal does not include these requirements, and only includes requirements to meet the Minimum Control Measures (MCMs) for the program.
Obtain and Comply with Individual MS4 Permit	CRW will issue a Notice of Intent to PADEP and apply for a MS4 Program Permit renewal by 2/1/2025. The new five-permit cycle will start 8/1/2025 and will end 7/1/2030.

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 of December. The Advanced Wastewater Treatment Facility (AWTF) met all parameters of its new NPDES Permit for the month of December. Two Dry Weather Overflows were reported. Details are contained within the Wastewater Department Monthly Report for December.

Notice of Violations (NOVs)	There were no NOVs received by the Drinking Water department in December. There were no NOVs received by the Wastewater department in December.
Preventative Maintenance (PM)	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 December. The Wastewater department completed all regularly scheduled preventative maintenance in the month of December, and continued its semi-annual lubrication PMs for all equipment at the Advanced Wastewater Treatment Facility (AWTF).
CCTV (Closed Circuit TV)	Field Operations performed CCTV assessment of 5,887 feet (1.11 miles) of pipe during the month of December and flushed 4,832 feet (0.92 miles) of sewer pipe.
Incident Response	Wastewater responded to five backup and overflow calls from residents during the month of December. CRW was responsible for none.
Geographic Information System (GIS)	<ul style="list-style-type: none"> • Five (5) Pennsylvania One Call tickets were completed with a PDF file or mark-up sent to the requestor. • Lead Service Line Inventory (LSLI) project continues. This includes working with multiple internal departments and the U.S. EPA and its partners. • Nine (9) updated GIS work orders were closed in Cityworks. • Review Service Disconnect Cards at the Water Services Center to aid in processing undeliverable service line material letters required by PADEP.
Cityworks	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>
Asset Management	<p>Roadmap activity report:</p> <p>Roadmap Implementation Groups (RIG)</p> <p>Decision Making Capital Planning RIG</p> <ul style="list-style-type: none"> • Task 2.1 Funding Strategy. Task complete. • Task 2.2 Budget Processing Workflow. Task complete. • Task 2.3 AWTF Rehabilitation and Renewal Process. Received recommendations on 12/18/2024, internal review in progress. Met with consulting team on 1/10/2025 to address feedback from 12/18/2024 meeting. • Group rechartering meeting held 1/6/2025. Draft review in progress. <p>Information System Data Management RIG</p> <ul style="list-style-type: none"> • Task 3.1 Contractor Provided Updates to Asset Inventory. Deliverable of recommendations due 1/10/2025. Internal review to follow. • Task 3.2 Integrations and Interface. Task complete. • Group rechartering meeting scheduled for 1/15/2025.

<p>Asset Management (continued)</p>	<p>Operations and Maintenance RIG</p> <ul style="list-style-type: none"> • Task 4.1 Distribution Asset Management Plan (DAMP). Received draft Distribution 20-Year CIP Development Process technical memo on 12/20/2024. Internal feedback due 1/17/2025. • Task 4.2 Asset Class Plans. Task completed. • Task 4.3 Collections Job Plans. Task completed. Received final job plans for "preventative" work on 12/19/2024. Internal meeting scheduled for 1/14/2025 to organize "corrective" work plan creation. • Task 4.4 Problem/Cause/Remedy (PCR) Codes. Task completed. • Task 6.1 Water Service Center (WSC) Asset Inventory and Visual Condition Assessment. Completed. • Group rechartering meeting held 1/6/2025. Draft review in progress. <p>Organizational Framework RIG</p> <ul style="list-style-type: none"> • Task 5.1 Collections Asset Management Plan (CAMP) Levels of Service (LOS) and Performance. Task completed. • Task 5.2 Roles and Responsibilities. Completed. • Task 5.3 Allocation of Resources. Completed. • Task 5.4 Document and Knowledge Management final meeting scheduled for 1/16/2025. • Task 5.5 Program Evaluation. Task completed. • Task 5.6 AM Roadmap Update. Completed. • Task 5.7 Employee Development and Training. Review of five draft training modules for vertical asset condition in progress. • Group rechartering meeting held 1/6/2025. Draft review in progress. <p>InfoAsset Planner Year 2 Implementation Activity Report:</p> <ul style="list-style-type: none"> • Review in progress of the draft Distribution 20-Year CIP Development Process technical memo received 12/20/2024. <p>Other activities:</p> <ul style="list-style-type: none"> • Work continues to barcode assets at the Water Services Center. As of 12/31/2024, 46% of all assets have been labeled. • Preparatory steps completed for roll out of the 2025 American Water Works Association (AWWA) Benchmarking Survey; created 2025 repository and downloaded resource documents.
<p>Development Review Summary</p>	<p>For details, see attached Development Stormwater Management Review Summary spreadsheet for January.</p>

Undertake Capital Improvement Projects - Refer to attached Capital Improvement Projects Report	
Professional & Contractor Services	<p>Recommend Board approval of the following Resolutions, Task Orders, Change Orders and Agreements:</p> <p>Drinking Water:</p> <ul style="list-style-type: none"> • Task Order 2025-01-01: Engineering Services for AM Roadmap FY25 Year 4 Activities [REDACTED] <p>Wastewater:</p> <ul style="list-style-type: none"> • Ratification of Task Order 2024-18-01: Engineering Services for Total Residual Chlorine (TRC) Dilution Study [REDACTED] • Task Order 2023-08-04 - Amendment No. 3: Engineering Services for CBH2OPP Water Quality Services [REDACTED] • Task Order 2025-03-01: Engineering Services for 2025 IDIQ Management [REDACTED] • 2023 Sewer System Improvements Project (Trenchless) – Change Order No.1 [REDACTED] • AWTF Energy Recovery Improvements Project – Change Order No. 2 (General) [REDACTED] • Arsenal Boulevard Area Sewer Improvements Project – Change Order No. 2 [REDACTED] • Front Street Interceptor Rehabilitation Phase 2 Project – Change Order No. 3 [REDACTED] • AWTF Primary Clarifier Rehabilitation Project - Recommendation to Reject Bids <p>Stormwater:</p> <ul style="list-style-type: none"> • Resolution 2025-001: Contribution Agreement Regarding I-83 Expansion Project [REDACTED]
Stormwater O&M Agreements	Recommend Board approval of the following: None.
AWTF Primary Clarifiers Improvements	The project was readvertised and bids were opened on 12/8/2024. Refer to the Board agenda for recommendation.
AWTF Energy Recovery Improvements	Site work continues for building foundations and equipment pads.

Undertake Renewal and Replacement Projects	
2024 Water System Improvements	The contractor is testing new water main on Swatara Street between 13th and Crescent Streets, followed by service line reconnections.
Cameron Street Water Main - Phase 4	The project is complete. A final compensating change order will be presented to the Board in February.
2023 Sewer System Improvements (Trenchless)	All work is complete. A final change order must be processed before the project can be closed out.
2024 Sewer System Improvements	The contractor will begin installation of storm inlets on 18th Street until precast manhole structures are delivered.
Arsenal Boulevard Sewer Improvements	New pipe installation should be complete by the end of January, followed by cured in place pipe (CIPP) liner installation.
Front Street Interceptor Rehabilitation - Phase 2	The project is complete. Refer to the Board agenda for recommendation of a final compensating change order.
Water Facility Maintenance	The Water Maintenance group completed various repairs throughout the Water Treatment Facility, pumping stations, and at the Administrative Offices throughout the month. A narrative is provided in the Drinking Water Department Monthly Report for December.
Wastewater Facility Maintenance	The Wastewater Maintenance group completed various repairs throughout the Advanced Wastewater Treatment Facility (AWTF), pumping stations, and at the Administrative Office throughout the month. A narrative is provided in the Wastewater Department Monthly Report for December.
Sinkhole Program	Three sinkholes were investigated by CRW in the month of December. None were due to failure of any CRW assets.
Inlet Cleaning	The Street Sweeping crew completed 20 inlet inspections in December due to being short-staffed for the entire month. Field Construction repaired three stormwater inlets, performed a total replacement of one, and replaced 150 feet of failed sewer pipe on Burma Street.

Operate as an Efficient, Sustainable and Resilient Water Utility	
DeHart Property Stewardship	In accordance with the DeHart Property Forest Management Plan: <ul style="list-style-type: none"> • A regeneration harvest is underway in Management Units (MUs) 20, 34, 36, and 37 (approximately 155 acres). Harvest will improve forest health and release regeneration of a more desirable understory. • Harvest is underway in MU 12 (approximately 140 acres). Notice to Proceed has been issued for timber harvesting in MUs 2 and 6 (combined; approximately 155 acres) and MU 23 (approximately 75 acres). Harvest prescriptions will improve forest health through overstory removal and release of advanced and/or desirable regeneration. • Notice to Proceed was issued for MU 16.
Sustainability	No update.
Internal Communications	The Q4 Daily Flow Newsletter for 2024 was distributed on 1/13/2025. The Q4 All Employee Meeting has been rescheduled to 2/11/2025.

Inform and Listen to Customers and Encourage Stewardship of our Systems	
Media Relations - Press and Social Media	<p>PRESS RELEASES: N/A</p> <p>SOCIAL MEDIA TOPICS: Facebook/Instagram: 1 FB/ 1 IG New Followers (TOTAL: 1,707 FB and 751 IG). Three (3) Posts; Topics: AMI \$25 Credit, Customer Service Center (CSC) Closed for Holiday Event, and Holiday break office closure.</p> <p>Nextdoor: Stats: 8,478 Total Members; 127 New members; Zero (0) Posts.</p> <p>*2024 Demographics: Most Active Age-range: 35-44; Gender Division: 63.4% Women / 36.6% Men; Locations; Harrisburg, Penbrook, Mechanicsburg, Camp Hill, Linglestown, and Steelton.</p>
Community Relations	<p>Community Outreach:</p> <ul style="list-style-type: none"> • One (1) community event: Volunteer Appreciation Luncheon, reaching eight (8) community members. • Zero (0) facility tours. • Zero (0) community meetings. • Delivered five (5) sets of door-to-door notifications to alert customers to CRW projects, fats, oils and grease (FOG) concerns and lead risk mitigation efforts, reaching more than 300 customers.
Public Communications	WHAT'S ON TAP COMMUNICATION: December edition topics include: Protecting your pipes from fats oils and grease (FOG) and freezing.
Business Diversity	No update.

<p>Office Management and Admin Professional Services and Construction</p>	<p>Incoming Correspondence Report: Refer to attached Incoming Correspondence Report for December 2024.</p> <p>Street/Sidewalk-Cut Permits: Eight (8) Drinking Water and one (1) Wastewater permits were issued.</p> <p>Fleet Management Acquisitions - Deliveries for Wastewater as of 12/13/2024:</p> <ul style="list-style-type: none"> • G-101 - 2023 Ford F-250 Super Duty XL Regular Cab 4X4 Truck from Hoffman Ford and Ancillary Items Upfit from U.S. Municipal through COSTARS. • G-103 - 2024 Ford F-150 XL Regular Cab 4X4 Truck from Hoffman Ford and Ancillary Items Upfit from U.S. Municipal through COSTARS.
<p>Right-to-Know Requests</p>	<p>CRW has received and responded to one (1) Right-to-Know requests during the period 12/13/2024 through 1/15/2025. 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.</p> <p>OOR Training: Attended Annual OOR Training on 12/17/2024 by the Office of Open Records (OOR).</p> <p>RTK 2024-015 Beau Brown: Requesting records related to Tax Parcel 3-002-038-0000, which is also known as 1936 Swatara Street in Harrisburg City. I submitted a similar request to Harrisburg City in 2018, but it has become apparent that much of this information may have been part of the former Harrisburg Authority.</p> <p>LIEN ASSIGNMENT: (1) Lien Assignment Documentation: Please provide any contracts, agreements, or records regarding the sale or assignment of municipal liens, including the lien filed against Tax Parcel No. 13-002-038-0000, from the City of Harrisburg or Harrisburg Authority to Pun Collections V, LLC. This sale would likely have taken place at some point between 2004-2006. (2) Records of Communication: Provide any emails, memorandum, or other communications related to the assignment of municipal liens to Pun Collections V, LLC. (3) Policies on Lien Management and Revival: Provide any documentation outlining the policies and procedures for maintaining, reviving, or enforcing municipal liens that were previously held by the Harrisburg Authority or sold to third parties. (4) Financial Records: Provide records showing payments made to the City of Harrisburg or Harrisburg Authority by Pun Collections V, LLC in connection with the lien assignment or sale. (5) Ownership or Control over the Lien: Provide any records indicating whether Capital Region Water retains any ownership interest, control, or oversight of municipal liens sold to Pun Collections V, LLC.</p>
	<p>BILLING QUESTIONS: (1) Billing Records for Tax Parcel No. 13002028-2: (13-002-038-0000): Provide all billing records for water, sewer, and refuse services associated with Tax Parcel No. 13002028-2 for the period between 1985 and 2005. Include records of any invoices, payments, or notices sent to the parcel owner or occupant during this period. (2) Account Status for Tax Parcel No. 13002038-2: Provide documentation regarding whether the parcel was classified as "inactive," "vacant," or otherwise excluded from billing for water, sewer, or refuse services during the period in question. Include any internal notes or communications explaining why the account may not have been billed during specific years. (3) Verification of Water/Sewer Shutoff: Provide records indicating the date(s) when water and/or sewer service was disconnected for Tax Parcel No. 13002028-2, including work orders or field service logs documenting the disconnection. (4) Policies on Billing for Disconnected Properties: Provide any policies or procedures outlining whether charges for water, sewer, or refuse services are assessed against properties with disconnected or inactive utility services. (5) Records Supporting the Lien Amount: Provide documentation or calculations used to determine the lien amount for Tax Parcel No. 13002028-2 (12-002-038-0000). Specifically include: (a) A breakdown or charges for water, sewer, or refuse that resulted in a lien recorded under Docket 2000-MU-01384. and (b) Any assessments or penalties included in the lien total. (6) Communication Between City and Harrisburg Authority Regarding Billing: Provide any emails, letters, or internal memoranda between the City of Harrisburg and the Harrisburg Authority (now CRW) regarding billing practices or the lien filed against Tax Parcel No. 13002028-2. (7) Policy on Back-Billing or Retroactive Charges: Provide any policies or regulations regarding the assessment of back-billed or retroactive charges for water, sewer, or refuse services, particularly in cases where no prior bills were issued. Response due: 11/25/2024. Response provided on 11/21/2024 for 30-day extension until 12/27/2024. Final Response provided on 12/24/2024.</p>



CAPITAL REGION[™]

WATER

Drinking Water





CAPITAL REGION
WATER

**DRINKING WATER DEPARTMENT
MONTHLY REPORT**



New Sodium Permanganate System – Front Street Pump Station

November 2024

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

Plant Operations

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

The DeHart water source was in service for 30 days and the Susquehanna River water source for nine days. The hydroelectric turbine generator was in service for zero days during the month of November.

Specific water quality results are summarized in Exhibit A. As shown in Exhibit B, a total of 193.072 million gallons (MG), averaging 6.436 million gallons per day (MGD), was withdrawn from the DeHart and Susquehanna water supply sources for treatment. A total of 186.448 MG, averaging 6.215 MGD, of finished drinking water was pumped to the distribution system.

The DeHart Watershed had below average rainfall in November (Exhibit C) and the DeHart Reservoir water level decreased (Exhibit D). An estimated 222.98 MG of water was released from the DeHart Reservoir to Clark Creek, averaging 7.43 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 55 preventive and four corrective maintenance work orders for all water treatment plant equipment, pumping stations, and fleet vehicles during the month of November.

- The DeHart Dam watershed was patrolled daily.
- The application of the Macropoxy 5500LT resurfacing of the Basin decking/walkways was completed.
- The CL2 Room upgrades are still ongoing.
- Installation of conduit and wiring for the Control Room Chemical Towers removal is nearing completion.
- The installation of an additional PLC SCADA Pack was installed and wired in control panel 16A for further expansion of the control room upgrades.
- The hydro turbine and motor were removed for service.
- Repaired two gas heaters at Union Square Fire Pump Station and Reservoir Park Pumping Station.
- Installed new bearings on 805 Soda Ash Feeder.
- Continued with the disassembly of approximately 2,000 used water service meters for brass and battery recycling and disposal.

- Replaced the tankless hot water unit at Front Street Pumping Station.
- Serviced the hot water heating unit at the Water Service Center Maintenance Building.
- Continued landscaping duties (leaf removal) at the DeHart Dam facility, 3003 North Front Street Administrative Offices, Water Service Center, Front Street, Reservoir Park, and Union Square pumping stations.

Distribution

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

- Repaired four leaking services totaling 262,800 gallons of unaccountable water – 822 Hilltop Road, 2346 Kensington Street, 676 Schuylkill Street, and 670 Schuylkill Street.
- Repaired two water main breaks totaling 955,845 gallons of unaccountable water – 1200 block of Sycamore Street and 1111 Capital Street.
- Completed 169 work orders.
- Completed 431 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:

- Ensured collection of monthly regulatory samples for Total Coliform and E. Coli as well as all required River Run sampling. We did have one positive Total Coliform sample, but it was negative for E. Coli. The three check samples were all negative for Total Coliform and E. Coli. We are still awaiting the test results for the River Run samples that were collected on November 29, 2024.
- Received no taste and odor complaints.



CAPITAL REGION™

WATER

Drinking Water Exhibits



EXHIBIT A Water Quality Analysis - 2024

PARAMETERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average	MCL Limits/Goals
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	1.94	1.98	1.97	2.00	1.97	1.99	1.98	1.95	1.94	1.96	1.94		1.97	0.2 - 4.0
Distribution System	1.36	1.38	1.34	1.36	1.27	1.23	1.20	1.19	1.02	1.13	1.21		1.24	>0.20
Turbidity, NTU														
Influent from DeHart	1.01	0.93	0.81	0.92	1.04	1.12	1.18	1.19	0.78	1.16	1.41		1.05	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.36		6.36	NA
Filter Plant Effluent	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04		0.03	0.15
pH, Std Units														
Influent from DeHart	6.2	6.2	6.5	6.5	6.1	5.9	5.7	5.6	5.8	6.0	6.1		6.06	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.9		NA	NA
Filter Plant Effluent	7.6	7.6	7.4	7.5	7.5	7.5	7.4	7.5	7.5	7.6	7.6		7.52	7.2 - 7.8
Distribution System	7.4	8.0	7.4	7.5	7.9	7.8	7.5	7.4	7.4	7.5	7.5		7.56	7.0 - 8.0
Total Alkalinity, mg/L as CaCO3														
Influent DeHart	5	5	5	5	5	5	5	5	5	5	5		5.00	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	72		72.00	NA
Filter Plant Effluent	18	18	16	16	18	21	22	25	30	26	29		21.72	NA
Distribution System	17	21	19	17	16	22	24	26	32	27	30		22.72	>15
Temperature, degrees C														
Influent from DeHart	7.7	7.2	8.8	10.7	13.1	15.1	16.4	17.9	18.8	17.2	15.2		13.46	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.0		14.00	NA
Filter Plant Effluent	7.9	7.4	8.7	10.4	12.7	14.0	14.9	16.7	18.2	17.1	16.2		13.10	NA
Distribution System	13.9	15.4	12.2	16.2	19.1	23.5	23.5	22.4	22.0	20.5	17.3		18.72	NA
Fluoride, mg/L														
Filter Plant Effluent	0.82	0.72	0.73	0.70	0.70	0.69	0.62	0.65	0.72	0.72	0.74		0.71	2
Aluminum, mg/L														
Filter Plant Effluent	0.02	0.11	0.02	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01		0.02	0.2*
Iron, mg/L														
Influent from DeHart	0.09	0.07	0.07	0.08	0.14	0.18	0.20	0.35	0.39	0.47	0.30		0.21	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.25		0.25	NA
Filter Plant Effluent	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02		0.01	0.3*
Distribution System	0.00	0.05	0.03	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.02		0.01	0.3*
Total Dissolved Solids, mg/L														
Influent from DeHart	16	16	16	15	16	16	16	16	17	16	16		16.02	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	226		225.69	NA
Filter Plant Effluent	42	43	39	41	43	48	51	53	58	52	82		50.29	500*
Distribution System	48	45	50	44	47	53	58	65	69	69	101		58.93	500*
Total Hardness, mg/L														
Influent from DeHart	8	8	8	8	8	8	8	8	8	8	8		8.00	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	153		153.00	NA
Filter Plant Effluent	8	8	8	8	8	8	8	9	10	17	41		12.13	NA
Distribution System	5	7	5	3	2	3	1	2	5	11	29		6.63	NA
Orthophosphate, mg/L														
Filter Plant Effluent	1.24	1.22	1.24	1.27	1.30	1.32	1.32	1.24	1.20	1.22	1.21		1.25	0.7 - 1.3*
Distribution System	1.24	1.25	1.23	1.28	1.30	1.35	1.26	1.22	1.20	1.11	1.13		1.23	>1.0
**Total Trihalomethanes, ug/L														
Distribution System	38.5	NA	NA	39.6	NA	NA	55.4	NA	NA	46.3	***		45.0	80.0
**Total Haloacetic Acids, ug/L														
Distribution System	33.4	NA	NA	45.8	NA	NA	53.6	NA	NA	32.4	***		41.3	60.0
Total Organic Carbon, mg/L														
Influent from DeHart	2.30	NA	NA	2.40	NA	NA	2.10	NA	NA	2.00	NA		2.20	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***		#DIV/0!	NA
Filter Plant Effluent	1.30	NA	NA	1.10	NA	NA	1.10	NA	NA	1.20	***		1.18	NA
Average Filter Run, Hours	114	112	111	114	113	112	126	143	144	144	144		125.15	NA

*** Not Available at Time of Report

* Values are related to DEP Secondary MCL

** Running Annual Quarterly Average

EXHIBIT B

Water Production Data - 2024

Month	DeHart Withdrawal		River Withdrawal		Total Withdrawal		Plant Influent		Process Water		Finished Water	
	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	236.324	7.623	0.000	0.000	236.324	7.623	235.878	7.609	5.464	0.176	222.400	7.174
February	220.950	7.619	0.000	0.000	220.950	7.619	220.320	7.597	3.690	0.127	208.444	7.188
March	231.221	7.459	0.000	0.000	231.221	7.459	220.320	7.597	4.969	0.160	217.840	7.027
April	222.024	7.401	0.000	0.000	222.024	7.401	213.008	7.100	5.729	0.191	207.279	6.976
May	235.352	7.592	0.000	0.000	235.352	7.592	226.720	7.326	3.380	0.109	223.340	7.200
June	240.947	8.032	0.000	0.000	240.947	8.032	232.880	7.760	2.770	0.092	230.110	7.670
July	256.460	8.273	0.000	0.000	256.460	8.273	249.850	8.060	2.330	0.075	247.520	7.980
August	242.364	7.818	0.000	0.000	242.364	7.818	236.700	7.635	1.590	0.051	235.110	7.580
September	222.025	7.401	0.000	0.000	222.025	7.401	215.420	7.181	0.980	0.033	214.440	7.150
October	209.821	6.768	0.000	0.000	209.821	6.768	205.020	6.614	1.080	0.035	203.940	6.579
November	159.448	5.315	33.624	1.121	193.072	6.436	189.172	6.306	2.724	0.091	186.448	6.215
December												
Total	2476.936		33.624		2510.560		2445.288		34.706		2396.871	
Average	225.176	7.391	3.057	0.102	228.233	7.493	222.299	7.344	3.155	0.104	217.897	7.158

Peak Day Water Use
Minimum Day Water Use

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

EXHIBIT C

Rainfall at the DeHart Reservoir - 2024
(inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
2024 Total	11.69	2.14	3.92	4.55	7.14	2.15	0.68	6.67	2.81	0.74	1.94		44.43
Daily Average	0.377	0.074	0.126	0.152	0.320	0.071	0.022	0.370	0.180	0.060	0.100		1.852
Ten Year Average	2.992	2.488	3.125	3.713	4.54	4.38	5.842	3.843	4.82	3.489	2.447	3.149	44.828
2023 Total	2.70	1.09	2.93	3.71	2.63	3.85	7.85	2.66	5.00	2.07	2.50	4.71	41.70

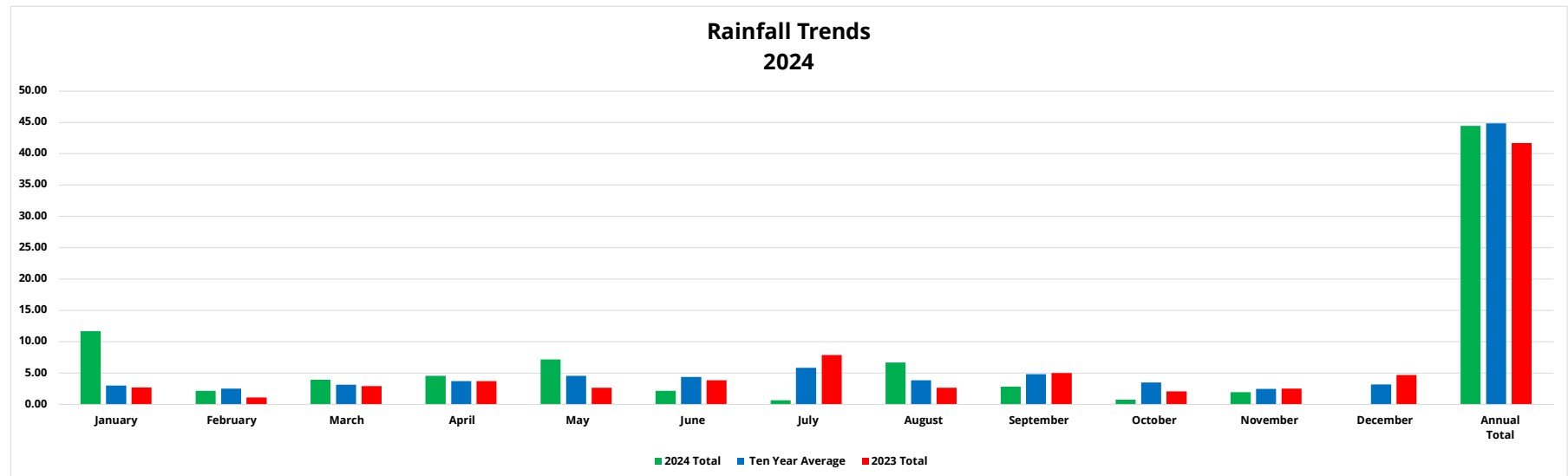


EXHIBIT D

Water Level at the DeHart Reservoir - 2024
(Inches from Spillway)

Date	January	February	March	April	May	June	July	August	September	October	November	December
2024 AVG	1.5	3.1	2.8	2.3	1.2	-9.4	-27.0	-36.0	-54.8	-76.5	-92.0	
Ten Year AVG	-39.2	-25.5	-29.6	-8.1	-2.2	-3.9	-9.1	-20.2	-28.4	-41.0	-47.0	-44.3
2023 AVG	-162.9	-58.6	-98.7	1.1	1.8	-10.0	-20.1	-32.3	-49.3	-55.9	-67.1	-48.2

DeHart Reservoir Water Level Trends
2024

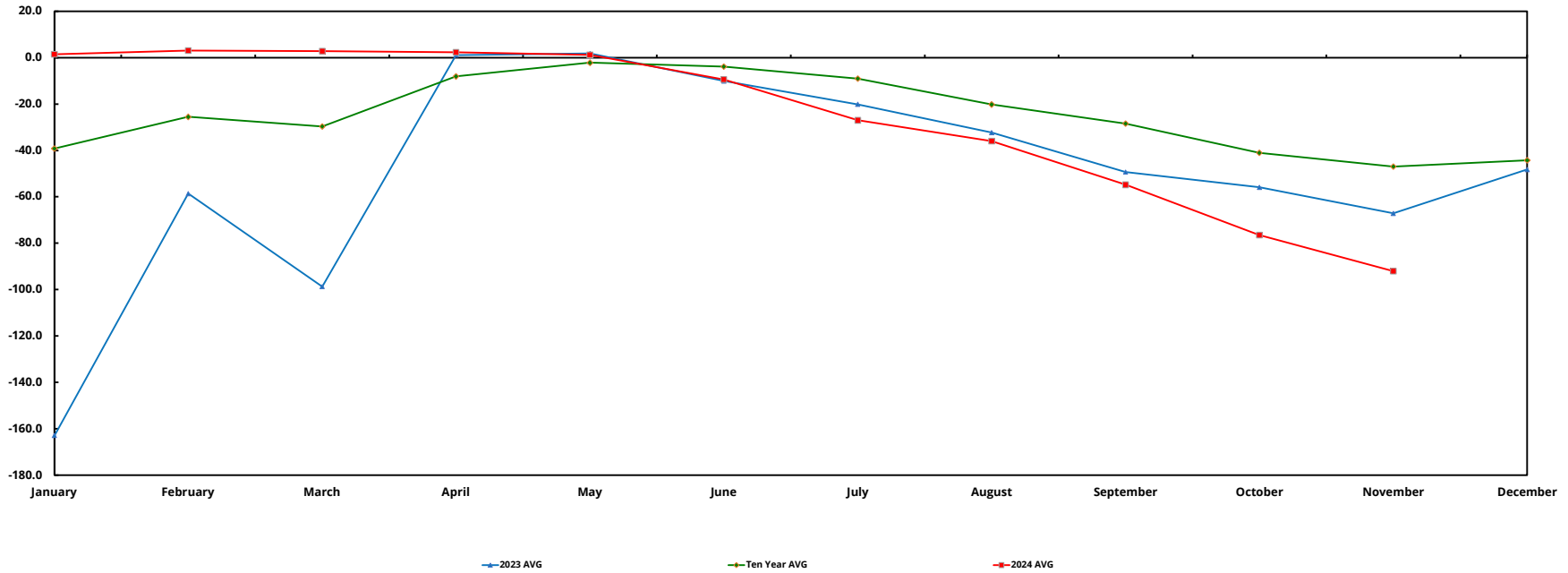


EXHIBIT E

Daily Conservation Release - 2024

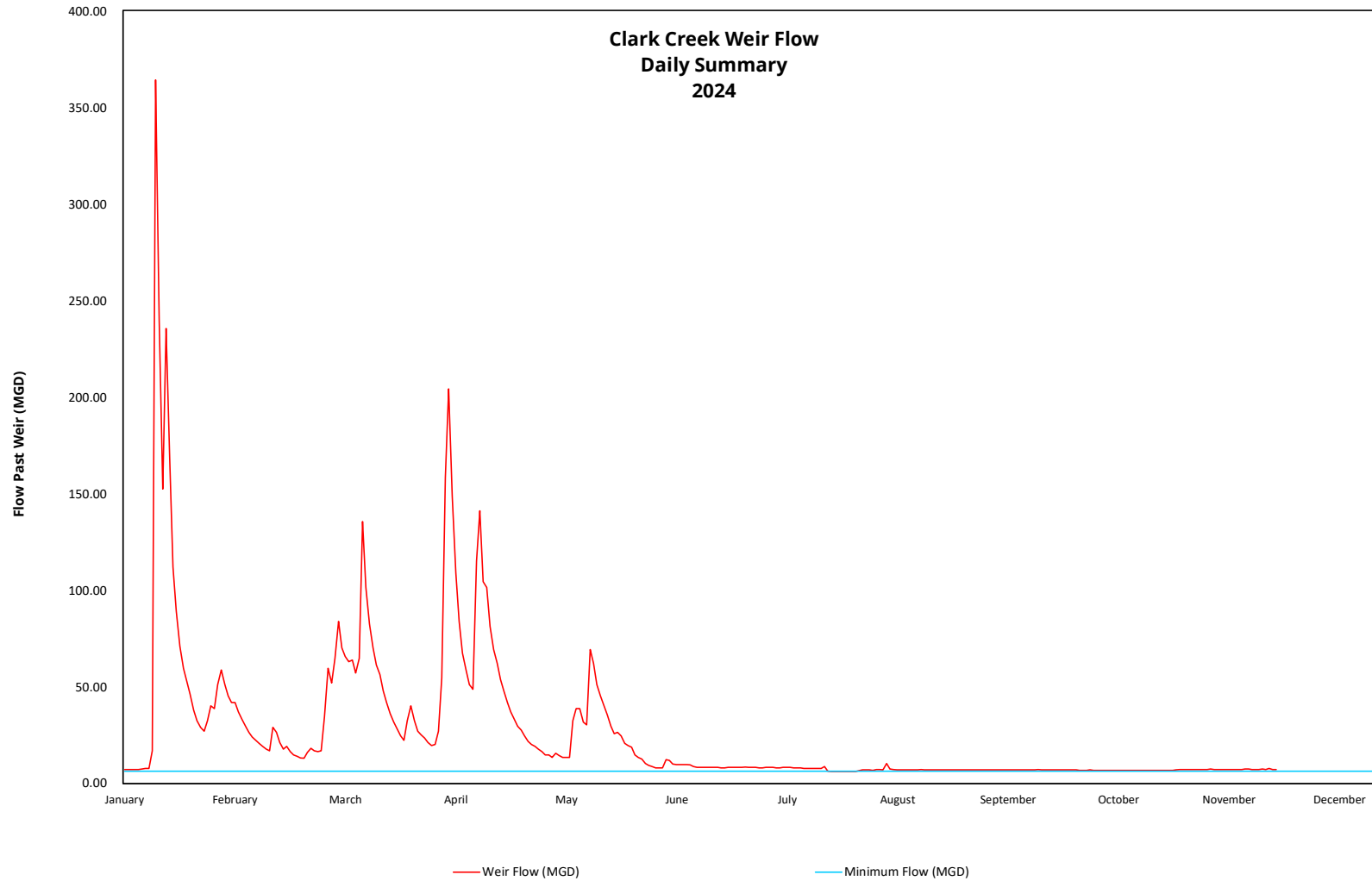




EXHIBIT F
Utility Usage - 2024

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Water Services Center														
Electric Transmission														
Total, kWh	201,600	138,600	162,000	133,200	131,400	149,400	147,600	149,400					151,650	1,213,200
Cost, Dollars	\$12,309.05	\$8,548.76	\$9,143.80	\$8,515.14	\$8,380.63	\$9,589.01	\$9,325.26	\$9,019.71					\$9,353.92	\$74,831.36
Electric Generation														
Total, kWh	201,600	138,600	162,000	133,200	131,400	149,400	147,600	149,400					151,650	1,213,200
Cost, Dollars	\$1,103.71	\$1,100.96	\$1,091.10	\$888.64	\$1,089.43	\$1,192.43	\$1,191.83	\$1,211.54					\$1,108.71	\$8,869.64
Natural Gas														
Total, Cu Ft	6,335	10,586	10,425	5,064	6,331	6,073	2,101	252		321			4,874	48,735
Cost, Dollars	\$9,791.01	\$9,595.00	\$9,102.83	\$4,757.03	\$5,335.34	\$5,025.62	\$1,888.99	\$355.64		\$405.40			\$4,824.13	\$48,241.25
Sewer														
Total, Gal	6,830,000	6,290,000	7,290,000	6,920,000	7,310,000	9,420,000	6,750,000	6,140,000	5,690,000	5,480,000			6,812,000	68,120,000
Cost, Dollars	\$68,163.40	\$62,275.20	\$72,754.20	\$69,061.60	\$72,953.80	\$94,011.60	\$67,365.00	\$61,277.20	\$56,786.20	\$54,690.40			\$67,933.86	\$679,338.60
Refuse														
Cost, Dollars	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$1,018.70	\$509.60	\$509.60	\$509.60		\$555.88	\$6,114.70
Reservoir Park Pump Station														
Electric Transmission														
Total, kWh	91,200	87,200	84,800	74,800	78,000	76,400	92,000	86,400	92,000				84,480	844,800
Cost, Dollars	\$3,909.19	\$3,655.05	\$3,466.91	\$3,085.64	\$2,904.94	\$2,840.96	\$2,989.80	\$3,016.50	\$3,466.73				\$3,275.66	\$32,611.38
Electric Generation														
Total, kWh	91,200	87,200	84,800	74,800	78,000	76,400	92,000	86,400	92,000				84,480	844,800
Cost, Dollars	\$1,489.62	\$1,477.60	\$1,365.43	\$1,416.68	\$1,354.23	\$1,285.47	\$2,682.87	\$1,355.73	\$1,343.42				\$1,509.97	\$15,099.74
Natural Gas														
Total, Cu Ft	700	777	794	169	0	0	0	0	0	41			248	2,481
Cost, Dollars	\$637.43	\$746.12	\$710.45	\$196.34	\$28.72	\$28.72	\$28.72	\$28.72	\$57.44	\$64.55			\$252.72	\$2,527.21
Susquehanna River Pump Station														
Electric Transmission														
Total, kWh	1,200	1,200	1,200	600	600	1,200	1,200	1,200	1,200	1,200			1,080	10,800
Cost, Dollars	\$63.60	\$57.10	\$75.36	\$69.40	\$47.43	\$74.50	\$48.95	\$52.76	\$72.86	\$70.04			\$63.20	\$632.00
Electric Generation														
Total, kWh	1,200	1,200	1,200	600	600	1,200	1,200	1,200	1,200	1,200			1,080	12,000
Cost, Dollars	\$73.18	\$73.27	\$81.07	\$102.27	\$73.04	\$76.31	\$80.06	\$76.21	\$72.30	\$208.74			\$91.65	\$916.45
Natural Gas														
Total, Cu Ft	644	496	583	136	14	0	0	0	2	28			190	1,903
Cost, Dollars	\$586.53	\$479.51	\$529.54	\$154.13	\$40.14	\$28.72	\$28.72	\$28.72	\$30.35	\$53.58			\$195.99	\$1,959.94
Union Square Booster Station														
Electric Transmission														
Total, kWh	2,694	2,551	2,257	707	377	583	546	452	320				1,165	10,487
Cost, Dollars	\$147.60	\$158.85	\$119.83	\$59.00	\$49.34	\$50.86	\$46.33	\$52.62	\$44.32				\$80.97	\$728.75
Electric Generation														
Total, kWh	2,694	2,551	2,257	707	377	583	546	452	320				1,114	11,135
Cost, Dollars	\$97.29	\$104.82	\$99.96	\$87.21	\$82.13	\$86.26	\$74.50	\$70.39	\$77.72				\$86.26	\$862.64
DeHart Facilities														
Electric Transmission														
Total, kWh	3,007	2,144	2,367	1,726	1,180	1,180	2,335	2,720	2,166				2,069	20,692
Cost, Dollars	\$160.80	\$123.89	\$133.47	\$119.40	\$111.11	\$91.49	\$165.25	\$170.31	\$137.08				\$120.81	\$1,335.61
Electric Generation														
Total, kWh	3,007	2,144	2,367	1,726	1,180	2,335	2,724	2,166	1,867				1,743	21,259
Cost, Dollars	\$95.90	\$92.59	\$66.46	\$91.65	\$80.81	\$112.73	\$100.91	\$95.22	\$85.88				\$85.33	\$907.48
Fuel Oil														
Total, Gals.	0	1,727	0	0	245	0	0	0	0	0			197	1,972
Cost, Dollars	\$0.00	\$6,767.33	\$0.00	\$0.00	\$719.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$748.72	\$7,487.19
City Island Heat Trace														
Electric Transmission														
Total, kWh	136	149	0	0	0	0	0	0	0	0			29	285
Cost, Dollars	\$3.88	\$7.90	\$0.00	\$0.00	\$1.20	\$1.99	(\$2.75)	(\$3.01)	\$0.77	\$1.11			\$1.11	\$11.09
Electric Generation														
Total, kWh	136	149	0	0	0	0	0	0	0	0			32	285
Cost, Dollars	\$61.97	\$62.01	\$61.94	\$61.69	\$61.69	\$61.62	\$61.49	\$61.49	\$61.46				\$61.71	\$555.36
Expenditures YTD														
													\$90,354	\$883,028

** Not available at time report was developed

Total Transmission	\$110,148
Total Generation	\$27,211
Total Refuse	\$6,115
Total Gas	\$52,728
Total Sewer	\$679,339
Total Fuel Oil	\$7,487
Total Utilities	\$876,914

Exhibit G

Hydro-Turbine Generator Performance - 2024

Month	Kilowatt-hour (KWH)	Anticipated Savings *
January	16,300	\$2,412
February	57,170	\$8,461
March	4,270	\$632
April	58,360	\$8,637
May	79,750	\$11,803
June	52,430	\$7,760
July	42,920	\$6,352
August	44,290	\$6,555
September	45,810	\$6,780
October	0	\$0
November	0	\$0
December		
Average	36,482	\$5,399
Year to Date	401,300	\$59,392

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

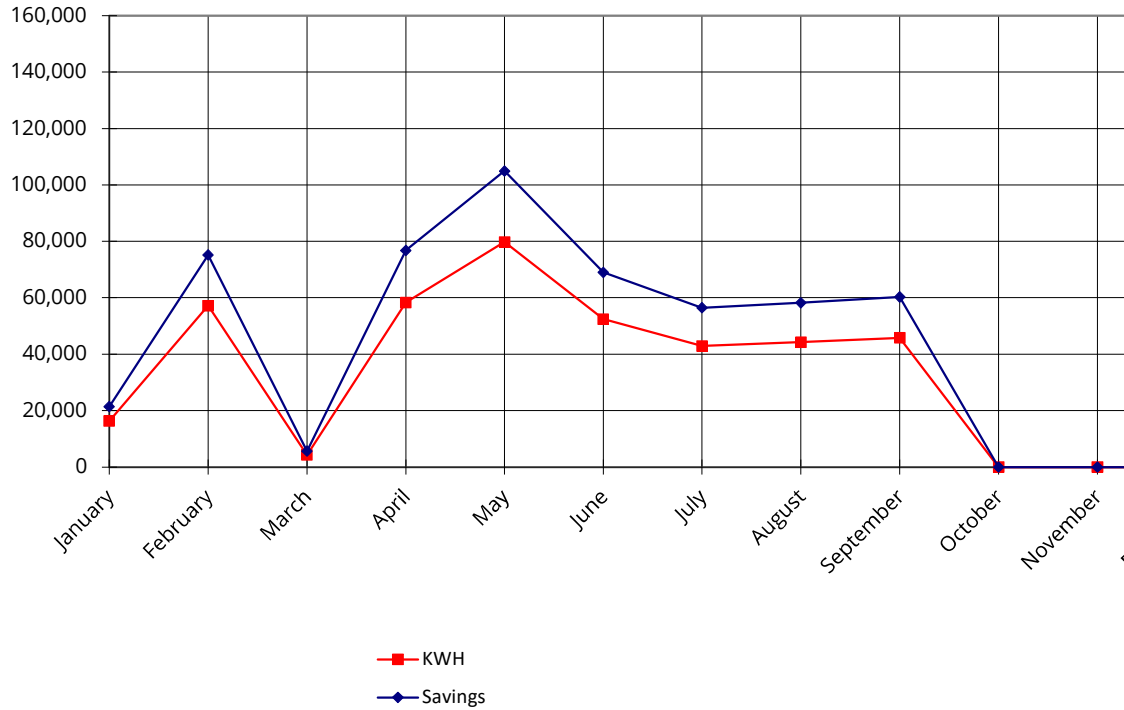


EXHIBIT H
Treatment Chemical Usage - 2024

Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Chlorine														
Total Lbs.	6,169	5,780	5,912	5,660	6,597	6,366	7,572	6,845	6,284	5,784	5,447		6,220	68,416
Average, Chlorine Lbs./Day	199	199	191	189	213	212	244	220	209	187	182		204.1	
Average, Chlorine Dose, mg/L	3.1	3.2	3.1	3.0	3.3	3.1	3.5	3.5	3.4	3.3			3.3	
Chlorine, Cost, \$/Lbs.	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	1.6	
Chlorine Total Cost, Dollars	\$10,111	\$9,473	\$9,690	\$9,277	\$10,812	\$10,434	\$12,411	\$11,219	\$10,299	\$9,480	\$8,928	\$0	\$9,344.49	\$112,133.82
Alum 48.5%														
Total Lbs.	34,165	33,986	35,289	32,279	30,282	31,041	32,869	31,190	16,929	24,074	25,464		29,779	327,568
Average Alum, Lbs./Day	1,102	1,172	1,138	1,076	977	1,034	1,060	1,006	546	777	849		976.1	
Average Alum, mg/L	17.3	18.4	18.3	18.2	16.0	16.0	15.8	15.8	14.4	14.1	21.0		16.8	
Alum Cost, \$/Lbs.	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	0.1	
Alum Total Cost, Dollars	\$4,134	\$4,112	\$4,270	\$3,906	\$3,664	\$3,756	\$3,977	\$3,774	\$2,048	\$2,913	\$3,081	\$0	\$3,302.98	\$39,635.73
Lime														
Total Lbs.	0	0	0	0	0	0	0	0	642	1,855	1,286		344	3,783
Average Lime, Lbs./Day	0	0	0	0	0	0	0	0	71	60	43		15.8	
Average, Lime Dose, mg/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.3	7.3		2.0	
Lime Cost, \$/Lbs.	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75
Lime Total Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$481.50	\$1,391.25	\$964.50	\$0.00	\$236.44	\$2,837.25
Soda Ash														
Total Lbs.	23,600	25,300	20,550	18,760	21,950	31,200	20,500	29,950	42,100	59,899	24,032		28,895	317,841
Average Soda Ash, Lbs./Day	761	872	663	625	708	1,040	661	966	1,403	1,932	801		948.4	
Average, Soda Ash Dose, mg/L	12.0	13.7	10.7	10.6	11.6	16.1	9.8	15.2	23.4	34.2	31.8		17.2	
Soda Ash Cost, \$/Lbs.	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	0.4	
Soda Ash Total Cost, Dollars	\$9,204	\$9,867	\$8,015	\$7,316	\$8,561	\$12,168	\$7,995	\$11,681	\$16,419	\$23,361	\$9,372	\$0	\$10,329.83	\$123,957.99
Fluoride														
Total Lbs.	1,134	1,104	1,128	1,185	1,180	1,216	1,513	1,569	1,473	1,407	1,296		1,291	14,205
Average, Fluoride Lbs./Day	37	38	36	40	38	40	48	51	49	45	43		42.2	
Average, Fluoride (F-) Dose, mg/L	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.8		0.7	
Fluoride Cost, \$/Lbs.	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30
Fluoride Total Cost, Dollars	\$335	\$326	\$333	\$350	\$348	\$359	\$446	\$463	\$435	\$415	\$382	\$0	\$349.21	\$4,190.48
Sodium Hydroxide 50%														
Total NaOH 50% dry Lbs.	36,522	32,550	34,948	34,506	41,594	43,101	52,631	60,632	7,429	3,835	21,218		33,542	368,966
Average NaOH 50%, dry Lbs./Day	1,178	1,122	1,127	1,342	1,436	1,436	1,697	1,955	248	127	707		1,099	
Average, NaOH 50%, mg/L	18.6	17.7	18.4	18.4	19.9	21.1	24.1	30.0	25.4	5.9	13.0		19.3	
NaOH 50% Cost, dry \$/Lbs	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	0.3	
NaOH 50% Total Cost, Dollars	\$10,891	\$9,706	\$10,421	\$10,290	\$12,403	\$12,853	\$15,695	\$18,080	\$2,215	\$1,144	\$6,327	\$0	\$9,168.81	\$110,025.66
Zinc Orthophosphate														
Total Zn3(PO4)2, wet Lbs.	4,660	4,368	4,460	4,339	4,680	4,821	5,182	4,922	4,489	4,252	3,887		4,551	50,060
Average Zn3(PO4)2, wet Lbs./Day	150	151	144	145	151	160	167	159	150	137	130		149.5	
Average, Zn3(PO4)2 Dose, mg/L	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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	\$1,724	\$1,724	\$1,724	\$1,724	1.7	
Zn3(PO4)2 Total Cost, Dollars	\$8,032	\$7,529	\$7,687	\$7,479	\$8,067	\$8,310	\$8,932	\$8,484	\$7,737	\$7,329	\$6,700	\$0	\$7,190.43	\$86,285.17
Sodium Permanganate														
Total NaMnO4, Lbs.	0	0	0	0	0	0	0	0	0	0	227		21	227
Average NaMnO4, Lbs./Day	0	0	0	0	0	0	0	0	0	0	25		2.3	
Average, NaMnO4 Dose, mg/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8		0.1	
NaMnO4 Cost, \$/Lbs.											\$1,950		\$1.95	
NaMnO4 Total Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$443	\$0.00	\$36.89	\$442.65
Expenditure	\$42,706.49	\$41,013.65	\$40,415.90	\$38,617.02	\$43,188.14	\$47,880.68	\$49,457.32	\$53,702.29	\$40,834.90	\$46,033.90	\$35,756.47		\$43,600.61	\$479,508.75
Average Treated Cost per (MG)	\$180.91	\$188.10	\$178.61	\$174.18	\$183.74	\$197.51	\$191.03	\$225.44	\$184.19	\$219.41	\$184.19		\$184.19	
Total Treated Flow (MGD)	235.878	220.320	225.086	207.279	223.340	230.110	247.520	235.110	214.440	203.940	186.448		186.448	2,429.471
Average Treated Flow (MGD)	7.609	7.597	7.597	6.909	7.205	7.670	7.985	7.580	7.148	6.579	6.215		6.215	

EXHIBIT I

DISTRIBUTION DEPARTMENT ACTIVITIES - 2024

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
PA One Call Locates	506	518	485	510	493	521	515	505	497	459	431		5,440	495
Leak Detection Assessment (Percent of Distribution System)	8	8	8	8	0	0	0	0	8	8	8		56	5
Main Break Repair - Detected Non-Surfacing	0	0	0	0	0	0	0	1	0	0	0		1	0
Main Breaks Repaired - Emergency	3	4	5	0	2	0	6	0	1	1	2		24	2
Service Line Leaks Detected	0	0	0	0	0	0	0	0	0	0	6		6	1
Service Line Leaks Repaired	8	0	0	6	11	11	5	1	3	5	1		51	5
Valves - Exercised	0	1	14	0	0	0	1	127	129	0	7		279	25
Valves - Replaced	0	0	1	0	0	0	0	0	0	0	0		1	0
Hydrant Flow Tests	2	1	8	9	0	1	0	2	1	5	2		31	3
Hydrants Returned to Service	0	1	0	0	1	0	0	0	0	0	0		2	0
Water Tap - Disconnected	2	4	5	0	0	3	0	2	3	2	1		22	2
Water Tap - New Connection	0	0	3	1	0	1	0	0	0	0	0		5	0
Water Shutoffs - Other	13	12	10	32	46	20	53	36	31	59	38		350	32
Water Shutoffs - Non Payment	0	1	0	27	37	5	44	18	9	43	26		210	19
Water Restoration Turn on Other	20	13	19	19	48	30	34	32	23	37	32		307	28

EXHIBIT J

Metering Activities - 2024

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	1	2	0	0	0	0	0	0	0	0	0	9	1
	Leaking	3	0	1	0	0	0	0	0	0	0	0	0	4	0
	Frozen	2	5	0	0	0	0	0	0	0	0	0	0	7	1
	Non-registering	1	6	1	0	1	0	0	0	0	0	0	0	9	1
	Large Meters¹	0	1	0	0	0	0	0	0	0	0	0	0	1	0
New Service	New Installation	0	0	1	1	0	1	0	0	0	0	0	0	3	0
Meter Service															
MIU's Replaced	MIU's Replaced	24	9	6	0	0	0	0	0	0	0	0	1	40	4
Batteries Replaced	Batteries Replaced	47	52	39	1	0	1	0	0	2	0	2		144	13
Meter Pits Serviced	Meter Pits Serviced	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Meter Calibrations															
Small Meters²	Calibrated meters	0	0	0	0	0	0	0	0	0	0	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) - 2024

Category of Water Use	Description	Jan	Feb	Mar	APR	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Plant Use	Plant Use	22,330,000	21,930,000	31,240,000	27,270,000	28,480,000	35,305,861	35,330,000	34,710,000	39,260,000	35,510,000	25,290,000		336,655,861	30,605,078
Billed Metered Exported	Bulk Water Hauling	32,933	34,185	33,600	989,873	1,298,153	1,419,482	382,275	627,448	445,766	481,991	590,429		6,336,135	576,012
Billed Metered	Hydrant Connections	0	387	0	0	531	119,350	222	249,822	742,564	104,428	20,455		1,237,759	112,524
Billed Unmetered	Hydrant Flow Tests	4,000	1,800	10,849	13,060	0	0	0	2,410	2,000	15,795	6,816		56,730	5,157
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	18,700	409,058	13,595	1,768,893	1,379,546	1,544,124	1,198,080	954,600	41,128	29,456	22,364		7,379,544	670,868
Leakage on Distribution Mains	Main Leaks	1,214,228	5,570,376	6,134,589	0	1,206,243	0	2,015,546	133,258	175,000	151,805	955,845		17,556,890	1,596,081
Leakage on Service Lines	Service Leaks	148,693	131,760	625,380	1,744,982	172,800	17,280	63,360	77,760	115,200	17,280	262,800		3,377,295	307,027
	Total	23,748,554	28,077,566	38,058,013	31,786,808	32,537,273	38,406,097	38,989,483	36,755,298	40,781,658	36,310,755	27,148,709		372,600,214	33,872,747



CAPITAL REGION
WATER

**DRINKING WATER DEPARTMENT
MONTHLY REPORT**



Newly Installed Basin Safety Railing and Basin Deck Coating

December 2024

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

Plant Operations

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

The DeHart water source was in service for 31 days and the Susquehanna River water source for zero days. The hydroelectric turbine generator was in service for zero days during the month of December.

Specific water quality results are summarized in Exhibit A. As shown in Exhibit B, a total of 201.056 million gallons (MG), averaging 6.486 million gallons per day (MGD), was withdrawn from the DeHart and Susquehanna water supply sources for treatment. A total of 198.700 MG, averaging 6.410 MGD, of finished drinking water was pumped to the distribution system.

The DeHart Watershed had below average rainfall in December (Exhibit C) and the DeHart Reservoir water level decreased (Exhibit D). An estimated 233.35 MG of water was released from the DeHart Reservoir to Clark Creek, averaging 7.53 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 61 preventive and five corrective maintenance work orders for all water treatment plant equipment, pumping stations, and fleet vehicles during the month of December.

- The DeHart Dam watershed was patrolled daily.
- The CL2 Room upgrades are still ongoing. The future Valve Header Panel has been installed, the CL2 Tanks Shut-Off Panel has been relocated, the Scale/Data/Power wires have been installed with dedicated instrumentation circuitry.
- Installation of conduit and wiring for the Control Room Chemical Towers removal is nearing completion.
- A leak in the Aluminum Sulfate Chemical Feed Lines has been repaired.
- The Hydro Turbine has been disassembled, shot blasted and ready to go out to a third party for exploratory service recommendations.
- The Operations Building roof has been repaired for leaks.
- Installed a new 624A Sample Pump and the old pump was rebuilt with seal kit/ceramic seal.
- Continued with the disassembly of approximately 750 used water service meters for brass and battery recycling and disposal.
- Installed two 18-inch blank flanged caps on the existing Recycle Lines that are not in use.

- Containment basins floors for the Aluminum Sulfate and Lime Slurry Chemical Systems have been touched up with Macropoxy® paint.
- Soda Ash Feed lines and injectors have been flushed out with muriatic acid and followed with water.
- Continued landscaping duties (leaf removal) at the DeHart Dam facility, 3003 North Front Street Administrative Offices, Water Service Center, Front Street, Reservoir Park, and Union Square pumping stations.

Distribution

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

- Repaired six leaking services totaling 971,880 gallons of unaccountable water, 404A North 2nd Street, 1016 Herr Street, 2406 Jefferson Street, 1954 Boas Street, 438 Hummel Street, and 440 Hummel Street.
- Completed 110 work orders.
- Completed 510 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:

- Ensured collection of monthly regulatory samples for Total Coliform and E. Coli.
- Received all data for analyses collected during the River Run. All data was under EPA/PADEP limits.
- Received no taste and odor complaints.



CAPITAL REGION™

WATER

Drinking Water Exhibits

EXHIBIT A Water Quality Analysis - 2024

PARAMETERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average	MCL Limits/Goals
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	1.94	1.98	1.97	2.00	1.97	1.99	1.98	1.95	1.94	1.96	1.94	1.95	1.96	0.2 - 4.0
Distribution System	1.36	1.38	1.34	1.36	1.27	1.23	1.20	1.19	1.02	1.13	1.21	1.35	1.25	>0.20
Turbidity, NTU														
Influent from DeHart	1.01	0.93	0.81	0.92	1.04	1.12	1.18	1.19	0.78	1.16	1.41	1.00	1.04	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.36	NA	6.36	NA
Filter Plant Effluent	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.15
pH, Std Units														
Influent from DeHart	6.2	6.2	6.5	6.5	6.1	5.9	5.7	5.6	5.8	6.0	6.1	6.9	6.13	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.9	NA	NA	NA
Filter Plant Effluent	7.6	7.6	7.4	7.5	7.5	7.5	7.4	7.5	7.5	7.6	7.6	7.5	7.52	7.2 - 7.8
Distribution System	7.4	8.0	7.4	7.5	7.9	7.8	7.5	7.4	7.4	7.5	7.5	7.6	7.56	7.0 - 8.0
Total Alkalinity, mg/L as CaCO3														
Influent DeHart	5	5	5	5	5	5	5	5	5	5	5	5	5.00	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	72	NA	72.00	NA
Filter Plant Effluent	18	18	16	16	18	21	22	25	30	26	29	16	21.25	NA
Distribution System	17	21	19	17	16	22	24	26	32	27	30	15	22.06	>15
Temperature, degrees C														
Influent from DeHart	7.7	7.2	8.8	10.7	13.1	15.1	16.4	17.9	18.8	17.2	15.2	10.8	13.24	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.0	NA	14.00	NA
Filter Plant Effluent	7.9	7.4	8.7	10.4	12.7	14.0	14.9	16.7	18.2	17.1	16.2	10.9	12.92	NA
Distribution System	13.9	15.4	12.2	16.2	19.1	23.5	23.5	22.4	22.0	20.5	17.3	13.5	18.29	NA
Fluoride, mg/L														
Filter Plant Effluent	0.82	0.72	0.73	0.70	0.70	0.69	0.62	0.65	0.72	0.72	0.74	0.76	0.71	2
Aluminum, mg/L														
Filter Plant Effluent	0.02	0.11	0.02	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.2*
Iron, mg/L														
Influent from DeHart	0.09	0.07	0.07	0.08	0.14	0.18	0.20	0.35	0.39	0.47	0.30	0.16	0.21	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.25	NA	0.25	NA
Filter Plant Effluent	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.3*
Distribution System	0.00	0.05	0.03	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.02	0.00	0.01	0.3*
Total Dissolved Solids, mg/L														
Influent from DeHart	16	16	16	15	16	16	16	16	17	16	16	15	15.97	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	226	NA	225.69	NA
Filter Plant Effluent	42	43	39	41	43	48	51	53	58	52	82	41	49.48	500*
Distribution System	48	45	50	44	47	53	58	65	69	69	101	49	58.09	500*
Total Hardness, mg/L														
Influent from DeHart	8	8	8	8	8	8	8	8	8	8	8	8	8.00	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	153	NA	153.00	NA
Filter Plant Effluent	8	8	8	8	8	8	8	9	10	17	41	13	12.20	NA
Distribution System	5	7	5	3	2	3	1	2	5	11	29	11	7.02	NA
Orthophosphate, mg/L														
Filter Plant Effluent	1.24	1.22	1.24	1.27	1.30	1.32	1.32	1.24	1.20	1.22	1.21	1.19	1.25	0.7 - 1.3*
Distribution System	1.24	1.25	1.23	1.28	1.30	1.35	1.26	1.22	1.20	1.11	1.13	1.20	1.23	>1.0
**Total Trihalomethanes, ug/L														
Distribution System	38.5	NA	NA	39.6	NA	NA	55.4	NA	NA	46.3	39.1	NA	43.8	80.0
**Total Haloacetic Acids, ug/L														
Distribution System	33.4	NA	NA	45.8	NA	NA	53.6	NA	NA	32.4	30.6	NA	39.2	60.0
Total Organic Carbon, mg/L														
Influent from DeHart	2.30	NA	NA	2.40	NA	NA	2.10	NA	NA	2.00	NA	NA	2.20	NA
Influent from Susquehanna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.10	NA	2.10	NA
Filter Plant Effluent	1.30	NA	NA	1.10	NA	NA	1.10	NA	NA	1.20	1.30	NA	1.20	NA
Average Filter Run, Hours	114	112	111	114	113	112	126	143	144	144	144	143	126.60	NA

*** Not Available at Time of Report

* Values are related to DEP Secondary MCL

** Running Annual Quarterly Average

EXHIBIT B

Water Production Data - 2024

Month	DeHart Withdrawal		River Withdrawal		Total Withdrawal		Plant Influent		Process Water		Finished Water	
	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	236.324	7.623	0.000	0.000	236.324	7.623	235.878	7.609	5.464	0.176	222.400	7.174
February	220.950	7.619	0.000	0.000	220.950	7.619	220.320	7.597	3.690	0.127	208.444	7.188
March	231.221	7.459	0.000	0.000	231.221	7.459	220.320	7.597	4.969	0.160	217.840	7.027
April	222.024	7.401	0.000	0.000	222.024	7.401	213.008	7.100	5.729	0.191	207.279	6.976
May	235.352	7.592	0.000	0.000	235.352	7.592	226.720	7.326	3.380	0.109	223.340	7.200
June	240.947	8.032	0.000	0.000	240.947	8.032	232.880	7.760	2.770	0.092	230.110	7.670
July	256.460	8.273	0.000	0.000	256.460	8.273	249.850	8.060	2.330	0.075	247.520	7.980
August	242.364	7.818	0.000	0.000	242.364	7.818	236.700	7.635	1.590	0.051	235.110	7.580
September	222.025	7.401	0.000	0.000	222.025	7.401	215.420	7.181	0.980	0.033	214.440	7.150
October	209.821	6.768	0.000	0.000	209.821	6.768	205.020	6.614	1.080	0.035	203.940	6.579
November	159.448	5.315	33.624	1.121	193.072	6.436	189.172	6.306	2.724	0.091	186.448	6.215
December	201.056	6.486	0.000	0.000	201.056	6.486	201.041	6.485	2.341	0.076	198.700	6.410
Total	2677.992		33.624		2711.616		2646.329		37.047		2595.571	
Average	223.166	7.316	2.802	0.093	225.968	7.409	220.527	7.273	3.087	0.101	216.298	7.096

Peak Day Water Use
Minimum Day Water Use

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

EXHIBIT C

Rainfall at the DeHart Reservoir - 2024
(inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
2024 Total	11.69	2.14	3.92	4.55	7.14	2.15	0.68	6.67	2.81	0.74	1.94	2.98	47.41
Daily Average	0.377	0.074	0.126	0.152	0.320	0.071	0.022	0.370	0.180	0.060	0.100	0.150	2.002
Ten Year Average	2.992	2.488	3.125	3.713	4.54	4.38	5.842	3.843	4.82	3.489	2.447	3.149	44.828
2023 Total	2.70	1.09	2.93	3.71	2.63	3.85	7.85	2.66	5.00	2.07	2.50	4.71	41.70

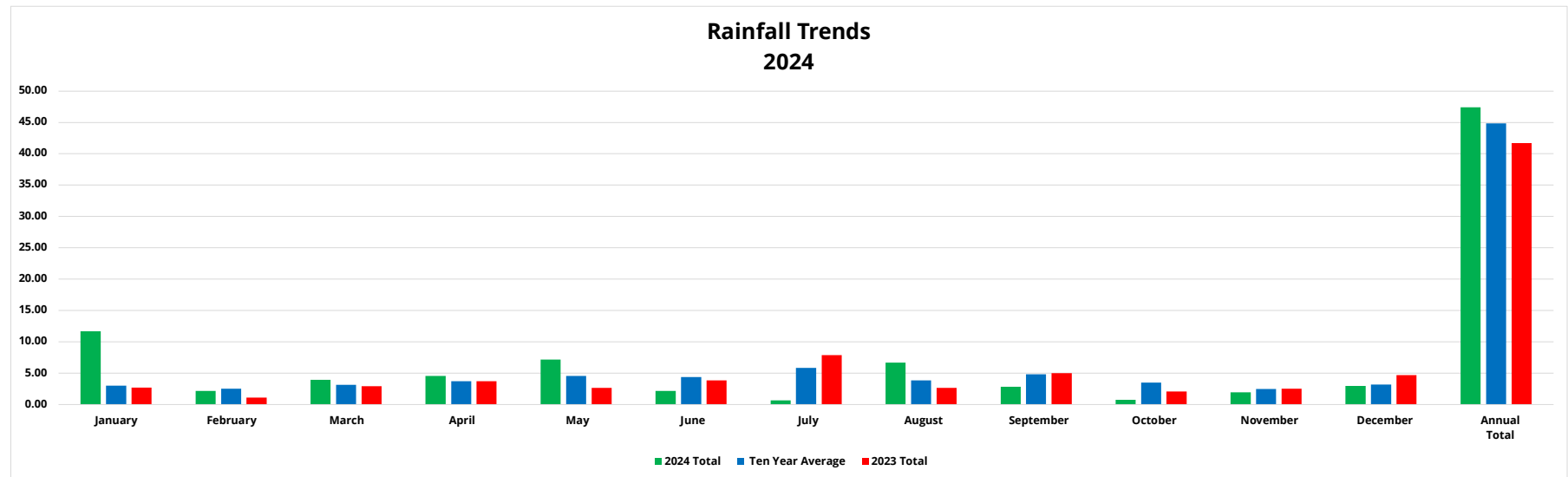


EXHIBIT D

Water Level at the DeHart Reservoir - 2024
(Inches from Spillway)

Date	January	February	March	April	May	June	July	August	September	October	November	December
2024 AVG	1.5	3.1	2.8	2.3	1.2	-9.4	-27.0	-36.0	-54.8	-76.5	-92.0	-96.0
Ten Year AVG	-39.2	-25.5	-29.6	-8.1	-2.2	-3.9	-9.1	-20.2	-28.4	-41.0	-47.0	-44.3
2023 AVG	-162.9	-58.6	-98.7	1.1	1.8	-10.0	-20.1	-32.3	-49.3	-55.9	-67.1	-48.2

DeHart Reservoir Water Level Trends
2024

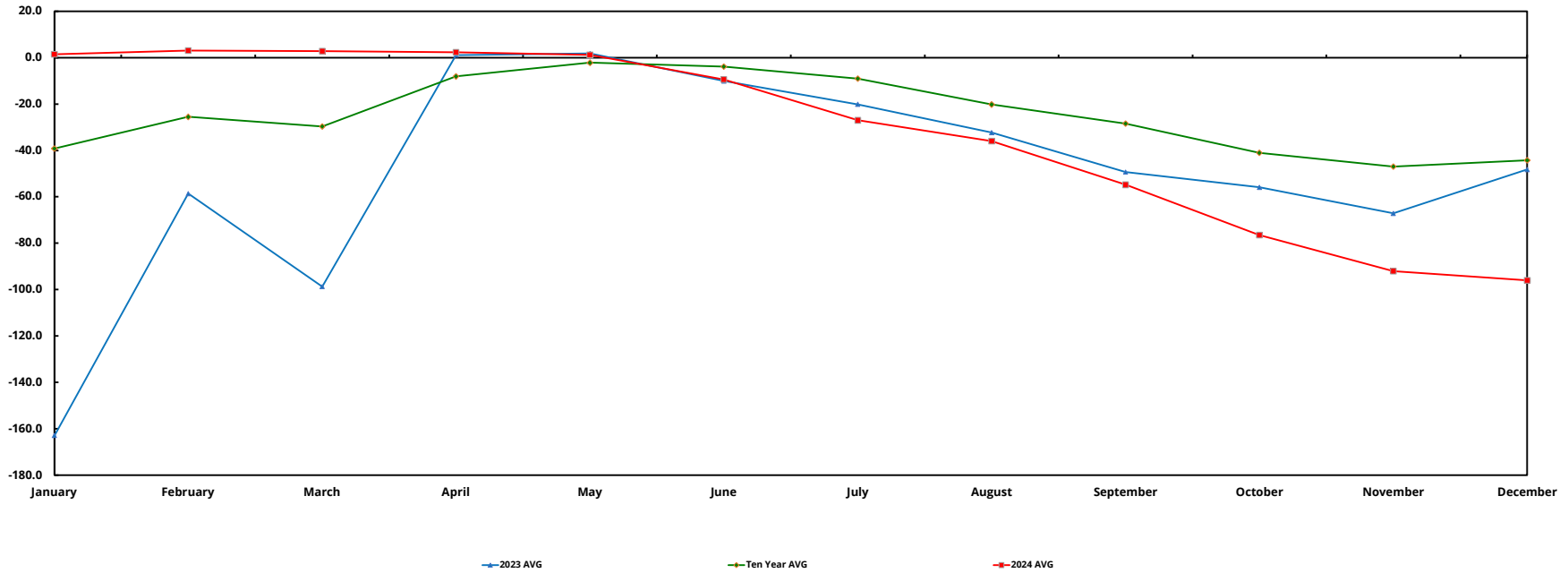


EXHIBIT E

Daily Conservation Release - 2024

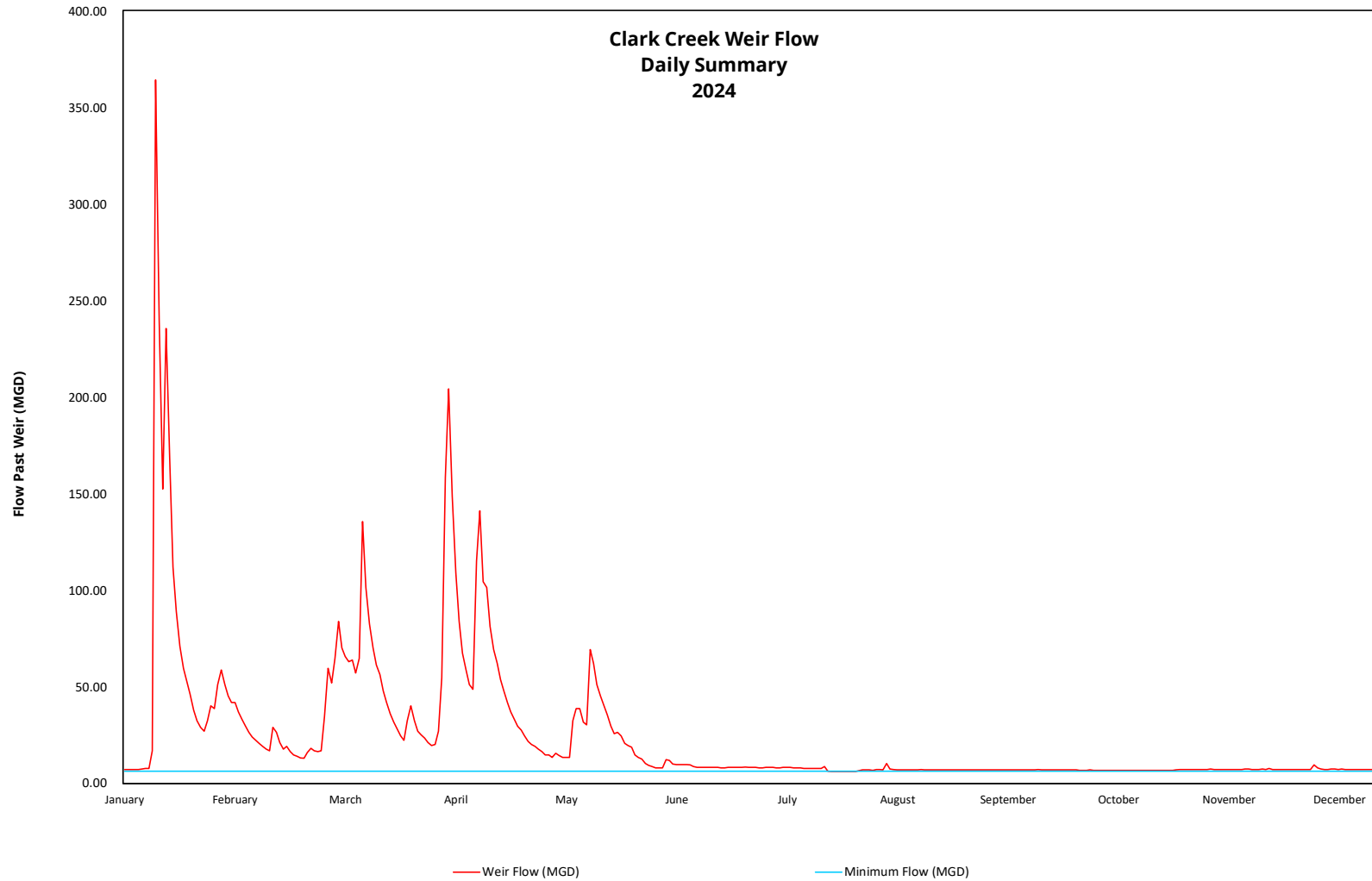


EXHIBIT F
Utility Usage - 2024

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Water Services Center														
Electric Transmission														
Total, kWh	201,600	138,600	162,000	133,200	131,400	149,400	147,600	149,400	152,978				151,798	1,366,178
Cost, Dollars	\$12,309.05	\$8,548.76	\$9,143.80	\$8,515.14	\$8,380.63	\$9,589.01	\$9,325.26	\$9,019.71	\$9,011.01				\$9,315.82	\$83,842.37
Electric Generation														
Total, kWh	201,600	138,600	162,000	133,200	131,400	149,400	147,600	149,400	152,978				151,798	1,366,178
Cost, Dollars	\$1,103.71	\$1,100.96	\$1,091.10	\$888.64	\$1,089.43	\$1,192.43	\$1,191.83	\$1,211.54	**				\$1,108.71	\$8,869.64
Natural Gas														
Total, Cu Ft	6,335	10,586	10,425	5,064	6,331	6,073	2,101	252	321	1,247	10,320		5,369	59,055
Cost, Dollars	\$9,791.01	\$9,595.00	\$9,102.83	\$4,757.03	\$5,335.34	\$5,025.62	\$1,888.99	\$355.64	\$405.40	\$1,984.39	\$8,745.28		\$5,180.59	\$56,986.53
Sewer														
Total, Gal	6,830,000	6,290,000	7,290,000	6,920,000	7,310,000	9,420,000	6,750,000	6,140,000	5,690,000	5,480,000	5,550,000		6,697,273	73,670,000
Cost, Dollars	\$68,163.40	\$62,275.20	\$72,754.20	\$69,061.60	\$72,953.80	\$94,011.60	\$67,365.00	\$61,277.20	\$56,786.20	\$54,690.40	\$55,389.00		\$66,793.42	\$734,727.60
Refuse														
Cost, Dollars	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$1,018.70	\$509.60	\$509.60	\$509.60	\$509.60	\$509.60	\$6,624.30
Reservoir Park Pump Station														
Electric Transmission														
Total, kWh	91,200	87,200	84,800	74,800	78,000	76,400	92,000	86,400	92,000	82,000	72,000		83,345	916,800
Cost, Dollars	\$3,909.19	\$3,655.05	\$3,466.91	\$3,085.64	\$2,904.94	\$2,840.96	\$2,989.80	\$3,016.50	\$3,466.73	\$3,275.66	\$2,797.43		\$3,218.98	\$35,408.81
Electric Generation														
Total, kWh	91,200	87,200	84,800	74,800	78,000	76,400	92,000	86,400	92,000	82,000	72,000		83,345	916,800
Cost, Dollars	\$1,489.62	\$1,477.60	\$1,365.43	\$1,416.68	\$1,354.23	\$1,285.47	\$2,682.87	\$1,355.73	\$1,343.42	\$1,328.69	\$2,677.44		\$1,616.11	\$17,777.18
Natural Gas														
Total, Cu Ft	700	777	794	169	0	794	0	0	0	41	266		250	2,747
Cost, Dollars	\$637.43	\$746.12	\$710.45	\$196.34	\$28.72	\$28.72	\$28.72	\$28.72	\$57.44	\$64.55	\$254.99		\$252.93	\$2,782.20
Susquehanna River Pump Station														
Electric Transmission														
Total, kWh	1,200	1,200	1,200	600	600	1,200	1,200	1,200	1,200	1,200	1,800		1,145	12,600
Cost, Dollars	\$63.60	\$57.10	\$75.36	\$69.40	\$47.43	\$74.50	\$48.95	\$52.76	\$72.86	\$70.04	\$91.32		\$65.76	\$723.32
Electric Generation														
Total, kWh	1,200	1,200	1,200	600	600	1,200	1,200	1,200	1,200	1,800	4,380		1,489	16,380
Cost, Dollars	\$73.18	\$73.27	\$81.07	\$102.27	\$73.04	\$76.31	\$80.06	\$76.21	\$72.30	\$208.74	\$1,356.67		\$206.65	\$2,273.12
Natural Gas														
Total, Cu Ft	644	496	583	136	14	0	0	0	2	28	156		187	2,059
Cost, Dollars	\$586.53	\$479.51	\$529.54	\$154.13	\$40.14	\$28.72	\$28.72	\$28.72	\$30.35	\$53.58	\$162.76		\$192.97	\$2,122.70
Union Square Booster Station														
Electric Transmission														
Total, kWh	2,694	2,551	2,257	707	377	583	546	452	320	648			1,114	11,135
Cost, Dollars	\$147.60	\$158.85	\$119.83	\$59.00	\$49.34	\$50.86	\$46.33	\$52.62	\$44.32	\$59.65			\$78.84	\$788.40
Electric Generation														
Total, kWh	2,694	2,551	2,257	707	377	583	546	452	320	648			1,114	11,135
Cost, Dollars	\$97.29	\$104.82	\$99.96	\$87.21	\$82.13	\$86.26	\$74.50	\$70.39	\$77.72	\$82.36			\$86.26	\$862.64
DeHart Facilities														
Electric Transmission														
Total, kWh	3,007	2,144	2,367	1,726	1,180	1,180	2,335	2,720	2,166	1,867	1,743		2,040	22,435
Cost, Dollars	\$160.80	\$123.89	\$133.47	\$119.40	\$111.11	\$91.49	\$165.25	\$170.31	\$137.08	\$120.81	\$115.78		\$131.76	\$1,449.39
Electric Generation														
Total, kWh	3,007	2,144	2,367	1,726	1,180	2,335	2,724	2,166	1,867	1,743	2,357		2,147	23,616
Cost, Dollars	\$95.90	\$92.59	\$66.46	\$91.65	\$80.81	\$112.73	\$100.91	\$95.22	\$85.88	\$85.33	\$87.63		\$90.46	\$995.11
Fuel Oil														
Total, Gals.	0	1,727	0	0	245	0	0	0	0	1,030	0		273	3,002
Cost, Dollars	\$0.00	\$6,767.33	\$0.00	\$0.00	\$719.86	\$0.00	\$0.00	\$0.00	\$0.00	\$3,417.91	\$0.00		\$991.37	\$10,905.10
City Island Heat Trace														
Electric Transmission														
Total, kWh	136	149	0	0	0	0	0	0	0	0			29	285
Cost, Dollars	\$3.88	\$7.90	\$0.00	\$0.00	\$1.20	\$1.99	(\$2.75)	(\$3.01)	\$0.77	\$1.11			\$1.11	\$11.09
Electric Generation														
Total, kWh	136	149	0	0	0	0	0	0	0	**	151		44	436
Cost, Dollars	\$61.97	\$62.01	\$61.94	\$61.69	\$61.69	\$61.62	\$61.49	\$61.49	\$61.46	**	\$61.78		\$61.71	\$617.14
Expenditures YTD													\$89,945	\$967,767

** Not available at time report was developed

Total Transmission	\$122,223
Total Generation	\$31,395
Total Refuse	\$6,624
Total Gas	\$61,891
Total Sewer	\$734,728
Total Fuel Oil	\$10,905
Total Utilities	\$961,142

Exhibit G

Hydro-Turbine Generator Performance - 2024

Month	Kilowatt-hour (KWH)	Anticipated Savings *
January	16,300	\$2,412
February	57,170	\$8,461
March	4,270	\$632
April	58,360	\$8,637
May	79,750	\$11,803
June	52,430	\$7,760
July	42,920	\$6,352
August	44,290	\$6,555
September	45,810	\$6,780
October	0	\$0
November	0	\$0
December	0	\$0
Average	33,442	\$4,949
Year to Date	401,300	\$59,392

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

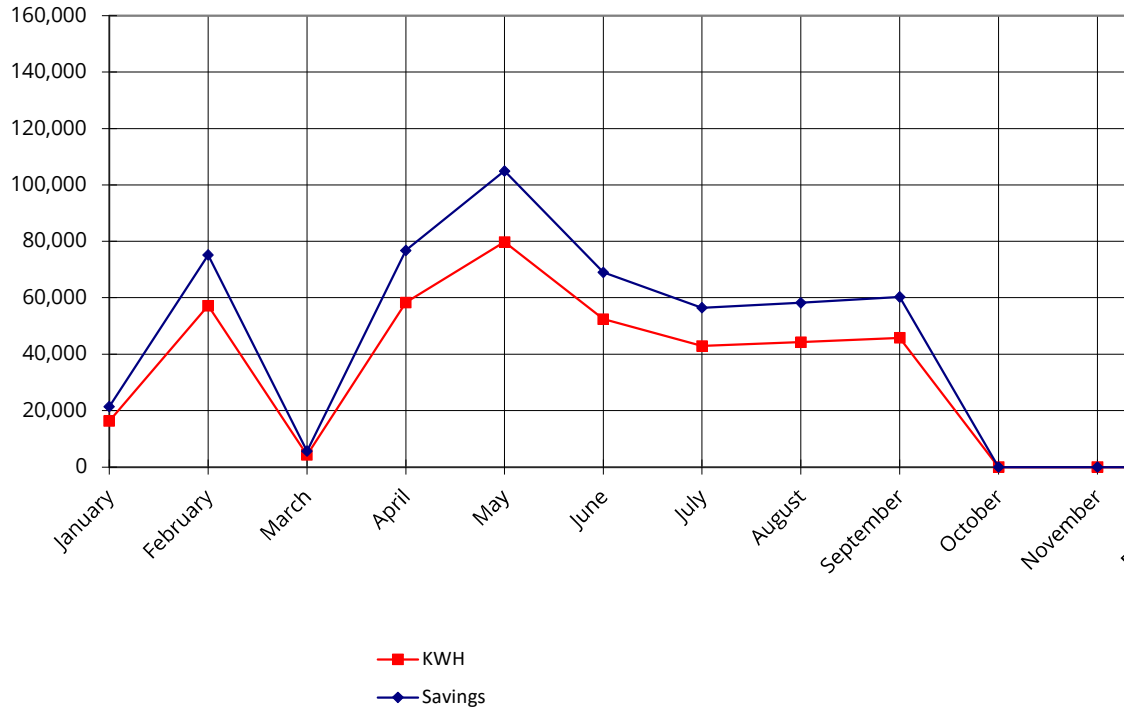


EXHIBIT H
Treatment Chemical Usage - 2024

Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Chlorine														
Total Lbs.	6,169	5,780	5,912	5,660	6,597	6,366	7,572	6,845	6,284	5,784	5,447	5,442	6,155	73,858
Average, Chlorine Lbs./Day	199	199	191	189	213	212	244	220	209	187	182	176	201.8	
Average, Chlorine Dose, mg/L	3.1	3.2	3.1	3.0	3.3	3.1	3.5	3.5	3.4	3.3	3.3	3.1	3.2	
Chlorine, Cost, \$/Lbs.	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639	1.6
Chlorine Total Cost, Dollars	\$10,111	\$9,473	\$9,690	\$9,277	\$10,812	\$10,434	\$12,411	\$11,219	\$10,299	\$9,480	\$8,928	\$8,919	\$10,087.77	\$121,053.26
Alum 48.5%														
Total Lbs.	34,165	33,986	35,289	32,279	30,282	31,041	32,869	31,190	16,929	24,074	25,464	27,956	29,627	355,524
Average Alum, Lbs./Day	1,102	1,172	1,138	1,076	977	1,034	1,060	1,006	546	777	849	901	969.8	
Average Alum, mg/L	17.3	18.4	18.3	18.2	16.0	16.0	15.8	15.8	14.4	14.1	21.0	16.6	16.8	
Alum Cost, \$/Lbs.	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	0.1
Alum Total Cost, Dollars	\$4,134	\$4,112	\$4,270	\$3,906	\$3,664	\$3,756	\$3,977	\$3,774	\$2,048	\$2,913	\$3,081	\$3,383	\$3,584.87	\$43,018.40
Lime														
Total Lbs.	0	0	0	0	0	0	0	0	642	1,855	1,286	1,344	427	5,127
Average Lime, Lbs./Day	0	0	0	0	0	0	0	0	71	60	43	43	18.1	
Average, Lime Dose, mg/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.3	7.3	6.3	2.3	
Lime Cost, \$/Lbs.	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	0.75
Lime Total Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$481.50	\$1,391.25	\$964.50	\$1,008.00	\$320.44	\$3,845.25
Soda Ash														
Total Lbs.	23,600	25,300	20,550	18,760	21,950	31,200	20,500	29,950	42,100	59,899	24,032	37,496	29,611	355,337
Average Soda Ash, Lbs./Day	761	872	663	625	708	1,040	661	966	1,403	1,932	801	1,209	970.1	
Average, Soda Ash Dose, mg/L	12.0	13.7	10.7	10.6	11.6	16.1	9.8	15.2	23.4	34.2	31.8	28.2	18.1	
Soda Ash Cost, \$/Lbs.	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	0.4
Soda Ash Total Cost, Dollars	\$9,204	\$9,867	\$8,015	\$7,316	\$8,561	\$12,168	\$7,995	\$11,681	\$16,419	\$23,361	\$9,372	\$14,623	\$11,548.45	\$138,581.43
Fluoride														
Total Lbs.	1,134	1,104	1,128	1,185	1,180	1,216	1,513	1,569	1,473	1,407	1,296	1,325	1,294	15,530
Average, Fluoride Lbs./Day	37	38	36	40	38	40	48	51	49	45	43	43	42.3	
Average, Fluoride (F-) Dose, mg/L	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.7	
Fluoride Cost, \$/Lbs.	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	0.30
Fluoride Total Cost, Dollars	\$335	\$326	\$333	\$350	\$348	\$359	\$446	\$463	\$435	\$415	\$382	\$391	\$381.78	\$4,581.35
Sodium Hydroxide 50%														
Total NaOH 50% dry Lbs.	36,522	32,550	34,948	34,506	41,594	43,101	52,631	60,632	7,429	3,835	21,218	19,268	32,353	388,234
Average NaOH 50%, dry Lbs./Day	1,178	1,122	1,127	1,142	1,342	1,436	1,697	1,955	248	127	707	621	1,059	
Average, NaOH 50%, mg/L	18.6	17.7	18.4	18.4	19.9	21.1	24.1	30.0	25.4	5.9	13.0	11.1	18.6	
NaOH 50% Cost, dry \$/Lbs.	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	0.3
NaOH 50% Total Cost, Dollars	\$10,891	\$9,706	\$10,421	\$10,290	\$12,403	\$12,853	\$15,695	\$18,080	\$2,215	\$1,144	\$6,327	\$5,746	\$9,647.61	\$115,771.38
Zinc Orthophosphate														
Total Zn3(PO4)2, wet Lbs.	4,660	4,368	4,460	4,339	4,680	4,821	5,182	4,922	4,489	4,252	3,887	4,143	4,517	54,203
Average Zn3(PO4)2, wet Lbs./Day	150	151	144	145	151	160	167	159	150	137	130	133	148.1	
Average, Zn3(PO4)2 Dose, mg/L	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.5	
Zn3(PO4)2 Cost, wet \$/Lbs.	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724	1.7
Zn3(PO4)2 Total Cost, Dollars	\$8,032	\$7,529	\$7,687	\$7,479	\$8,067	\$8,310	\$8,932	\$8,484	\$7,737	\$7,329	\$6,700	\$7,141	\$7,785.52	\$93,426.19
Sodium Permanganate														
Total NaMnO4, Lbs.	0	0	0	0	0	0	0	0	0	0	227	0	19	227
Average NaMnO4, Lbs./Day	0	0	0	0	0	0	0	0	0	0	25	0	2.1	
Average, NaMnO4 Dose, mg/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.1	
NaMnO4 Cost, \$/Lbs.											\$1.950		\$1.95	
NaMnO4 Total Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$443	\$0.00	\$36.89	\$442.65
Expenditure														
Average Treated Cost per (MG)	\$42,706.49	\$41,013.65	\$40,415.90	\$38,617.02	\$43,188.14	\$47,880.68	\$49,457.32	\$53,702.29	\$40,834.90	\$46,033.90	\$35,756.47	\$41,212.68	\$43,401.62	\$520,719.91
Total Treated Flow (MGD)	180.91	188.10	178.61	174.18	183.74	197.51	191.03	225.44	184.19	219.41	184.19	199.13	198.700	2,628.171
Average Treated Flow (MGD)	7.609	7.597	7.597	6.909	7.205	7.670	7.985	7.580	7.148	6.579	6.215	6.410		

EXHIBIT I

DISTRIBUTION DEPARTMENT ACTIVITIES - 2024

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
PA One Call Locates	506	518	485	510	493	521	515	505	497	459	431	510	5,950	496
Leak Detection Assessment (Percent of Distribution System)	8	8	8	8	0	0	0	0	8	8	8	8	64	5
Main Break Repair - Detected Non-Surfacing	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Main Breaks Repaired - Emergency	3	4	5	0	2	0	6	0	1	1	2	0	24	2
Service Line Leaks Detected	0	0	0	0	0	0	0	0	0	0	6	8	14	1
Service Line Leaks Repaired	8	0	0	6	11	11	5	1	3	5	1	2	53	4
Valves - Exercised	0	1	14	0	0	0	1	127	129	0	7	0	279	23
Valves - Replaced	0	0	1	0	0	0	0	0	0	0	0	0	1	0
Hydrant Flow Tests	2	1	8	9	0	1	0	2	1	5	2	1	32	3
Hydrants Returned to Service	0	1	0	0	1	0	0	0	0	0	0	0	2	0
Water Tap - Disconnected	2	4	5	0	0	3	0	2	3	2	1	1	23	2
Water Tap - New Connection	0	0	3	1	0	1	0	0	0	0	0	0	5	0
Water Shutoffs - Other	13	12	10	32	46	20	53	36	31	59	38	18	368	31
Water Shutoffs - Non Payment	0	1	0	27	37	5	44	18	9	43	26	0	210	18
Water Restoration Turn on Other	20	13	19	19	48	30	34	32	23	37	32	20	327	27

EXHIBIT J

Metering Activities - 2024

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	1	2	0	0	0	0	0	0	0	0	0	9	1
	Leaking	3	0	1	0	0	0	0	0	0	0	0	0	4	0
	Frozen	2	5	0	0	0	0	0	0	0	0	0	1	8	1
	Non-registering	1	6	1	0	1	0	0	0	0	0	0	0	9	1
	Large Meters¹	0	1	0	0	0	0	0	0	0	0	0	0	1	0
New Service	New Installation	0	0	1	1	0	1	0	0	0	0	0	0	3	0
Meter Service															
MIU's Replaced	MIU's Replaced	24	9	6	0	0	0	0	0	0	0	1	0	40	3
Batteries Replaced	Batteries Replaced	47	52	39	1	0	1	0	0	2	0	2	0	144	12
Meter Pits Serviced	Meter Pits Serviced	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Meter Calibrations															
Small Meters²	Calibrated meters	0	0	0	0	0	0	0	0	0	0	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) - 2024

Category of Water Use	Description	Jan	Feb	Mar	APR	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Plant Use	Plant Use	22,330,000	21,930,000	31,240,000	27,270,000	28,480,000	35,305,861	35,330,000	34,710,000	39,260,000	35,510,000	25,290,000	32,040,000	368,695,861	30,724,655
Billed Metered Exported	Bulk Water Hauling	32,933	34,185	33,600	989,873	1,298,153	1,419,482	382,275	627,448	445,766	481,991	590,429	15,547	6,351,682	529,307
Billed Metered	Hydrant Connections	0	387	0	0	531	119,350	222	249,822	742,564	104,428	20,455	0	1,237,759	103,147
Billed Unmetered	Hydrant Flow Tests	4,000	1,800	10,849	13,060	0	0	0	2,410	2,000	15,795	6,816	3,285	60,015	5,001
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	18,700	409,058	13,595	1,768,893	1,379,546	1,544,124	1,198,080	954,600	41,128	29,456	22,364	120,323	7,499,867	624,989
Leakage on Distribution Mains	Main Leaks	1,214,228	5,570,376	6,134,589	0	1,206,243	0	2,015,546	133,258	175,000	151,805	955,845	0	17,556,890	1,463,074
Leakage on Service Lines	Service Leaks	148,693	131,760	625,380	1,744,982	172,800	17,280	63,360	77,760	115,200	17,280	262,800	971,880	4,349,175	362,431
	Total	23,748,554	28,077,566	38,058,013	31,786,808	32,537,273	38,406,097	38,989,483	36,755,298	40,781,658	36,310,755	27,148,709	33,151,035	405,751,249	33,812,604



CAPITAL REGION[™]

WATER

Wastewater

Wastewater

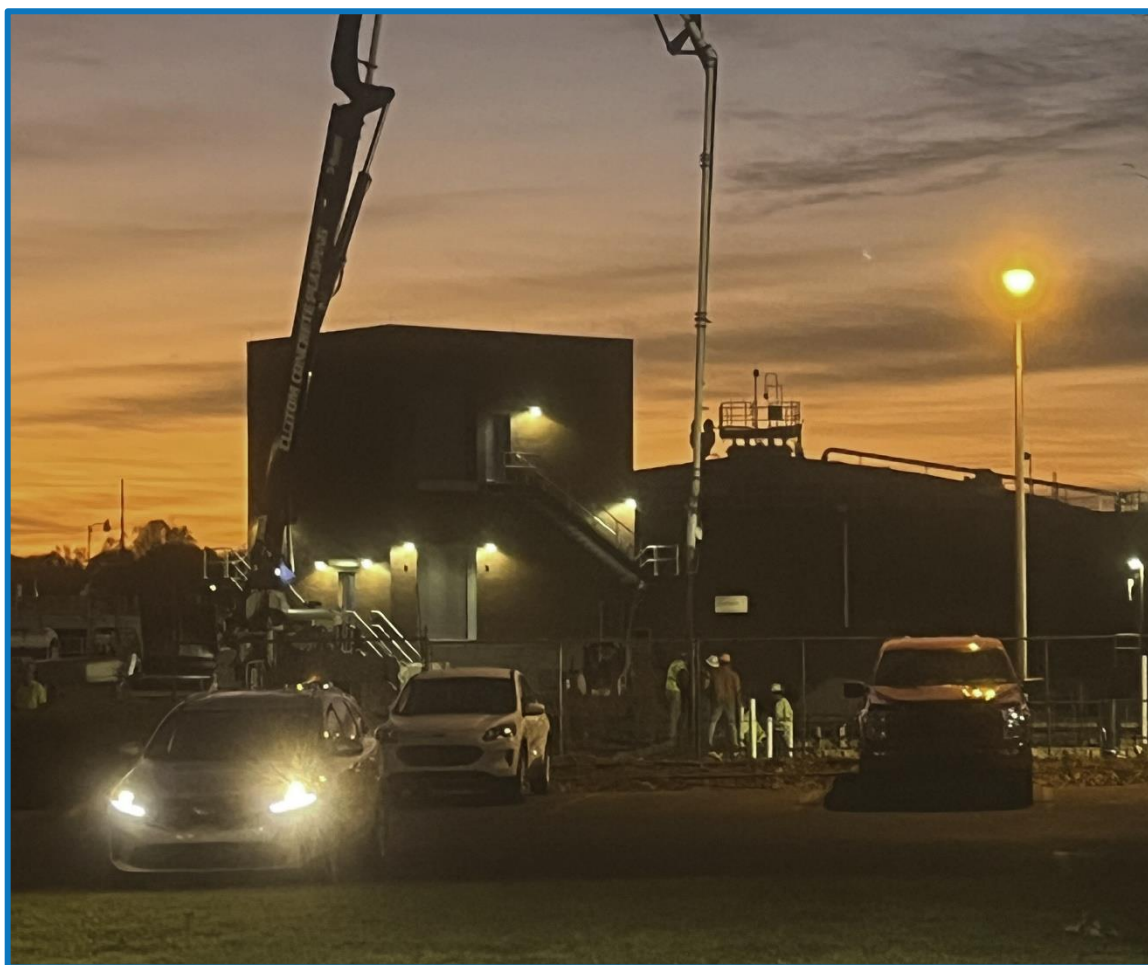




CAPITAL REGION™

WATER

WASTEWATER DEPARTMENT MONTHLY REPORT



Energy Recovery Improvements Project - Concrete Pour at Dawn

November 2024

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

Overview

The Wastewater department was again heavily focused on putting the final touches on the 2025 budget and preparing a PowerPoint presentation for the Board's November 21st meeting. The budget was ultimately approved at the November 26th meeting.

Capital Region Water was finally issued a new NPDES permit by PADEP and EPA for treatment and discharge requirements at the Advanced Wastewater Treatment Facility and CSO system. CRW has been operating under a permit that expired ten years ago. With numerous changes to the permit conditions, CRW has been negotiating various aspects of the permit through several drafts over the past 18 months. With the parties coming to agreement in the fall, PADEP published a draft permit in the fall. The new permit was issued in mid-November with an effective date of December 1, 2024. The Wastewater department spent the remainder of the month preparing for compliance under the new terms of the permit.

Operations

During the month of November, the AWTF met all monthly average NPDES requirements. One Sanitary Sewer Overflow was reported.

Hydraulic loading to the AWTF averaged 14.1 million gallons per day (MGD) during the month. The treatment process achieved removal reductions of 98.6 percent CBOD, 97.4 percent Suspended Solids, 58.0 percent Phosphorus, and 87.0 percent Ammonia (Exhibit A).

The Contract Waste Hauling program collected \$25,743.95 in revenue from 636,270 gallons discharged (Exhibit G). Continued dry weather for the month spelled low discharge and revenue totals. We did not receive any leachate through November and had the lowest total gallons discharged and revenue collected since 2022.

The Cogeneration Facility experienced a run time of 0.0 percent in November. The unit was offline all month due mechanical issues and long lead times on parts. These issues are being addressed in the month of December.

Laboratory

- Finished the second round of compliance sampling at all our Industrial Users to compare results with their self-monitoring reports. This allows us to make sure they are following proper sample procedures.

-
- Set up additional sampling events and modified others to maintain compliance with our new NPDES Permit. This includes additional nitrogen, metals, and PFAS sampling.
 - Received a notice from DEP Bureau of Laboratories to renew our Laboratory Accreditation Certificate before the new year.
 - Received all components necessary to replace the old fume hood in the main laboratory with a new canopy hood and steel bench top.

Pretreatment

- Completed facility inspections at Swatara Township Landfill, Boyd State-Harrisburg (landfill), LCSWMA (landfill), and our Drinking Water facility. CRW is scheduling the rest for December.
- Gathering information from waste haulers as our new NPDES Permit requires the license plate of any truck discharging residual waste (leachate) at our facility.
- Working in WIMS to create spread reports that mimic report templates provided by DEP for our new NPDES Permit.
- Completed all third quarter self-monitoring report reviews for our Industrial Users.

Plant Maintenance

- Changed out the peristaltic pump hose on the divert pump in the Chemical Storage Building.
- Performed service, lube, oil, filters, replaced batteries and ran a full load test on the Caterpillar generator at Spring Creek Pump Station.
- Worked on repairing the check valve shaft for Pump No. 2 at Settled Sewage Pump Station.
- Completed removed Sewage Pump No. 1 to inspect the impeller for loss of performance at the Settled Sewage Pump Station. Found traffic cone lodged in impeller.
- Performed maintenance to the Bar-Screen at the Spring Creek Pump Station.
- Performed weekly service and maintenance on the JCB Wheel Loader.
- Performed monthly vehicle maintenance in preparation for state inspections.
- Performed monthly maintenance on the stand-by generator at the Market Street Pump Station.
- Repaired skimmer and scum collection box for Thickener No. 2.
- Currently performing the annual preventative maintenance and lubrication on all the facility's mechanical equipment.
- Installed new level indicators at the Filtrate Pump Station.
- Performed maintenance tasks per request at 3003 North Front Street Office Building.

Field Construction

- Repaired seven inlets in various locations throughout the City of Harrisburg.

-
- Replaced a brick inlet with a new pre-cast inlet box and M top with bicycle gate at the intersection of Burma and Hatton Streets.
 - Blanked one inlet this month.
 - Replaced 100 feet of storm pipe on Burma Street.
 - CRW was contacted by Miller Pipe about a damaged inlet lateral at 19th and Brookwood Streets. A crew was sent out to identify the issue and replaced 3 feet of 8-inch clay pipe with 8-inch SDR.

Field Operations

- Performed CCTV assessment of 3,966 feet (0.75 miles) of pipe.
- Flushed 1,193 feet (0.23 miles) of sewer pipe.
- Responded to four backup and overflow calls with none being CRW's responsibility.
- Responded to five sinkhole calls with one being wastewater's responsibility.
- There were no dry weather overflows this month.
- There was one SSO at 17th Street and Arsenal Boulevard which occurred during the Arsenal Boulevard Sewer Replacement Project. A coupling on the bypass pump piping had failed and caused approximately 50 gallons of wastewater to overflow.
- Performed CCTV assessment for four sewer separation projects being designed by the Engineering department.
- Vactored 14 CSO chambers with grease buildup due to heavy accumulation created by the extended dry weather we have been experiencing. This is a new practice being implemented during drought periods to prevent DWOs.

Street Sweeping

- Received three complaints/inquiries this month. All were resolved.
- Completed 478 miles (estimate) of scheduled street sweeping within the City of Harrisburg.
- Water usage was 8,400 gallons.
- Attending the Green Stormwater Infrastructure meetings when scheduled.
- Winterized the Camp Curtain YMCA Green Stormwater Infrastructure (GSI) site for Stormwater Control Measures (SCM).
- Attended SCM Training at Penn and Sayford Park and 4th and Kelker playgrounds.
- There was one non-scheduled sweeping day in November. The crew performed Preventative Maintenance on equipment and cleaned inlets.

Environmental Compliance

- CRW's Environmental Compliance Inspector is on extended leave until spring 2025. In the meantime, FOG and Illicit Discharge inspections are being handled by other department managers.
- One illicit discharge was reported on November 19th in the 500 block of Camp Street when the Harrisburg Fire Department reported a fuel spill at a residence. Upon investigation, it was learned that the spill never reached the basement floor drain or entered CRW's system.



CAPITAL REGION™

WATER

Wastewater Exhibits

EXHIBIT A

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Process Control - 2024

Parameters	January	February	March	April	May	June	July	August	September	October	November	December	Average	NPDES Limits
Volume, MGD	32.0	23.0	26.7	31.9	26.4	19.4	16.3	20.0	16.3	14.8	14.1		21.9	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/L	106	119	106	104	116	156	281	155	195	196	211		159	-----
Effluent, mg/L	4	3	4	5	3	4	4	3	3	4	3		4	25
Percent Removal, %	95.2	97.7	94.7	91.7	97.3	97.7	98.6	97.5	98.1	98.2	98.6		96.8	-----
Effluent Loading, lb/d	1,119	509	1,162	1,751	649	583	532	595	416	425	330		734	7,860
Suspended Solids:														
Influent, mg/L	128	153	141	141	152	179	192	170	178	208	223		170	-----
Effluent, mg/L	5	3	10	8	3	4	4	6	5	5	6		5	30
Percent Removal, %	95.2	97.8	87.4	89.5	97.7	97.7	98.0	96.0	97.3	97.4	97.4		95.6	-----
Effluent Loading, lb/d	1,506	650	3,306	3,296	757	692	509	1,147	665	604	628		1,251	9,433
Nitrogen														
Total-N														
Influent, mg/L	20	24	23	20	23	28	30	27	28	28	35		26	-----
Effluent, mg/L	8.7	6.3	5.7	5.2	10.4	7.2	8.4	7.6	7.7	8.0	5.5		7	Monitor
Percent Removal, %	56.3	73.6	76	74.4	54.6	74.3	71.5	71.9	72.9	70.9	84.4		70.9	-----
Effluent Loading, lb/d	2,207	1,229	1,222	1,476	1,995	1,068	1,143	1,199	979	1,096	590		1,291	-----
NH3-N														
Influent mg/L	10	13	12	11	12	14	17	14	19	20	21		15	-----
Effluent, mg/L	0.4	0.4	0.8	0.7	0.5	0.5	0.4	0.5	3.0	5.2	2.7		1	11 (2)
Percent Removal, %	95.8	97.0	93.2	93.3	95.8	96.5	97.6	96.5	83.8	73.9	87.0		91.8	-----
Effluent Loading, lb/d	105	80	182	176	123	91	63	82	413	629	306		205	4,716
Phosphorus:														
Influent, mg/L	2.9	2.9	2.6	2.5	2.8	3.5	4.1	3.4	4.1	4.6	4.4		3.4	-----
Effluent, mg/L	1.1	1.1	1.0	1.0	1.3	1.7	1.6	1.2	1.4	1.1	1.8		1.3	2.0
Percent Removal, %	61.2	61.2	58.3	53.8	49.6	50.6	59.2	62.0	63.2	75.8	58.0		59.4	-----
Effluent Loading, lb/d	207	2	223	248	286	272	225	197	188	136	216		200	629
pH:														
Influent, Std. Units	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4		7.5	-----
Effluent, Std. Units	7.4	7.4	7.4	7.3	7.2	7.4	7.4	7.5	7.4	7.4	7.5		7.4	6.0 - 9.0
Dissolved Oxygen:														
Effluent Minimum, mg/L	6.1	6.2	6.2	7.6	7.1	6.3	7.0	6.7	7.2	7.7	7.6		6.9	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	96.7	19.6	41.3	27	<5.5	5.1	<5.1	10	<3.7	<2.9	<2.9		33	200/100 ml (1)
Chlorine Residual:														
Effluent, mg/L	0.19	0.17	0.20	0.20	0.40	0.46	0.41	0.45	0.41	0.19	0.18		0.30	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 - 2024

Month	Total			City Regions					Suburb Regions					Total Precip inches
	Flow	City	Suburbs	1	2	3	4	5	6	7	8	9	10	
January	32.000	14.481	17.519	13.200	0.281	0.300	0.140	0.560	1.800	6.600	3.229	5.280	0.610	6.920
February	23.000	9.642	13.358	8.520	0.202	0.300	0.450	0.170	1.500	4.980	2.318	4.070	0.490	2.840
March	26.700	11.268	15.432	9.730	0.238	0.300	0.740	0.260	1.600	5.700	2.742	4.480	0.910	4.620
April	31.900	15.200	16.700	12.600	0.250	0.300	1.450	0.600	1.900	5.850	2.870	5.360	0.720	5.320
May	26.400	11.792	14.608	10.220	0.222	0.300	0.820	0.230	1.500	5.250	2.548	4.480	0.830	5.650
June	19.400	8.818	10.582	7.760	0.178	0.300	0.380	0.200	1.400	4.220	2.052	2.500	0.410	5.950
July	16.300	7.344	8.956	6.720	0.124	0.300	0.080	0.120	1.200	3.900	1.426	2.090	0.340	1.010
August	20.000	9.346	10.654	8.310	0.146	0.300	0.300	0.290	1.400	4.410	1.684	2.720	0.440	6.640
September	16.300	6.811	9.489	6.310	0.131	0.300	(0.070)	0.140	1.200	4.230	1.509	2.230	0.320	2.660
October	14.800	4.786	10.014	4.700	0.126	0.300	(0.460)	0.120	1.200	4.340	1.454	2.360	0.660	0.610
November	14.100	4.263	9.837	4.930	0.113	0.300	(1.200)	0.120	1.100	4.880	1.297	2.050	0.510	1.950
December														
Average	21.90	9.43	12.47											4.02
Percent	100.00	43.07	56.93											44.17

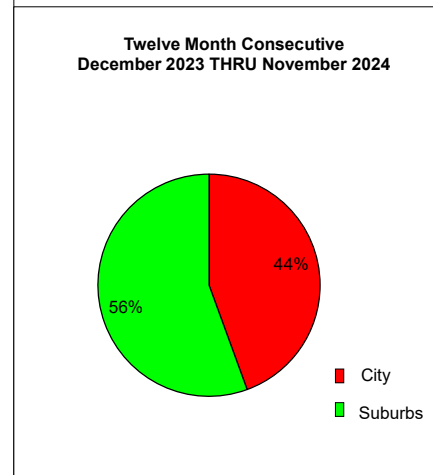
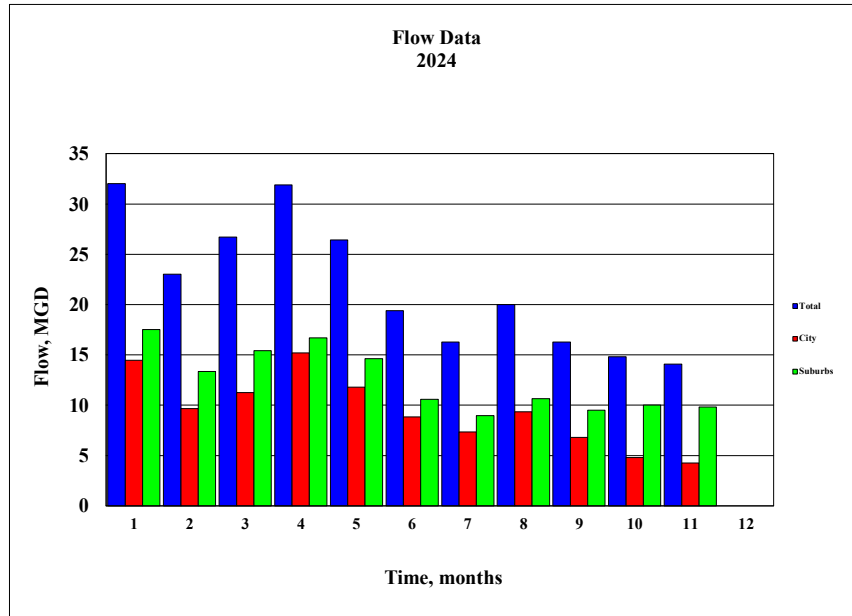


EXHIBIT C

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Treatment Utility and Chemical Usage - 2024

Utility / Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Electric														
Total, kWh	1,249,200	1,146,900	1,227,600	1,179,600	1,131,600	1,237,200	1,078,800	1,085,100	1,242,900	988,500	*		1,051,582	11,567,400
Average, kWh/Day	40,297	39,548	39,600	39,320	36,503	41,240	34,800	35,003	41,430	31,887	*			-----
Cost, Dollars	\$72,289.80	\$70,230.87	\$70,185.76	\$68,749.94	\$66,261.76	\$73,880.95	\$69,062.88	\$69,828.13	\$73,945.64	\$61,835.49	*		\$63,297.38	\$696,271.22
Natural Gas														
Total, Cu Ft	513.6	685.5	609.3	72.0	8.9	0.0	0.2	0.9	1.1	0.9	*		172	1,892
Average, Cu Ft/Day	17	24	20	2	0	0	0	0	0	0	*			-----
Cost, Dollars	\$4,613.64	\$6,641.81	\$4,673.91	\$1,463.71	\$216.21	\$144.01	\$144.41	\$150.95	\$151.75	\$150.94	*		\$1,668.30	\$18,351.34
Water														
Total, Gal.	889,000	825,000	779,000	942,000	993,000	1,052,000	855,000	830,000	547,000	1,127,000	*		883,900	8,839,000
Average, Gal./Day	28,677	26,613	25,129	31,400	32,032	35,067	27,581	26,774	18,233	36,355	*			-----
Cost, Dollars	\$12,810.85	\$12,129.25	\$11,639.35	\$13,055.80	\$13,918.45	\$14,546.80	\$12,448.75	\$12,182.50	\$9,168.55	\$15,345.55	*		\$11,567.80	\$127,245.85
MicroC														
Total, Gal.	0	0	0	0	3,080	0	0	0	0	0	0		280	3,080
Average, Gal./Day	0.0	0.0	0.0	0.0	385.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35	-----
Cost, Dollars	\$0	\$0.00	\$0	\$0	\$12,289	\$0	\$0	\$0	\$0	\$0	\$0		\$1,117.20	\$12,289.20
Sodium Hydroxide														
Total, Gal.	0	0	0	0	0	0	0	0	0	0	0		0	0
Average, Gal./Day	0	0	0	0	0	0	0	0	0	0	0		0	-----
Cost, Dollars	0	0	0	0	0	0	0	0	0	0	0		\$0.00	\$0.00
Chlorine Disinfection														
Total, Lbs.	13,145	8,990	10,980	8,430	11,685	8,020	10,750	9,780	7,800	4,985	4,436		9,000	99,001
Average, Lbs./Day	424	310	354	281	377	267	347	315	260	161	148		295	-----
Avg Residual, mg/L	0.19	0.17	0.20	0.20	0.40	0.46	0.41	0.45	0.41	0.19	0.18		0.30	-----
Cost, \$/Lbs.	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64		\$1.64	-----
Total Cost, Dollars	\$21,557.80	\$14,743.60	\$18,007.20	\$13,825.20	\$19,163.40	\$13,152.80	\$17,630.00	\$16,039.20	\$12,792.00	\$8,175.40	\$7,275.04		\$14,760.15	\$162,361.64
Phosphorous Removal														
Total FeCl ₃ , Gals.	1,660	1,445	1,367	1,238	1,307	2,236	8,153	3,621	2,640	2,589	7,645		3,082	33,900
Avg FeCl ₃ , Gals./Day	54	50	44	41	42	75	263	117	88	84	255		101	-----
FeCl ₃ Cost, \$/Gal.	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74		\$1.74	-----
FeCl ₃ Total Cost, Dollars	\$2,888.05	\$2,514.30	\$2,378.58	\$2,154.12	\$2,274.18	\$3,890.64	\$14,186.22	\$6,300.54	\$4,593.60	\$4,504.86	\$13,302.30		\$5,362.49	\$58,987.39

* No data at time of report

EXHIBIT D

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Cogeneration Electrical Production: 2023-2024

	Period	Percent Run Time	Daily Avg Kilowatt	Kilowatt Hours Produced	Estimated Revenue
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		0	0	0	\$0.00
October 2023		13	4,936	15,300	\$2,256.90
November 2023		26	1,140	34,200	\$5,044.84
December 2023		7	290	9,000	\$1,327.59
<hr/>					
Total - 2023				340,200	\$48,202.61
Monthly Average - 2023		23	1,309	28,350	\$4,016.88
<hr/>					
January 2024		2	87	2,700	\$315.77
February 2024		0	0	0	\$0.00
March 2024		3	116	3,600	\$421.02
April 2024		14	480	14,400	\$1,684.08
May 2024		30	1,016	31,500	\$3,683.93
June 2024		7	240	7,200	\$842.04
July 2024		0	0	0	\$0.00
August 2024		0	0	0	\$0.00
September 2024		0	0	0	\$0.00
October 2024		0	0	0	\$0.00
November 2024		0	0	0	\$0.00
December 2024					
<hr/>					
Total - 2024				59,400	\$6,946.83
Monthly Average - 2024		5	176	5,400	\$631.53

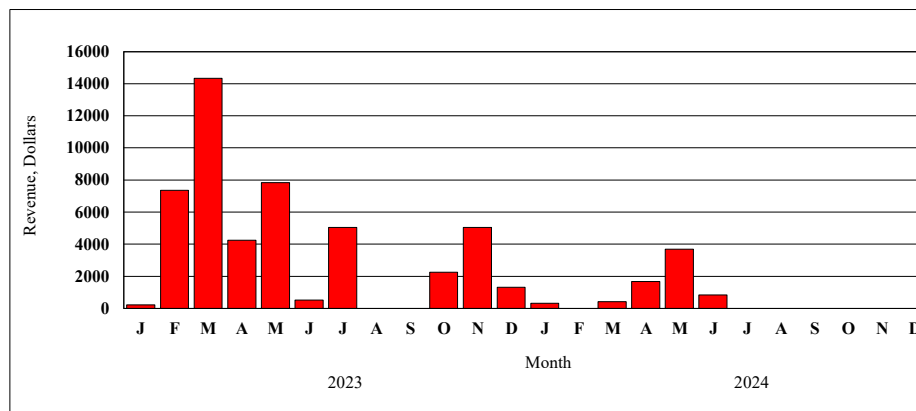


EXHIBIT E

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Sludge Handling Information - 2024

Process	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Solids Removal														
Process, Lbs.	542,856	203,990	578,118	1,086,920	1,386,456	1,213,303	958,277	887,271	912,703	1,347,614	1,373,441		953,723	10,490,948
CWH Program, Lbs.	602,885	682,243	717,826	266,504	213,356	192,204	142,244	237,686	118,321	110,589			328,386	3,283,859
Total Solids, Lbs.	1,145,741	886,233	1,295,944	1,353,424	1,599,812	1,405,507	1,100,521	1,124,957	1,031,024	1,458,203	1,373,441		1,252,255	13,774,807
Sludge Dewatering														
Feed Volume, Gals.	3,466,000	3,659,000	4,085,000	3,870,000	5,456,000	3,063,000	3,291,000	3,967,000	4,719,000	5,597,000	5,381,000			
Feed Solids, %	2.2	2.1	1.7	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.5		1.8	20.0
Labor, Hours	959	1,062	1,108	1,074	1,351	1,310	1,148	1,039	1,145	1,241	1,179		1,147	12,615
Operations, Hours	520	548	579	564	697	665	686	723	573	620	652		621	6,827
Total Cake, Dry Tons	184	212	147	165	301	298	268	266	232	225	381		244	2,679
Total Cake, Wet Tons	1,201	1,325	992	1,012	1,912	1,830	1,642	1,631	1,440	1,493	1,622		1,464	16,100
Cake TS, %	16.1	16.0	16.1	16.3	15.8	16.3	16.3	16.3	16.1	15.2	15.2		16.0	175.7
Press Rate, Lbs./Hour	4,617	4,836	3,428	3,586	5,484	5,504	4,788	4,512	5,031	4,813	4,979		4,689	51,576
Polymer Dosage, Lbs	3,069	3,736	3,472	3,587	5,656	5,846	4,724	4,455	3,683	4,335	5,233		4,345	47,798
Polymer Dosage, Lbs/Dry Ton	16.7	17.6	23.6	21.7	18.8	19.6	17.7	19.4	15.9	19.8	22.4		19.4	213.2
Disposal Cost														
Labor, Dollars	\$18,435.82	\$20,415.48	\$21,297.68	\$20,638.44	\$25,958.53	\$25,178.20	\$22,056.87	\$19,977.27	\$21,999.21	\$23,850.10	\$22,652.69		\$22,041.85	\$242,460.30
Electrical, Dollars	\$228.93	\$241.12	\$254.67	\$248.34	\$306.81	\$292.60	\$301.80	\$318.12	\$251.90	\$273.00	\$286.66		\$273.09	\$3,003.95
Polymer, Dollars	\$5,984.55	\$7,285.20	\$6,770.40	\$6,994.65	\$11,029.20	\$11,400.29	\$9,212.39	\$8,687.84	\$7,182.63	\$8,453.64	\$10,204.35		\$8,473.19	\$93,205.13
Disposal, Dollars	\$40,940.90	\$33,387.70	\$35,166.10	\$40,832.00	\$51,643.10	\$46,006.20	\$53,280.70	\$95,996.50	\$40,789.00	\$45,876.60	\$52,568.50		\$48,771.57	\$536,487.30
Total Cost, Dollars	\$65,590.21	\$61,329.50	\$63,488.85	\$68,713.42	\$88,937.64	\$82,877.29	\$84,851.75	\$124,979.72	\$70,222.74	\$78,453.34	\$85,712.20		\$79,559.70	\$875,156.67
Cost Per Dry Ton, Dollars	\$356.47	\$289.29	\$431.90	\$416.44	\$416.44	\$295.47	\$278.11	\$317.03	\$469.85	\$302.68	\$348.68		\$356.58	\$3,922.38

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Conveyance Utility Usage - 2024

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Front Street Pump Station														
Electric														
Total, kWh	151,200	172,800	169,200	213,600	138,000	73,200	66,000	73,200	52,800	64,800	*		117,480	1,174,800
Average, kWh/Day	4,877	5,959	5,458	7,120	4,452	2,440	2,129	2,361	1,760	2,090	*		3,865	----
Cost, Dollars	\$10,483.32	\$10,711.75	\$10,285.01	\$12,684.75	\$9,430.26	\$6,782.46	\$6,136.00	\$6,906.66	\$5,165.65	\$6,349.64	*		\$8,493.55	\$84,935.50
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average, Gals./Day	0	0	0	0	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	\$0.00	\$0.00	0	\$0.00
Water														
Total, Gals.	416,000	314,000	233,000	269,000	359,000	393,000	617,000	432,000	399,000	332,000	*		376,400	3,764,000
Average, Gal./Day	13,419	10,828	7,516	8,967	11,581	13,100	19,903	13,935	13,300	10,710	*		12,326	----
Cost, Dollars	\$5,126.92	\$4,040.62	\$3,177.97	\$3,561.37	\$4,519.87	\$4,881.97	\$7,267.57	\$5,297.32	\$4,945.87	\$4,232.32	*			\$47,051.80
Spring Creek Pump Station														
Electric														
Total, kWh	77,120	80,000	76,800	84,800	59,200	67,840	56,960	53,760	59,200	51,520	*		66,720	667,200
Average, kWh/Day	2,488	2,759	2,477	2,827	1,910	2,261	1,837	1,734	1,973	1,662	*		2,193	----
Cost, Dollars	\$5,819.27	\$5,979.67	\$5,414.43	\$5,885.98	\$4,339.79	\$4,969.93	\$4,701.79	\$4,430.37	\$4,772.80	\$4,241.41	*		\$5,055.54	\$50,555.44
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average, Gals./Day	0	0	0	0	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	\$0.00	\$0.00	\$0.00	\$0.00
Water														
Total, Gals.	115,000	93,000	88,000	101,000	100,000	97,000	94,000	90,000	103,000	91,000	*		97,200	972,000
Average, Gal./Day	3,710	3,207	2,839	3,367	3,226	3,233	3,133	2,903	3,433	2,935	*		3,199	----
Cost, Dollars	\$1,300.74	\$1,066.44	\$1,013.19	\$1,151.64	\$1,140.99	\$1,109.04	\$1,077.09	\$1,034.49	\$1,172.94	\$1,045.14	*		\$1,111.17	\$11,111.70
Market Street Pump Station														
Electric														
Total, kWh	1,320	1,440	1,080	1,320	840	840	720	480	1,080	840	*		996	9,960
Average, kWh/Day	43	50	35	44	27	28	23	15	36	27	*		33	----
Cost, Dollars	\$164.58	\$165.42	\$158.54	\$168.92	\$138.54	\$148.92	\$130.54	\$95.17	\$290.36	\$174.42	*		\$163.54	\$1,635.41
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average, Gals./Day	0	0	0	0	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	\$0.00	\$0.00	\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kWh	40	40	40	40	720	800	680	160	40	40	*		260	2,600
Average, kWh/Day	1	1	1	1	23	27	22	5	1	1	*		8	----
Cost, Dollars	\$64.23	\$62.02	\$65.06	\$64.66	\$97.10	\$100.05	\$98.35	\$72.80	\$64.50	\$63.95	*		\$75.27	\$752.72

* No Data at time of report

EXHIBIT G

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

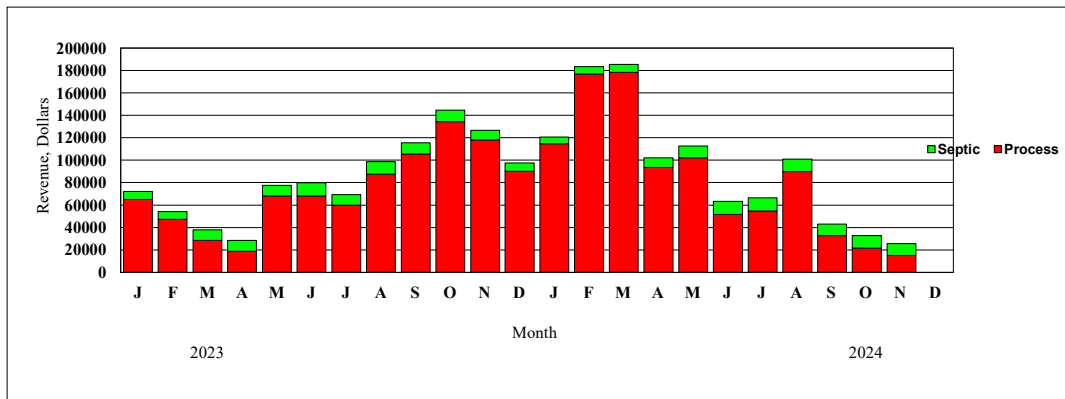
Contract Waste Hauling Program 2023 - 2024

Month	Process		Septic		Total	
	Gallons	Revenue	Gallons	Revenue	Gallons	Revenue
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	2,137,570	\$105,510.75	276,550	\$9,849.60	2,414,120	\$115,360.35
October	2,340,860	\$134,366.80	288,550	\$10,332.90	2,629,410	\$144,699.70
November	1,762,060	\$118,125.70	239,550	\$8,610.30	2,001,610	\$126,736.00
December	1,543,690	\$90,184.38	205,450	\$7,378.20	1,749,140	\$97,562.58

Total - 2023	18,924,000	\$892,181.24	3,112,250	\$110,844.90	22,036,250	\$1,003,026.14
Monthly Average - 2023	1,577,000	\$74,348.44	259,354	\$9,237.08	1,836,354	\$83,585.51

January	2,077,950	\$114,775.25	161,300	\$5,749.20	2,239,250	\$120,524.45
February	3,281,800	\$176,962.65	174,000	\$6,217.20	3,455,800	\$183,179.85
March	3,634,040	\$178,316.53	193,500	\$6,916.50	3,827,540	\$185,233.03
April	3,041,860	\$93,459.72	245,100	\$8,787.60	3,286,960	\$102,247.32
May	2,713,190	\$102,025.04	295,000	\$10,534.50	3,008,190	\$112,559.54
June	1,431,290	\$51,730.00	320,300	\$11,490.30	1,751,590	\$63,220.77
July	1,641,300	\$54,832.46	324,750	\$11,619.00	1,966,050	\$66,451.46
August	2,781,170	\$89,753.53	315,600	\$11,316.60	3,096,770	\$101,052.13
September	843,700	\$32,760.90	293,000	\$10,431.00	1,136,700	\$43,191.90
October	526,920	\$21,583.31	314,400	\$11,275.65	841,320	\$32,858.96
November	342,770	\$15,255.35	293,500	\$10,488.60	636,270	\$25,743.95
December						

Total - 2024	22,315,990	\$931,454.74	2,930,450	\$104,826.15	25,246,440	\$1,036,263.36
Monthly Average - 2024	2,028,726	\$84,677.70	266,405	\$9,529.65	2,295,131	\$94,205.76





CAPITAL REGION™

WATER

WASTEWATER DEPARTMENT MONTHLY REPORT



New Electrical Ductbanks between the Electrical Building and the Gas Purification Skid.

December 2024

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

Overview

Capital Region Water was finally issued a new National Pollutant Discharge Elimination System (NPDES) permit by the Pennsylvania Department of Environmental Protection (PADEP) and the United States Environmental Protection Agency (USEPA) for treatment and discharge requirements at the Advanced Wastewater Treatment Facility (AWTF) and Combined Sewer Overflow (CSO) system. This permit took effect December 1, 2024. CRW has been operating under a permit that expired ten years ago. With numerous changes to the permit conditions, AWTF Operations and Laboratory staff worked seamlessly together to accommodate all of the new requirements and fulfill all the new obligations of the permit.

As is typical with NPDES permits, more stringent limits are required in the summer months. Operations and Laboratory staff are already exploring new treatment strategies to meet those limitations that take effect on May 1st.

The new permit also required CRW to undertake a site-specific dilution study to aid in calculation of a more accurate Total Residual Chlorine limit. A study proposal is due to PADEP by January 31, 2025. CRW is well-engaging with an engineering consultant and has already held several meetings to develop the proposal in order to meet the deadline.

Operations

During the month of December, the AWTF met all monthly average NPDES requirements. Two Dry Weather Overflows were reported.

Hydraulic loading to the AWTF averaged 17.1 million gallons per day (MGD) during the month. The treatment process achieved removal reductions of 97.8 percent CBOD, 97.3 percent Suspended Solids, 71.8 percent Phosphorus, and 87.9 percent Ammonia (Exhibit A).

The Contract Waste Hauling program collected \$39,943.80 in revenue from 934,900 gallons discharged (Exhibit G). Continued dry and cold weather hinders the waste hauling program. Slight increase in revenue due to some leachate returning for the month of December.

The Cogeneration Facility experienced a run time of 0.0 percent in December. The unit was offline all month due to ongoing mechanical issues and long lead times on parts. These issues are being addressed in the month of January.

Laboratory

- Started additional sampling for Total Nitrogen and metals (Al, Zn) to be compliant with our new NPDES permit.
- Built new spread reports in WIMS that mirror our new NPDES Permit Supplemental Reports as we continue modifications to stay in compliance.
- Fume hood replacement is underway by our Maintenance department to ensure proper ventilation of odor and heat from the muffle furnace.
- Submitted the laboratory accreditation renewal package to PADEP for review.

Pretreatment

- Completed the remaining facility inspections at Norfolk Southern Railway Corporation, Hershey Creamery, and Harrisburg Dairies, Inc. Found minor violations at Harrisburg Dairies that will be corrected.
- Compiling a list of license plates by haulers to comply with new NPDES Permit Supplemental Report requirements. Wastewater will be getting more clarification from PADEP as to whether we can submit our own comprehensive WIMS report rather than use their forms which are not suited for the size of our waste hauling program.
- Getting data ready to work on the annual Chapter 94 report due by the end of March.

Plant Maintenance

- Rebuilt the plant's Water Skid Filter system.
- Rebuilt safety switches on the Belt Press Conveyor.
- Cleaned the elevator shaft pit that was reported as a compliance violation by Labor and Industry.
- Repaired the safety switches for the overhead garage doors in the truck garage.
- The bar screen at Spring Creek Pump Station is out of service for clutch failure until a new one can be located.
- Performed weekly service and maintenance on the JCB wheel loader.
- Performed monthly vehicle maintenance in preparation for state inspections.
- Prepping and branding new vehicles as well as preparation of old vehicles for Municibid sales.
- Performed monthly maintenance on the stand-by generator at Market Street Pump Station.
- Repaired Divert Strainer which was broken due to large amounts of unscreened product being delivered.
- Currently performing the annual preventative maintenance on all facility mechanical equipment which requires lubrication changes.
- Performed maintenance tasks per requests of the 3003 N. Front Street Office Building.

Field Construction

- Repaired three stormwater inlets at various locations throughout the city of Harrisburg.
- Replaced a brick inlet on Burma Street between South 25th and Hatton streets with a new precast concrete inlet box and M-top.
- Replace 150 feet of 8-inch VCP (Vitrified Clay Pipe) with new 8-inch Standard Dimension Ratio (SDR) schedule 35 pipe.
- Hauled large accumulation of excavated material from prior projects to make room for spoils from future projects.

Field Operations

- Performed CCTV assessment of 5,887 feet (1.11 miles) of pipe.
- Flushed 4,832 feet (0.92 miles) of sewer pipe.
- Responded to five backup and overflow calls with none being CRW's responsibility.
- Responded to three sinkhole calls with none being CRW's responsibility.
- There were two dry weather overflows this month. Both were due to blockages of the gate by heavy accumulations of grease and rags. CRW's new Field Operations Supervisor is developing new strategies to dramatically reduce the frequency of these types of blockages. The measures will be implemented in the coming months.
- Cleaned 15 inlets this month.
- CCTV'd for four sewer separations project requested by the Engineering department.

Street Sweeping

- Received five complaints this month and all were resolved.
- Completed 20 inlet inspections. Inspections are low due to minimal staff.
- Hired a new employee who is an internal transfer from Drinking Water. Start date is January 6, 2025.
- One street sweeper is out of service and waiting for repair by A&H Equipment.
- Completed 564 miles (estimate) of scheduled street sweeping within the City of Harrisburg.
- Water usage was 4,800 gallons. Usage was low due to weather conditions and canceled dates.
- Attended the Green Stormwater Infrastructure meetings, when scheduled.
- Investigated damage to a tree at the 15th and Hunter Streets GSI site. The tree will be replaced.
- There were two non-scheduled sweeping days in December. The crew performed preventative maintenance on equipment and cleaned inlets. Swept Front Street on both sides and cleaned up the alley at Peiffer and Walter.



Environmental Compliance

- CRW's Environmental Compliance Inspector is on extended leave until spring 2025. In the meantime, FOG and Illicit Discharge inspections are being handled by other department managers.



CAPITAL REGION™

WATER

Wastewater Exhibits

EXHIBIT A

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Process Control - 2024

Parameters	January	February	March	April	May	June	July	August	September	October	November	December	Average	NPDES Limits
Volume, MGD	32.0	23.0	26.7	31.9	26.4	19.4	16.3	20.0	16.3	14.8	14.1	17.1	21.5	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/L	106	119	106	104	116	156	281	155	195	196	198	179	159	----
Effluent, mg/L	4	3	4	5	3	4	4	3	3	4	3	3	4	25
Percent Removal, %	95.2	97.7	94.7	91.7	97.3	97.7	98.6	97.5	98.1	98.2	98.5	97.8	96.9	----
Effluent Loading, lb/d	1,119	509	1,162	1,751	649	583	532	595	416	425	358	537	720	7,860
Suspended Solids:														
Influent, mg/L	128	153	141	141	152	179	192	170	178	208	216	207	172	----
Effluent, mg/L	5	3	10	8	3	4	4	6	5	5	6	4	5	30
Percent Removal, %	95.2	97.8	87.4	89.5	97.7	97.7	98.0	96.0	97.3	97.4	97.3	97.3	95.7	----
Effluent Loading, lb/d	1,506	650	3,306	3,296	757	692	509	1,147	665	604	645	711	1,207	9,433
Nitrogen														
Total-N														
Influent, mg/L	20	24	23	20	23	28	30	27	28	28	36	36	27	----
Effluent, mg/L	8.7	6.3	5.7	5.2	10.4	7.2	8.4	7.6	7.7	8.0	5.1	5.5	7	Monitor
Percent Removal, %	56.3	73.6	76	74.4	54.6	74.3	71.5	71.9	72.9	70.9	85.9	84.5	72.2	----
Effluent Loading, lb/d	2,207	1,229	1,222	1,476	1,995	1,068	1,143	1,199	979	1,096	562	688	1,239	----
NH3-N														
Influent, mg/L	10	13	12	11	12	14	17	14	19	20	20	20	15	----
Effluent, mg/L	0.4	0.4	0.8	0.7	0.5	0.5	0.4	0.5	3.0	5.2	2.3	2.4	1	11 (2)
Percent Removal, %	95.8	97.0	93.2	93.3	95.8	96.5	97.6	96.5	83.8	73.9	88.7	87.9	91.7	----
Effluent Loading, lb/d	105	80	182	176	123	91	63	82	413	629	264	355	214	4,716
Phosphorus:														
Influent, mg/L	2.9	2.9	2.6	2.5	2.8	3.5	4.1	3.4	4.1	4.6	4.4	4.1	3.5	----
Effluent, mg/L	1.1	1.1	1.0	1.0	1.3	1.7	1.6	1.2	1.4	1.1	1.8	1.2	1.3	2.0
Percent Removal, %	61.2	61.2	58.3	53.8	49.6	50.6	59.2	62.0	63.2	75.8	61.5	71.8	60.7	----
Effluent Loading, lb/d	207	2	223	248	286	272	225	197	188	136	200	153	195	629
pH:														
Influent, Std. Units	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4	7.4	7.5	----
Effluent, Std. Units	7.4	7.4	7.4	7.3	7.2	7.4	7.4	7.5	7.4	7.4	7.5	7.4	7.4	6.0 - 9.0
Dissolved Oxygen:														
Effluent Minimum, mg/L	6.1	6.2	6.2	7.6	7.1	6.3	7.0	6.7	7.2	7.7	7.6	7.9	7.0	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	96.7	19.6	41.3	27	<5.5	5.1	<5.1	10	<3.7	<2.9	<2.9	<3.5	33	200/100 ml (1)
Chlorine Residual:														
Effluent, mg/L	0.19	0.17	0.20	0.20	0.40	0.46	0.41	0.45	0.41	0.19	0.18	0.33	0.30	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 - 2024

Month	Total			City Regions					Suburb Regions					Total Precip inches
	Flow	City	Suburbs	1	2	3	4	5	6	7	8	9	10	
January	32.000	14.481	17.519	13.200	0.281	0.300	0.140	0.560	1.800	6.600	3.229	5.280	0.610	6.920
February	23.000	9.642	13.358	8.520	0.202	0.300	0.450	0.170	1.500	4.980	2.318	4.070	0.490	2.840
March	26.700	11.268	15.432	9.730	0.238	0.300	0.740	0.260	1.600	5.700	2.742	4.480	0.910	4.620
April	31.900	15.200	16.700	12.600	0.250	0.300	1.450	0.600	1.900	5.850	2.870	5.360	0.720	5.320
May	26.400	11.792	14.608	10.220	0.222	0.300	0.820	0.230	1.500	5.250	2.548	4.480	0.830	5.650
June	19.400	8.818	10.582	7.760	0.178	0.300	0.380	0.200	1.400	4.220	2.052	2.500	0.410	5.950
July	16.300	7.344	8.956	6.720	0.124	0.300	0.080	0.120	1.200	3.900	1.426	2.090	0.340	1.010
August	20.000	9.346	10.654	8.310	0.146	0.300	0.300	0.290	1.400	4.410	1.684	2.720	0.440	6.640
September	16.300	6.811	9.489	6.310	0.131	0.300	(0.070)	0.140	1.200	4.230	1.509	2.230	0.320	2.660
October	14.800	4.786	10.014	4.700	0.126	0.300	(0.460)	0.120	1.200	4.340	1.454	2.360	0.660	0.610
November	14.100	4.263	9.837	4.930	0.113	0.300	(1.200)	0.120	1.100	4.880	1.297	2.050	0.510	1.950
December	17.100	6.546	10.554	6.180	0.136	0.300	(0.210)	0.140	1.200	4.470	1.564	3.020	0.300	3.090
Average	21.50	9.19	12.31											3.94
Percent	100.00	42.75	57.25											47.26

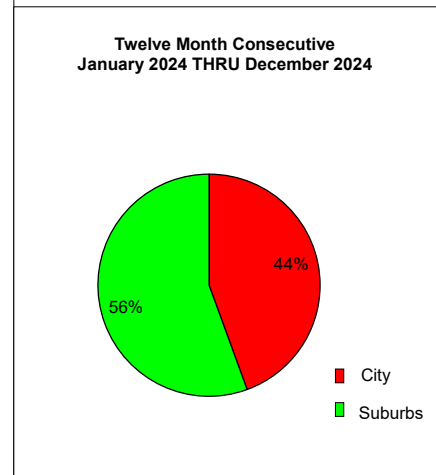
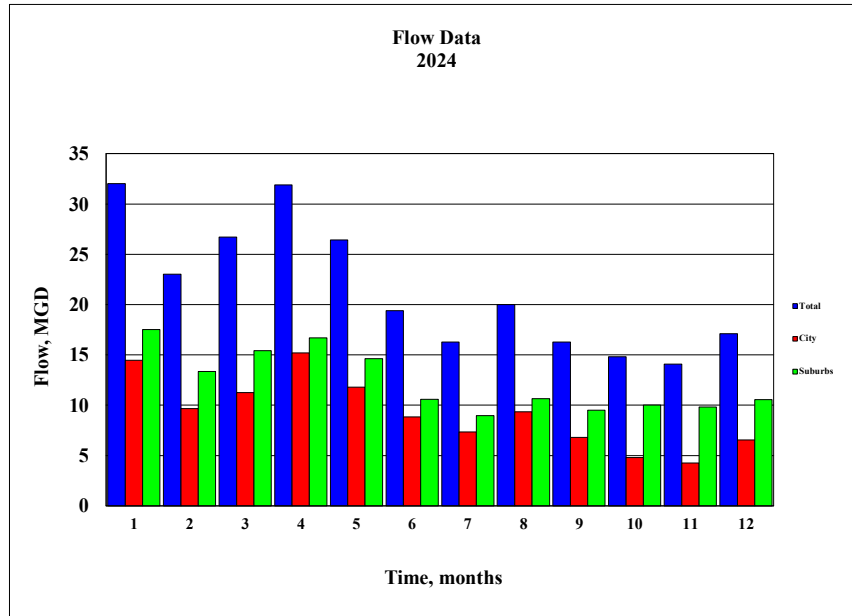


EXHIBIT C

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Treatment Utility and Chemical Usage - 2024

Utility / Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total	
Electric															
Total, kWh	1,249,200	1,146,900	1,227,600	1,179,600	1,131,600	1,237,200	1,078,800	1,085,100	1,242,900	988,500	1,003,200	1,149,300	1,143,325	13,719,900	
Average, kWh/Day	40,297	39,548	39,600	39,320	36,503	41,240	34,800	35,003	41,430	31,887	33,440	37,074	-----	-----	
Cost, Dollars	\$72,289.80	\$70,230.87	\$70,185.76	\$68,749.94	\$66,261.76	\$73,880.95	\$69,062.88	\$69,828.13	\$73,945.64	\$61,835.49	\$61,439.25	\$71,189.83	\$69,075.03	\$828,900.30	
Natural Gas															
Total, Cu Ft	513.6	685.5	609.3	72.0	8.9	0.0	0.2	0.9	1.1	0.9	428.3	*	193	2,321	
Average, Cu Ft/Day	17	24	20	2	0	0	0	0	0	0	14	*	-----	-----	
Cost, Dollars	\$4,613.64	\$6,641.81	\$4,673.91	\$1,463.71	\$216.21	\$144.01	\$144.41	\$150.95	\$151.75	\$150.94	\$3,641.24	*	\$1,832.72	\$21,992.58	
Water															
Total, Gal.	889,000	825,000	779,000	942,000	993,000	1,052,000	855,000	830,000	547,000	1,127,000	782,999	*	874,727	9,621,999	
Average, Gal./Day	28,677	26,613	25,129	31,400	32,032	35,067	27,581	26,774	18,233	36,355	26,100	*	-----	-----	
Cost, Dollars	\$12,810.85	\$12,129.25	\$11,639.35	\$13,055.80	\$13,918.45	\$14,546.80	\$12,448.75	\$12,182.50	\$9,168.55	\$15,345.55	\$11,681.94	*	\$11,577.32	\$138,927.79	
MicroC															
Total, Gal.	0	0	0	0	3,080	0	0	0	0	0	0	0	0	257	3,080
Average, Gal./Day	0.0	0.0	0.0	0.0	385.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32	-----
Cost, Dollars	\$0	\$0.00	\$0	\$0	\$12,289	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,024.10	\$12,289.20
Sodium Hydroxide															
Total, Gal.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average, Gal./Day	0	0	0	0	0	0	0	0	0	0	0	0	0	-----	
Cost, Dollars	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
Chlorine Disinfection															
Total, Lbs.	13,145	8,990	10,980	8,430	11,685	8,020	10,750	9,780	7,800	4,985	4,436	7,590	8,883	106,591	
Average, Lbs./Day	424	310	354	281	377	267	347	315	260	161	148	245	291	-----	
Avg Residual, mg/L	0.19	0.17	0.20	0.20	0.40	0.46	0.41	0.45	0.41	0.19	0.18	0.33	0.30	-----	
Cost, \$/Lbs.	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64	-----	
Total Cost, Dollars	\$21,557.80	\$14,743.60	\$18,007.20	\$13,825.20	\$19,163.40	\$13,152.80	\$17,630.00	\$16,039.20	\$12,792.00	\$8,175.40	\$7,275.04	\$12,447.60	\$14,760.15	\$162,361.64	
Phosphorous Removal															
Total FeCl3, Gals.	1,660	1,445	1,367	1,238	1,307	2,236	8,153	3,621	2,640	2,589	7,645	8,789	3,557	42,689	
Avg FeCl3, Gals./Day	54	50	44	41	42	75	263	117	88	84	255	284	116	-----	
FeCl3 Cost, \$/Gal.	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74	-----	
FeCl3 Total Cost, Dollars	\$2,888.05	\$2,514.30	\$2,378.58	\$2,154.12	\$2,274.18	\$3,890.64	\$14,186.22	\$6,300.54	\$4,593.60	\$4,504.86	\$13,302.30	\$15,292.86	\$6,190.02	\$74,280.25	

* No data at time of report

EXHIBIT D

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Cogeneration Electrical Production: 2023-2024

	Period	Percent Run Time	Daily Avg Kilowatt	Kilowatt Hours Produced	Estimated Revenue
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		0	0	0	\$0.00
October 2023		13	4,936	15,300	\$2,256.90
November 2023		26	1,140	34,200	\$5,044.84
December 2023		7	290	9,000	\$1,327.59
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Total - 2023				340,200	\$48,202.61
Monthly Average - 2023		23	1,309	28,350	\$4,016.88
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January 2024		2	87	2,700	\$315.77
February 2024		0	0	0	\$0.00
March 2024		3	116	3,600	\$421.02
April 2024		14	480	14,400	\$1,684.08
May 2024		30	1,016	31,500	\$3,683.93
June 2024		7	240	7,200	\$842.04
July 2024		0	0	0	\$0.00
August 2024		0	0	0	\$0.00
September 2024		0	0	0	\$0.00
October 2024		0	0	0	\$0.00
November 2024		0	0	0	\$0.00
December 2024		0	0	0	\$0.00
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Total - 2024				59,400	\$6,946.83
Monthly Average - 2024		5	162	4,950	\$578.90

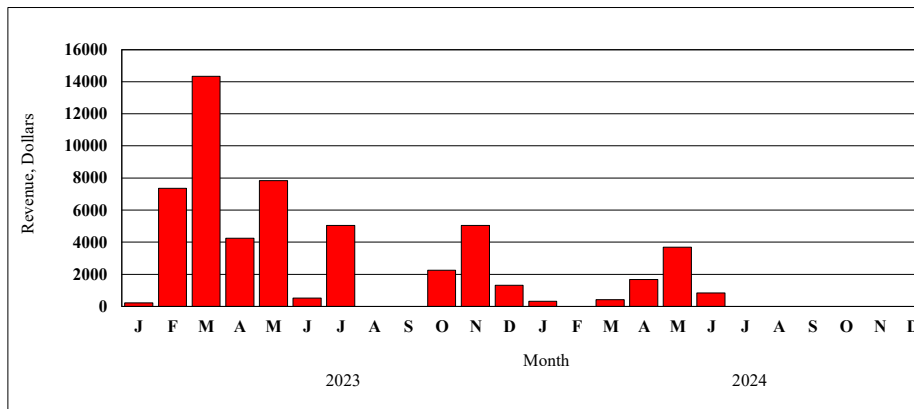


EXHIBIT E

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Sludge Handling Information - 2024

Process	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Solids Removal														
Process, Lbs.	542,856	203,990	578,118	1,086,920	1,386,456	1,213,303	958,277	887,271	912,703	1,347,614	1,282,385	1,701,738	1,008,469	12,101,630
CWH Program, Lbs.	602,885	682,243	717,826	266,504	213,356	192,204	142,244	237,686	118,321	110,589	91,056	124,843	291,646	3,499,758
Total Solids, Lbs.	1,145,741	886,233	1,295,944	1,353,424	1,599,812	1,405,507	1,100,521	1,124,957	1,031,024	1,458,203	1,373,441	1,826,581	1,300,116	15,601,388
Sludge Dewatering														
Feed Volume, Gals.	3,466,000	3,659,000	4,085,000	3,870,000	5,456,000	3,063,000	3,291,000	3,967,000	4,719,000	5,597,000	5,381,000	4,102,000	4,221,333	50,656,000
Feed Solids, %	2.2	2.1	1.7	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.5	1.8	1.8	21.8
Labor, Hours	959	1,062	1108	1074	1351	1310	1148	1039	1145	1241	1179	1156	1,148	13,771
Operations, Hours	520	548	579	564	697	665	686	723	573	620	652	601	619	7,428
Total Cake, Dry Tons	184	212	147	165	301	298	268	266	232	225	247	161	225	2,706
Total Cake, Wet Tons	1,201	1,325	992	1,012	1,912	1,830	1,642	1,631	1,440	1,493	1,622	1,207	1,442	17,307
Cake TS, %	16.1	16.0	16.1	16.3	15.8	16.3	16.3	16.3	16.1	15.2	15.2	15.5	15.9	191.2
Press Rate, Lbs./Hour	4,617	4,836	3,428	3,586	5,484	5,504	4,788	4,512	5,031	4,813	4,979	4,017	4,633	55,593
Polymer Dosage, Lbs	3,069	3,736	3,472	3,587	5,656	5,846	4,724	4,455	3,683	4,335	5,233	4,010	4,317	51,807
Polymer Dosage, Lbs/Dry Ton	16.7	17.6	23.6	21.7	18.8	19.6	17.7	19.4	15.9	19.8	22.0	22.7	19.6	235.4
Disposal Cost														
Labor, Dollars	\$18,435.82	\$20,415.48	\$21,297.68	\$20,638.44	\$25,958.53	\$25,178.20	\$22,056.87	\$19,977.27	\$21,999.21	\$23,850.10	\$22,652.69	\$22,226.01	\$22,057.19	\$264,686.31
Electrical, Dollars	\$228.93	\$241.12	\$254.67	\$248.34	\$306.81	\$292.60	\$301.80	\$318.12	\$251.90	\$273.00	\$286.66	\$264.44	\$272.37	\$3,268.39
Polymer, Dollars	\$5,984.55	\$7,285.20	\$6,770.40	\$6,994.65	\$11,029.20	\$11,400.29	\$9,212.39	\$8,687.84	\$7,182.63	\$8,453.64	\$10,204.35	\$7,818.53	\$8,418.64	\$101,023.65
Disposal, Dollars	\$40,940.90	\$33,387.70	\$35,166.10	\$40,832.00	\$51,643.10	\$46,006.20	\$53,280.70	\$95,996.50	\$40,789.00	\$45,876.60	\$52,568.50	\$43,485.00	\$48,331.03	\$579,972.30
Total Cost, Dollars	\$65,590.21	\$61,329.50	\$63,488.85	\$68,713.42	\$88,937.64	\$82,877.29	\$84,851.75	\$124,979.72	\$70,222.74	\$78,453.34	\$85,712.20	\$73,793.97	\$79,079.22	\$948,950.64
Cost Per Dry Ton, Dollars	\$356.47	\$289.29	\$431.90	\$416.44	\$416.44	\$295.47	\$278.11	\$317.03	\$469.85	\$302.68	\$348.68	\$347.01	\$355.78	\$4,269.39

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Conveyance Utility Usage - 2024

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Front Street Pump Station														
Electric														
Total, kWh	151,200	172,800	169,200	213,600	138,000	73,200	66,000	73,200	52,800	64,800	46,800	*	111,055	1,221,600
Average, kWh/Day	4,877	5,959	5,458	7,120	4,452	2,440	2,129	2,361	1,760	2,090	1,560	*	3,655	-----
Cost, Dollars	\$10,483.32	\$10,711.75	\$10,285.01	\$12,684.75	\$9,430.26	\$6,782.46	\$6,136.00	\$6,906.66	\$5,165.65	\$6,349.64	\$4,486.25	*	\$8,129.25	\$89,421.75
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average, Gals./Day	0	0	0	0	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	\$0.00	\$0.00	\$0.00	\$0.00
Water														
Total, Gals.	416,000	314,000	233,000	269,000	359,000	393,000	617,000	432,000	399,000	332,000	271,000	*	366,818	4,035,000
Average, Gal./Day	13,419	10,828	7,516	8,967	11,581	13,100	19,903	13,935	13,300	10,710	9,033	*	12,027	-----
Cost, Dollars	\$5,126.92	\$4,040.62	\$3,177.97	\$3,561.37	\$4,519.87	\$4,881.97	\$7,267.57	\$5,297.32	\$4,945.87	\$4,232.32	\$3,582.67	*		\$50,634.47
Spring Creek Pump Station														
Electric														
Total, kWh	77,120	80,000	76,800	84,800	59,200	67,840	56,960	53,760	59,200	51,520	49,600	60,800	64,800	777,600
Average, kWh/Day	2,488	2,759	2,477	2,827	1,910	2,261	1,837	1,734	1,973	1,662	1,653	1,961	2,129	-----
Cost, Dollars	\$5,819.27	\$5,979.67	\$5,414.43	\$5,885.98	\$4,339.79	\$4,969.93	\$4,701.79	\$4,430.37	\$4,772.80	\$4,241.41	\$3,372.44	\$4,250.69	\$4,848.21	\$58,178.57
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average, Gals./Day	0	0	0	0	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	\$0.00	\$0.00	\$0.00	\$0.00
Water														
Total, Gals.	115,000	93,000	88,000	101,000	100,000	97,000	94,000	90,000	103,000	91,000	99,000	*	97,364	1,071,000
Average, Gal./Day	3,710	3,207	2,839	3,367	3,226	3,233	3,133	2,903	3,433	2,935	3,300	*	3,208	-----
Cost, Dollars	\$1,300.74	\$1,066.44	\$1,013.19	\$1,151.64	\$1,140.99	\$1,109.04	\$1,077.09	\$1,034.49	\$1,172.94	\$1,045.14	\$1,130.34	*	\$1,112.91	\$12,242.04
Market Street Pump Station														
Electric														
Total, kWh	1,320	1,440	1,080	1,320	840	840	720	480	1,080	840	840	1,200	1,000	12,000
Average, kWh/Day	43	50	35	44	27	28	23	15	36	27	28	39	33	-----
Cost, Dollars	\$164.58	\$165.42	\$158.54	\$168.92	\$138.54	\$148.92	\$130.54	\$95.17	\$290.36	\$174.42	\$161.55	\$148.64	\$162.13	\$1,945.60
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average, Gals./Day	0	0	0	0	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	\$0.00	\$0.00	\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kWh	40	40	40	40	720	800	680	160	40	40	0	40	220	2,640
Average, kWh/Day	1	1	1	1	23	27	22	5	1	1	0	1	7	-----
Cost, Dollars	\$64.23	\$62.02	\$65.06	\$64.66	\$97.10	\$100.05	\$98.35	\$72.80	\$64.50	\$63.95	\$62.38	\$63.07	\$73.18	\$878.17

* No Data at time of report

EXHIBIT G

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Contract Waste Hauling Program 2023 - 2024

Month	Process		Septic		Total	
	Gallons	Revenue	Gallons	Revenue	Gallons	Revenue
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	2,137,570	\$105,510.75	276,550	\$9,849.60	2,414,120	\$115,360.35
October	2,340,860	\$134,366.80	288,550	\$10,332.90	2,629,410	\$144,699.70
November	1,762,060	\$118,125.70	239,550	\$8,610.30	2,001,610	\$126,736.00
December	1,543,690	\$90,184.38	205,450	\$7,378.20	1,749,140	\$97,562.58

Total - 2023	18,924,000	\$892,181.24	3,112,250	\$110,844.90	22,036,250	\$1,003,026.14
Monthly Average - 2023	1,577,000	\$74,348.44	259,354	\$9,237.08	1,836,354	\$83,585.51

January	2,077,950	\$114,775.25	161,300	\$5,749.20	2,239,250	\$120,524.45
February	3,281,800	\$176,962.65	174,000	\$6,217.20	3,455,800	\$183,179.85
March	3,634,040	\$178,316.53	193,500	\$6,916.50	3,827,540	\$185,233.03
April	3,041,860	\$93,459.72	245,100	\$8,787.60	3,286,960	\$102,247.32
May	2,713,190	\$102,025.04	295,000	\$10,534.50	3,008,190	\$112,559.54
June	1,431,290	\$51,730.00	320,300	\$11,490.30	1,751,590	\$63,220.77
July	1,641,300	\$54,832.46	324,750	\$11,619.00	1,966,050	\$66,451.46
August	2,781,170	\$89,753.53	315,600	\$11,316.60	3,096,770	\$101,052.13
September	843,700	\$32,760.90	293,000	\$10,431.00	1,136,700	\$43,191.90
October	526,920	\$21,583.31	314,400	\$11,275.65	841,320	\$32,858.96
November	342,770	\$15,255.35	293,500	\$10,488.60	636,270	\$25,743.95
December	721,750	\$32,337.90	213,150	\$7,605.90	934,900	\$39,943.80

Total - 2024	23,037,740	\$963,792.64	3,143,600	\$112,432.05	26,181,340	\$1,076,207.16
Monthly Average - 2024	1,919,812	\$80,316.05	261,967	\$9,369.34	2,181,778	\$89,683.93

