

Veolia MIDDLETOWN
453 South Lawrence Street
Middletown, PA 17057
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January 31, 2023

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RE: Transmittal of Veolia Middletown Operations Report December 2023

Pursuant to Sections 3.22 and 4.10 of the Concession Agreement; Part A, Section 9.4 and Part B, Sections 5.1, 5.2.6, 5.4.3, 6.3, and 8.1 of the Operating Standards; and Section 7.1 (e), (i) of the Joint Venture Operating Agreement, transmitted herewith is an electronic copy of the subject Monthly Report.

Should you have any questions or require further information, please contact me at your convenience.

Sincerely,

A handwritten signature in dark ink that reads 'Kodi Webb' in a cursive, slightly stylized script.

Kodi Webb
Project Manager
Veolia Middletown

cc: Michael Winfield
Jason Kiernan
Ken Bonn
William Stanton

MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

DECEMBER 2023



EXECUTIVE SUMMARY

This report covers the monthly period of December 1, 2023 through December 31, 2023.

During this reporting period, Veolia Middletown met all operational obligations. Veolia worked closely with the Borough of Middletown to provide the citizens of Middletown a consistent, high quality water and wastewater service, which meets all Federal, State and local regulatory requirements.

The following Summary highlights the achievements and challenges of the project during this reporting period.

Operations and Maintenance

Veolia effectively provided all services as required in accordance with the Operating and Technical Standards as described in Schedule 4 of the Concession Agreement dated September 29, 2014, in accordance with Best Management Practices, and all applicable Laws.

Significant operational and maintenance accomplishments for the reporting period include:

- Continue weekly monitoring of the petroleum substance entering the outfall pipe after the WWTP effluent. Short-term mitigation efforts are minimizing the discharge until a long-term plan is approved.
- Continue use of the HachWIMS application for process and regulatory data management and to optimize meeting reporting requirements.
- Continue observation of the SmartCover® Sewer Monitoring System at manholes MH-286 at Mill St, MH-290 at Hoffer Park, MH-332 at E. Main St, and MH-475A on E. Water St.
- Installation of Safety Upgrades for Water and Wastewater systems.
- Completed small meter replacement program.
- Completed annual test of Royalton meters.
- Repaired one main break.
- Completed SmartCover repairs.
- Completed annual CCTV requirement.
- Completed small meter replacement program.

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Regulatory Compliance

NOV was issued on March 1, 2021 for Well # 4 Fluoride system deficiencies. A brief summary and status update regarding the NOV, our efforts to date, and action plan to resolve the issue follows:

- NOV was issued by DEP on 3/1/21
 - Verbal consult with the Department (30 Day)- Due by 3/31/21 - **Completed**
 - Respond in writing (45 Day)- Due by 4/15/21 - **Submitted**
 - Complete corrective actions (120 Day)- Due by 6/29/21 -**Extended by DEP**
 - PA DEP did not provide an updated deadline, but wants to see continued progress with the project.
- Required upgrades to fluoride feed systems at all wells which will require a separate permit amendment filed with PA DEP for each. – Well #4 **Permit Approved 6/25/21**
 - Only Well #4 will be held to the 120 day timeline since permits are required for each well
 - VEOLIA will not delay working with HRG and DEP to get all locations permitted and completed in a timely manner.
- Equipment for upgrade
 - HRG to identify best pumps and equipment for this application.
 - Well pump #4, replacement in progress
- Veolia working with HRG on permit amendments
 - Well 4 Permit Application (replacement pump)-**Approval Received on 6/25/21**
 - Chemical feed parts ordered in July 2021, and received August 19, 2021
 - Permit application approval received for chemical feed upgrade for all wells
 - Permit application approval received for Well 3 pump replacement
 - HRG to submit additional permit applications for Well 4 level transducer as required by Susquehanna River Basin Commission and upgrade online chlorine analyzer – January 2023
 - Well 4 drop pipe, well pump and chemical feed system installed October 2023.
 - A new scale for the fluoride system has been ordered and will be installed before startup.
 - Well 4 to be returned to service pending fluoride scale installation and PA DEP inspection. Estimated to be January 2024.
- Chemical feed upgrade for Well 2 complete on November 3, 2022
- Water SCADA computer upgrade complete August 2023

On February 23, 2023, an unplanned wastewater plant inspection was performed by Pennsylvania Department of Environmental Protection. The formal report has not been generated from the inspection, but the sanitarian did not note any major findings or violations during the inspection.

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Veolia submitted the Well 6 Groundwater Withdrawal Application for renewal to the Susquehanna River Basin Commission (SRBC) on January 10, 2022 with a requested withdrawal quantity of 1,070,000 gpd, which is what the well is currently permitted for. After reviewing the application in further detail, SRBC has proposed 324,000 gpd as the 30-day average quantity allowed to be pumped from the well. Veolia is working with HRG and ARM group to perform additional evaluations to support a request for 600,000 gpd permitted withdrawal from Well 6.

Environment, Health and Safety

Comprehensive, job-specific environment, health and safety (EH&S) training continued this month.

On December 15, 2023 a letter was received from OSHA that raised concerns from an employee about conditions in the wet well, no movement on the replacement of the compactor, and a lack of safety inspections. On December 19, 2023 an investigation was launched and a follow up letter was submitted to OSHA explaining the inspection findings on December 22, 2023. The investigation did not substantiate the conditions cited in the letter from the wet well. Improvements to existing systems have been made to improve conditions and progress on ordering the compactor has been communicated to operations staff. Safety inspections are being completed and documented weekly.

Customer Service

The current operating period was very successful for Customer Service in Middletown.

Some accomplishments include:

Though the Customer Service counter remains closed to customers, customer service, and payments remain open via payment drop box, telephone, email and US Mail.

Continued to track and update reports to meet the needs for data analysis, revenue forecasting, and reporting requirements.

The meter reading cycle for water consumption in December was successfully completed on December 27th, 2023.

- Sent 259, 10 day shut-off notices to accounts that were \$50 past due for the November 2023 billing period

Engineering and Capital Expense

A complete breakdown of the proposed projects and significant accomplishments for the Engineering and Asset Management areas are included in the Engineering section of this report. Veolia Middletown will continue efforts to maintain operations at a high level of reliability, while monitoring unaddressed, identified capital projects that continue to accrue and if not implemented have the potential to impact future performance.

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Conclusion

Veolia continues to operate the Borough's water and sewer systems in compliance with Concession Agreement, Operating and Technical Standards.

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MONTHLY OPERATIONS REPORT

Veolia Middletown effectively provided all services as required in accordance with the Operating and Technical Standards as described in Schedule 4 of the Concession Agreement dated September 29, 2014, in accordance with Best Management Practices, and in accordance with all applicable Laws and regulations.

Wastewater Treatment Plant DMR

The eDMR for this reporting period was electronically submitted to the PADEP. A copy of the report and submittal verification is attached with Appendix A.

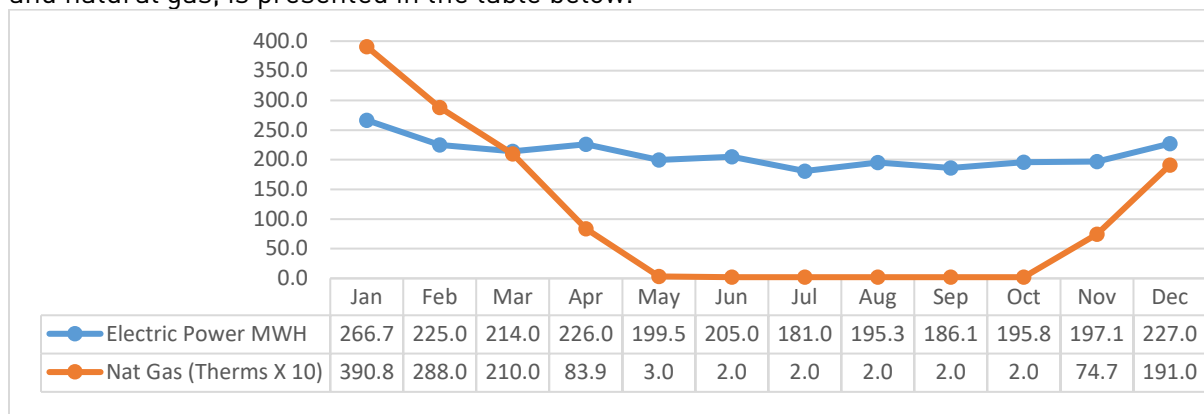
Quality Control Reporting

Written certification of Laboratory Quality Control is included with a copy of the monthly eDMR submittal and can be found in the Appendix to this report. No proficiency testing was required to be conducted this month.

Energy Management and Sustainability

Energy Use

Monthly energy used in operation of the water and wastewater systems, including electricity and natural gas, is presented in the table below.



*Note- The utility usage data from Engie is not released until the 28th of the following month.

Energy Efficiency Initiatives

Set up for utility use data collection and reporting has been implemented. Review of this data will continue as the data is compiled on a monthly basis. Long term initiatives currently being explored include the potential for solar and process efficiency improvements.

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Sustainability

Middletown received a score of 97 for the GRESB Report submitted in 2023. This was a 6 point increase from the GRESB Report submitted in 2022, and an 81 was received for the GRESB Report submitted in 2021. The 2022 GRESB Report data was compiled in April. Objectives will be developed to increase and support biodiversity and sustainability initiatives.

Water System and Wastewater Treatment Plant Maintenance

Equipment out of service during the month is listed in the table below.

System	Equipment	Process Location	Date Off Line	Reason for Taking Off Line	Date Returned to Service
Water	Well Pump	Well 4	2/26/21	Pump Failure	9/25/23*
Water	Fluoride Pump	Well 4	2/26/21	Pump upgrades and SCADA integration	Pending Upgrade
Water	Well Pump	Well 3	9/14/21	Pump Failure	In Progress
WWTP	Influent Screen / Compactor	Wet Well	1/13/23	Mechanical Failure	In Progress
WWTP	Fine Screen	Headworks	8/23/23	Mechanical Failure	In Progress
WWTP	Rotor	Ox Ditch 1	10/2/23	Rotor Failure	In Progress

*Date of repair. Will be returned to service pending completion of the project and PA DEP inspection.

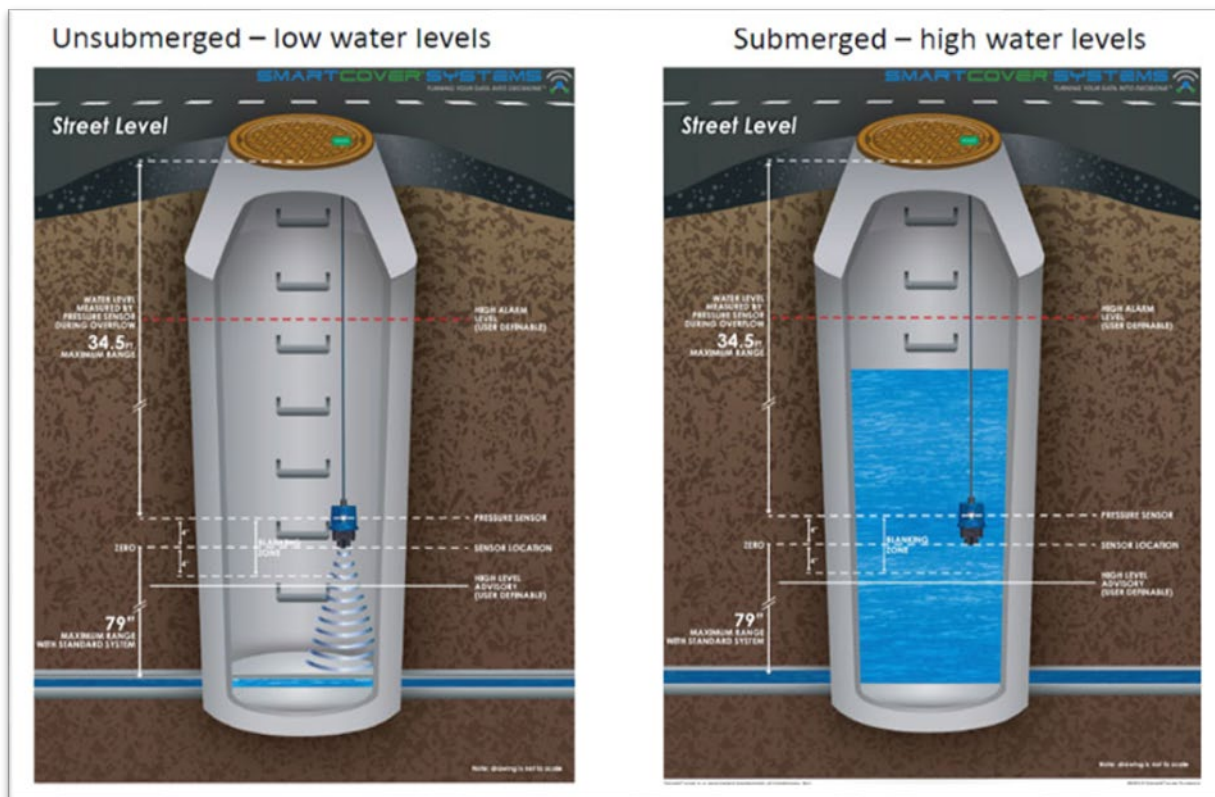
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Sanitary Sewer System

SmartCover® Sewer Monitoring System

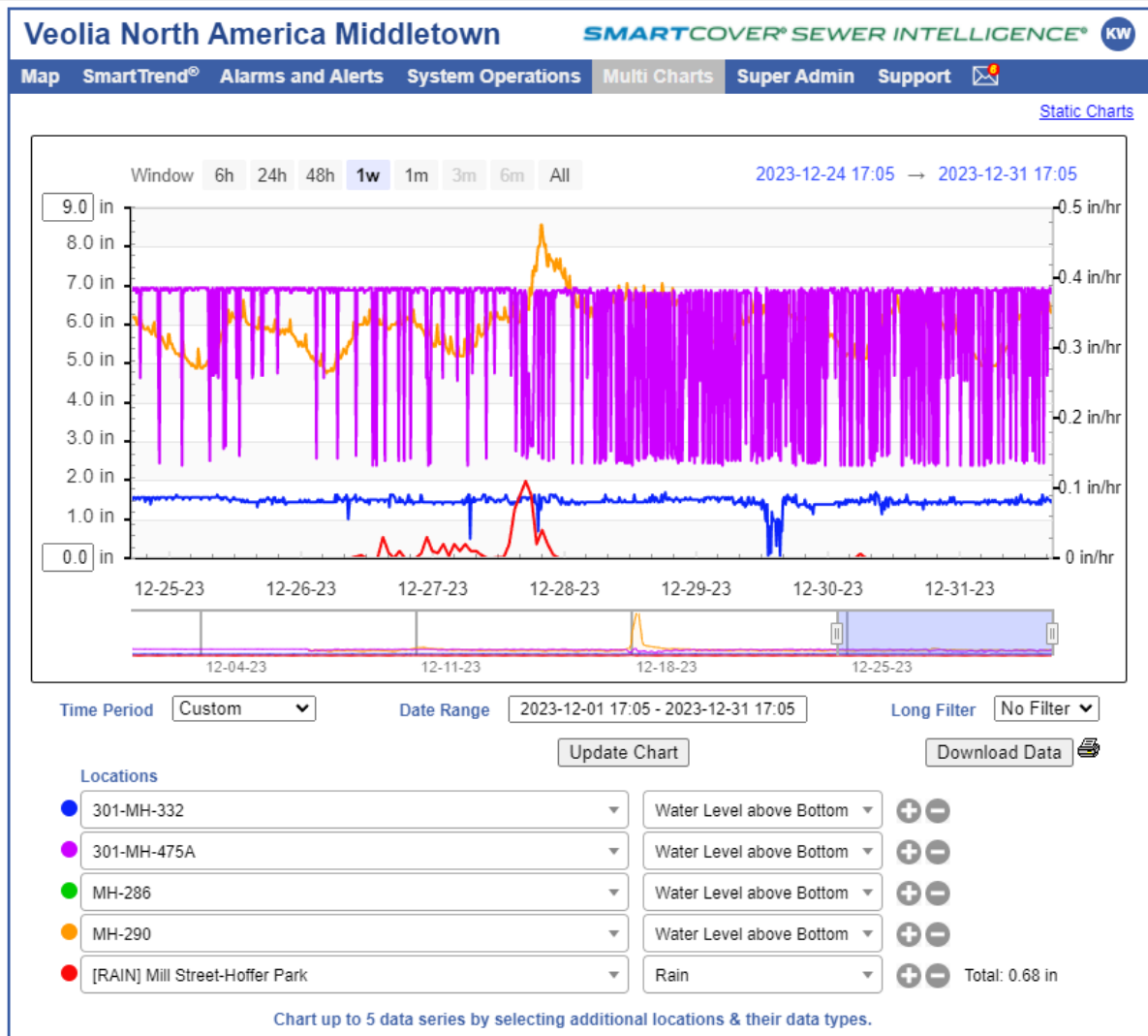


Ultrasonic level sensor (on the left) and pressure transducer (on the right). The covers use level sensing technology to analyze sewer elevations throughout the monitored area. This technology is used to monitor and reduce sanitary sewer overflows (SSO's) at problematic locations. The SmartCovers installed in Middletown are located at the interceptor on Mill St. and the entrance to Hoffer Park and were installed to better monitor and reduce surcharges and prevent SSOs in the interceptor. In an effort to expand the monitoring areas within the system, two additional SmartCovers were installed in July 2021 at MH- 332 (East Main St) and MH 475A (East Water St).

The SmartCover sensors were installed, in conjunction with a thorough cleaning of the interceptor, as part of the PA DEP Corrective Action Plan (CAP). Upon cleaning of the interceptor and installation of the sensors, we are now able to monitor surcharge conditions in "real-time".

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Key Performance Indicators

Project Status Snapshot

The following table is a graphical representation of relative progress for each of four identified Key Performance Indicators (KPIs) for the wastewater collection and water transmission and distribution system.

KPI	Hydrants Inspected	Main Valves Exercised	Ft Wastewater Mains Cleaned	Ft Water System Leak Detection
Last	0	0	0	0
Current	0	0	0	0
YTD	166	124	20153	35

On Target – Good Work	Caution	Significantly Behind Goal
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KPI Comments

Water Loss: Identifying and reducing the system water loss has been a key focus for Veolia. In an effort to identify and resolve the sources of water loss, continue to (1) verify the accuracy of the billing system reports, (2) verify the production meter accuracy at each well site based on review of the quarterly calibration records, (3) test a representative sampling of meters/MIU's to ensure the integrity of the data being downloaded to the billing system and verify the accuracy of residential meters. We continue to identify and, when found, repair water leaks throughout the system. In addition, following AWWA guidelines and standards, Veolia has identified and is in the process of testing and replacing 10% of the systems small meters, starting with the oldest meters.

Water Main Valves Exercised: A comprehensive condition assessment program was part of the development of the asset management program. The program includes valve identification and location, condition assessment, exercising, determining the number and direction of turns, etc. Identifiers are being created using GIS data that was collected during the first phase of the project. Valves that have been identified in need of repair or replacement will be scheduled for repair or replacement over time based on operational priority of the valve.

Hydrants inspected and maintained: The hydrant inspection and preventative maintenance program will be completed in conjunction with the annual water main and hydrant flushing program.

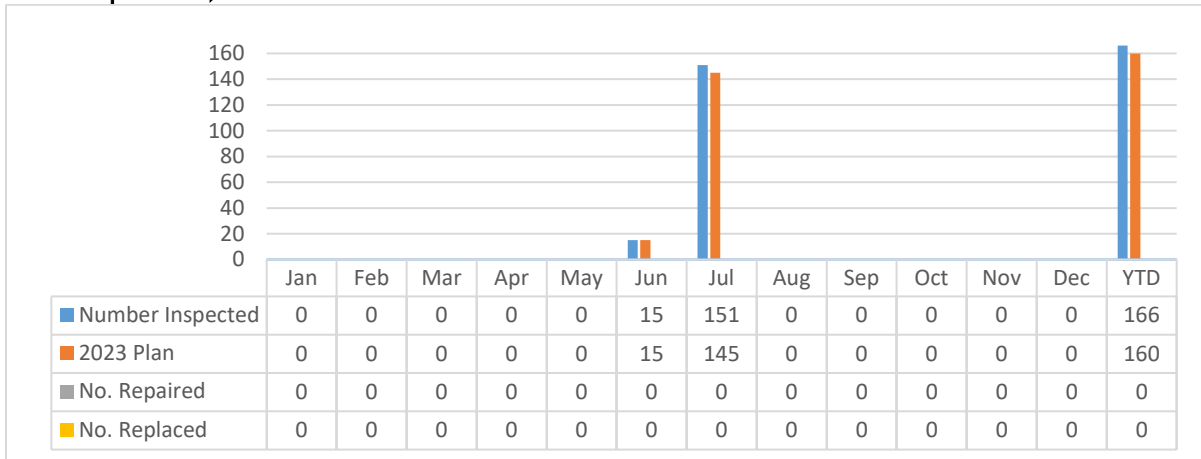
Sanitary Mains Cleaned/CCTV Inspected: The 2022 jetting and CCTV requirement were completed in March 2023, which was postponed due to supply chain and vehicle equipment issues.

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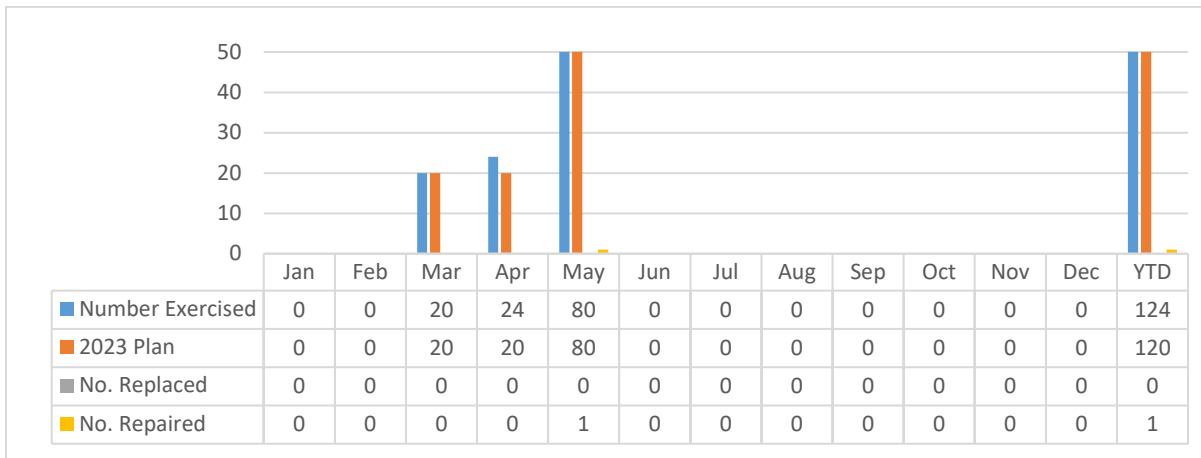
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Hydrants Inspected, Tested and Flushed



Water Main Valves Exercised

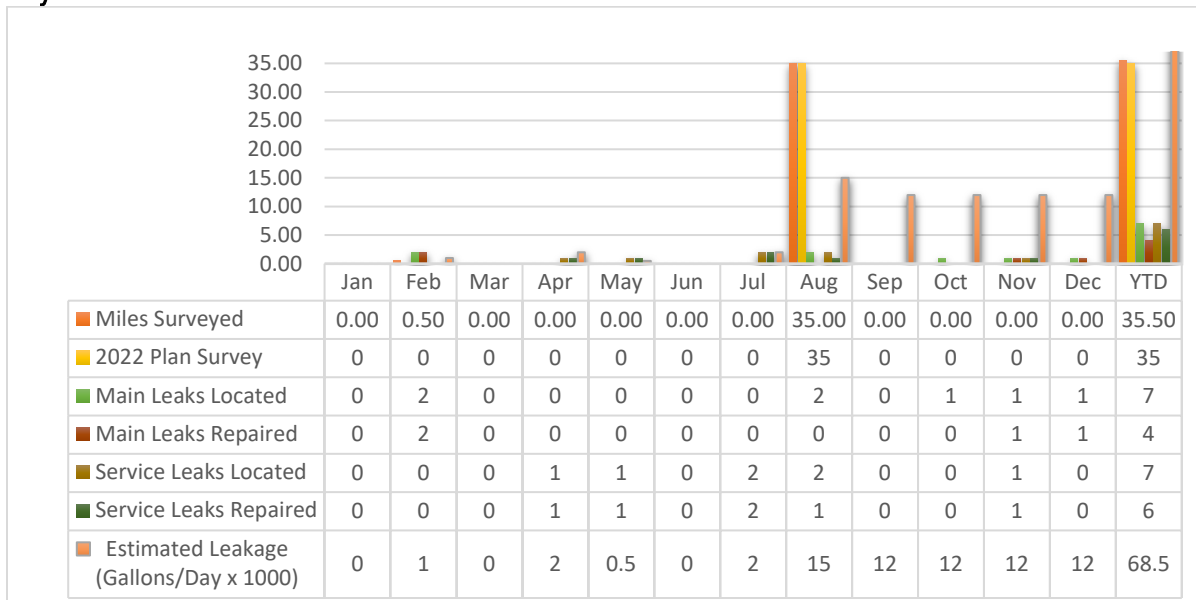


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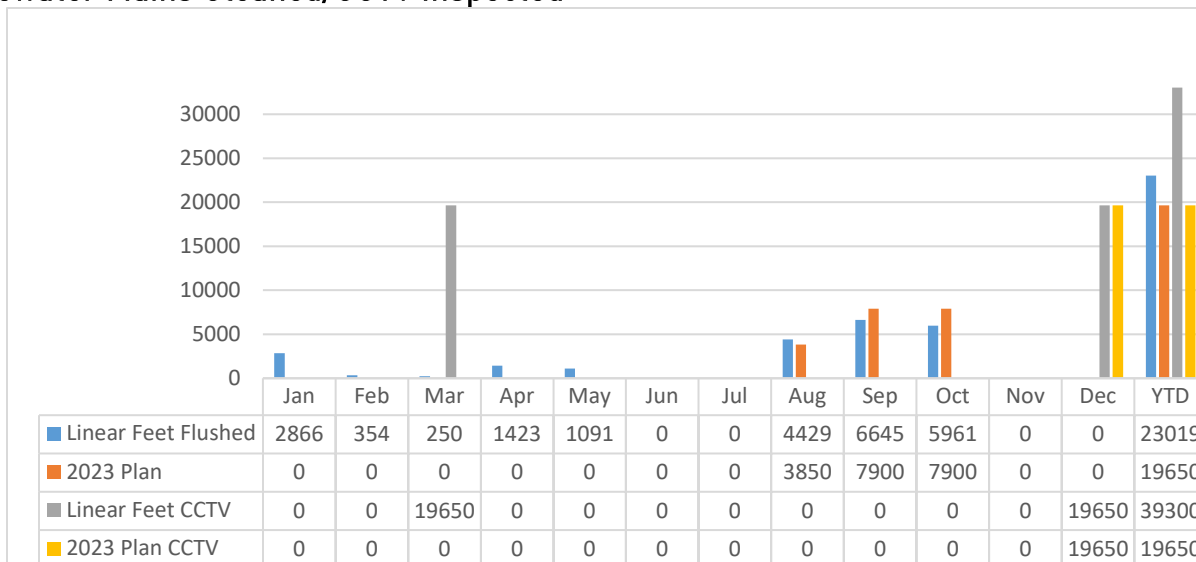
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Water System Leak Detection



Wastewater Mains Cleaned/CCTV Inspected

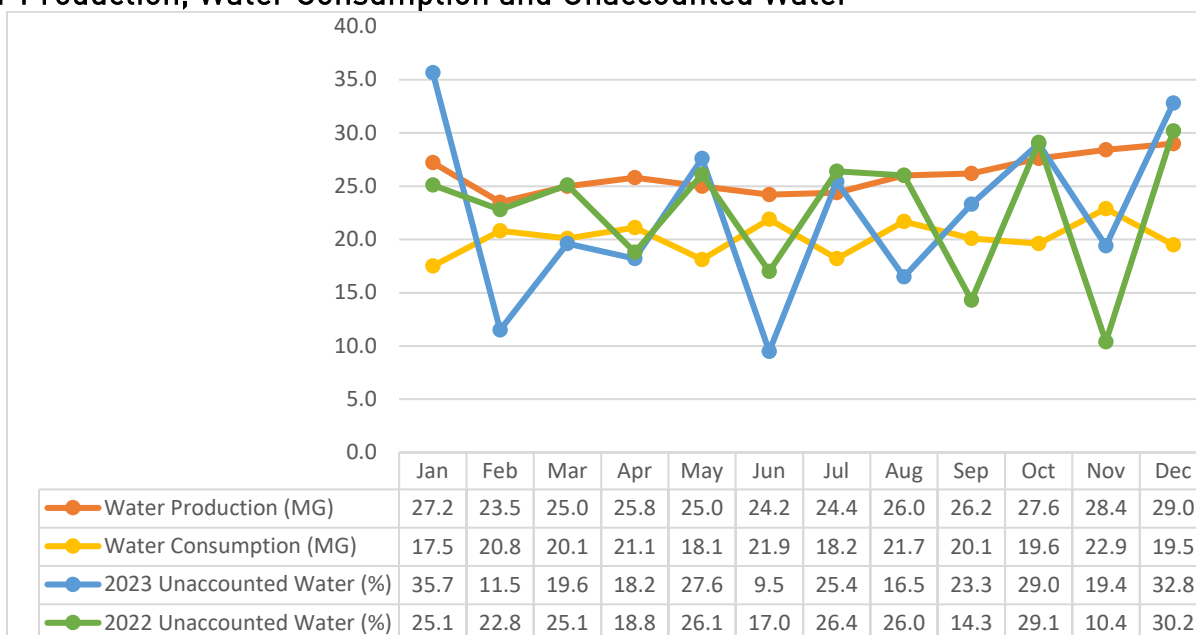


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Water Production, Water Consumption and Unaccounted Water



Unaccounted for water calculation does not include unmetered, estimated flows used for firefighting, training and system maintenance and flushing activities. This is a nominal amount equating to approximately 1% to 2% of the unaccounted water volume. Veolia is investigating the unaccounted for water fluctuations.

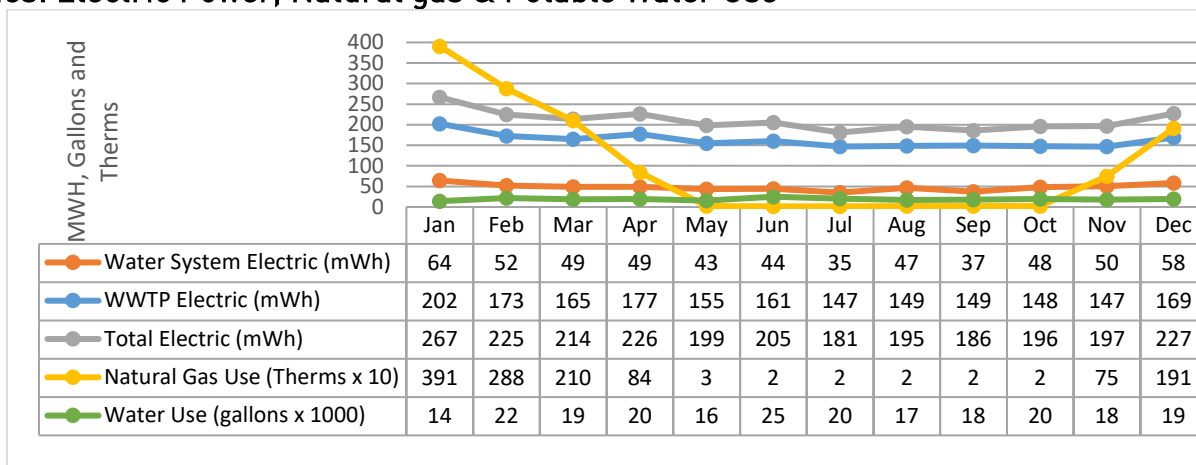
Refilling the High St tank (after completion of Capital Upgrade) in January likely contributed to the higher than average unaccounted for water percentage. The higher than average unaccounted for water percentage in July is likely due to hydrant flushing. The higher than average unaccounted for water percentage in October is likely due to several new mains that were filled, flushed, and put into service.

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Utilities: Electric Power, Natural gas & Potable Water Use



*This graph has been updated to reflect actual water use since July. Engie had been reporting water usage with incorrect units.

Process Chemicals: Water and WWTP Treatment

Chemical	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Hypochlorite (Water)	gal	253	212	236	243	231	244	271	322	318	326	296	318	3269
Hydrofluorosilic Acid	lbs	305	265	282	292	282	257	263	273	283	302	416	425	3646
Alum	gal	1056	1226	1376	1430	1414	1312	1302	1238	1328	1267	1181	19	14149
Thickening Polymer	gal	55	64	45	48	54	56	44	51	47	43	75	59	641
Dewatering Polymer	gal	129	160	88	103	118	81	88	63	87	67	71	64	1119
Chlorine (WWTP)	lbs	404	329	462	390	444	460	490	501	464	363	195	219	4721
Lime	lbs	5628	7059	4536	3990	4326	3570	3276	3654	4074	2855	2212	3906	49086

Tank Inspection: Water and WWTP

A tank inspection schedule was developed and submitted to the Borough. The tank inspection reports will be maintained in the Project Managers office for review.

Nitrification Control Program

Currently there is no requirement or need for a nitrification control program at the facilities. Veolia will continue to monitor the system for the need of a program and initiate accordingly.

Facility Security

There were no security issues or events during the month.

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Meter Testing

A summary of Meter testing is provided in the table below. Quarterly testing and calibrations were completed on water and wastewater process meters, pursuant to the Concession Agreement and Operating Standards. Testing and calibration reports will be attached with the Appendix to this report as they occur.

The small meter replacement program began in July 2023 utilized MeterTek as the contractor. Two hundred – eighty small meters have been replaced through December. All small meters will be tested at the conclusion of the project. The Middletown project continues to replace small meters as needed and has replaced thirty-seven to date.

Meter Testing Summary

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
WWTP Process	1	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	4
Water Process	16	0	0	16	0	0	15	0	0	12	0	0	16	16	15	12	59
Interconnect/Large	0	0	0	2	0	0	0	0	0	0	0	2	0	2	0	2	4
Small Meter	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
TOTAL	17	0	0	19	0	0	16	0	0	13	0	3	17	19	16	16	68

Upcoming Month Operational Priorities

- Continue utilization of the Lumin CMMS System to create and track work orders. and perform scheduled equipment maintenance.
- Continue to monitor and refine unaccounted Non-Revenue Water (NRW) losses.
- Continued focus on staff safe work practices and safety.
- Upgrades to Chemical Feed Systems.
- Continue Well # 4 chemical feed upgrade.
- Safety Upgrades to water and wastewater systems.
- Continue management of underground infrastructure replacement capital construction projects.

Customer Service

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Highlights

Veolia Middletown closed the the Customer Service Office and Administration building to customers and non essential visitors at the start of the COVID-19 pandemic. At this time the window will remain closed, but the telephone and drop box for payments remain open. Call volume increased in December with a total of 826 calls received. Call volume has remained high through December due to an increased number of customers making payments over the phone. All calls received by answering service or that were placed to the answering service after office hours were responded to. The JV submitted an application for the State's Low Income Housing Water Assistance Program (LIHWAP) in January 2022. The application was accepted and twenty-five customers were able to utilize the program before the LIHWAP program ended on October 28, 2022, due to lack of federal funding. The LIHWAP program was reopened on July 10, 2023 and concluded on August 18, 2023. Nineteen customers were able to utilize the program while it was open in 2023.

The 2023 rate increase has been implemented in accordance with Middletown Water Annual Recovery Report and the surcharge was terminated in October when the threshold was reached.

The release of bill files for printing and mailing this month occurred in 1 day with bills for services provided in December being mailed to customers on December 28th, 2023. The average gross monthly collection rate for December was 102.39% and 100.41% for the last 12 month rolling average.

A focused effort continued this month to review idled meter accounts and identify locations where consumption was not zero. Based on this review and investigations at the service addresses the number of idle accounts was 22 accounts this month, which is up from last month. There were no idle meters with consumption this month.

The number of Field Service Requests in December was 74.

In March of 2021, Veolia implemented a new customer bill design. The re-design is helping customers compare the current month's consumption to prior month's consumption. This re-designed format has resulted in an increased number of customers who have subscribed to Auto Pay. Prior to the re-design, we were averaging around 270 customers, now we are up to approximately 428 who have enrolled in the Auto Pay program.

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Customer Service: Calls by Type

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2022	2021
General Acct. Info	12	4	8	8	8	3	7	6	22	7	10	6	101	123	131
Bill Inquiry	99	57	89	94	127	143	162	96	97	56	82	104	1206	1448	934
Finals	19	12	13	14	22	18	13	9	11	3	18	11	163	242	173
New Account	7	5	11	7	16	12	9	6	2	3	8	6	92	118	98
Meter Reading /Re-Reads	1	3	3	5	0	0	0	2	2	0	1	0	17	13	0
Payments	610	560	590	576	631	591	585	616	569	627	560	625	7140	6901	6127
Collection Letter	51	45	37	68	104	109	79	38	28	10	14	40	623	735	168
Rates	0	11	1	0	0	0	0	0	1	0	2	0	15	9	30
Complaints	0	0	0	0	0	0	0	2	1	0	1	0	4	0	1
Sewer	0	2	0	0	0	0	0	0	1	0	0	0	3	6	12
Leaks	3	2	1	3	2	0	4	2	4	5	1	0	27	15	11
No/Low Water Pressure	0	1	0	0	2	0	1	0	1	0	0	0	5	8	6
Copy Of Bill	3	4	3	3	4	0	2	3	1	5	4	4	36	101	2
Correct. Bills	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mtr Change Out	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
Customer Correspondance	61	29	48	56	57	71	57	74	55	40	56	49	653	763	922
Discolored/Water Quality	0	1	0	1	0	0	0	0	1	0	0	0	3	1	0
Calls Referred to SUEZ Hbg	33	17	24	23	30	29	23	28	29	16	24	30	306	414	439
Calls from City / Other Org	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Compliments	0	0	0	0	0	0	0	0	0	0	0	0	0	1	18
2023 TOTALS	899	753	828	858	1003	976	942	882	826	772	781	875	10395		
2022 TOTALS	1005	920	966	915	972	955	902	905	818	933	814	794		10899	

Note: Noise and personnel complaints are tracked under "Complaints" in the chart above.

Customer Service: Billing

All Neptune* meters continue to be read on the same day each month, if possible, and the organization of billing in 2 cycles with one group being all residential and the other group being all commercial/industrial accounts, was continued.

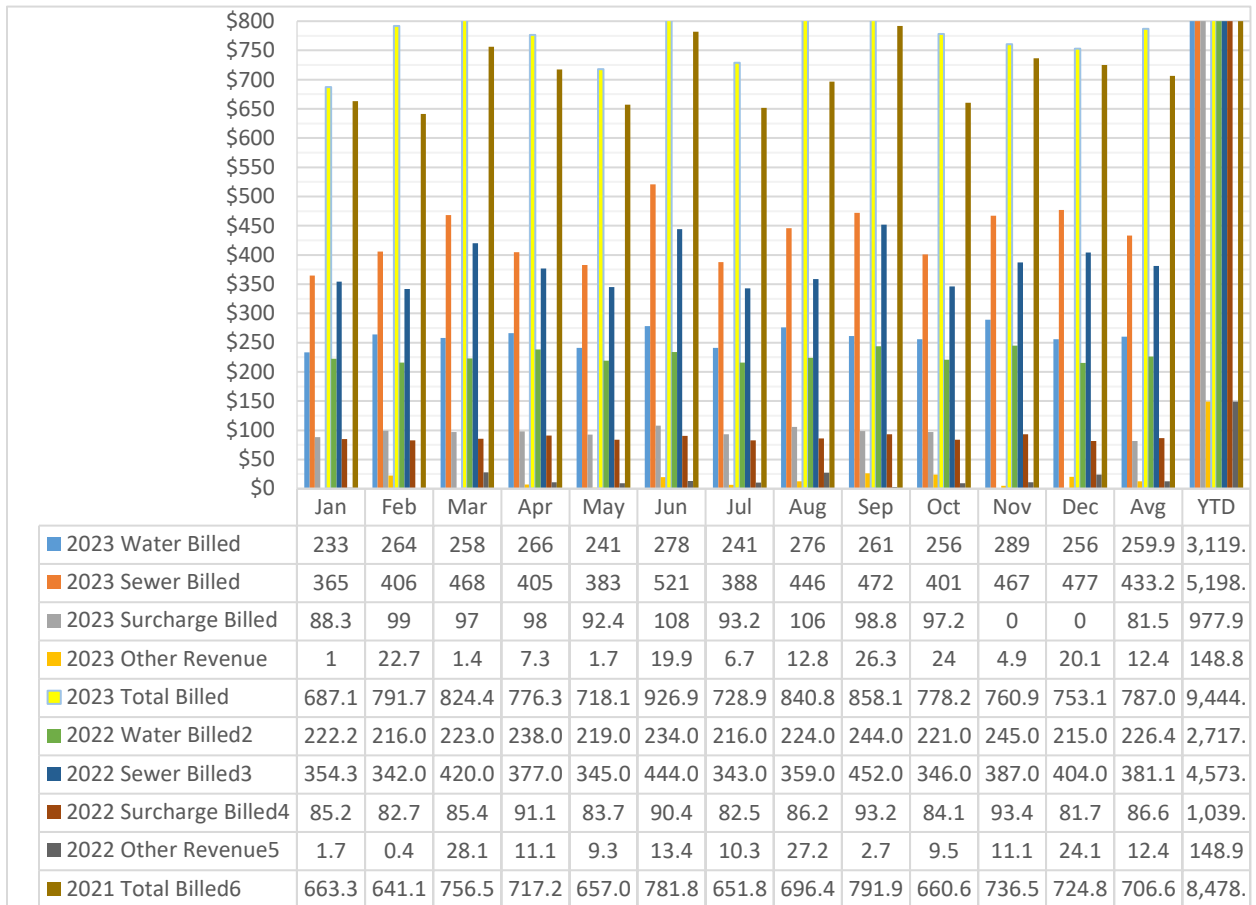
* Neptune is the meter manufacturer

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Dollars Billed - Water and Sewer (dollars X1000)

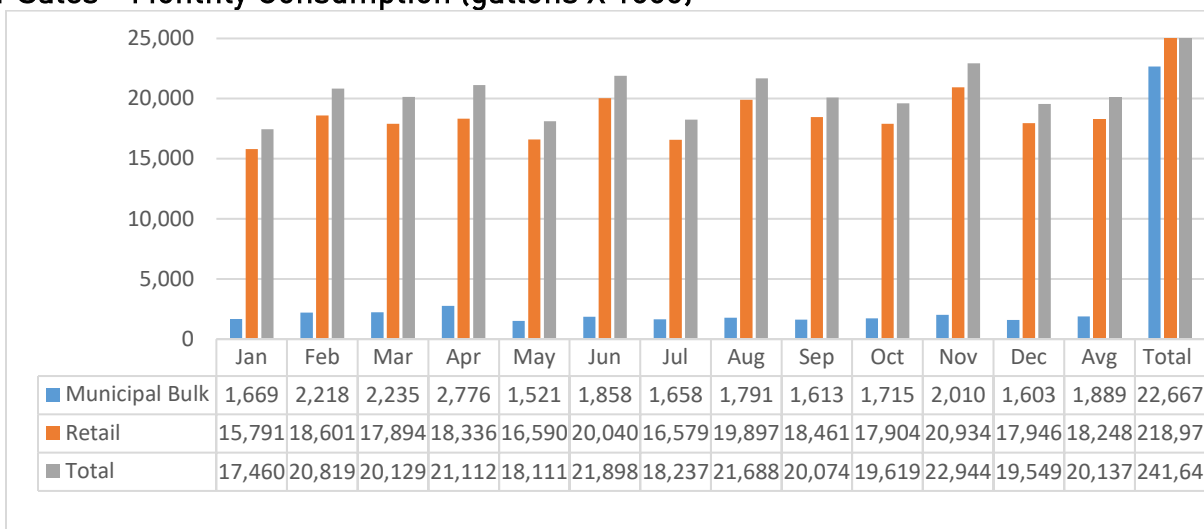


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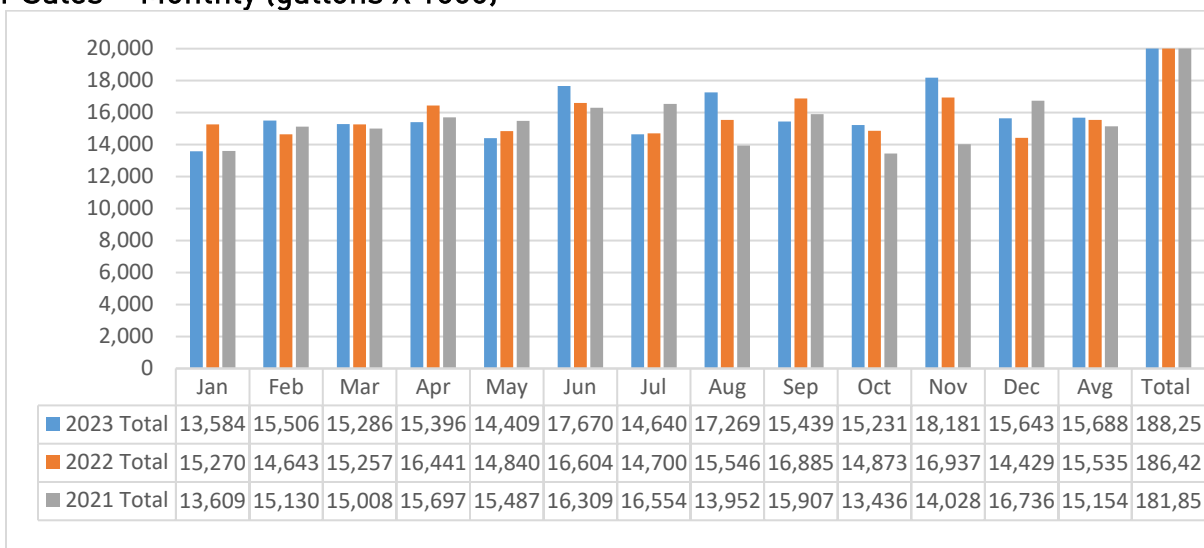
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Water Sales - Monthly Consumption (gallons X 1000)



Sewer Sales - Monthly (gallons X 1000)



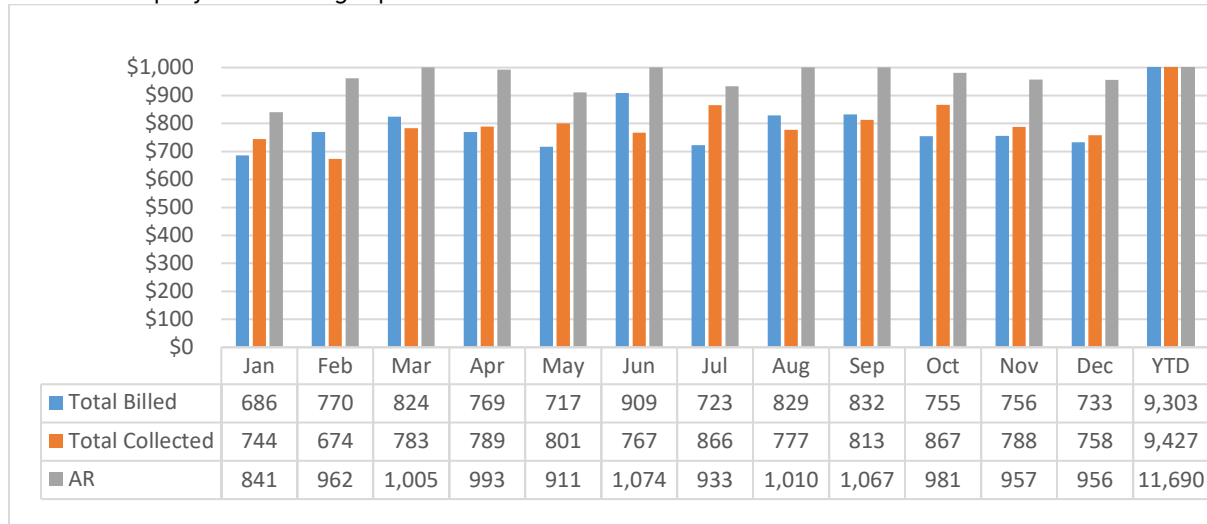
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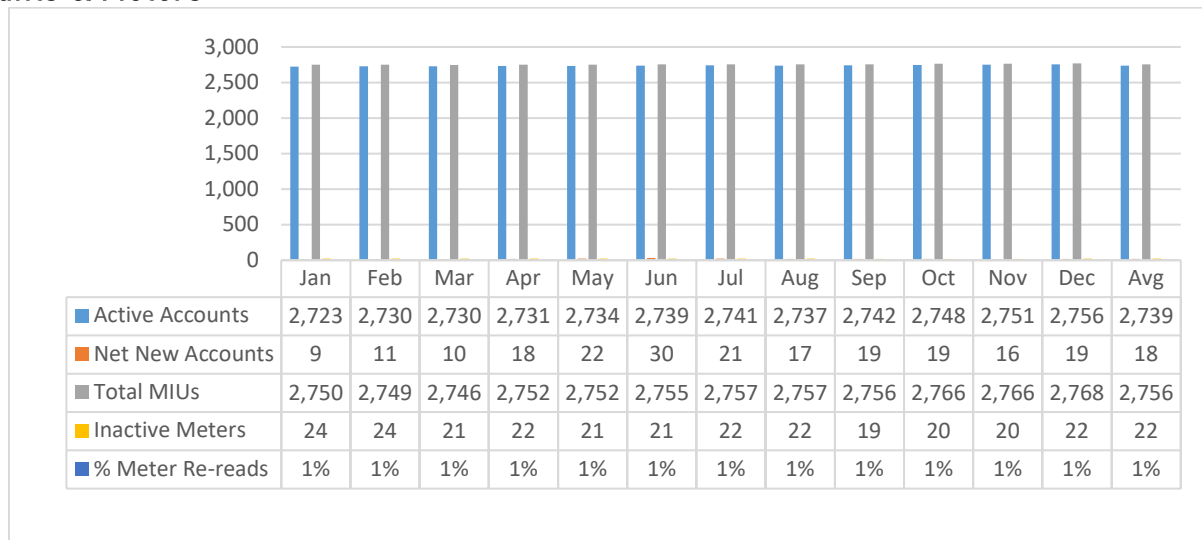


Collections (dollars X 1000)

Collections on payment for water and sewer services occurred during the current month and are displayed on the graph below.



Accounts & Meters

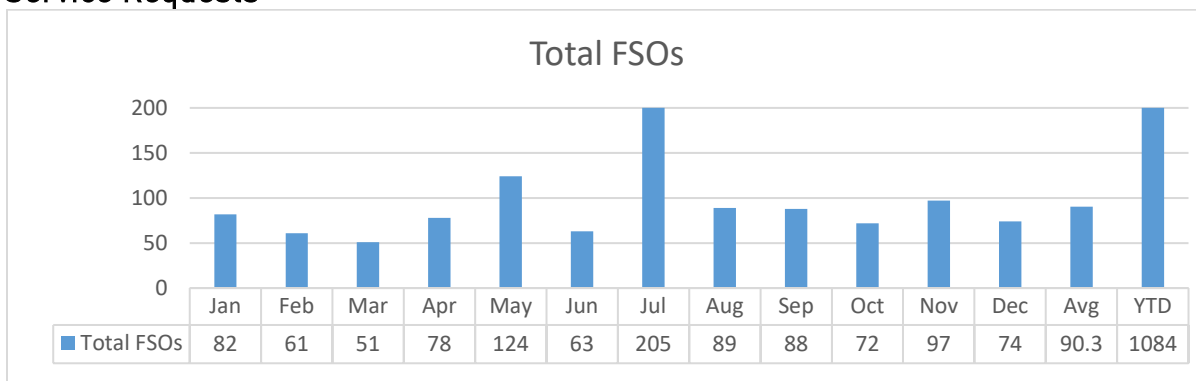


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Field Service Requests



Service Disruptions

A summary of service disruptions is provided in the table below.

Service Disruptions Summary

Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
Planned	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2023 Total	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1

Water Quality

A summary of water quality complaints is provided in the table below.

Water Quality Complaints Summary

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
Taste and Odor	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
Discolored	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Boil Water Notices	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
2023	0	1	0	0	0	0	0	0	1	1	0	0	1	0	1	1	3

The discolored water call was in regard to the capital project.

The boil water advisory was issued when the contractor installing water mains in Woodland Hills connected a new main to an existing stick without a valve. The boil water advisory involved three houses.

Sewer and Collection Issues

A summary of complaints related the the sewer and collection system is provide in the table below.

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Sewer Quality Complaints Summary

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
Back-up / Blockage	0	1	0	0	0	0	0	1	1	0	0	0	1	0	2	0	3
Odor	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	1
2023 TOTAL	0	1	0	0	0	0	0	1	2	0	0	0	2	0	3	0	4
2022 TOTAL	0	0	0	0	0	0	0	4	2	1	2	1	0	0	6	4	10

Home Serve USA

Partner Reporting Dashboard

[Back to Partner Select Page](#)

SUEZ (Middletown)

Date Start

2023-12-31

Date End

2023-12-31

Filter



Additional HomeServe data for the reporting period can be found in Appendix 3

Next Month Customer Service Priorities

Research and compare potential customer online bill payment options, customer portal and customer usage notifications.

MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

DECEMBER 2023



MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

DECEMBER 2023



Water Sales Test Period

Water Sales Test Period No. 3 1/1/2021 to 12/31/2023	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	
														Total	Avg
Total consumption for the month (gallons)	2021	16,984,200	19,701,800	19,964,700	20,521,000	20,409,700	20,950,100	20,557,500	17,545,400	20,495,500	17,656,500	18,017,900	21,191,200	233,995,500	19,499,625
	2022	19,111,100	18,317,500	19,119,800	20,815,300	18,711,600	20,471,200	18,402,600	19,375,800	21,509,300	18,966,600	21,567,400	18,383,200	234,751,400	19,562,617
	2023	17,461,300	20,818,600	20,129,700	21,111,400	18,112,100	21,898,200	18,237,100	21,688,400	20,073,100	19,618,800	22,944,600	19,549,300	241,642,600	20,136,883
Billing Period (days)	2021	31	28	31	30	31	30	31	31	30	31	30	31	365	30
	2022	31	28	31	30	31	30	31	31	30	31	30	31	365	30
	2023	31	28	31	30	31	30	31	31	30	31	30	31	365	30
Retail Sales - Total month (gallons)	2021	15,296,100	17,196,300	17,228,700	17,859,000	17,758,400	18,244,700	18,891,300	15,949,100	18,758,400	15,998,500	16,473,400	19,348,500	209,002,400	17,416,867
	2022	17,460,800	16,973,300	17,690,900	19,266,000	17,298,800	18,708,000	16,852,200	17,722,600	19,907,900	17,534,000	19,868,500	16,671,700	215,954,700	17,996,225
	2023	15,791,900	18,600,900	17,894,500	18,335,700	16,590,900	20,039,900	16,578,700	19,897,300	18,460,600	17,904,300	20,934,200	17,946,100	218,975,000	18,247,917
Retail Sales - Average Daily (gallons per day)	2021	493,423	614,154	555,765	595,300	572,852	608,157	609,397	514,487	625,280	516,081	549,113	624,145	6,878,152	573,179
	2022	563,252	606,189	570,674	642,200	558,026	623,600	543,619	571,697	663,597	565,613	662,283	537,797	7,108,547	592,379
	2023	509,416	664,318	577,242	611,190	535,190	667,997	534,797	641,848	615,353	577,558	697,807	578,906	7,211,623	600,969
Avg retail water sales (gal)		522,030	628,220	567,894	616,230	555,356	633,251	562,604	576,011	634,743	553,084	636,401	580,283	7,066,107	588,842
Bulk Municipal Sales - Total month (gallons)	2021	1,688,100	2,505,500	2,736,000	2,662,000	2,651,300	2,705,400	1,666,200	1,596,300	1,737,100	1,567,000	1,544,500	1,842,700	24,902,100	2,075,175
	2022	1,650,300	1,344,200	1,428,900	1,549,300	1,412,800	1,763,200	1,550,400	1,653,200	1,601,400	1,432,600	1,788,900	1,711,500	18,886,700	1,573,892
	2023	1,669,400	2,217,700	2,235,200	2,775,700	1,521,200	1,842,700	1,658,400	1,791,100	1,612,500	1,714,500	2,010,400	1,603,200	22,652,000	1,887,667
Bulk Municipal - Average Daily (gallons per day)	2021	54,455	89,482	88,258	88,733	85,526	90,180	53,748	51,494	57,903	50,548	51,483	59,442	821,253	68,438
	2022	53,235	48,007	46,094	51,643	45,574	58,773	50,013	53,329	53,380	46,213	59,630	55,210	621,102	51,758
	2023	53,852	79,204	72,103	92,523	49,071	61,423	53,497	57,777	53,750	55,306	67,013	51,716	747,236	62,270
Avg Bulk Customer sales (gal)		53,847	72,231	68,818	77,633	60,057	70,126	52,419	54,200	55,011	50,689	59,376	55,456	729,864	60,822
Contract Daily Bulk Water Sales Upper Limit (gal/day) =															62,970
Bulk Sales Surplus (gal/day) =															No Surplus
Sum of Actual Average daily volume of Metered water sales to Retail Water Customers over Test period + Bulk Sales Surplus (gal/day) =															588,842
Contract Daily Water Sales Upper Limit (gal/day) =															639,340

Engineering and Capital Improvements

Capital improvement projects for the water and wastewater systems were developed for 2023 and presented in the draft Five-Year Capex Plan to the Concessionaire and Borough. The projects are divided into Base CAPEX projects and Major CAPEX projects. Careful consideration is given when awarding projects to ensure that experienced and responsible contractors that meet the Responsible Contractor Policy are selected.

Proposed Base Capex Projects

Capital Projects from the Base CAPEX are listed below:

- **Water/Wastewater Performance Evaluation:** As part of a contractual obligation, Veolia solicited HRG to provide professional engineering services to complete both the Water and Wastewater System Performance Evaluation.
- **Well No. 3 Stripping Tower Rehabilitation Project:** The project will entail the rehabilitation of the existing stripping tower, replacement of the media and the relocation of the blowers inside the building.
- **ATAD & SNDR Reactors Instrumentation Replacement Project:** The project will entail the procurement and installation of a new radar gauge, float switch with stainless steel bracket, and a new pressure transducer.
- **Oxidation Ditch Instrumentation Replacement Project:** The project will entail the procurement and installation of an ultrasonic level probe and a dissolved oxygen (D.O.) probe.
- **Trench Opening Restoration Project:** Project to perform roadway improvements based on the Borough's instructions and most recent roadway opening ordinance requirements.
- **WWTP Electrical Upgrades:** Project to perform improvements on the electrical system within the WWTP.
- **Water and Wastewater Systems Miscellaneous Upgrades:** Project to perform various water and wastewater systems upgrades based on condition assessment and routine inspections
- **Safety Upgrades:** Various environmental health and safety equipment replacement at the WWTP and well sites for safety compliance

Major CAPEX Projects

Major CAPEX projects will be planned and completed pursuant to the requirements of the Concession Agreement, and the AAA arbitration decision received in 2020. Note that in conjunction with the general requirements set forth in the Operating Standards (i.e. Schedule 4 of the Concession Agreement), the Concessionaire may implement Major Capex to meet emergency, health, safety and water quality requirements at its discretion, and in accordance with Good Engineering and Construction Practices. These projects, which the Concessionaire continues to study in conjunction with VEOLIA, include, but are not limited to, Storage tank repairs and maintenance, Outfall rehabilitation, Headwork's evaluation, Railroad interceptor modifications and maintenance cleaning, replacement of raw pumps, new disinfection system for wastewater effluent and any Supply/Distribution system improvements.

MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

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As previously included and pursuant to the dispute resolution process (and as addressed during the August 2020 Operations Committee meeting), the Concessionaire is planning on implementing CAPEX projects required for the overall system, including but not limited to replacement of water mains in accordance with a revised 5-year capital improvement plan. The “2019 Underground Infrastructure Upgrades” project is fully completed with approximately 2,800 LF of water main replaced as of May 2021 and the project has been closed out. The next project, “2017/2020 Underground Infrastructure Upgrades” involved the replacement of approximately 5,200 LF of critical water mains in the system in addition to the replacement of approximately 1,000 LF of sewer system and upgrades of deteriorating sewer manholes. All the PA DOT permitting was secured for this project. A pre-construction meeting was held with HRG and EK Services in May 2021. EK Services worked with the Borough to secure the local road opening permits for construction. Due to delays in manufacturing and shipping reported by EK Services and characterized as force majeure (in the context of the COVID-19 pandemic), the construction start date was in October 2021. Substantial completion of the project occurred in July 2022. Pictured below is a section of replaced main in the 2017/2020 project.



The current project scheduled is the “2018/2021 Underground Infrastructure Upgrades” which involves approximately 5,000 LF of water main replacement in addition to the replacement of 1,000 LF of sewer system and upgrades of deteriorating sewer manholes. Approximately, 4,000 LF of sewer mains were CCTV’ed for condition assessment and a presentation of the video footage and the analysis with recommendations were delivered at

MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

DECEMBER 2023



the August 2021 Operating Committee meeting. The project design was completed in October 2021. The project was put out for bid and Wexcon was the apparent low bidder. Wexcon was awarded the project and HRG reviewed and approved the submittals. The project mobilized on January 26, 2023. The wastewater portion of the project was completed in May 2023, and remobilization for the water project occurred in September 2023. The remobilization consisted of the water main and service installation. Substantial completion is anticipated to occur in late 2023 weather dependent.

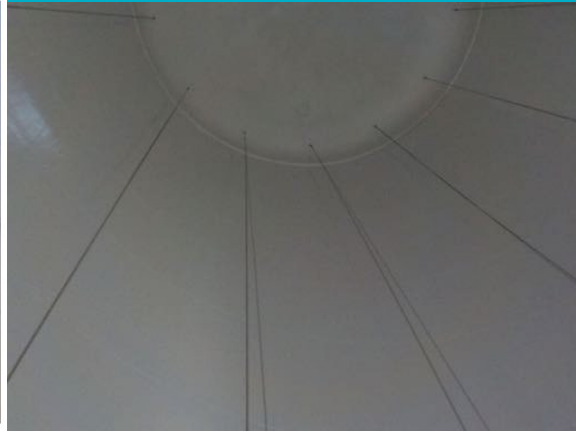
As previously discussed during the monthly operations meetings and included in the DRAFT Capital Improvement Plan submitted on March 12, 2020, The Concessionaire is planning the rehabilitation of the three (3) water storage tanks in the water system. The design documents were completed (by the Veolia Engineering Department) and the required PADEP Permitting application for the High Street Tank was secured as of July 2021 for the High Street Tank. The project was advertised for bid proposals in July 2021 and only 2 bid proposals were received. The project went out for rebid in October 2021 with a target start date in March 2022 and was distributed to more potential vendors to receive competitive pricing. IK Stoltzfus was the apparent low bidder and awarded the project. The permits for the High Street tank, Union Street tank, and Turnpike Tank have been approved by PA DEP. The High Street tank project mobilized on September 12, 2022, was completed in December 2022, and the tank was returned to service in February 2023. The project involved blasting the interior and exterior of the tank and repainting. Photos of the project are included below which depict the interior and exterior before and after the High Street project. The Turnpike Tank rehabilitation mobilized on August 14, 2023. The blasting and painting concluded in October. The tank was filled, tested and returned to service authorized by PA DEP on November 14, 2023. Photos of the inside and outside of the Turnpike Tank are included below. Rehabilitation of the North Union Street Tank is expected to begin in Q2 of 2024. Onsite meetings have been held with IK Stoltzfus and AT&T to discuss planning and removal of the existing cables.



High Street tank exterior before and after blasting and painting.

MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

DECEMBER 2023



High Street tank interior before and after interior blasting and painting.



Turnpike tank exterior before and after exterior blasting and painting.



Turnpike tank interior before and after interior blasting and painting.

MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT DECEMBER 2023



Capital Improvement Plan

The following DRAFT Capital Improvement Plan was submitted on March 1, 2023.

SEWER COLLECTION, CONVEYANCE, & TREATMENT FACILITIES
DRAFT - 5 Year Capital Improvements Plan (2022-2027)
February 27, 2023

2022 and 5 YEAR CAPITAL IMPROVEMENT PLAN						
BASE CAPITAL IMPROVEMENTS	2022	2023	2024	2025	2026	2027
Headworks Wet Well Pump and Tank Rehabilitation Project			\$ -			
Well No. 4 Rehabilitation Project	\$ -	\$ 45,000	\$ -			\$ -
Well No. 3 Stripping Tower Rehabilitation Project	\$ -	\$ -	\$ -			
Well Upgrades (Pumps, controls, automation)	\$ 122,000	\$ 19,000	\$ 35,000	\$ 70,000	\$ 70,000	
Ventilation of ATAD Building Project	\$ -	\$ 20,000	\$ -			
Fire Alarm System Design Project	\$ -	\$ -	\$ -			
Customer Service Upgrade Project	\$ -	\$ 10,000	\$ -			
Blower Building Instrumentation Replacement Project			\$ 10,000			
SCADA Upgrade Project	\$ -	\$ 35,000	\$ 25,000			
WAS Storage Tank Instrumentation Replacement Project	\$ -	\$ -	\$ 15,000			
Biofilter Instrumentation Replacement Project	\$ -	\$ -	\$ -			
ATAD & SNDR Reactors Instrumentation Replacement Project	\$ 14,500	\$ 15,000	\$ -			
Headworks Instrumentation Replacement Project	\$ -	\$ -	\$ 27,000			
Biosolids Processing Instrumentation Replacement Project	\$ -	\$ -	\$ -			
Oxidation Ditch Instrumentation Replacement Project	\$ -	\$ -	\$ -			
Scum Pump Station Instrumentation Replacement Project	\$ -	\$ -	\$ -			
WWTP Facilities Security Upgrades Project	\$ -	\$ 10,000	\$ -	\$ 30,000	\$ 20,000	\$ 20,000
Well Facilities Security Upgrades Project	\$ -	\$ -	\$ -	\$ -	\$ 20,000	\$ 20,000
Well Evaluation and Upgrades Project	\$ -	\$ -	\$ -			
Trench Opening Restoration Project	\$ 54,487	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Water and WWTP System Evaluations	\$ 28,750	\$ 28,750	\$ 28,750	\$ 30,000	\$ 30,000	\$ 30,000
WWTP Electrical Upgrades	\$ -	\$ -	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
WWTP Safety Compliance Project	\$ -	\$ -	\$ 50,000			
Water and Wastewater Systems Miscellaneous Upgrades	\$ 170,000	\$ 170,000	\$ 150,000	\$ 162,000	\$ 160,000	\$ 235,000
Safety Upgrades	\$ -	\$ -	\$ -	\$ 20,000	\$ 20,000	\$ 20,000
TOTAL BASE CAPITAL IMPROVEMENTS *	\$ 389,737	\$ 402,750	\$ 415,750	\$ 387,000	\$ 395,000	\$ 400,000
PROPOSED YEARLY BUDGET FOR BASE CAPITAL PROJECTS **	\$ 390,838	\$ 414,679	\$ 439,974	\$ 466,813	\$ 495,288	\$ 525,501

MAJOR CAPITAL IMPROVEMENTS	2022 *	2023 *	2024 *	2025 *	2026 *	2027 *
Underground Infrastructure Replacements (2024 - 2027)	\$ -		\$ 2,513,794	\$ 2,513,794	\$ 2,513,794	\$ 2,513,794
Underground Infrastructure Replacements (2016)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2017)	\$ 938,241	\$ -	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2018)	\$ 205,019	\$ 1,564,000	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2019) ***	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2020)	\$ 938,241	\$ -	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2021)	\$ 205,019	\$ 1,564,000	\$ -	\$ -	\$ -	\$ -
Spruce Street Sewer Relocation		\$ 279,450				
Underground Infrastructure Replacements (2022)		\$ 92,000	\$ 2,195,000	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2023)		\$ 92,000	\$ 2,302,090			
Water Storage Tank Rehabilitation - Union Street	\$ -	\$ 1,309,083		\$ -	\$ -	\$ -
Water Storage Tank Rehabilitation - High Street	\$ 912,742	\$ -	\$ -	\$ -	\$ -	\$ -
Water Storage Tank Rehabilitation - Turnpike		\$ 955,338				
Headworks Upgrade (bar screen, pump, wiring, etc.)		\$ 876,300	\$ -	\$ -	\$ -	\$ -
Contingency (5%)		\$ 174,973	\$ 350,544	\$ 125,690	\$ 125,690	\$ 125,690
TOTAL MAJOR PROJECTS	\$ 3,199,263	\$ 6,907,743	\$ 7,361,428	\$ 2,639,484	\$ 2,639,484	\$ 2,639,484

REGULATORY COMPLIANCE

WWTP Effluent Outfall Rehabilitation ****			\$ 620,000			
TOTAL CAPEX	\$ 3,589,000	\$ 7,322,422	\$ 8,421,402	\$ 3,106,296	\$ 3,134,772	\$ 3,164,985

NOTES:

* All costs are in 2023

** Consumer Price Index rate of 6.1% (as of February 2023) is applied to the "Proposed Yearly Budget for Base Capital Projects" based on the Concessionaire Agreement

*** Final restoration related costs for project completion in 2021

**** Subject to PADEP direction and regulations (Cost estimate in 2023 dollars)

Environment, Health & Safety

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Environmental Incidents – Regulatory (PADEP/USEPA) notifications	0	0	0	0	0	0	0	0	0	1	0	0	1
Concessionaire Notifications	0	0	0	0	0	0	0	0	0	0	0	1	0
Incident Email Notifications	0	0	0	0	0	0	0	0	0	0	0	0	0
Environmental Incidents –Hotline notifications	0	0	0	0	0	0	0	0	0	0	0	0	0
Environmental Incidents –Hotline notifications/chemical spills	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-compliance – violations	0	0	0	0	0	0	0	0	0	0	0	0	0
Reporting non-compliance	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety related incidents – OSHA lost time	0	0	0	0	0	0	0	0	0	0	0	0	0
Total days lost	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety related incidents – Preventable	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety related – Near Miss	0	0	0	0	0	0	0	0	0	0	0	0	0
Employee lost-time – not job-related – total as sick hours	34	77	4	17	48	16	8	8	4	29	74	65	377

On Target	Caution	Meets/Exceeds Target
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Veolia MIDDLETOWN
453 South Lawrence Street
Middletown, PA 17057
717-948-3055



January 31, 2024

Mr. Kenneth Klinepeter
Borough of Middletown
kklinepeter@middletownborough.com

Mr. Dan Sugarman
Water Capital Partners LLC
dan.sugarman@wcpartnersllc.com

Mr. John Joyner
Water Capital Partners LLC
john.joyner@wcpartnersllc.com

Mr. Don Correll
Water Capital Partners LLC
don.correll@wcpartnersllc.com

RE: Laboratory Supervisor Certification – December 2023

Pursuant to Section 6.3 - Quality Control Reporting of the Operating Standards:

"I hereby certify that the analytical results reported in this NPDES Discharge Monitoring Report were obtained from analyses performed in accordance with the methods approved under 40 CFR 136, and that the appropriate quality control measures contained in the approved Quality Manual were strictly followed."

A handwritten signature in black ink that reads 'Kodi Webb'.

Kodi Webb
Project Manager
Veolia Middletown

Veolia MIDDLETOWN
453 South Lawrence Street
Middletown, PA 17057
717-948-3055



January 31, 2024

Mr. Kenneth Klinepeter
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Mr. Dan Sugarman
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Mr. John Joyner
Water Capital Partners LLC
john.joyner@wcpartnersllc.com

Mr. Don Correll
Water Capital Partners LLC
don.correll@wcpartnersllc.com

RE: Environmental Laws Certification- December 2023

Pursuant to Section 7.1(c) (iii) - Violations and Reports of the Operating and Maintenance Agreement:

"I hereby certify that, to the best of my knowledge, the Water and Wastewater systems were operated in accordance with existing permits and Local, State and Federal environmental laws."

A handwritten signature in dark ink that reads "Kodi Webb". The signature is fluid and cursive.

Kodi Webb
Project Manager
Veolia Middletown

MIDDLETOWN MONTHLY REPORT

APPENDIX 1 WASTEWATER

MIDDLETOWN WWTP MONTHLY DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SUPPLEMENTAL WWTP PROCESS CONTROL & OPERATIONAL DATA

&

SMARTCOVER® MONITORING SYSTEM REPORT

Your eDMR Report Has Been Received For Permit No. PA0020664

1 message

depgreenporthelpdesk@state.pa.us <depgreenporthelpdesk@state.pa.us>

Thu, Jan 25, 2024 at 5:52 PM

To: kodi.webb@veolia.com, mitchell.swartz@suez-na.com, jesse.randles@suez.com, michael.barger@veolia.com, glank@penntwp.com

This email is to confirm that the following report was received by DEP through the eDMR system:

Facility Name: MIDDLETOWN STP**Permit Number:** PA0020664**Report Frequency:** Monthly**Report Type:** DMR**Reporting Period:** 12/01/2023-12/31/2023**Report Due Date:** 01/28/2024**Submitted By:** Kodi Webb**Submission Id:** 438160**Submission Status:** Received**Submission Type:** Original

To view the details of this report, access the eDMR system through DEP's [GreenPort](#) and select the link for View/Revise Submitted.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: MIDDLETOWN WATER JT VENTURE LLC
ADDRESS: 9W 57TH ST STE 4200, NEW YORK NY, 10019
FACILITY: MIDDLETOWN STP
LOCATION: 453 S LAWRENCE ST, MIDDLETOWN PA, 17057-1132
STAGE: Final Effluent

PA0020664
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 12/01/2023
DMR Effective To: 12/31/2023
Permit Expires: 02/28/2026
Permit Application Due: 09/01/2025
No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2023	12	01	TO	2023	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	8.23	***	***	mg/L	1/day	Grab
	Permit Requirement	***	***		5.0 Daily Min	***	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	7.4	***	7.6	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	< 49	91	lbs/day	***	< 4.0	< 6.0	mg/L	2/week	24-Hr Composite
	Permit Requirement	550 Avg Mo	826 Wkly Avg		***	30.0 Avg Mo	45.0 Wkly Avg		2/week	24-Hr Composite
Total Nitrogen (00600)	Sample Measurement	***	***	***	***	< 5.42	***	mg/L	1/month	Calculation
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Calculation
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	< .37	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	< .79	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Nitrate-Nitrite as N (00630)	Sample Measurement	***	***	***	***	< 4.62	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	.9	***	lbs/day	***	.07	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	37 Avg Mo	***		***	2.0 Avg Mo	***		2/week	24-Hr Composite
Flow (50050)	Sample Measurement	1.492	3.224	MGD	***	***	***	***	Continuous	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	.2	.32	mg/L	1/day	Grab
	Permit Requirement	***	***		***	.5 Avg Mo	1.6 IMAX		1/day	Grab
Total Nitrogen (Total Load, lbs) (51445)	Sample Measurement	< 2466.5	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Ammonia-Nitrogen (Total Load, lbs) (51446)	Sample Measurement	< 113.6	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Kjeldahl Nitrogen (Total Load, lbs) (51449)	Sample Measurement	< 300.7	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Nitrate-Nitrite as N (Total Load, lbs) (51450)	Sample Measurement	< 2165.8	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	29.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Fecal Coliform (74055) (Oct-Apr)	Sample Measurement	***	***	***	***	< 143	1090	No./100 ml	2/week	Grab
	Permit Requirement	***	***		***	2000 Geo Mean	10000 IMAX		2/week	Grab



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	< 28	< 46	lbs/day	***	< 2.0	< 2.0	mg/L	2/week	24-Hr Composite
	Permit Requirement	459 Avg Mo	734 Wkly Avg		***	25.0 Avg Mo	40.0 Wkly Avg		2/week	24-Hr Composite
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: MIDDLETOWN WATER JT VENTURE LLC
ADDRESS: 9W 57TH ST STE 4200, NEW YORK NY, 10019
FACILITY: MIDDLETOWN STP
LOCATION: 453 S LAWRENCE ST, MIDDLETOWN PA, 17057-1132
STAGE: Effluent Net

PA0020664
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 12/01/2023
DMR Effective To: 12/31/2023
Permit Expires: 02/28/2026
Permit Application Due: 09/01/2025
No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2023	12	01	TO	2023	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Nitrogen (Total Load, lbs) (51445)	Sample Measurement	< 2466.5	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	29.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: MIDDLETOWN WATER JT VENTURE LLC
ADDRESS: 9W 57TH ST STE 4200, NEW YORK NY, 10019
FACILITY: MIDDLETOWN STP
LOCATION: 453 S LAWRENCE ST, MIDDLETOWN PA, 17057-1132
STAGE: Raw Sewage Influent

PA0020664	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 12/01/2023
DMR Effective To: 12/31/2023
Permit Expires: 02/28/2026
Permit Application Due: 09/01/2025
No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2023	12	01	TO	2023	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Biochemical Oxygen Demand (BOD5) (00310)	Sample Measurement	1070	1790	lbs/day	***	82	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Suspended Solids (00530)	Sample Measurement	644	1453	lbs/day	***	47	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
12-23 Biosolids.xls	Sewage Sludge / Biosolids Production and Disposal Form	2024-01-25T17:50:37-05:00	
12-24 Influent.xls	Influent and Process Control Form	2024-01-25T17:51:45-05:00	
2024 Annual_Chesapeake_Bay_Spreadsheet_v2.2 .xlsm	Annual Chesapeake Bay Spreadsheet	2024-01-25T17:52:11-05:00	
12-23 Effluent Supplemental.xlsx	Daily Effluent Monitoring Form	2024-01-25T17:51:11-05:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
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UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
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OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
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COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
	Kodi Webb	23501	(717)-388-2759

SUBMISSION INFORMATION

*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Kodi Webb	TELEPHONE		DATE		
		(717)	209-2736	2024	01	25
	SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

3800-FM-BCW0436 3/2012

Facility Name: Middletown STP
Municipality: Middletown Borough County: Dauphin
Watershed: 7-C

Month: July Year: 2023
NPDES Permit No.: PA0020664
Renewal application due 180 days prior to expiration.
This permit will expire on: February 28, 2026

Day	Influent					Process Control				
	Flow (MGD)	BOD ₅ (mg/l)	BOD ₅ (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	1.098					5,529.0		17,000.0		
2	1.019							17,000.0		
3	1.317							17,000.0		
4	1.084	138.0	1,248	88.0	796	5,185.0		18,000.0		
5	1.107	51.0	471	34.0	314	5,427.0		20,000.0		
6	1.063					5,500.0		17,000.0		
7	1.062					5,355.0		18,000.0		
8	1.057					5,532.0		20,000.0		
9	0.996							18,000.0		
10	1.927							8,000.0		
11	1.761	49.0	720	40.0	587	3,806.0		20,000.0		
12	1.286	103.0	1,105	32.0	343	4,856.0		25,000.0		
13	1.112					5,135.0		25,000.0		
14	1.151					5,166.0		26,000.0		
15	1.131					5,149.0		25,000.0		
16	1.026							20,000.0		
17	2.683							20,000.0		
18	3.224	44.0	1,183	30.0	807	2,126.0		24,000.0		
19	2.250	45.0	844	26.0	488	4,214.0		20,000.0		
20	1.929					3,848.0		20,000.0		
21	1.850					3,996.0		20,000.0		
22	1.601					4,040.0		18,000.0		
23	1.450							18,000.0		
24	1.367							18,000.0		
25	1.257							18,000.0		
26	1.460	147.0	1,790	30.0	365	4,070.0		18,000.0		
27	1.894	76.0	1,200	92.0	1,453	4,391.0		16,000.0		
28	1.870					3,957.0		16,000.0		
29	1.480					4,091.0		18,000.0		
30	1.367							18,000.0		
31	1.371							18,000.0		
Avg	1.492	82	1,070	47	644	4,569		19,065		
Max	3.224	147	1,790	92	1,453	5,532		26,000		

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Kodi Webb
Title: Project Manager

License No.: 23501
Date: 1/25/2024

CHESAPEAKE BAY SUPPLEMENTAL REPORT ANNUAL NUTRIENT MONITORING

☒ Continuous Discharge

Facility Name: **Middletown STP**
 Municipality: **Middletown Borough** County: **Dauphin**
 Watershed: **7-C**
 TN Cap Load (lbs): **40,182**
 TN Delivery Ratio: **0.837**

☒ Sewage ☐ Industrial Waste

Compliance Year: **2024** Outfall: **001**
 NPDES Permit No.: **PA0020664**
 This permit will expire on: **February 28, 2026**
 TP Cap Load (lbs): **5,358**
 TP Delivery Ratio: **0.503**

Sample Date	FLOW MGD	Total Phosphorus (TP)				NH ₃ -N				TKN				NO ₂ +NO ₃ as N				Total Nitrogen (TN)			
		Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day
10/1/23	0.980																				
10/2/23	0.527		1.1		4.8		2.73		12.0		3.36		14.8		1.55		6.8		4.91		21.6
10/3/23	0.851		0.34		2.4		1.6		11.4		2.04		14.5		6.73		47.8		8.77		62.2
10/4/23	1.502																				
10/5/23	0.945																				
10/6/23	0.981																				
10/7/23	1.091																				
10/8/23	1.006																				
10/9/23	0.999		0.1		0.8		1.8		15.0		2.3		19.2	<	1.38	<	11.5	<	3.68	<	30.7
10/10/23	1.002		0.09		0.8		1.24		10.4		1.55		13.0		1.78		14.9		3.33		27.8
10/11/23	0.972																				
10/12/23	0.951																				
10/13/23	0.893																				
10/14/23	1.782																				
10/15/23	1.322																				
10/16/23	1.088		0.41		3.7		0.66		6.0		1.16		10.5		5.31		48.2		6.47		58.7
10/17/23	1.021		0.09		0.8		0.32		2.7		0.75		6.4		2.31		19.7		3.06		26.1
10/18/23	1.010																				
10/19/23	1.042																				
10/20/23	1.067																				
10/21/23	0.982																				
10/22/23	0.995																				
10/23/23	0.979		0.08		0.7		0.61		5.0		0.56		4.6		1.63		13.3		2.24		18.3
10/24/23	0.994		0.07		0.6		0.09		0.7		0.65		5.4		3.34		27.7		3.99		33.1
10/25/23	0.969																				
10/26/23	0.939																				
10/27/23	0.953																				
10/28/23	0.886																				
10/29/23	1.022																				
10/30/23	1.154		0.08		0.8		0.52		5.0		1.12		10.8		3.04		29.3		4.16		40.0
10/31/23	0.966		0.06		0.5		0.04		0.3		0.64		5.2		3.49		28.1		4.13		33.3
11/1/23	0.966																				
11/2/23	0.961																				
11/3/23	0.960																				
11/4/23	0.935																				
11/5/23	0.953																				
11/6/23	0.943		0.13		1.0		0.64		5.0		1.1		8.5		2.0		15.9		3.10		24.4
11/7/23	0.927		0.10		0.8		0.39		3.0		0.7		5.2		2.9		22.3		3.56		27.5
11/8/23	0.954																				
11/9/23	0.944																				
11/10/23	0.921																				
11/11/23	0.905																				
11/12/23	0.942																				
11/13/23	0.981		0.10		0.8		0.83		6.8		1.2		9.8		4.2		34.5		5.42		44.3

11/14/23	0.891		0.10		0.7		0.40		3.0		1.2		8.5		4.1		30.4		5.24		38.9
11/15/23	0.934																				
11/16/23	0.910																				
11/17/23	0.930																				
11/18/23	0.864																				
11/19/23	0.887																				
11/20/23	0.928		0.10		0.8		0.12		0.9		0.5		4.0		5.5		42.7		6.04		46.7
11/21/23	2.476		0.09		1.9		0.21		4.3		1.0		20.0		7.6		156.1		8.53		176.1
11/22/23	1.485																				
11/23/23	1.041																				
11/24/23	0.954																				
11/25/23	0.965																				
11/26/23	1.156																				
11/27/23	1.161		0.08		0.8		0.81		7.8		1.6		15.1		2.8		27.5		4.40		42.6
11/28/23	1.093		0.06		0.5		2.00		18.2		2.6		23.2		4.8		43.9		7.37		67.2
11/29/23	1.083																				
11/30/23	1.017																				
12/1/23	1.098																				
12/2/23	1.019																				
12/3/23	1.317																				
12/4/23	1.084		0.11		1.0		1.66		15.0		2.0		18.4		1.8		15.8		3.79		34.3
12/5/23	1.107		0.07		0.6		0.91		8.4		1.3		11.6		2.1		18.9		3.31		30.6
12/6/23	1.063																				
12/7/23	1.062																				
12/8/23	1.057																				
12/9/23	0.996																				
12/10/23	1.927																				
12/11/23	1.761		0.09		1.3		0.26		3.8		0.5		7.6		5.7		83.3		6.19		90.9
12/12/23	1.286		0.05		0.5		0.03		0.3	<	0.5	<	5.4	<	4.6	<	49.3	<	5.10	<	54.7
12/13/23	1.112																				
12/14/23	1.151																				
12/15/23	1.131																				
12/16/23	1.026																				
12/17/23	2.683																				
12/18/23	3.224		0.07		1.9		0.02		0.5	<	0.5	<	13.4	<	5.2	<	139.3	<	5.68	<	152.7
12/19/23	2.250		0.05		0.9		0.03		0.6	<	0.5	<	9.4	<	6.9	<	129.7	<	7.41	<	139.0
12/20/23	1.929																				
12/21/23	1.850																				
12/22/23	1.601																				
12/23/23	1.450																				
12/24/23	1.367																				
12/25/23	1.257		0.06		0.6		0.04		0.4	<	0.5	<	5.2	<	5.3	<	55.8	<	5.82	<	61.0
12/26/23	1.460		0.05		0.6	<	0.02	<	0.2		0.5		6.5	<	5.5	<	66.8	<	6.02	<	73.3
12/27/23	1.894																				
12/28/23	1.870																				
12/29/23	1.480																				
12/30/23	1.367																				
12/31/23	1.317																				
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Avg	1.1862		0.14		1.2	<	0.69	<	5.7	<	1.16	<	10.6	<	3.9	<	45.4	<	5.07	<	56
Annual Total Mass Loads (lbs):					431			<	2063			<	3878			<	16559		<	20442	

P Credits Generated: 1179

N Credits Generated: 1752

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: **Kodi Webb**
Title: **Project Manager**

License No.: **23501**
Date: **1/25/2024**

Monthly Statistics

Monthly Total Mass Loads (lbs)

<u>Month</u>	<u>Total Phosphorus (TP)</u>	<u>NH₃-N</u>	<u>TKN</u>	<u>NO₂+NO₃ as N</u>	<u>Total Nitrogen (TN)</u>
October	49	212.3	322.9	< 766.2	< 1090.4
November	27.4	184.3	354.2	1400.3	1754.5
December	29.3	< 113.6	< 300.7	< 2165.8	< 2466.5

January
February
March
April
May
June
July
August
September

Average Monthly Concentrations (mg/L)

<u>Month</u>	<u>Total Phosphorus (TP)</u>	<u>NH₃-N</u>	<u>TKN</u>	<u>NO₂+NO₃ as N</u>	<u>Total Nitrogen (TN)</u>
October	0.24	0.96	1.41	< 3.06	< 4.47
November	0.1	0.68	1.21	4.25	5.46
December	0.07	< 0.37	< 0.79	< 4.62	< 5.42
January					
February					
March					
April					
May					
June					
July					
August					
September					

Month: **December** Year: **2023**
NPDES Permit No.: **PA0020664**
Renewal application due **180 days** prior to expiration
This permit will expire on: **February 28, 2026**

☐ Check here if there were no off-site removal events during the month[illegible]

TOTAL:

Site Name	Marvin Weaver Cedar Rd Farm			
Municipality	Conewago Township			
County	Dauphin			
DEP Permit No.	PAG07-3504			
Type of Material*	Biosolids			
Dry Tons Applied/Disposed	11.98			
Type of Disposal/Use*	Agricultural Utilization			
Hauler Name	BORO. MIDDLETOWN			

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

License No.: 23501
Date: January 25, 2024

VEOLIA Middletown WWTP

December, 2023

DATE	EFF	M.J. Reider Composite Sample Test Results																					
	FLOW	BOD		CBOD		%Removd	SUSPENDED SOLIDS				%Removd	TP		FEC.	NH3		NO2-NO3		TKN		TN		
	MGD	INFLUENT		EFFLUENT			INFLUENT		EFFLUENT			EFFLUENT	COLIF.	EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT			
		mg/L	LBS.	mg/L	LBS.		mg/L	LBS.	mg/L	LBS.		mg/L	LBS.	/100ml	mg/L	LBS.	mg/L	LBS.	mg/L	LBS.	mg/L	LBS.	
01	1.098																						
02	1.019																						
03	1.317																						
04	1.084	138	1,247	<2.0	<18.07	98.6	88	795	4.0	36.15	95.5	0.11	0.99		1.66	15.00	1.8	15.82	2.0	18.44	3.79	34.3	
05	1.107	51	467	<2.0	<18.46	96.0	34	314	2.0	18.46	94.1	0.07	0.65	5	0.91	8.40	2.1	18.92	1.3	11.63	3.31	30.6	
06	1.063													<2									
07	1.062																						
08	1.057																						
09	0.996																						
10	1.927																						
11	1.761	49	718	<2.0	<29.37	95.9	40	587	<1.0	14.68	97.5	0.09	1.32		0.26	3.82	5.7	83.26	0.5	7.64	6.19	90.9	
12	1.286	103	1,105	<2.0	<21.45	98.1	32	343	<1.0	10.72	96.9	0.05	0.54	845	0.03	0.32	<4.6	<49.33	<0.5	<5.36	<5.10	<54.7	
13	1.112													290									
14	1.151																						
15	1.131																						
16	1.026																						
17	2.683																						
18	3.224	44	1,180	<2.0	<53.78	95.4	30	807	4.0	107.56	86.7	0.07	1.88		0.02	0.54	<5.2	<139.29	<0.5	<13.45	<5.68	<152.7	
19	2.250	45	721	<2.0	<32.18	95.5	26	418	4.0	64.36	84.6	0.05	0.80	370	0.03	0.48	<6.9	<111.17	<0.5	<8.04	<7.41	<119.2	
20	1.929													340									
21	1.850																						
22	1.601																						
23	1.450																						
24	1.367																						
25	1.257	147	1,789	<2.0	<24.35	98.6	30	365	11.0	133.90	63.3	0.06	0.73		0.04	0.49	<5.8	<70.84	<0.5	<6.09	<6.32	<76.9	
26	1.460	76	1,207	<2.0	<31.60	97.4	92	1,453	<1.0	15.80	98.9	0.05	0.79	1,090	<0.02	<0.32	<5.5	<86.73	0.5	8.37	<6.02	<95.1	
27	1.894													510									
28	1.870																						
29	1.480																						
30	1.367																						
31	1.371																						

VEOLIA Middletown WWTP
Daily Effluent Grab Monitoring / Weather

December

2023

Date	Operator Initials	Effluent Grab Sample Time		pH		RPD	Dissolved Oxygen (mg/L)		RPD	Total Residual Chlorine (mg/L)		RPD	Temp.	Influent COD	Comments
		Start	Finish	#1	#2	%	#1	#2	%	#1	#2	%	C	mg/L	
01	MB	1040	1040	7.70	7.70	0.00	8.39	8.42	-0.36	0.24	.22	8.70	16.8	392.00	
02	MB	1133	1133	7.70	7.70	0.00	8.54	8.53	0.12	0.26	.26	.00	16.9		
03	MB	1257	1257	7.60	7.60	0.00	8.29	8.27	0.24	0.17	.16	6.06	17.4		
04	MB	1017	1017	7.70	7.60	1.31	8.23	8.21	0.24	0.29	.26	10.91	17.9	574.00	
05	MB	0900	0900	7.70	7.70	0.00	8.70	8.71	-0.11	0.23	.23	.00	16.0	430.00	
06	AB	0915	0915	7.70	7.70	0.00	8.61	8.59	0.23	0.25	.26	-3.92	16.8	239.00	
07	AB	0840	0840	7.70	7.70	0.00	8.55	8.59	-0.47	0.30	.32	-6.45	17.0	311.00	
08	MB	1137	1137	7.60	7.60	0.00	8.54	8.55	-0.12	0.28	.28	.00	16.9	456.00	
09	MB	1314	1314	7.70	7.70	0.00	8.87	8.85	0.23	0.22	.21	4.65	16.3		
10	AB	1233	1233	7.70	7.70	0.00	8.65	8.69	-0.46	0.23	.21	9.09	16.0		
11	AB	0945	0945	7.60	7.50	1.32	8.84	8.87	-0.34	0.12	.12	.00	15.6	298.00	
12	AB	0900	0900	7.70	7.60	1.31	9.21	9.20	0.11	0.10	.11	-9.52	15.2	121.00	
13	MB	0805	0805	7.60	7.70	-1.31	9.32	9.25	0.75	0.14	.12	15.38	15.3	233.00	
14	AB	0901	0901	7.60	7.70	-1.31	9.27	9.26	0.11	0.13	.12	8.00	15.2	195.00	
15	TH/AB	0906	0906	7.60	7.70	-1.31	8.79	8.78	0.11	0.32	.33	-3.08	15.5	324.00	
16	TH	0942	0942	7.70	7.80	-1.29	8.95	8.95	0.00	0.23	.23	.00	15.7		
17	AB	1130	1130	7.60	7.70	-1.31	8.86	8.82	0.45	0.25	.23	8.33	15.8		
18	AB	1130	1130	7.40	7.40	0.00	8.60	8.56	0.47	0.06	.06	.00	14.2	220.00	
19	AB	0745	0745	7.50	7.50	0.00	9.29	9.27	0.22	0.16	.16	.00	14.6	93.00	
20	AB	0735	0735	7.60	7.60	0.00	9.80	9.81	-0.10	0.15	.16	-6.45	13.2	111.00	
21	AB	0740	0740	7.60	7.60	0.00	9.76	9.76	0.00	0.15	.13	14.29	14.1	321.00	
22	AB	1130	1130	7.40	7.50	-1.34	9.40	9.39	0.11	0.13	.13	.00	14.1	214.00	
23	AB	1115	1115	7.60	7.60	0.00	9.26	9.29	-0.32	0.10	.13	-26.09	13.6		
24	MB	1153	1153	7.60	7.70	-1.31	9.56	9.50	0.63	0.07	.07	.00	14.6		
25	MB	0747	0747	7.70	7.70	0.00	9.29	9.30	-0.11	0.07	.07	.00	15.1		
26	AB	0725	0725	7.70	7.60	1.31	9.30	9.23	0.76	0.10	.10	.00	15.1	200.00	
27	TH	0735	0735	7.60	7.60	0.00	9.13	9.14	-0.11	0.15	.15	.00	15.6	344.00	
28	TH/AB	0900	0900	7.40	7.50	-1.34	8.66	8.67	-0.12	0.27	.28	-3.64	15.0	359.00	
29	TH/AB	0846	0846	7.50	7.60	-1.32	9.06	9.08	-0.22	0.15	.15	.00	15.0	150.00	
30	TH	0850	0850	7.60	7.60	0.00	9.04	9.07	-0.33	0.16	.16	.00	14.8		
2/31/20	TH	1035	1035	7.60	7.70	-1.31	9.28	9.25	0.32	0.15	.15	.00	14.7		

VEOLIA Middletown WWTP

Process Control

December

2023

DAY	DITCH				RAS	WASTE			RR	F/M	SETTLING TEST			BLANKETS	
	TS		VS		TS	Gallons	Lbs	SRT			MINUTES		SVI	C1	C2
	mg/L	lbs	mg/L	%	mg/L			Days			5	30		AM	AM
01	5,529	33,661	3,828	69.2	9,458	17,000	1,341	17.38	4.50		990	810	147	37	36
02						17,000								48	50
03						17,000								56	50
04	5,185	31,566	3,672	70.8	11,366	18,000	1,706	13.10	4.41		990	770	149	54	40
05	5,427	33,043	3,957	72.9	8,755	20,000	1,460	16.50	5.25		970	800	147	36	33
06	5,500	33,482	3,972	72.2	8,743	17,000	1,240	19.51	4.52		960	790	144	33	36
07	5,355	32,602	3,967	74.1	8,936	18,000	1,341	18.00	5.64		970	800	149	33	33
08	5,532	33,678	4,064	73.5	10,098	20,000	1,684	14.69	4.56		990	810	146	36	48
09						18,000								42	36
10						18,000								40	38
11	3,806	23,175	2,705	71.1	13,539	20,000	2,258	7.29	5.26		900	530	139	72	50
12	4,856	29,566	3,541	72.9	10,411	25,000	2,171	9.93	4.47		970	730	150	48	30
13	5,135	31,260	3,907	76.1	9,648	25,000	2,012	11.82	4.07		990	780	152	48	34
14	5,166	31,449	4,153	80.4	8,994	26,000	1,950	12.96	3.41		950	760	147	36	36
15	5,149	31,351	3,576	69.5	9,080	25,000	1,893	11.50	4.08		940	740	144	26	37
16						20,000								25	25
17						20,000								42	36
18	2,126	12,946	1,519	71.4	14,964	24,000	2,995	3.09	9.32		440	230	108	72	84
19	4,214	25,656	2,744	65.1	10,961	20,000	1,828	9.14	3.59		800	400	95	48	36
20	3,848	23,426	2,835	73.7	10,568	20,000	1,763	9.79	2.98		870	470	122	36	36
21	3,996	24,326	2,797	70.0	9,181	20,000	1,531	11.12	3.33		850	460	115		
22	4,040	24,594	2,828	70.0	9,222	18,000	1,384	12.44	4.41		900	520	129	36	36
23						18,000								40	36
24						18,000								46	48
25						18,000								28	40
26	4,070	24,777	2,817	69.2	7,537	18,000	1,131	15.16	4.60		900	560	138	36	36
27	4,391	26,733	3,063	69.8	9,996	18,000	1,501	12.43	11.12		910	550	125	34	36
28	3,957	24,094	2,721	68.8	9,947	16,000	1,327	12.48	5.42		900	640	162	40	34
29	4,091	24,907	2,764	67.6	10,531	16,000	1,405	11.98	4.60		900	590	144	36	32
30						16,000									
31						16,000									
AVG	4,569	27,815	3,272	71.4	10,097	19,258	1,696	12.5	4.98		905	637	138	42	39

PA MIDDLETOWN WWTP

THICKENER MONTHLY REPORT

December

2023

DATE	RUN	FEED SLUDGE			DISCHARGE SLUDGE			POLYMER
	TIME	GALLONS	% SOLIDS	LBS.	GALLONS	% SOLIDS	LBS.	GALLONS
01	5.25	64,229	0.91	4,875	10,098	4.67	3,933	6
02								
03								
04								
05	6.25	77,677	0.83	5,377	8,415	3.41	2,393	6
06								
07								
08	5.50	52,311	0.96	4,188	10,098	3.98	3,352	4
09								
10								
11	5.50	67,956	1.31	7,424	13,464	4.33	4,862	10
12								
13								
14								
15	6.00	94,095	1.18	9,260	20,196	4.40	7,411	10
16								
17								
18	6.50	85,033	1.19	8,439	15,147	4.17	5,268	8
19								
20								
21								
22	6.00	83,630	1.11	7,742	15,147	4.05	5,116	8
23								
24								
25								
26	6.75	80,780	1.05	7,074	15,147	4.77	6,025	7
27								
28								
29								
30								
31								
TOTAL	48	605,711	8.54	54,379	107,712	33.78	38,360	59

REVISED 7/17/14

Veolia Middletown WWTP

December

2023

[illegible]

Veolia Middletown WWTP

December

2023

[illegible]

VEOLIA Middletown WWTP

Centrifuge Monthly Report

December

2023

Date	Run Time	Feed Sludge		Centrifuge Cake			Lime		Polymer	Alum	SNDR		Copper
	Hours	Gallons	% Solids	Pounds Dry Solids	Dry Tons	% Solids	Pounds Used	Pounds/ Ton	Total Gallons	Total Gallons	pH	Level	Conc. mg/l
01													
02													
03													
04													
05													
06	6.00	27,541	2.64	6,064	3.03	29.3	1,008	332	16	112	5.9	9.0	
07													
08													
09													
10													
11													
12													
13													
14	5.50	26,766	2.58	5,759	2.88	28.0	924	321	15	48	5.7	9.0	
15													
16													
17													
18													
19													
20													
21	5.25	26,423	2.71	5,972	2.99	26.8	882	295	19	48	6.1	9.0	
22													
23													
24													
25													
26													
27	6.50	26,015	2.60	5,641	2.82	31.3	1,092	387	14	78	7.1	9.0	
28													
29													
30													
31													

PA MIDDLETOWN WWTP

December, 2023

BIOSOLIDS INVENTORY

DATE	DRY TONS		TO	USE	TOTAL ON SITE
	PROCESSED	DELIVERED			
12/01/23					
12/02/23					
12/03/23					
12/04/23					
12/05/23		3.08	Amerigreen	Agriculture	0.00
12/06/23	3.03				3.03
12/07/23		3.03	Amerigreen	Agriculture	0.00
12/08/23					
12/09/23					
12/10/23					
12/11/23					
12/12/23					
12/13/23					
12/14/23	2.88				2.88
12/15/23					
12/16/23					
12/17/23					
12/18/23					
12/19/23		2.88	Amerigreen	Agriculture	2.88
12/20/23					
12/21/23	2.82	2.82	Amerigreen	Agriculture	0.00
12/22/23					
12/23/23					
12/24/23					
12/25/23					
12/26/23					
12/27/23	2.82				2.82
12/28/23					
12/29/23					
12/30/23					
12/31/23					
Total Tons	11.55	11.81		Total Tons	11.61
Metric Tons	7.92	10.71		Metric Tons	7.97

2023**PA MIDDLETOWN WWTP****BIOSOLIDS INVENTORY**

DATE	Dry Tons (US Short Tons)		Dry Tons (Metric Tons)	
	PROCESSED	DELIVERED	PROCESSED	DELIVERED
Jan, 2023	16.48	16.48	14.95	14.95
Feb, 2023	16.91	16.91	15.34	15.34
Mar, 2023	13.73	12.98	12.46	11.78
Apr, 2023	12.08	11.77	10.96	10.68
May, 2023	12.75	13.81	11.57	12.53
Jun, 2023	10.14	10.14	9.20	9.20
Jul, 2023	10.83	10.83	9.82	9.82
Aug, 2023	10.35	10.35	9.39	9.39
Sep, 2023	11.81	11.81	10.71	10.71
Oct, 2023	8.97	8.97	8.14	8.14
Nov, 2023	11.40	8.32	10.34	7.55
Dec, 2023	11.55	11.81	10.48	10.71
Total	147.00	144.18	133.36	130.80
Average	12.25	12.02	11.11	10.90
Maximum	16.91	16.91	15.34	15.34
Minimum	8.97	8.32	8.14	7.55

PA MIDDLETOWN WWTP

BIOSOLIDS VOLATILE REDUCTION

MONTH December

YEAR 2023

DAY	THICKENER DISCHARGE			SNDR			%
	TS	TVS	VS	TS	TVS	VS	VOL.
	mg/L		%	mg/L		%	REDUCT.
01							
02							
03							
04							
05	41,000	31,406	77	26,100	14,600	56	53.5
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26	62,000	47,554	77	27,600	15,300	55	67.8
27							
28							
29							
30							
31							
AVG	51500.00	39480.00	76.65	26850.00	14950.00	55.69	

% SOLIDS REDUCTION	47.86	62.13	%
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REVISED 7/17/14

Veolia Middletown WWTP

Biosolids Volatile Reduction

M.J. Reider Results

2022

Date	Thickener Discharge			SNDR			Volatile
	TS	TVS	VS	TS	TVS	VS	Reduction
	mg/L		%	mg/L		%	%
01/04/23	55,000	42,240	77.0	31,900	18,300	56.7	56.7
02/13/23	61,000	46,846	77.0	25,900	14,000	54.0	70.1
03/06/23	52,000	39,988	77.0	26,500	14,600	55.0	63.5
03/20/23	61,000	47,373	78.0	26,900	15,000	56.0	68.3
04/05/23	61,000	47,458	78.0	26,400	14,600	55.0	69.2
04/17/23	61,000	46,665	77.0	26,200	14,600	56.0	68.7
05/01/23	56,000	42,280	75.5	26,200	14,500	55.0	65.7
05/22/23	56,000	42,168	75.3	25,900	14,300	55.0	66.1
06/07/23	50,000	36,900	74.0	26,400	14,900	56.0	59.6
06/20/23	57,000	41,496	73.0	25,600	14,400	56.0	65.3
07/05/23	59,000	41,182	70.0	25,500	14,300	56.0	65.3
07/17/23	49,000	34,986	71.0	25,700	14,100	55.0	59.7
08/21/23	47,000	32,994	70.0	24,700	13,600	55.0	58.8
08/28/23	45,000	31,815	71.0	25,200	14,000	56.0	56.0
09/05/23	57,000	40,470	70.0	26,300	14,400	55.0	64.4
09/18/23	58,000	42,224	73.0	26,400	14,700	56.0	65.2
10/11/23	48,000	35,040	73.0	26,500	14,700	55.0	58.0
10/30/23	39,000	29,679	76.0	26,200	14,200	54.0	52.2
11/07/23	40,000	30,400	76.0	26,300	14,300	54.0	53.0
11/29/23	44,000	33,308	76.0	25,700	14,300	56.0	57.1
12/05/23	41,000	31,406	77.0	26,100	14,600	56.0	53.5
12/26/23	62,000	47,554	77.0	27,600	15,300	55.0	67.8
AVG	52,682	39,294	74.6	26,368	14,623	55.5	
Avg. % TS Reduction		49.9	Avg. Mass Balance % VS Reduction				62.8

**PA MIDDLETOWN WWTP
2023 Annual Performance**

	Flow Data						BOD / CBOD						Phosphorus, Total		Fecal Colif.
	Total MG	Average MG	Maximum		Minimum		Inf mg/L	Eff mg/L	Inf Lbs	Eff Lbs	Lbs Removed	% Removal	Eff mg/L	Eff Lbs	cfu/100mL
January	43.279	1.396	1/25/2023	2.105	1/18/2023	1.153	429	2	154,777	740	154,037	98.8	0.26	95	300
February	30.250	1.080	2/2/2023	1.317	2/15/2023	0.952	213	2	53,845	549	53,297	98.9	0.23	58	570
March	34.110	1.107	3/3/2023	2.352	3/13/2023	0.112	159	2	45,534	708	44,826	98.4	0.14	39	>20,000
April	42.004	1.400	4/30/2023	4.112	4/27/2023	0.840	123	2	43,063	832	42,231	98.0	0.19	65	200
May	32.718	1.055	5/1/2023	2.314	5/27/2023	0.758	100	2	27,169	546	26,624	97.6	0.31	83	8
June	28.085	0.936	6/12/2023	1.717	6/29/2023	0.491	140	2	32,742	468	32,274	98.4	0.25	59	8
July	30.661	0.989	7/9/2023	1.816	7/31/2023	0.788	104	2	26,551	551	26,040	97.9	0.50	128	26
August	27.888	0.900	8/17/2023	1.519	8/3/2023	0.354	112	2	26,011	465	25,546	98.0	0.91	212	20
September	31.832	1.061	9/24/2023	2.376	9/3/2023	0.771	90	2	24,009	531	23,478	97.5	0.62	165	54
October	31.871	1.028	10/14/2023	1.782	10/2/2023	0.527	124	2	33,068	548	32,521	98.1	0.24	64	18
November	31.067	1.036	11/21/2023	2.476	11/18/2023	0.864	197	2	51,043	564	50,480	98.8	0.10	25	440
December	46.250	1.492	12/18/2023	3.224	12/9/2023	0.996	82	2	31,466	771	30,694	97.1	0.07	27	1090
Total	410.015								549,278	7,273	542,048			1,020	
Average	34.168	1.123		2.259		0.717	156	2	45,773	606	45,171	98.1	0.32	85	
Maximum	46.250	1.492		4.112		1.153	429	2	154,777	832	154,037	98.9	0.91	212	
Minimum	27.888	0.900		1.317		0.112	82	2	24,009	465	23,478	97.1	0.07	25	
	TSS						Ammonia		TKN		Nitrate+Nitrite				Fecal Colif.
	Inf mg/L	Eff mg/L	Inf Lbs	Eff Lbs	Lbs Removed	% Removal	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Geo. Mean
January	475	3	171,377	1,119	170,258	98.0	0.12	39	0.9	311	7.27	2,625	8.14	2,936	43
February	176	2	44,475	460	44,014	98.3	0.04	10	1.0	253	8.25	2,081	9.25	2,334	122
March	106	2	30,404	608	29,796	97.6	0.06	18	1.1	323	6.79	1,943	7.92	2,266	>53
April	64	3	22,552	920	21,632	95.9	0.03	10	1.0	361	2.07	725	3.10	1,086	<6
May	99	2	27,096	409	26,686	98.1	0.03	7	0.6	175	2.00	545	2.64	720	<3
June	118	2	27,610	498	27,112	97.3	0.07	16	0.7	167	2.51	587	3.22	754	<3
July	57	3	14,576	852	13,723	92.5	0.04	10	0.6	164	2.18	556	2.82	710	<3
August	71	3	16,514	646	15,867	95.5	0.03	7	0.6	135	3.91	909	4.49	1,043	<4
September	67	2	17,721	465	17,256	95.7	0.16	43	0.6	158	5.68	1,508	6.28	1,666	<8
October	83	2	21,982	505	21,447	97.4	0.96	255	1.4	376	3.06	812	4.47	1,188	<3
November	167	2	43,335	551	42,784	98.7	0.68	175	1.2	314	4.25	1,100	5.46	1,414	<8
December	47	2	17,936	937	17,000	94.3	0.37	143	0.8	306	4.68	1,807	5.48	2,113	<143
Total			455,578	7,970	447,575			733	11	3,043		15,198		18,230	
Average	127.5	2.3	37,965	664	37,298	96.6	0.22	61	1	254	4.39	1,267	5.27	1,519	
Maximum	475.0	3.0	171,377	1,119	170,258	98.7	0.96	255	1	376	8.25	2,625	9.25	2,936	
Minimum	47.0	2.0	14,576	409	13,723	92.5	0.03	7	1	135	2.00	545	2.64	710	



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ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2347396

Report: 12/12/23

Lab Contact: Bradley T Griffiths

Attention: Kodi Webb
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2347396-01 **Collected By:** Client
Sample Desc: Influent (24Hr Composite)

Sampled: 12/05/23 07:50 **Received:** 12/05/23 13:40
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	138	mg/l	2.0	SM 5210 B	12/06/23 16:56	B-04	RXN
Solids, Total Suspended	88	mg/l	1	SM 2540 D	12/07/23		ALD

Lab ID: 2347396-02 **Collected By:** Client
Sample Desc: Effluent (24Hr Composite)

Sampled: 12/05/23 09:00 **Received:** 12/05/23 13:40
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	1.66	mg/l	0.02	EPA 350.1 Rev 2.0	12/06/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/06/23 11:52		INW
Nitrate as N	1.03	mg/l	1.00	EPA 300.0 Rev 2.1	12/05/23 17:55		KCS
Nitrite as N	0.72	mg/l	0.10	EPA 300.0 Rev 2.1	12/05/23 17:55		KCS
Nitrate+Nitrite as N	1.75	mg/l	1.10	CALCULATED	12/05/23 17:55		KCS
Nitrogen, Total	3.79	mg/l	1.60	CALCULATED	12/09/23 19:19		SNF
Nitrogen, Total Kjeldahl (TKN)	2.04	mg/l	0.50	EPA 351.2 Rev 2.0	12/09/23		SNF
Phosphorus as P, Total	0.11	mg/l	0.01	SM 4500-P F	12/06/23		JMW
Solids, Total Suspended	4	mg/l	1	SM 2540 D	12/06/23		ALD

Lab ID: 2347396-03 **Collected By:** Client
Sample Desc: Effluent (Grab)

Sampled: 12/05/23 10:25 **Received:** 12/05/23 13:40
Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	5	CFU/100ml	2	SM 9222 D	12/5/23 16:19	12/6/23 15:52		RMB



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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2347396-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3L0339	12/06/2023	NJG

Notes and Definitions

B-04 The difference between the highest and lowest results were greater than 30%.



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U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2348129

Report: 12/13/23

Lab Contact: Bradley T Griffiths

Attention: Kodi Webb
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2348129-01 **Collected By:** Client **Sampled:** 12/06/23 07:56 **Received:** 12/06/23 13:35
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	50.6	mg/l	2.0	SM 5210 B	12/07/23 15:19		KMS
Solids, Total Suspended	34	mg/l	1	SM 2540 D	12/08/23		ALD

Lab ID: 2348129-02 **Collected By:** Client **Sampled:** 12/06/23 09:15 **Received:** 12/06/23 13:35
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.91	mg/l	0.02	EPA 350.1 Rev 2.0	12/07/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/07/23 13:06		KMD
Nitrate as N	1.84	mg/l	1.00	EPA 300.0 Rev 2.1	12/06/23 16:07		KCS
Nitrite as N	0.21	mg/l	0.10	EPA 300.0 Rev 2.1	12/06/23 16:07		KCS
Nitrate+Nitrite as N	2.05	mg/l	1.10	CALCULATED	12/06/23 16:07		KCS
Nitrogen, Total	3.31	mg/l	1.60	CALCULATED	12/09/23 14:11		SNF
Nitrogen, Total Kjeldahl (TKN)	1.26	mg/l	0.50	EPA 351.2 Rev 2.0	12/09/23		SNF
Phosphorus as P, Total	0.07	mg/l	0.01	SM 4500-P F	12/07/23		JMW
Solids, Total Suspended	2	mg/l	1	SM 2540 D	12/08/23		ALD

Lab ID: 2348129-03 **Collected By:** Client **Sampled:** 12/06/23 11:10 **Received:** 12/06/23 13:35
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	CFU/100ml	2	SM 9222 D	12/6/23 16:52	12/7/23 15:04		RMB



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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2348129-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3L0362	12/06/2023	JMW



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M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2348354

Report: 12/19/23

Lab Contact: Bradley T Griffiths

Attention: Kodi Webb
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2348354-01 **Collected By:** Client **Sampled:** 12/12/23 07:54 **Received:** 12/12/23 14:12
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	48.9	mg/l	2.0	SM 5210 B	12/13/23 12:52	B-01, B-04	RXN
Solids, Total Suspended	40	mg/l	1	SM 2540 D	12/13/23		ALD

Lab ID: 2348354-02 **Collected By:** Client **Sampled:** 12/12/23 09:00 **Received:** 12/12/23 14:12
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.26	mg/l	0.02	EPA 350.1 Rev 2.0	12/12/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/13/23 10:20	B-01	INW
Nitrate as N	5.43	mg/l	1.00	EPA 300.0 Rev 2.1	12/13/23 2:19		JAF
Nitrite as N	0.24	mg/l	0.10	EPA 300.0 Rev 2.1	12/13/23 2:19		JAF
Nitrate+Nitrite as N	5.67	mg/l	1.10	CALCULATED	12/13/23 2:19		JAF
Nitrogen, Total	6.19	mg/l	1.60	CALCULATED	12/13/23 16:13		SNF
Nitrogen, Total Kjeldahl (TKN)	0.52	mg/l	0.50	EPA 351.2 Rev 2.0	12/13/23		SNF
Phosphorus as P, Total	0.09	mg/l	0.01	SM 4500-P F	12/12/23		JMW
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	12/13/23		ALD

Lab ID: 2348354-03 **Collected By:** Client **Sampled:** 12/12/23 09:50 **Received:** 12/12/23 14:12
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	845	CFU/100ml	2	SM 9222 D	12/12/23 15:53	12/13/23 13:56		RMB



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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2348354-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3L0732	12/12/2023	JMW

Notes and Definitions

- B-01 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L.
B-04 The difference between the highest and lowest results were greater than 30%.



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ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2349113

Report: 12/20/23

Lab Contact: Bradley T Griffiths

Attention: Kodi Webb
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2349113-01 **Collected By:** Client **Sampled:** 12/13/23 08:05 **Received:** 12/13/23 14:43
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	103	mg/l	2.0	SM 5210 B	12/14/23 13:41	B-04	KMS
Solids, Total Suspended	32	mg/l	1	SM 2540 D	12/14/23		ALD

Lab ID: 2349113-02 **Collected By:** Client **Sampled:** 12/13/23 08:16 **Received:** 12/13/23 14:43
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.03	mg/l	0.02	EPA 350.1 Rev 2.0	12/14/23		SNF
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/14/23 14:53		KMS
Nitrate as N	4.50	mg/l	1.00	EPA 300.0 Rev 2.1	12/13/23 19:57		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/13/23 19:57		KCS
Nitrate+Nitrite as N	<4.60	mg/l	1.10	CALCULATED	12/13/23 19:57		KCS
Nitrogen, Total	<5.10	mg/l	1.60	CALCULATED	12/18/23 20:26		JMW
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	12/18/23		JMW
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	12/15/23		SNF
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	12/15/23		JLS

Lab ID: 2349113-03 **Collected By:** Client **Sampled:** 12/13/23 10:33 **Received:** 12/13/23 14:43
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	290	CFU/100ml	2	SM 9222 D	12/13/23 16:33	12/14/23 14:46		JMW



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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2349113-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3L0882	12/14/2023	SNF

Notes and Definitions

B-04 The difference between the highest and lowest results were greater than 30%.



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U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2349269

Report: 01/03/24

Lab Contact: Bradley T Griffiths

Attention: Kodi Webb
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2349269-01 **Collected By:** Client **Sampled:** 12/19/23 08:10 **Received:** 12/19/23 14:49
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	43.9	mg/l	2.0	SM 5210 B	12/19/23 17:15	B-02	RXN
Solids, Total Suspended	30	mg/l	1	SM 2540 D	12/20/23		JLS

Lab ID: 2349269-02 **Collected By:** Client **Sampled:** 12/19/23 09:40 **Received:** 12/19/23 14:49
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.02	mg/l	0.02	EPA 350.1 Rev 2.0	12/20/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/20/23 7:53		INW
Nitrate as N	5.08	mg/l	1.00	EPA 300.0 Rev 2.1	12/19/23 23:12		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/19/23 23:12		KCS
Nitrate+Nitrite as N	<5.18	mg/l	1.10	CALCULATED	12/19/23 23:12		KCS
Nitrogen, Total	<5.68	mg/l	1.60	CALCULATED	12/21/23 11:54		SNF
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	12/21/23		SNF
Phosphorus as P, Total	0.07	mg/l	0.01	SM 4500-P F	12/20/23		JMW
Solids, Total Suspended	4	mg/l	1	SM 2540 D	12/20/23		JLS

Lab ID: 2349269-03 **Collected By:** Client **Sampled:** 12/19/23 10:40 **Received:** 12/19/23 14:49
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	370	CFU/100ml	2	SM 9222 D	12/19/23 16:49	12/20/23 15:00		MAC



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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2349269-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3L1249	12/20/2023	JMW

Notes and Definitions

B-02 The Glucose-Glutamic Acid check was above the acceptable criteria of 198 ± 30.5 mg/L.



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ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2349982

Report: 12/29/23

Lab Contact: Bradley T Griffiths

Attention: Kodi Webb
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2349982-01 **Collected By:** Client
Sample Desc: Influent (24Hr Composite)

Sampled: 12/20/23 07:42 **Received:** 12/20/23 13:52
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	44.8	mg/l	2.0	SM 5210 B	12/21/23 16:33	B-01, B-02, B-04	RXN
Solids, Total Suspended	26	mg/l	1	SM 2540 D	12/21/23		JLS

Lab ID: 2349982-02 **Collected By:** Client
Sample Desc: Effluent (24Hr Composite)

Sampled: 12/20/23 10:43 **Received:** 12/20/23 13:52
Sample Type: Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.03	mg/l	0.02	EPA 350.1 Rev 2.0	12/21/23		SNF
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/21/23 14:08		RXN
Nitrate as N	6.81	mg/l	1.00	EPA 300.0 Rev 2.1	12/20/23 16:25		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/20/23 16:25		KCS
Nitrate+Nitrite as N	<6.91	mg/l	1.10	CALCULATED	12/20/23 16:25		KCS
Nitrogen, Total	<7.41	mg/l	1.60	CALCULATED	12/26/23 18:27		JMW
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	12/26/23		JMW
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	12/21/23		SNF
Solids, Total Suspended	4	mg/l	1	SM 2540 D	12/21/23		JLS

Lab ID: 2349982-03 **Collected By:** Client
Sample Desc: Effluent (Grab)

Sampled: 12/20/23 08:40 **Received:** 12/20/23 13:52
Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	340	CFU/100ml	2	SM 9222 D	12/20/23 15:00	12/21/23 14:09		MAC



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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2349982-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3L1330	12/21/2023	SNF

Notes and Definitions

- B-01 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L.
- B-02 The Glucose-Glutamic Acid check was above the acceptable criteria of 198 ± 30.5 mg/L.
- B-04 The difference between the highest and lowest results were greater than 30%.



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U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2350266

Report: 01/03/24

Lab Contact: Bradley T Griffiths

Attention: Kodi Webb
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2350266-01 **Collected By:** Client **Sampled:** 12/26/23 07:50 **Received:** 12/26/23 13:15
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	147	mg/l	2.0	SM 5210 B	12/27/23 9:24	B-02, B-04	ZJB
Solids, Total Suspended	30	mg/l	1	SM 2540 D	12/27/23		JLS

Lab ID: 2350266-02 **Collected By:** Client **Sampled:** 12/26/23 07:25 **Received:** 12/26/23 13:15
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.04	mg/l	0.02	EPA 350.1 Rev 2.0	12/27/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/27/23 11:56		ZJB
Nitrate as N	5.22	mg/l	1.00	EPA 300.0 Rev 2.1	12/26/23 15:29		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/26/23 15:29		KCS
Nitrate+Nitrite as N	<5.32	mg/l	1.10	CALCULATED	12/26/23 15:29		KCS
Nitrogen, Total	<5.82	mg/l	1.60	CALCULATED	12/29/23 13:04		SNF
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	12/29/23		SNF
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	12/27/23		JMW
Solids, Total Suspended	11	mg/l	1	SM 2540 D	12/27/23		JLS

Lab ID: 2350266-03 **Collected By:** Client **Sampled:** 12/26/23 10:21 **Received:** 12/26/23 13:15
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	1090	CFU/100ml	2	SM 9222 D	12/26/23 15:53	12/27/23 14:45		MAC



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M.J. Reider Associates, Inc.





Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2350266-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3L1552	12/27/2023	JMW

Notes and Definitions

- B-02 The Glucose-Glutamic Acid check was above the acceptable criteria of 198 ± 30.5 mg/L.
- B-04 The difference between the highest and lowest results were greater than 30%.



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M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2350958

Report: 01/03/24

Lab Contact: Bradley T Griffiths

Attention: Kodi Webb
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2350958-01 **Collected By:** Carolyn M Lessig **Sampled:** 12/27/23 09:15 **Received:** 12/27/23 14:31
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	76.4	mg/l	2.0	SM 5210 B	12/28/23 11:10		KMS
Solids, Total Suspended	92	mg/l	1	SM 2540 D	12/28/23		BKM

Lab ID: 2350958-02 **Collected By:** Carolyn M Lessig **Sampled:** 12/27/23 07:35 **Received:** 12/27/23 14:31
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	<0.02	mg/l	0.02	EPA 350.1 Rev 2.0	12/28/23		SNF
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/28/23 16:22	B-01, B-02	RXN
Nitrate as N	5.39	mg/l	1.00	EPA 300.0 Rev 2.1	12/27/23 17:49		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/27/23 17:49		KCS
Nitrate+Nitrite as N	<5.49	mg/l	1.10	CALCULATED	12/27/23 17:49		KCS
Nitrogen, Total	<6.02	mg/l	1.60	CALCULATED	12/29/23 17:13		SNF
Nitrogen, Total Kjeldahl (TKN)	0.53	mg/l	0.50	EPA 351.2 Rev 2.0	12/29/23		SNF
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	12/28/23		SNF
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	12/28/23		BKM

Lab ID: 2350958-03 **Collected By:** Carolyn M Lessig **Sampled:** 12/27/23 09:40 **Received:** 12/27/23 14:31
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	510	CFU/100ml	2	SM 9222 D	12/27/23 15:35	12/28/23 13:44		MAC



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M.J. Reider Associates, Inc.

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2350958-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3L1626	12/28/2023	SNF

Notes and Definitions

- B-01 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L.
- B-02 The Glucose-Glutamic Acid check was above the acceptable criteria of 198 ± 30.5 mg/L.



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Time Period Custom ▼

Date Range 2023-12-01 17:05 - 2023-12-31 17:05

Long Filter No Filter ▼

[Update Chart](#)

[Download Data](#) 

Locations

● 301-MH-332	▼	Water Level above Bottom	▼	+ -
● 301-MH-475A	▼	Water Level above Bottom	▼	+ -
● MH-286	▼	Water Level above Bottom	▼	+ -
● MH-290	▼	Water Level above Bottom	▼	+ -
● [RAIN] Mill Street-Hoffer Park	▼	Rain	▼	+ - Total: 0.68 in

Chart up to 5 data series by selecting additional locations & their data types.

MIDDLETOWN MONTHLY REPORT

APPENDIX 2 DRINKING WATER

MIDDLETOWN WATER SYSTEM MONTHLY SAFE DRINKING WATER ACT COMPLIANCE REPORT AND CORRESPONDENCE WITH PADEP

&

SUSQUEHANNA RIVER BASIN COMMISSION QUARTERLY WATER WITHDRAWAL REPORT AND CORRESPONDENCE

Monthly Water Pumped
Middletown Borough Authority

December, 2023

Maximum Day 1,143,110
Minimum Day 833,752

Days pumped 31

Date	Well No.1	Well No.2	Well No.3	Well No.4	Well No.5	Well No.6	Total	Union Booster
01	168,718	285,354			93,884	300,433	848,389	87,327
02	240,350	283,547			133,219	433,452	1,090,568	130,663
03	190,483	284,504			106,577	343,485	925,049	97,167
04	196,188	284,491			109,691	352,954	943,324	148,396
05	205,312	285,058			114,261	369,248	973,879	147,362
06	196,312	284,939			109,097	351,916	942,264	86,311
07	212,835	284,705			118,068	382,855	998,463	143,003
08	176,762	286,321			98,062	316,867	878,012	98,646
09	217,955	285,499			120,947	366,308	990,709	146,592
10	197,202	285,713			109,585	342,502	935,002	121,374
11	214,934	285,657			119,892	383,478	1,003,961	106,698
12	218,449	288,391			121,068	395,261	1,023,169	158,119
13	190,173	289,366			105,264	341,347	926,150	92,250
14	184,137	291,313			101,998	330,671	908,119	145,545
15	168,394	292,485			93,538	302,495	856,912	105,291
16	221,590	290,669			122,069	399,218	1,033,546	108,771
17	184,057	291,397			102,337	331,962	909,753	93,979
18	186,565	294,073			104,207	337,612	922,457	139,201
19	170,020	298,682			94,328	308,041	871,071	84,072
20	214,938	298,903			118,746	391,833	1,024,420	127,475
21	143,011	295,890			92,171	302,680	833,752	81,909
22	161,292	301,990			96,746	317,767	877,795	136,767
23	172,559	301,198			95,590	313,708	883,055	62,185
24	178,123	300,856			98,734	323,122	900,835	81,334
25	176,336	300,612			98,088	321,962	896,998	127,762
26	193,189	299,530			107,481	332,445	932,645	64,582
27	249,580	297,894			139,358	456,278	1,143,110	148,728
28	159,797	298,863			89,473	292,681	840,814	74,780
29	176,974	299,229			99,062	307,537	882,802	101,118
30	184,607	299,469			102,939	319,020	906,035	100,293
31	188,721	299,558			105,121	325,107	918,507	81,114
Totals:	5,939,563	9,066,156			3,321,601	10,694,245	29,021,565	3,428,814
Maximum	249,580	301,990			139,358	456,278	1,143,110	158,119
Minimum	143,011	283,547			89,473	292,681	833,752	62,185
Average	191,599	292,457			107,148	344,976	936,180	110,607

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1			03 Compliance Sampling Log	4.00 Distribution System Monitoring\DS-000 Generic Sample Location													
2				400000	400007	400008	400011	400012	400013	400014	400015	400016	400017	400018	400019	400020	
3				DS-000: Contractual Weekly Distribution	pH	Temperature	Hardness	Alkalinity (CaCO3)	Calcium	Phosphorus, Total	Silicates	Iron, Total	Manganese, Total	TDS	Specific Conductance	Langlier Index	
4				Date	SU	Deg C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umhos/Cm2	LSI	
5	Dec	1 Fri															
6		2 Sat															
7		3 Sun															
8		4 Mon															
9		5 Tue		12-5-23	7.40	15.0	352.0	192.00	111.00	0.07	23.50	<0.02	<0.01	214.00	716.00	7.40	
10		6 Wed															
11		7 Thu															
12		8 Fri															
13		9 Sat															
14		10 Sun															
15		11 Mon															
16		12 Tue		12-12-23	7.30	14.0	362.0	196.00	112.00	0.06	24.90	<0.02	<0.01	253.00	717.00	7.30	
17		13 Wed															
18		14 Thu															
19		15 Fri															
20		16 Sat															
21		17 Sun															
22		18 Mon															
23		19 Tue		12-19-23	7.20	12.0	342.0	194.00	107.00	0.05	21.80	<0.02	<0.01	257.00	605.00	7.20	
24		20 Wed															
25		21 Thu															
26		22 Fri															
27		23 Sat															
28		24 Sun															
29		25 Mon															
30		26 Tue		12-26-23	7.10	18.0	328.0	194.00	102.00	0.06	22.30	0.05	<0.01	286.00	691.00	7.10	
31		27 Wed															
32		28 Thu															
33		29 Fri															
34		30 Sat															
35		31 Sun															
37		MINIMUM		12-12-23	7.10	12.0	328.0	192.00	102.00	0.05	21.80	<0.02	<0.01	214.00	605.00	7.10	
38		MAXIMUM		12-5-23	7.40	18.0	362.0	196.00	112.00	0.07	24.90	0.05	<0.01	286.00	717.00	7.10	
39		AVERAGE		1	7.25	14.8	346.0	194.00	108.00	0.06	23.13	<0.03	<0.01	252.50	682.25	2.85	
40		SUM		4	29.00	59.0	1,384.0	776.00	432.00	0.24	92.50	<0.11	<0.04	1,010.00	2,729.00	11.42	



M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2347398

Reported: 12/11/23

Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: Feb, Apr, Jun, Aug, Oct, Dec Week 1
7220038

Lab ID: 2347398-01 **Collected By:** Client
Sample Desc: 701 Middletown WWTP
Notes:

Sampled: 12/05/23 08:47 **Received:** 12/05/23 13:40
PADEP Type: D-Distribution
PWSID: 7220038 **Loc ID:** 701

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/5/23 14:36	12/6/23 8:41		MAC	N/A 1

Lab ID: 2347398-02 **Collected By:** Client
Sample Desc: 703 North Union Street Booster Station
Notes:

Sampled: 12/05/23 08:00 **Received:** 12/05/23 13:40
PADEP Type: D-Distribution
PWSID: 7220038 **Loc ID:** 703

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/5/23 14:36	12/6/23 8:41		MAC	N/A 1

Lab ID: 2347398-03 **Collected By:** Client
Sample Desc: 706 North Union Street Standpipe
Notes:

Sampled: 12/05/23 08:22 **Received:** 12/05/23 13:40
PADEP Type: D-Distribution
PWSID: 7220038 **Loc ID:** 706

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/5/23 14:36	12/6/23 8:41		MAC	N/A 1



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**M.J. Reider Associates, Inc.**

107 Angelica St, Reading PA, 19611

610-374-5129 www.mjreider.com

Client Code: 4085

Project Manager: Christina M Kistler

Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057

Invoice To: Veolia Middletown - Accounts Payable - 453 S. Lawrence St., Middletown, PA 17057

WORK ORDER**Chain of Custody**

Client: Veolia Middletown

Project: Feb, Apr, Jun, Aug, Oct, Dec Week 1

2347398



PWSID: 7220038

Collected By: ^{CH} ~~CHRIS~~ Tyler Hannan
(Full Name)

Comments: _____

2347398-01 701 Middletown WWTP

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 12-5-23 / 0847

PA DEP Sample Type: D-Distribution
A - Sterile_PI 120ml NaThio

Loc ID: 701 Chz 1.12

2347398-02 703 North Union Street Booster Station

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 12-5-23 / 0800

PA DEP Sample Type: D-Distribution
A - Sterile_PI 120ml NaThio

Loc ID: 703 Chz 1.09

2347398-03 706 North Union Street Standpipe

TC (P/A) SM 9223B

Matrix: Drinking Water


Type: Grab

Date/Time: 12-5-23 / 0822

PA DEP Sample Type: D-Distribution
A - Sterile_PI 120ml NaThio

Loc ID: 706 Chz 0.70


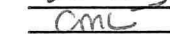
FRIDGE 1.9

Relinquished By: ^{MCS}  12-5-23/0850
Date/TimeReceived By:  12-5-23/0856
Date/TimeRelinquished By: _____
Date/TimeReceived By:  12-5-23 1050
Date/TimeRelinquished By: _____
Date/TimeReceived at Laboratory By:  12-5-23 1340
Date/Time

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Page 1 of 1

Printed: 11/28/2023 1:14:22PM

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	112
Samples on Ice?	Yes No NA
Approved By:	
Entered By:	

Report Template:

Page 2 of 4



M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2347397

Reported: 12/12/23

Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2347397-01 **Collected By:** Client
Sample Desc: WWTP Lab Sink

Sampled: 12/05/23 08:52 **Received:** 12/05/23 13:40
Sample Type: Grab

Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	Pass/Fail
General Chemistry									
Alkalinity, Total to pH 4.5	192	mg CaCO ₃ /L	20	SM 2320 B	12/06/23		ORL	N/A N/A	
Total Hardness as CaCO ₃	352	mg/l	4.56	CALCULATED	12/06/23		HRG	N/A N/A	
Phosphorus as P, Total	0.07	mg/l	0.01	SM 4500-P F	12/07/23		JMW	N/A N/A	
Silica as SiO ₂	23.5	mg/l	2.14	CALCULATED	12/06/23		HRG	N/A N/A	
Conductivity	716	umhos/cm	10	SM 2510 B	12/07/23		ORL	N/A N/A	
Total Metals									
Calcium	111	mg/l	1	EPA 200.7 Rev 4.4	12/06/23		HRG	N/A N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	12/07/23		HRG	N/A 0.3	PASS
Magnesium	18.4	mg/l	0.5	EPA 200.7 Rev 4.4	12/06/23		HRG	N/A N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	12/07/23		MPB	N/A 0.05	PASS
Silicon	11.0	mg/l	1.0	EPA 200.7 Rev 4.4	12/06/23		HRG	N/A N/A	

Notes and Definitions

Pass Result less than or equal to EPA maximum contaminant level.

Fail Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2347397-01			
SM 4500-P F	SM 4500-P B	12/06/2023	SNF



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**

107 Angelica St, Reading PA, 19611

610-374-5129 www.mjreider.com

Client Code: 4085

Project Manager: Christina M Kistler

Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057

Invoice To: Veolia Middletown - Accounts Payable - 453 S. Lawrence St., Middletown, PA 17057

WORK ORDER**Chain of Custody**

Client: Veolia Middletown

Project: DW-Weekly WWTP Water Lab Sink

2347397

Collected By: x Tyler Hannan
(Full Name)

Comments: _____

Matrix: Drinking Water

Type: Grab

Date/Time: 12-5-23 / 0852**2347397-01 WWTP Lab Sink**

Alk SM 2320B, Ca EPA 200.7, Fe EPA 200.7, Hardness EPA 200.7 CALC, Mg EPA 200.7, Mn EPA 200.8, PO4 SM 4500P-F, Si EPA 200.7, Silica as SiO2 EPA 200.7 CALC, Sp Cond SM 2510B

A - PI 500ml NP, minimal hdspc

B - PI 500ml HNO3

C - PI 500ml H2SO4

FRIDGE 1.9
PH 7.4
TEMP 58
TDS 214
Ch2 1.12

x [Signature]

Relinquished By

12-5-23/0856
Date/Time

Relinquished By

Date/Time

Relinquished By

Date/Time

MCS
12/5/23 1050FRIDGE

Received By

12-5-23/0856
Date/Time

Date/Time

12-5-23 1050
Date/Time

Date/Time

12-5-23 1340
Date/Time

Date/Time

Received By

Received at Laboratory By

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Page 1 of 1

Printed: 11/28/2023 1:14:20PM

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	<u>1.2</u>
Samples on Ice?	<u>Yes</u> No NA
Approved By:	<u>[Signature]</u>
Entered By:	<u>[Signature]</u>

Report Template:

Page 2 of 3



M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2348356

Reported: 12/19/23

Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: Feb, Apr, Jun, Aug, Oct, Dec Week 2
7220038

Lab ID: 2348356-01 **Collected By:** Client
Sample Desc: 704 Village of Pineford Office
Notes:

Sampled: 12/12/23 09:00 **Received:** 12/12/23 14:12
PADEP Type: D-Distribution
PWSID: 7220038 **Loc ID:** 704

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/12/23 15:52	12/13/23 9:55		MAC	N/A 1

Lab ID: 2348356-02 **Collected By:** Client
Sample Desc: 705 High Street Standpipe
Notes:

Sampled: 12/12/23 08:47 **Received:** 12/12/23 14:12
PADEP Type: D-Distribution
PWSID: 7220038 **Loc ID:** 705

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/12/23 16:28	12/13/23 10:30		MAC	N/A 1



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**

107 Angelica St, Reading PA, 19611

610-374-5129 www.mjreider.com

Client Code: 4085

Project Manager: Christina M Kistler

Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057

Invoice To: Veolia Middletown - Accounts Payable - 453 S. Lawrence St., Middletown, PA 17057

WORK ORDER**Chain of Custody**

Client: Veolia Middletown

Project: Feb, Apr, Jun, Aug, Oct, Dec Week 2

2348356



PWSID: 7220038

Collected By : CHRIS HANNAN
(Full Name)

Comments: _____

2348356-01 704 Village of Pineford Office

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 12-12-23 0900

PA DEP Sample Type: D-Distribution
A - Sterile_PI 120ml NaThio

Loc ID: 704 121

2348356-02 705 High Street Standpipe

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 12-12-23 0947

PA DEP Sample Type: D-Distribution
A - Sterile_PI 120ml NaThio

Loc ID: 705

144

FA#06 -1.9

CHRIS HANNAN

Relinquished By

12-12-23 0914

Date/Time

FA#06

Received By

12-12-23 0914

Date/Time

Relinquished By

12-12-23 1020

Date/Time

Received By

12-12-23 1020

Date/Time

Relinquished By

Date/Time

Received at Laboratory By

12-12-23 1412

Date/Time

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Page 1 of 1

Printed: 12/5/2023 10:22:10AM

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	4.9
Samples on Ice?	Yes No NA
Approved By:	<u>[Signature]</u>
Entered By:	<u>[Signature]</u>

Report Template: v

Page 2 of 4



M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2348355

Reported: 12/18/23

Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2348355-01 **Collected By:** Client
Sample Desc: WWTP Lab Sink

Sampled: 12/12/23 09:18 **Received:** 12/12/23 14:12
Sample Type: Grab

Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	Pass/Fail
General Chemistry									
Alkalinity, Total to pH 4.5	196	mg CaCO ₃ /L	20	SM 2320 B	12/13/23		ORL	N/A N/A	
Total Hardness as CaCO ₃	362	mg/l	4.56	CALCULATED	12/15/23		HRG	N/A N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	12/13/23		JMW	N/A N/A	
Silica as SiO ₂	24.9	mg/l	2.14	CALCULATED	12/14/23		HRG	N/A N/A	
Conductivity	717	umhos/cm	10	SM 2510 B	12/15/23		ORL	N/A N/A	
Total Metals									
Calcium	112	mg/l	1	EPA 200.7 Rev 4.4	12/15/23		HRG	N/A N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	12/14/23		HRG	N/A 0.3	PASS
Magnesium	20.0	mg/l	0.5	EPA 200.7 Rev 4.4	12/15/23		HRG	N/A N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	12/13/23		MPB	N/A 0.05	PASS
Silicon	11.6	mg/l	1.0	EPA 200.7 Rev 4.4	12/14/23		HRG	N/A N/A	

Notes and Definitions

Pass Result less than or equal to EPA maximum contaminant level.

Fail Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2348355-01			
SM 4500-P F	SM 4500-P B	12/12/2023	JMW



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Additional accreditations by MD (261)



M.J. Reider Associates, Inc.

107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com

WORK ORDER Chain of Custody

2348355



Client Code: 4085

Project Manager: Christina M Kistler

Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057

Invoice To: Veolia Middletown - Accounts Payable - 453 S. Lawrence St., Middletown, PA 17057

Client: Veolia Middletown

Project: DW-Weekly WWTP Water Lab Sink

Collected By :

(Full Name)

CHRIS HANNAN

Comments:

Matrix: Drinking Water

Type: Grab

Date/Time: 12-12-23

0918

2348355-01 WWTP Lab Sink

Alk SM 2320B, Ca EPA 200.7, Fe EPA 200.7, Hardness EPA 200.7 CALC, Mg EPA 200.7, Mn EPA 200.8, PO4 SM 4500P-F, Silica as SiO2 EPA 200.7 CALC, Sp Cond SM 2510B, Si EPA 200.7

A - PI 500ml NP, minimal hdspc

B - PI 500ml HNO3

C - PI 500ml H2SO4

FRIDGE -1.9
PH 7.3
TEMP 14
TDS 253
Ch2 1.11

CHRIS HANNAN

Relinquished By

12-12-23 0921

Date/Time

FRIDGE

Received By

12-12-23 0921

Date/Time

Relinquished By

12-12-23 1020

Date/Time

Received By

12-12-23 1020

Date/Time

Relinquished By

Date/Time

Received at Laboratory By

12-12-23 1412

Date/Time

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	4.9
Samples on Ice?	Yes No NA
Approved By:	
Entered By:	



M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2347643

Reported: 01/12/24

Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Gross Alpha
7220038

Lab ID: 2347643-01 **Collected By:** Client
Sample Desc: 100 Entry Point Well #1
Notes:

Sampled: 12/12/23 07:47 **Received:** 12/12/23 14:12
PADEP Type:
PWSID: 7220038 **Loc ID:**

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Subcontracted									
Gross Alpha	3.88 (+/- 2.51)	pCi/L	3.00	SM 7110B	12/22/23	EEAS	SS	N/A	N/A

Lab ID: 2347643-03 **Collected By:** Client
Sample Desc: 105 Entry Point Well #5
Notes:

Sampled: 12/12/23 08:34 **Received:** 12/12/23 14:12
PADEP Type:
PWSID: 7220038 **Loc ID:**

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Subcontracted									
Gross Alpha	4.70 (+/- 2.10)	pCi/L	3.00	SM 7110B	01/01/24	EEAS	SS	N/A	N/A

Lab ID: 2347643-04 **Collected By:** Client
Sample Desc: 106 Entry Point Well #6
Notes:

Sampled: 12/12/23 08:05 **Received:** 12/12/23 14:12
PADEP Type:
PWSID: 7220038 **Loc ID:**

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Subcontracted									
Gross Alpha	-0.530 (+/- 2.06)	pCi/L	3.00	SM 7110B	01/01/24	U, EEAS	SS	N/A	N/A

Notes and Definitions

EEAS Analysis subcontracted to: Eurofins Eaton Analytical South Bend, Certification ID: 68-00466

U Result is less than the sample detection limit.



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**M.J. Reider Associates, Inc.**

107 Angelica St, Reading PA, 19611

610-374-5129 www.mjreider.com

Client Code: 4085

Project Manager: Christina M Kistler

Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057

Invoice To: Veolia Middletown - Accounts Payable - 453 S. Lawrence St., Middletown, PA 17057

**WORK ORDER
Chain of Custody**

Client: Veolia Middletown

Project: DW-Gross Alpha

2347643



PWSID: 7220038

Collected By :

(Full Name)

Chris Hannan

Comments: _____

2347643-01 100 Entry Point Well #1

Matrix: Drinking Water

Type: Grab

Date/Time:

*12-12-23**0747*

Subcontracted: SUB Gross Alpha

PA DEP Sample Type: E-Entry Point

A - PI Liter HNO3

Loc ID: 100

2347643-02 104 Entry Point Well #4

Matrix: Drinking Water

Type: Grab

Date/Time:

0/5

Subcontracted: SUB Gross Alpha

PA DEP Sample Type: E-Entry Point

A - PI Liter HNO3

Loc ID: 104

2347643-03 105 Entry Point Well #5

Matrix: Drinking Water

Type: Grab

Date/Time:

*12-12-23**0834*

Subcontracted: SUB Gross Alpha

PA DEP Sample Type: E-Entry Point

A - PI Liter HNO3

Loc ID: 105

2347643-04 106 Entry Point Well #6

Matrix: Drinking Water

Type: Grab

Date/Time:

*12-12-23**0805*

Subcontracted: SUB Gross Alpha

PA DEP Sample Type: E-Entry Point

A - PI Liter HNO3

Loc ID: 106

FR3065 -1.9

Relinquished By

Date/Time

12-12-23 0913

Received By

Date/Time

12-12-23 0913

Relinquished By

Date/Time

12-12-23 1020

Received By

Date/Time

12-12-23 1412

Relinquished By

Date/Time

Received at Laboratory By

Date/Time

Sample Kit Prepared By:

Date/Time

Sample Temp (°C):

4.9

Samples on Ice?

Yes No NA

Approved By:

Entered By:

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Page 1 of 1

Printed: 11/29/2023 2:37:49PM

Report Template

Page 2 of 6



M.J. Reider Associates, Inc.



Subcontract Chain of Custody

SENDING LABORATORY

M.J. Reider Associates, Inc.
107 Angelica Street
Reading, PA 19611
Phone: 610-374-5129
Project Manager: Christina M Kistler (ckistler@mjreider.com)

RECEIVING LABORATORY

Eurofins Eaton Analytical - South Bend
110 S. Hill St
South Bend, IN 46617
Phone: 1(800) 332-4345



MJR Sample ID: **2347643-01**

Sample Name: **100 Entry Point Well #1**

Sample Type: E-Entry Point

Matrix: Drinking Water

PWSID: 7220038

Sampled: 12/12/2023 07:47

Sampled by: Client

Location ID: 100

Analysis

Method

Expires

SUB Gross Alpha

Subcontract

06/09/2024 07:47

Analytes

Req Rpt Limit DEP MCL

Gross Alpha Radioactivity

-

Containers Supplied: A: Pl Liter HNO3

MJR Sample ID: **2347643-03**

Sample Name: **105 Entry Point Well #5**

Sample Type: E-Entry Point

Matrix: Drinking Water

PWSID: 7220038

Sampled: 12/12/2023 08:34

Sampled by: Client

Location ID: 105

Analysis

Method

Expires

SUB Gross Alpha

Subcontract

06/09/2024 08:34

Analytes

Req Rpt Limit DEP MCL

Gross Alpha Radioactivity

-

Containers Supplied: A: Pl Liter HNO3

MJR Sample ID: **2347643-04**

Sample Name: **106 Entry Point Well #6**

Sample Type: E-Entry Point

Matrix: Drinking Water

PWSID: 7220038

Sampled: 12/12/2023 08:05

Sampled by: Client

Location ID: 106

Analysis

Method

Expires

SUB Gross Alpha

Subcontract

06/09/2024 08:05

Analytes

Req Rpt Limit DEP MCL

Gross Alpha Radioactivity

-

Containers Supplied: A: Pl Liter HNO3

PWS Contact Information

PWS Contact: Chris Hannan

PWS Phone: (717) 471-1406

PWS e-mail: james.hannan@veolia.com

PADEP Contact Information

County: Dauphin

Address: 909 Elmerton Avenue, Harrisburg, PA 17110-8200

Phone: 717-705-4708

Contacts: Chris Sanderson

717-705-4708

csanderson@pa.gov

David Linton

717-705-4708

dlinton@pa.gov

Ryan McGovern


717-705-4708

rymcgovern@pa.gov

Southcentral Regional Of 717-705-4708

EP-SDW-SCRO-Notes@pa.gov

The testing laboratory must notify MJRA and the appropriate DEP regional office by telephone within 1 hour of the determination that an MCL violation has occurred for any Safe Drinking Water Act (SDWA) compliance testing result that is at or above the listed MCL for that contaminant code. It is the testing laboratory's responsibility to appropriately report all SDWA compliance results to DWELR - any sample collection, preservation, analysis, or quality control failures must be separately submitted to the PA DEP Bureau of Laboratories following their "Request to Report Qualified Drinking Water Sample Results" protocol.

	14:48 12-15-23		
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

By accepting these samples for analysis, you are confirming your facility currently holds accreditation in Pennsylvania for the analysis of the listed parameters in the listed matrix. If you are not currently NELAP accredited for the listed parameter/matrix combination, please notify MJRA immediately at 610-374-5129.

**** In addition to the project manager listed above please e-mail all reports and EDD's to subcontract@mjureider.com ****



M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2347642

Reported: 12/20/23

Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Raw VOCS 003 & 006
7220038

Lab ID: 2347642-02 **Collected By:** Client
Sample Desc: 006 Well #6 RAW

Sampled: 12/12/23 08:10 **Received:** 12/12/23 14:12
PADEP Type: R-Raw

Notes:

PWSID: 7220038

Loc ID: 006

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max
Volatiles								
1,1,1-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.2
1,1,2-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.005
1,1-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.007
1,2,4-Trichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.07
1,2-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.6
1,2-Dichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.005
1,2-Dichloropropane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.005
1,4-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.075
Benzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.005
Carbon Tetrachloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.005
Chlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.1
Cis-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.07
Ethylbenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.7
Methylene Chloride (Dichloromethane)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.005
Styrene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.1
Tetrachloroethene (PCE)	0.0068	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.005
Toluene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 1
Trans-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.1
Trichloroethene (TCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.005
Vinyl Chloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 0.002
Xylenes, Total	<0.0010	mg/l	0.0010	EPA 524.2 Rev 4.1	12/13/23		WJS	N/A 10
Surrogates								
1,2-Dichlorobenzene-d4	101%		70-130	EPA 524.2 Rev 4.1	12/13/23		WJS	
4-Bromofluorobenzene	98.4%		70-130	EPA 524.2 Rev 4.1	12/13/23		WJS	



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Additional accreditations by MD (261)

M.J. Reider Associates, Inc.

Lab ID: 2347642-03	Collected By: Client	Sampled: 12/12/23 08:10	Received: 12/12/23 14:12
Sample Desc: 006 Well #6 RAW TRIP BLANK		PWSID: 7220038	PADEP Type: R-Raw
Notes:			Loc ID: 006
Comments: Trip Blank for 2347642-02			

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max
Volatiles								
Tetrachloroethene (PCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	12/14/23		WJS	N/A 0.005
Surrogates								
1,2-Dichlorobenzene-d4	100%		70-130	EPA 524.2 Rev 4.1	12/14/23		WJS	
4-Bromofluorobenzene	94.2%		70-130	EPA 524.2 Rev 4.1	12/14/23		WJS	



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Additional accreditations by MD (261)



M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2349271

Reported: 12/28/23

Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: Feb, Apr, Jun, Aug, Oct, Dec Week 3
7220038

Lab ID: 2349271-01 **Collected By:** Client
Sample Desc: 701 Middletown WWTP
Notes:

Sampled: 12/19/23 07:50 **Received:** 12/19/23 14:49
PADEP Type: D-Distribution
PWSID: 7220038 **Loc ID:** 701

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/19/23 17:33	12/20/23 11:59		JMW	N/A 1

Lab ID: 2349271-02 **Collected By:** Client
Sample Desc: 703 North Union Street Booster Station
Notes:

Sampled: 12/19/23 07:21 **Received:** 12/19/23 14:49
PADEP Type: D-Distribution
PWSID: 7220038 **Loc ID:** 703

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/19/23 17:33	12/20/23 11:59		JMW	N/A 1

Lab ID: 2349271-03 **Collected By:** Client
Sample Desc: 706 North Union Street Standpipe
Notes:

Sampled: 12/19/23 07:33 **Received:** 12/19/23 14:49
PADEP Type: D-Distribution
PWSID: 7220038 **Loc ID:** 706

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/19/23 17:33	12/20/23 11:59		JMW	N/A 1



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**

107 Angelica St, Reading PA, 19611

610-374-5129 www.mjreider.com

Client Code: 4085

Project Manager: Christina M Kistler

Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057

Invoice To: Veolia Middletown - Accounts Payable - 453 S. Lawrence St., Middletown, PA 17057

WORK ORDER**Chain of Custody**

Client: Veolia Middletown

Project: Feb, Apr, Jun, Aug, Oct, Dec Week 3

2349271



PWSID: 7220038

Collected By: CHRIS HANNAN
(Full Name)

Comments: _____

2349271-01 701 Middletown WWTP

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 12-19-23 0750PA DEP Sample Type: D-Distribution
A - Sterile_PI 120ml NaThio

Loc ID: 701 105

2349271-02 703 North Union Street Booster Station

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 12-19-23 0721PA DEP Sample Type: D-Distribution
A - Sterile_PI 120ml NaThio

Loc ID: 703 102

2349271-03 706 North Union Street Standpipe

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 12-19-23 0733PA DEP Sample Type: D-Distribution
A - Sterile_PI 120ml NaThio

Loc ID: 706 77

FRIDGE - 2.6

KXS DEC 19 2023 1053

KXS DEC 19 2023 1053

CHRIS HANNAN

Relinquished By

12-19-23 0751
Date/TimeFRIDGE

Received By

12-19-23 0751
Date/Time

Relinquished By

Date/Time

Kyle M. Smith

Received By

DEC 19 2023 1053
Date/Time

Relinquished By

Date/Time

Kyle M. Smith

Received at Laboratory By

DEC 19 2023 1449
Date/Time

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Page 1 of 1

Printed: 12/12/2023 10:51:48AM

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	<u>2.5</u>
Samples on Ice?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA
Approved By:	<u>KXS</u>
Entered By:	<u>[Signature]</u>

Report Template

Page 2 of 5



M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2349270

Reported: 12/28/23

Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2349270-01 **Collected By:** Client
Sample Desc: WWTP Lab Sink

Sampled: 12/19/23 07:52 **Received:** 12/19/23 14:49
Sample Type: Grab

Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	Pass/Fail
General Chemistry									
Alkalinity, Total to pH 4.5	194	mg CaCO ₃ /L	20	SM 2320 B	12/21/23		ORL	N/A N/A	
Total Hardness as CaCO ₃	342	mg/l	4.56	CALCULATED	12/20/23		HRG	N/A N/A	
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	12/20/23		JMW	N/A N/A	
Silica as SiO ₂	21.8	mg/l	2.14	CALCULATED	12/20/23		HRG	N/A N/A	
Conductivity	605	umhos/cm	10	SM 2510 B	12/21/23		ORL	N/A N/A	
Total Metals									
Calcium	107	mg/l	1	EPA 200.7 Rev 4.4	12/20/23		HRG	N/A N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	12/21/23		HRG	N/A 0.3	PASS
Magnesium	18.4	mg/l	0.5	EPA 200.7 Rev 4.4	12/20/23		HRG	N/A N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	12/20/23		MPB	N/A 0.05	PASS
Silicon	10.2	mg/l	1.0	EPA 200.7 Rev 4.4	12/20/23		HRG	N/A N/A	

Notes and Definitions

Pass Result less than or equal to EPA maximum contaminant level.

Fail Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2349270-01			
SM 4500-P F	SM 4500-P B	12/20/2023	JMW



107 Angelica Street Reading, PA 19611 (610) 374-5129 fax (610) 374-7234

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Additional accreditations by MD (261)



M.J. Reider Associates, Inc.

107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com

Client Code: 4085

Project Manager: Christina M Kistler

Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057

Invoice To: Veolia Middletown - Accounts Payable - 453 S. Lawrence St., Middletown, PA 17057

WORK ORDER Chain of Custody

2349270



Collected By: Chris Hannan
(Full Name)

Comments:

2349270-01 WWTP Lab Sink

Matrix: Drinking Water

Type: Grab

Date/Time: 12-19-23 0757

Alk SM 2320B, Ca EPA 200.7, Fe EPA 200.7, Hardness EPA 200.7 CALC, Mg EPA 200.7, Mn EPA 200.8, PO4 SM 4500P-F, Si EPA 200.7, Silica as SiO2 EPA 200.7 CALC, Sp Cond SM 2510B

A - PI 500ml NP, minimal hdspc
B - PI 500ml HNO3
C - PI 500ml H2SO4

Fructose -2.4
PH 7.2
TEMP 12
TDS 257
Chl 1.05

KXS DEC 19 2023 1053

KXS

DEC 19 2023 1053

Chris Hannan

Relinquished By

12-19-23 0754
Date/Time

Fructose

Received By

12-19-23 0754
Date/Time

DEC 19 2023 1053

Relinquished By

Date/Time

Received By

Date/Time

DEC 19 2023 1449

Relinquished By

Date/Time

Received at Laboratory By

Date/Time

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	2.5
Samples on Ice?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA
Approved By:	<u>KXS</u>
Entered By:	<u>Chris Hannan</u>



M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2350268

Reported: 12/28/23

Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: Feb, Apr, Jun, Aug, Oct, Dec Week 4
7220038

Lab ID: 2350268-01 **Collected By:** Client
Sample Desc: 704 Village of Pineford Office
Notes:

Sampled: 12/26/23 09:38 **Received:** 12/26/23 13:15
PADEP Type: D-Distribution
PWSID: 7220038 **Loc ID:** 704

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/26/23 17:03	12/27/23 11:29		MAC	N/A 1

Lab ID: 2350268-02 **Collected By:** Client
Sample Desc: 705 High Street Standpipe
Notes:

Sampled: 12/26/23 07:25 **Received:** 12/26/23 13:15
PADEP Type: D-Distribution
PWSID: 7220038 **Loc ID:** 705

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/26/23 17:03	12/27/23 11:29		MAC	N/A 1



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**

107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com

**WORK ORDER
Chain of Custody****2350268****PWSID: 7220038****Client Code:** 4085**Project Manager:** Christina M Kistler**Report To:** Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057**Invoice To:** Veolia Middletown - Accounts Payable - 453 S. Lawrence St., Middletown, PA 17057**Client:** Veolia Middletown**Project:** Feb, Apr, Jun, Aug, Oct, Dec Week 4**Comments:** _____**Collected By:** CHRIS HANNAN
(Full Name)**2350268-01 704 Village of Pineford Office**

TC (P/A) SM 9223B

Matrix: Drinking Water**Type:** Grab**Date/Time:** 12-26-23 0938**PA DEP Sample Type:** D-Distribution
A - Sterile_PI 120ml NaThio**Loc ID:** 704 98**2350268-02 705 High Street Standpipe**

TC (P/A) SM 9223B

Matrix: Drinking Water**Type:** Grab**Date/Time:** 12-26-23 0725**PA DEP Sample Type:** D-Distribution
A - Sterile_PI 120ml NaThio**Loc ID:** 705 110

FRIDGE - 2.2

CHRIS HANNAN

Relinquished By

12-26-23 0946

Date/Time

FRIDGE

Received By

12-26-23 0946

Date/Time

FRIDGE

Relinquished By

12/26/23 1033

Date/Time

Received By

12/26/23 1033

Date/Time

Relinquished By

Date/Time

Received at Laboratory By

12/26/23 1315

Date/Time

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Page 1 of 1

Printed: 12/19/2023 7:41:15AM

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	<u>2.0</u>
Samples on Ice?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA
Approved By:	<u>[Signature]</u>
Entered By:	<u>LEC</u>

Report Template:

Page 2 of 5



M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

Laboratory No.: 2350267

Reported: 12/29/23

Lab Contact: Christina M Kistler

Attention: Kodi Webb
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2350267-01 **Collected By:** Client
Sample Desc: WWTP Lab Sink

Sampled: 12/26/23 09:55 **Received:** 12/26/23 13:15
Sample Type: Grab

Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	Pass/Fail
General Chemistry									
Alkalinity, Total to pH 4.5	194	mg CaCO ₃ /L	20	SM 2320 B	12/27/23		ORL	N/A N/A	
Total Hardness as CaCO ₃	328	mg/l	4.56	CALCULATED	12/27/23		HRG	N/A N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	12/28/23		JMW	N/A N/A	
Silica as SiO ₂	22.3	mg/l	2.14	CALCULATED	12/28/23		HRG	N/A N/A	
Conductivity	691	umhos/cm	10	SM 2510 B	12/28/23		ORL	N/A N/A	
Total Metals									
Calcium	102	mg/l	1	EPA 200.7 Rev 4.4	12/27/23		HRG	N/A N/A	
Iron	0.05	mg/l	0.02	EPA 200.7 Rev 4.4	12/28/23		HRG	N/A 0.3	PASS
Magnesium	18.1	mg/l	0.5	EPA 200.7 Rev 4.4	12/27/23		HRG	N/A N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	12/27/23		MPB	N/A 0.05	PASS
Silicon	10.4	mg/l	1.0	EPA 200.7 Rev 4.4	12/28/23		HRG	N/A N/A	

Notes and Definitions

Pass Result less than or equal to EPA maximum contaminant level.

Fail Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2350267-01			
SM 4500-P F	SM 4500-P B	12/27/2023	JMW



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Additional accreditations by MD (261)

**M.J. Reider Associates, Inc.**107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com**WORK ORDER
Chain of Custody****2350267**Client Code: **4085**Project Manager: **Christina M Kistler**Client: **Veolia Middletown**Project: **DW-Weekly WWTP Water Lab Sink**Report To: **Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057**Invoice To: **Veolia Middletown - Accounts Payable - 453 S. Lawrence St., Middletown, PA 17057**Collected By: Chris Hannan
(Full Name)

Comments: _____

2350267-01 WWTP Lab SinkAlk SM 2320B, Ca EPA 200.7, Fe EPA 200.7, Hardness EPA 200.7 CALC, Mg EPA 200.7, Mn EPA 200.8, PO4 SM
4500P-F, Si EPA 200.7, Silica as SiO2 EPA 200.7 CALC, Sp Cond SM 2510B

Matrix: Drinking Water

Type: Grab

Date/Time: 12-26-23 0955A - PI 500ml NP, minimal hdspc
B - PI 500ml HNO3
C - PI 500ml H2SO4FRIDGE -2.2
PH 7.1
TEMP 18
TDS 284
Chl 0.41Chris Hannan

Relinquished By

12-26-23 0957
Date/TimeFRIDGE

Received By

12-26-23 0957
Date/TimeFRIDGE

Relinquished By

12/26/23 1033
Date/Time

Received By

12/26/23 1033
Date/Time

Relinquished By

Date/Time

Received at Laboratory By

12/26/23 1315
Date/Time

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Page 1 of 1

Printed: 12/19/2023 7:41:14AM

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	<u>2.0</u>
Samples on Ice?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA
Approved By:	<u>CM</u>
Entered By:	<u>LEC</u>

Report Template

Page 2 of 3

File Uploaded Successfully by HANNANJ

6 messages

ra-padwis@pa.gov <ra-padwis@pa.gov>

Mon, Jan 8, 2024 at 1:25 PM

To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 100 Well No 1 (21).xls	HANNANJ	HANNANJ_1 through HANNANJ_31

Until the 11th of each month, you may obtain a copy of record by accessing the "Printer Friendly Version" of the View and Edit Records screen in DWELR. On or after the 12th of the month, you may view the sample results the Department has on file by accessing the Drinking Water Reporting System at <http://www.drinkingwater.state.pa.us/dwrs/HTM/Welcome.html> . If you see errors in the results which you submitted and would like to repudiate any of the results or wish to request a copy of record, please contact the PADWIS Section at 717-772-4018.

ra-padwis@pa.gov <ra-padwis@pa.gov>

Mon, Jan 8, 2024 at 1:26 PM

To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 102 Well No 2 (21).xls	HANNANJ	HANNANJ_32 through HANNANJ_62

[Quoted text hidden]

ra-padwis@pa.gov <ra-padwis@pa.gov>

Mon, Jan 8, 2024 at 1:26 PM

To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 103 Well No 3 (21).xls	HANNANJ	HANNANJ_63 through HANNANJ_93

[Quoted text hidden]

ra-padwis@pa.gov <ra-padwis@pa.gov>

Mon, Jan 8, 2024 at 1:27 PM

To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 104 Well No 4 (21).xls	HANNANJ	HANNANJ_94 through HANNANJ_124

[Quoted text hidden]

ra-padwis@pa.gov <ra-padwis@pa.gov>

Mon, Jan 8, 2024 at 1:27 PM

To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 105 Well No 5 (21).xls	HANNANJ	HANNANJ_125 through HANNANJ_155

[Quoted text hidden]

ra-padwis@pa.gov <ra-padwis@pa.gov>

Mon, Jan 8, 2024 at 1:28 PM

To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 106 Well No 6 (22).xls	HANNANJ	HANNANJ_156 through HANNANJ_186

[Quoted text hidden]

Data Added Successfully by HANNANJ

1 message

ra-padwis@pa.gov <ra-padwis@pa.gov>

Mon, Jan 8, 2024 at 1:34 PM

To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ successfully added data to DWELR on 01/08/24 at 1:34 PM. Form: SDWA1.

Form Type	User	LabID	PWSID	ContamID	Pre_ID	Loc_Epid	Sample Date
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_187	701	120523
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_188	703	120523
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_189	706	120523
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_190	704	121223
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_191	705	121223
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_192	701	121923
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_193	703	121923
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_194	706	121923
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_195	704	122623
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_196	705	122623

Until the 11th of each month, you may obtain a copy of record by accessing the "Printer Friendly Version" of the View and Edit Records screen in DWELR. On or after the 12th of the month, you may view the sample results the Department has on file by accessing the Drinking Water Reporting System at <http://www.drinkingwater.state.pa.us/dwrs/HTM/Welcome.html> . If you see errors in the results which you submitted and would like to repudiate any of the results or wish to request a copy of record, please contact the PADWIS Section at 717-772-4018.

MIDDLETOWN MONTHLY REPORT

APPENDIX 3 CUSTOMER SERVICE

MONTHLY CONSUMPTION, BILLING & TRANSACTION REPORTS

&

HOMESERVE REPORT

	NUMBER#	TOTAL ARREARS	TOTAL CURRENT	TOTAL BALANCE	ACTIVE ACCOUNT RECONCILIATION
ACTIVE ACCOUNTS:	2,756	214,130.46	733,118.30	947,248.76	NEW ACCOUNTS: 19
DISCONNECTED ACCTS:	12	499.25	614.81	1,114.06	DISCONNECT--NO TRF: 12
FINALED ACCOUNTS:	408	17,507.77		17,507.77	DISCONNECT-TRANSFER: 0
INACTIVE ACCOUNTS:	12,497	0.00		0.00	
GRAND TOTALS	15,673	232,137.48	733,733.11	965,870.59	
CALCULATION SUMMARY		TOTAL CHARGES:	733,733.11		
		DEPOSIT RETURNS:	0.00		
		TOTAL CURRENT:	733,733.11		

===== SERVICE CATEGORY TOTALS =====

CATEGORY	NUMBER	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	BILLED CONSUMPTION	UNBILLED CONSUMPTION	TOTAL CONSUMPTION
S SEWER	2691	477,236.89	0.00	0.00	0.00	15643,600.0000		15643,600.0000
SR SURCHARGE	6	0.00	0.00	0.00	0.00			
SR2 SURCHARGE 2	7	264.51	0.00	0.00	0.00			
W WATER	5377	256,231.71	0.00	0.00	0.00	19549,300.0000		19549,300.0000
TOTALS		733,733.11	0.00	0.00	0.00			

===== REVENUE CODE TOTALS =====

R/C DESCRIPTION	G/L ACCOUNT#	AMOUNT
SERVICES:		
200-WTR MDT	687-145900	78,868.65
203-WTR MDT COMMERCIAL	687-145900	107,407.04
206-CUSTOMER CHARGE	687-145900	12,524.82
207-SERVICE CHG / METER	687-145900	49,286.80
210-WTR ROYAL	687-145900	8,086.50
220-WTR L SWT	687-145900	57.90
230-SURCHARGE WATER/SEWER	687-145900	0.00
231-SURCHARGE WATER/SEWER	687-145900	264.51
300-SWR MDT	687-145800	345,638.87
306-SW CUST CHARGE	687-145800	65,361.12
310-SWR ROYAL	687-145800	22,632.84
320-SWR L SWT	687-145800	43,604.06
R/C TOTALS		733,733.11

===== RATE TABLE TOTALS =====

CAT CODE	TBL DESCRIPTION	SCHED	NO#	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	CONSUMPTION	MLT.
S 300	LST SEWER -LWR SW TWP	LST	1	43,604.06	0.00	0.00	0.00		
S 300	RB SEWER -ROYALTON	RB	1	22,632.84	0.00	0.00	0.00		
S 300	SW SEWER	SW	2689	410,999.99	0.00	0.00	0.00	15,643,600.0000	806

BOOK:

***** RATE TABLE TOTALS *****

** (CONTINUED) **

CAT	CODE	TBL	DESCRIPTION	SCHED	NO#	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	CONSUMPTION	MLT.
SR	230	SR2	SURCHARGE WATER/SEWE	SR2	6	0.00	0.00	0.00	0.00		
SR2	231	SR2	SURCHARGE WATER/SEWE	SR2	7	264.51	0.00	0.00	0.00		
W	200	C10	COMM 1" MTR	C10	36	3,971.16	0.00	0.00	0.00	300,400.0000	
W	200	C15	COMM 1 1/2" MTR	C15	9	7,069.04	0.00	0.00	0.00	656,800.0000	
W	200	C20	COMM 2" MTR	C20	22	19,022.92	0.00	0.00	0.00	1,770,700.0000	
W	200	C30	COMM 3" MTR	C30	5	7,593.72	0.00	0.00	0.00	714,300.0000	
W	200	C40	COMM 4" MTR	C40	2	108.52	0.00	0.00	0.00	3,000.0000	
W	200	C58	COMM 5/8" MTR	C58	15	1,696.63	0.00	0.00	0.00	130,700.0000	
W	200	C60	COMM 6" MTR	C60	13	64,312.82	0.00	0.00	0.00	6,121,400.0000	
W	200	C75	COMM 3/4" MTR	C75	2	365.40	0.00	0.00	0.00	30,700.0000	
W	200	C80	COMM 8" MTR	C80	4	6,463.28	0.00	0.00	0.00	599,600.0000	
W	200	COM	COMPOUND WATER N/C	COM	12	0.00	0.00	0.00	0.00		
W	200	LS8	LOWER SWAT 8" MTR	LS8	1	57.90	0.00	0.00	0.00	100.0000	
W	200	NCW	NO CHG	NCW	25	0.00	0.00	0.00	0.00	47,100.0000	
W	200	R10	RESID 1" MTR	R10	41	1,859.56	0.00	0.00	0.00	83,400.0000	
W	200	R58	RESID - 5/8" MTR	R58	2562	131,323.83	0.00	0.00	0.00	7,100,600.0000	
W	200	R60	RESID 6" MTR	R60	1	3,703.54	0.00	0.00	0.00	351,300.0000	
W	200	R75	RESID 3/4" MTR	R75	4	466.64	0.00	0.00	0.00	36,000.0000	
W	200	RB6	ROYALTON BOR 6" MTR	RB6	2	8,086.50	0.00	0.00	0.00	1,603,200.0000	
W	210	ALV	FLAT RATE WATER -VAR ALV		2	130.25	0.00	0.00	0.00		
W	220	MC	WATER METER CHARGE - MC		2619	0.00	0.00	0.00	0.00		
TOTALS						733,733.11	0.00	0.00	0.00		

***** METER GROUP TOTALS *****

CODE	DESCRIPTION	BILLED CONSUMPTION	UNBILLED CONSUMPTION	TOTAL CONSUMPTION	DEMAND CONSUMPTION
W	WATER	19,549,300.0000	0.000	19,549,300.0000	

***** REFUNDED DEPOSIT TOTALS *****

CODE	DESCRIPTION	NUMBER	AMOUNT
DEPOSIT TOTALS		0	0.00

12/29/2023 12:56 PM

MXU REPORT

PAGE: 78

ZONE: < All Zones >

GROUP: * - All Groups

SORT: ACCOUNT

METER NO#	ACCOUNT NO#	NAME	ADDRESS	MXU TYPE	MXU ID
W 10871871	INVENTORY				1568031178
W 10871883	INVENTORY				1563387082
W 10871886	INVENTORY				1563522708
W 12164947	INVENTORY				1573617074

*** TOTAL METERS IN SERVICE 2768

*** TOTAL METERS IN INVENTORY 1009

ACTION	----- ISSUED THIS PERIOD -----				----- PRIOR ORDERS -----			TOTAL	
	ISSUED	COMPLETED	VOIDED	OUTSTANDING	COMPLETED	VOIDED	OUTSTANDING	COMPLETED	OUTSTANDING
C CONNECT	3	3	0	0	202	4	0	205	0
D DISCONNECT	0	0	0	0	46	4	0	46	0
F CUTOFF	0	0	0	0	3	3	0	3	0
I METER INFO	40	40	0	0	3,887	103	0	3,927	0
M METER CHANGE	19	19	0	0	954	8	0	973	0
O OCC CHANGE	12	12	0	0	1,551	3	0	1,563	0
R REINSTATE	0	0	0	0	2	2	0	2	0
S SERV CHANGE	0	0	0	0	34	0	0	34	0
X MISC	0	0	0	0	844	25	0	844	0

** GRAND TOTALS **	74	74	0	0	7,523	152	0	7,597	0

ZONE: ALL ZONES

SERVICE: 200-WATER

**** REPORT TOTALS ****

Book	Services	Addresses
02 - BOOK 02	1	0
04 - BOOK 04	4	0
05 - BOOK 05	1	0
09 - BOOK 09	1	0
12 - BOOK 12	4	0
15 - BOOK 15	4	0
16 - BOOK 16	2	0
18 - BOOK 18	1	0
20 - BOOK 20	1	1
21 - BOOK 21	1	0
29 - BOOK 29	2	0
Grand Totals	22	1

REPORT TOTALS

REVENUE CODE TOTALS

REVENUE CODE:	--CURRENT--	+1 MONTH	+2 MONTHS	+3 MONTHS	+4 MONTHS	--BALANCE--
001-BSF CK FEE	0.00	4.56	10.83	4.61	0.00	20.00
200-WTR MDT	77738.65	19695.15	6537.05	4520.66	5160.22	115651.73
201-WATER TURN ON	0.00	3.78	3.93	13.61	58.68	80.00
203-WTR MDT COMMERCIAL	107328.69	8191.50	664.25	540.27	240.03	116964.74
206-CUSTOMER CHARGE	12226.60	2357.35	1162.52	600.78	3731.18	19118.43
207-SERVICE CHG / METER	43062.54	9399.51	4515.10	2336.64	10614.60	74928.63
210-WTR ROYAL	8086.50	0.00	0.00	0.00	0.00	8086.50
220-WTR L SFT	57.90	0.00	0.00	0.00	0.00	57.90
230-SURCHARGE WATER/SEWER	16.28	7.03	7.98	7.98	1241.58	1280.85
231-SURCHARGE WATER/SEWER	22.06	667.28	792.42	512.87	2344.36	4338.99
275-WTR FEE	199.56CH	2076.15	917.06	392.53	1116.49	4392.71
300-SWR MDT	342300.43	53321.17	19371.47	10642.32	11844.06	443459.45
306-SW CUST CHARGE	63775.29	12657.13	6184.54	3244.13	27463.60	113326.74
310-SWR ROYAL	22632.84	0.00	0.00	0.00	0.00	22632.84
320-SWR L SFT	43604.06	0.00	0.00	0.00	0.00	43604.06
375-SWR FEE	278.21CH	3628.83	1547.76	661.66	2484.07	9344.13
396-UNAPPLIED	16700.44CH	0.00	0.00	0.00	0.00	16700.44CH
999-BEYOND	2199.14CH	0.00	0.00	0.00	0.00	2199.14CH
TOTALS	706474.63	118029.50	43714.91	23478.06	45302.07	956998.17

TOTAL REVENUE CODES: 956,998.17
TOTAL ACCOUNT BALANCE: 956,998.17
DIFFERENCE: 0.00

10-29-2023 12:12 PM

MONTHLY TRANSACTION REPORT

PAGE: 24

PERIOD: 12/01/2023 THRU 12/29/2023

ZONE: * - All Zones

REVENUE CODE: All

ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
ADJUSTMENT	05	15	109.76CR
	06	2	39.46
	07	1	28.84CR
	08	4	135.11CR
	11	3	13,841.23
	13	2	103.17CR
	15	2	3.28
	18	2	27.76CR
	20	1	443.86CR
	26	1	50.00
	27	4	199.28CR
	28	152	35.05CR
ADJUSTMENT TOTAL			12,951.11
BILL	05	5	0.40CR
	06	5	275.18CR
	08	1	17.20
	13	7	266.33
	14	6	29.34CR
	18	2	19.50CR
	20	2	211.68
	26	1	43.65
	27	7	122.75
	28	2,754	733,733.11
BILL TOTAL			733,733.11
LATE CHARGE	28	423	7,163.29
LATE TOTAL			7,163.29
MEMO	19	20	0.00
MEMO TOTAL			0.00
PAYMENT	01	38	8,197.64CR
	04	38	7,131.77CR
	05	74	13,289.41CR
	06	78	12,787.33CR
	07	139	29,361.37CR
	08	65	15,877.48CR
	11	381	182,437.81CR
	12	89	25,060.32CR
	13	86	203,721.70CR
	14	231	63,218.27CR
	15	187	31,310.35CR
	18	192	37,409.73CR

Difference -adj total ± \$ Billed-
Other Revenue \$ 20,114.40

12-29-2023 12:12 PM

MONTHLY TRANSACTION REPORT

PAGE: 25

PERIOD: 12/01/2023 THRU 12/29/2023

ZONE: * - All Zones

REVENUE CODE: All

ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
	19	25	5,927.24CR
	20	91	22,792.13CR
	21	64	43,126.53CR
	22	38	8,658.19CR
	26	27	6,180.76CR
	27	134	21,138.95CR
	28	34	12,666.31CR
	29	12	5,474.88CR
PAYMENT TOTAL			675,768.17CR
DRAFT	15	402	62,792.63CR
	20	26	19,756.10CR
DRAFT TOTAL			82,550.73CR
REVERSE-PAY	05	4	428.78
	15	2	369.65
	20	1	141.15
	28	1	5,442.75
REVERSE PAY TOTAL			6,382.33
GRAND TOTAL FOR PERIOD			1,910.94

Total Collected = \$758,318.90

DECEMBER 2023 CUSTOMER SERVICE CALLS									
--------------------------------------	--	--	--	--	--	--	--	--	--

	VEOLIA MIDDLETOWN	
--	-------------------	--

Date	How Contact Was Received			Customer Service Inquiries															Field Service Requests					Field Request Info
	Call direct to Middletown CS	Customer Compor dance (Letters/E mails)	TOTALS	Calls for Other Ops	Calls from City / Other Org	AppleTree a Hold Call	General Acct. Info	Copy Of Bill	Correct. Bills	Bill Inquiry	Rates	Payment	Collection Letter	New Account	Finals	Meter Reading/ Re-Reads	Service Complaints	C.S. Thank Yous	Sewer Back up or SSO	Water Leaks	Broke, Froze, Leaking Meter	No Water/Lo w Pressure	Water Quality	
December 1st, 2023	25	0	25	2						3		20												
December 4th, 2023	30	2	32	1			1			5		21			2									
December 5th, 2023	41	2	43	3						7		25	4	1	1									
December 6th, 2023	42	5	47	2						8		32												
December 7th, 2023	40	2	42	3						6		30			1									
December 8th, 2023	47	2	49	1						3		43												
December 11th, 2023	69	1	70	3						7		45	12	1	1									
December 12th, 2023	73	0	73				1			6		52	14											
December 13th, 2023	35	5	40	1						4		18	10		2									
December 14th, 2023	76	1	77					2		5		69												
December 15th, 2023	99	2	101	2			1			6		90												
December 18th, 2023	48	7	55	1				1		4		39		1	2									
December 19th, 2023	34	3	37	1			3			8		22												
December 20th, 2023	30	4	34	1						5		22		1	1									
December 21st, 2023	33	1	34	3						7		22		1										
December 22nd, 2023	27	0	27							4		23												
December 26th, 2023	10	2	12	3						2		5												
December 27th, 2023	33	7	40	2						4		25		1	1									
December 28th, 2023	20	2	22	1				1		5		13												
December 29th, 2023	14	1	15							5		9												
GRAND TOTALS	826	49	875	30	0	0	6	4	0	104	0	625	40	6	11	0	0	0	0	0	0	0	0	

2023 MIDDLETOWN COLLECTION INFORMATION

	Bill Due Date	Date 10 Day Notice Issued	Number of 10 Day Notices issued for Balances over \$50.00	Date 3 Day Notices Posted	Number of 3 Day Notices for Balances over \$100.00	Shut offs
January Bill Cycle	2/15/2023	2/21/2023	237	3/10/2023	53	NO SHUT OFF DUE TO WEATHER
February Bill Cycle	3/15/2023	3/21/2023	238	4/13/2023	55	6 SHUT OFFS (4 VACANT) 2 PROPERTIES TURNED BACK ON
March Bill Cycle	4/17/2023	4/19/2023	252	5/10/2023	64	5 SHUT OFFS (2 VACANT) 3 PROPERTIES TURNED BACK ON
April Bill Cycle	5/16/2023	5/18/2023	246	6/7/2023	69	3 SHUT OFFS (1 VACANT, 2 OCCUPIED) 2 PROPERTIES TURNED BACK ON
May Bill Cycle	6/16/2023	6/22/2023	244	7/10/2023	56	2 SHUT OFFS (2 OCCUPIED) 2 PROPERTIES TURNED BACK ON
June Bill Cycle	7/17/2023	7/20/2023	238	8/7/2023	77	NO SHUT OFFS
July Bill Cycle	8/16/2023	8/21/2023	258	9/8/2023	72	5 SHUT OFFS (5 VACANT) 5 PROPERTIES TURNED BACK ON
August Bill Cycle	9/15/2023	9/20/2023	253	10/9/2023	90	4 SHUT OFFS (4 OCCUPIED) 3 PROPERTIES TURNED BACK ON
September Bill Cycle	10/16/2023	10/19/2023	256			NO 3 DAYS NOTICES SENT OUT DUE TO ON MEDICAL LEAVE
October Bill Cycle	11/16/2023	11/20/2023	273	12/11/2023	102	NO SHUT OFFS
November Bill Cycle	12/15/2023	12/19/2024	277	1/8/2024	76	NO SHUT OFFS
December Bill Cycle						

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*** BILLED CONSUMPTION REPORT ***

PAGE: 369

DATES: 12/01/2023 THRU 12/29/2023

TYPE: * - All

*** SERVICE CATEGORY TOTALS ***

SERV CATG	NUMBER BILLED	BILL CONS	TOTAL CONS	DEMAND CONS	TAX AMOUNT	BILL AMOUNT
S	2,691	15,643,600	15,643,600		\$	477,236.89
SR	2,661	0	0			
SR2	2,733	0	0		\$	264.51
W	5,377	19,549,300	19,549,300		\$	256,231.71

Partner Reporting Dashboard

[Back to Partner Select Page](#)

SUEZ (Middletown)

Date Start

2022-12-31

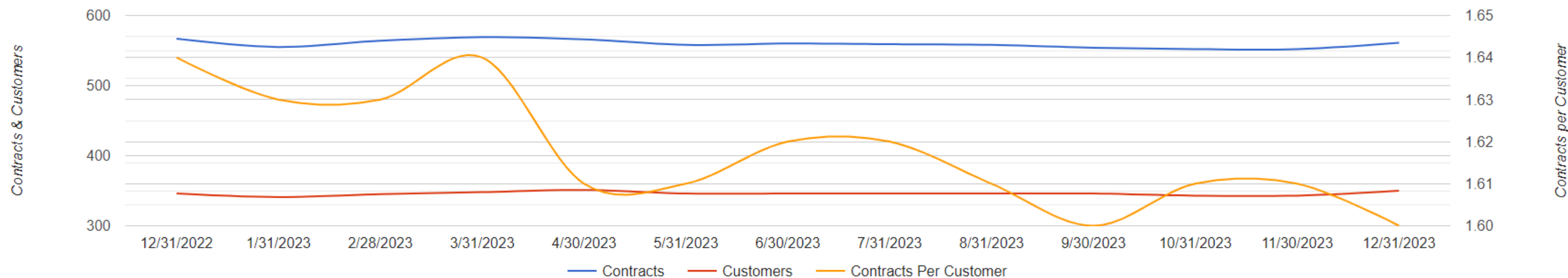
Date End

2023-12-31

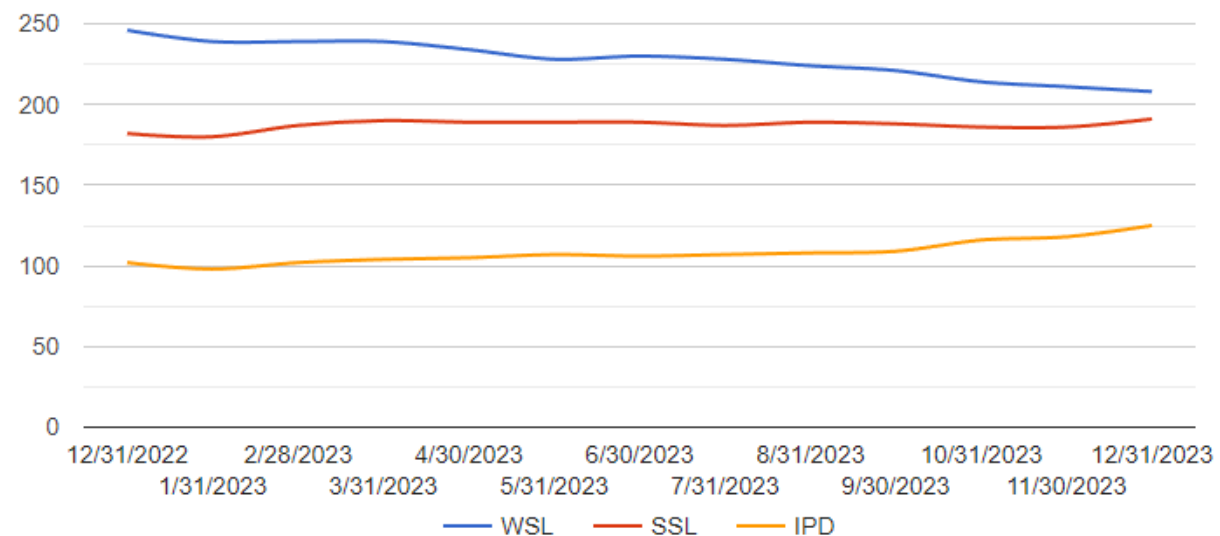
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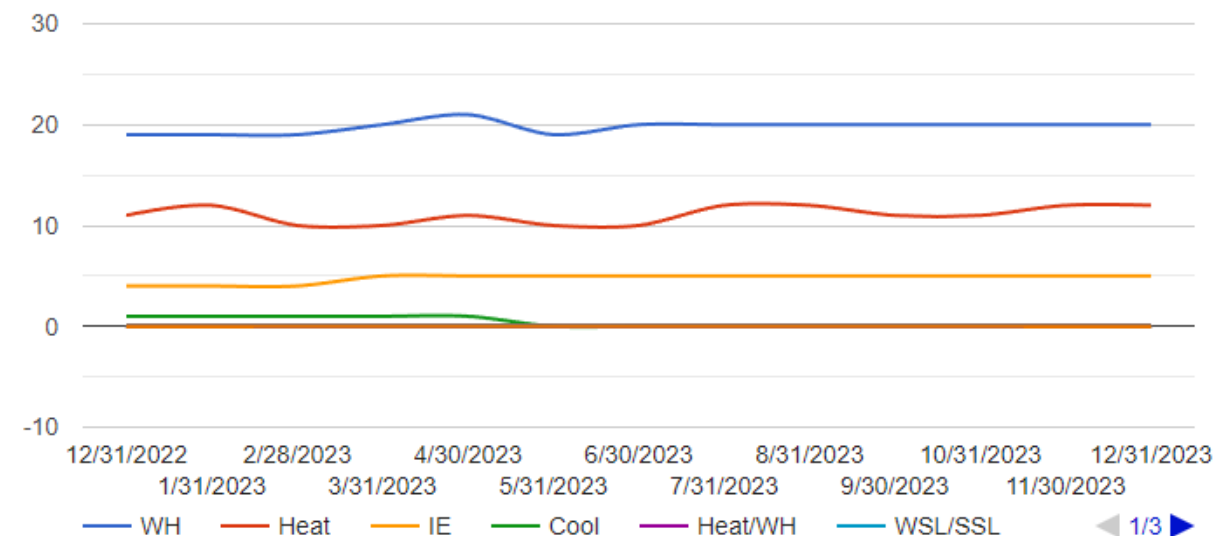
Contracts and Customers



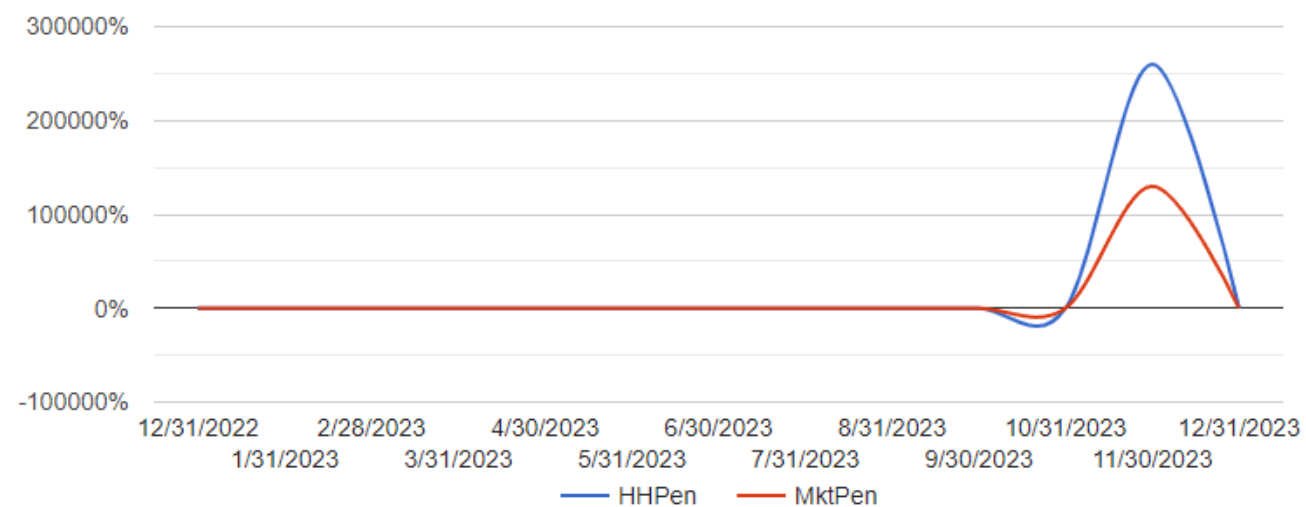
Leading Contracts by Type (Top 3)



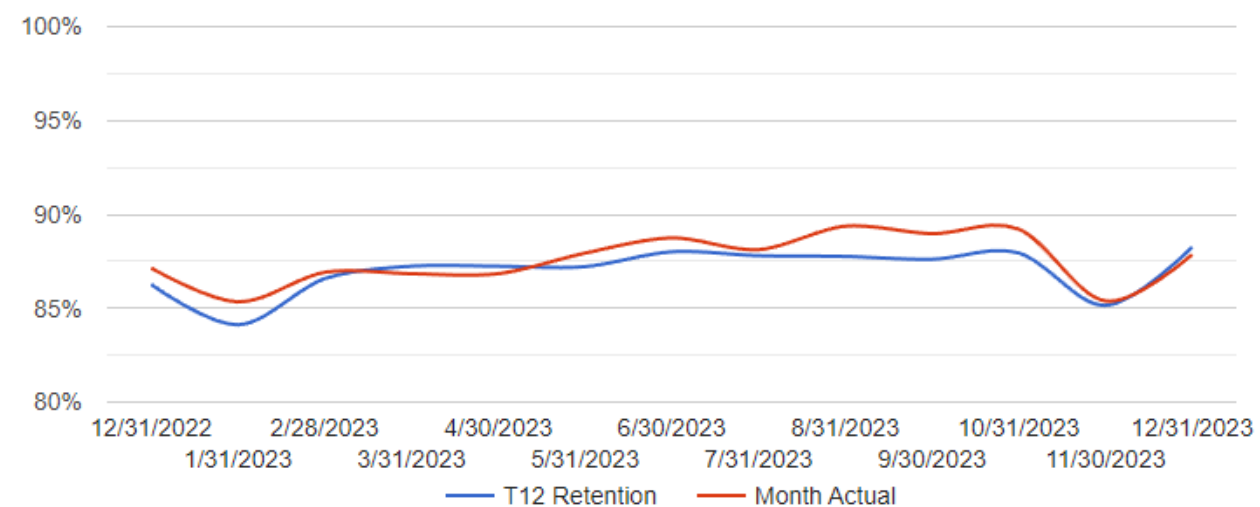
Leading Contracts by Type Other



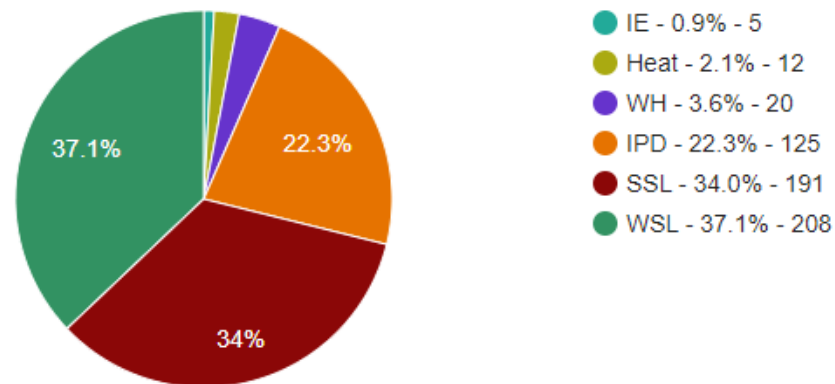
Household Penetration



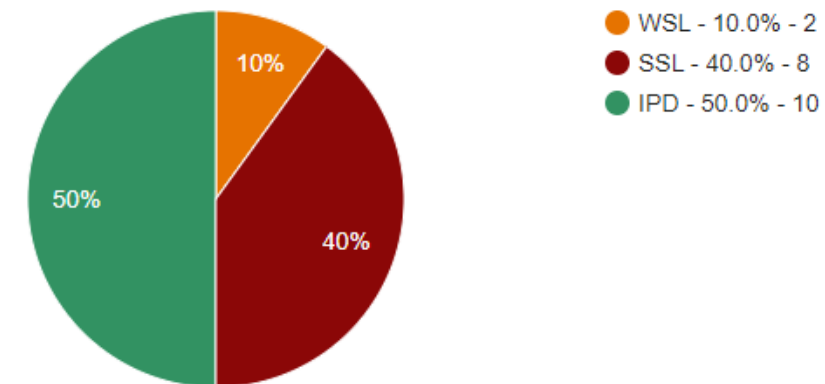
Retention



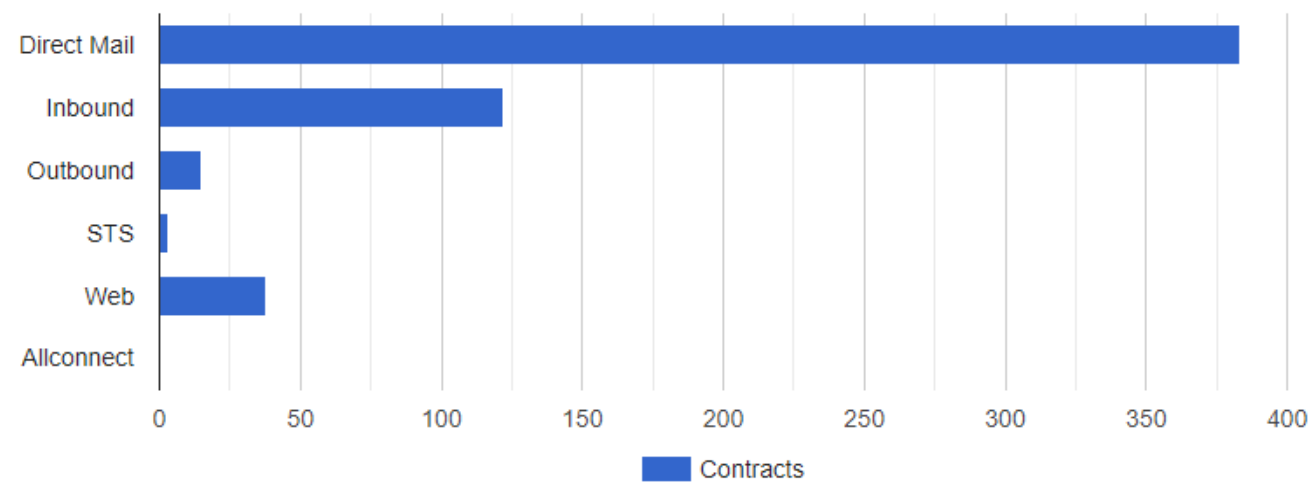
Contracts by Product Type



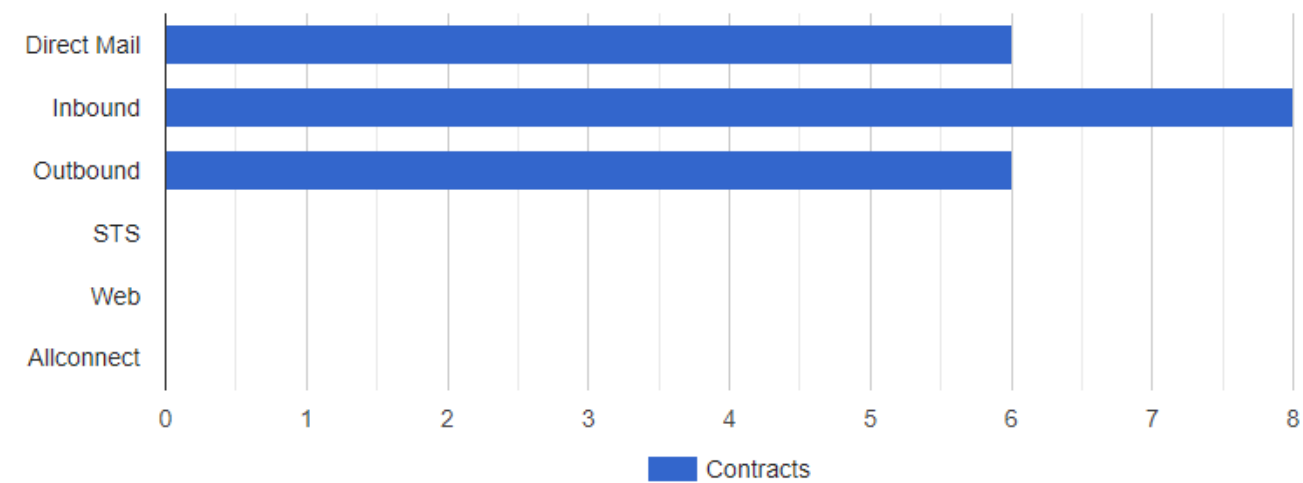
Contracts by Type - Last 30 Days



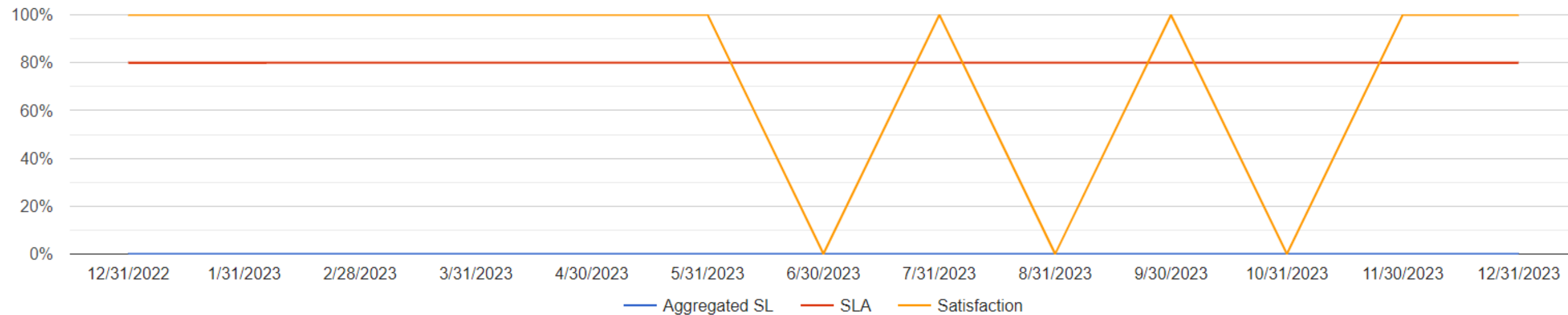
Contracts by Channel



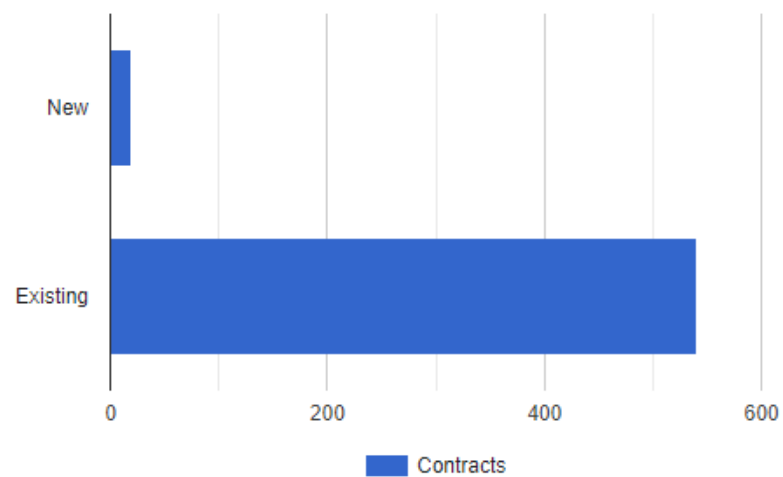
Contracts by Channel - Last 30 Days



Service Levels And Satisfaction



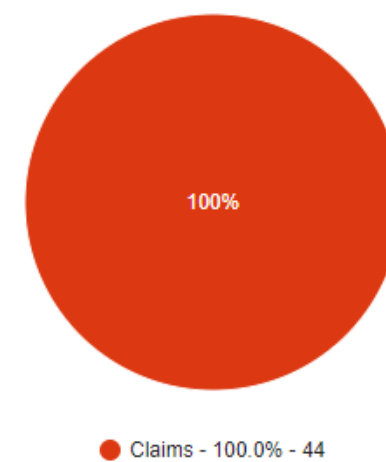
New v. Existing



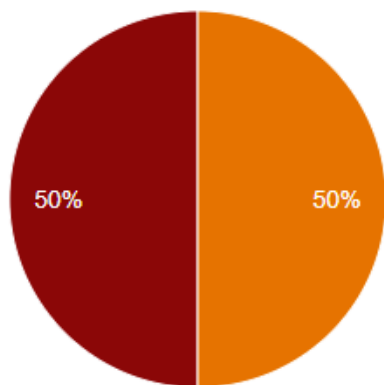
Rolling Complaints by Type



Complaints vs Claims

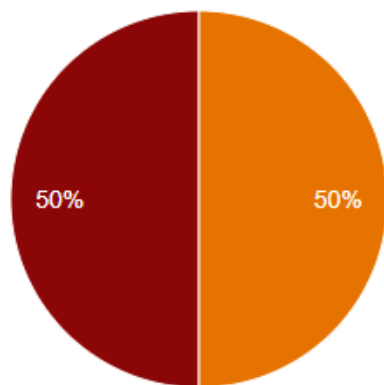


T12 Month Claims by Type



● SSL - 50.0% - 22
● IPD - 50.0% - 22

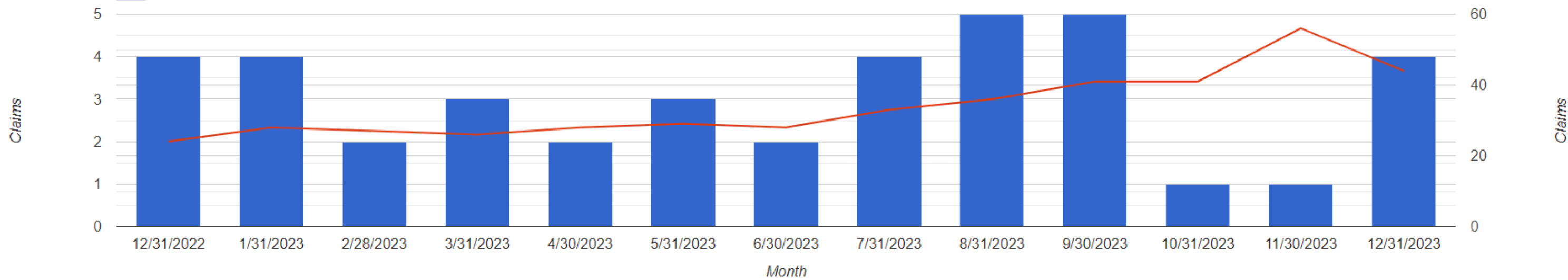
T1 Month Claims by Type



● SSL - 50.0% - 2
● IPD - 50.0% - 2

Claims History

■ Claims — T12 Claims



MIDDLETOWN MONTHLY REPORT

APPENDIX 4

WATER MAIN LEAK LOGS

APPENDIX 5

**QUARTERLY METER TEST AND CALIBRATION
REPORTS**

PROJECT/ TOWN

Middletown PA / Veslic

DATE

12/18/23

ADDRESS

Grubb St & Mill St

BLDG TYPE

METER#

93338294

REG#

METER SIZE

6" gallons

MAKE

Sensus

MODEL

C2

START READ

HIGH SIDE 022860363

END READ

HIGH SIDE 022861497

LOW SIDE

LOW SIDE

HIGH FLOW

FLOW RATE

GPM

500

QTY

1,000

TEST READ

HIGH SIDE 022860511

98.6%

LOW SIDE

END READ 022861497

PASS

END READ

INTERMEDIATE FLOW

FLOW RATE

GPM

33

QTY

100

TEST READ

HIGH SIDE 022860412

99%

LOW SIDE

END READ 022860511

PASS

END READ

LOW FLOW

FLOW RATE

GPM

1 1/2

QTY

50

TEST READ

HIGH SIDE 022860363

99%

LOW SIDE

END READ 022860412

PASS

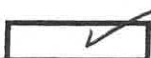
END READ

NOTES

Pass

LOCATION

VAULT



INSIDE



Test Performed by:

RA 420

Meter Test

METERTEK- LARGE METER WORK ORDER

PROJECT DIVISION:	veolia Middletown PA	TIME IN:	7:45 am
INSTALL DATE:	12/18/23	TIME OUT:	10:00 am
SERVICE CITY:	Middletown PA	METER SIZE:	6"
SERVICE ADDRESS:	Grubb + Mill	METER LOC:	vault
CUSTOMER NAME:		NEW METER:	
(HIGH) OUT READ:	022861497	RF (RADIO) HIGH:	
(LOW) OUT READ:		RF (RADIO) LOW:	
OLD REG# FOUND:		RF (RADIO) LOC:	vault
OLD METER (BODY)# FOUND:	93338294	SET READ (HIGH):	



SET READ (LOW):

Customer Signature

REPLUMB:

PARTS USED: 30 min - pump out vault

Replaced Radio Antenna

* Test 6" Sensus C2 *

TECH ID: 420-424 HR: 2.5

PROJECT/ TOWN

Middletown PA / Ucolia

DATE

12/18/23

ADDRESS

Union Ave + Ann St

BLDG TYPE

METER#

86262284

REG#

METER SIZE

6" gallons x10

MAKE

Sensus

MODEL

C2

START READ

HIGH SIDE

05122984

END READ

LOW SIDE

HIGH SIDE

05123099

LOW SIDE

HIGH FLOW

FLOW RATE

GPM

500

QTY

1,000

TEST READ

HIGH SIDE

05122999

LOW SIDE

END READ

05123099

END READ

100%
pass

INTERMEDIATE FLOW

FLOW RATE

GPM

33

QTY

100

TEST READ

HIGH SIDE

05122989

LOW SIDE

END READ

05122999

END READ

100%
pass

LOW FLOW

FLOW RATE

GPM

1 1/2

QTY

50

TEST READ

HIGH SIDE

05122984

LOW SIDE

END READ

05122989

END READ

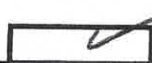
100%
pass

NOTES

Pass

LOCATION

VAULT



INSIDE



Test Performed by:

R 420

Meter Test

METERTEK- LARGE METER WORK ORDER

PROJECT DIVISION:	Veolia Middletown PA	TIME IN:	10:00 am
INSTALL DATE:	12/18/23	TIME OUT:	11:00 am
SERVICE CITY:	Middletown PA	METER SIZE:	6"
SERVICE ADDRESS:	Ann + Union	METER LOC:	vault
CUSTOMER NAME:		NEW METER:	
(HIGH) OUT READ:	05123099	RF (RADIO) HIGH:	1551320484
(LOW) OUT READ:		RF (RADIO) LOW:	
OLD REG# FOUND:		RF (RADIO) LOC:	vault
OLD METER (BODY)# FOUND:	86262284	SET READ (HIGH):	



SET READ (LOW):	
-----------------	--

Customer Signature

REPLUMB:

PARTS USED:	pump out vault
* Test 6" Sensors C2 *	

TECH ID:	720+424	HR:	1
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MIDDLETOWN MONTHLY REPORT

APPENDIX 6