

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



February 28, 2023

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**RE: Transmittal of Veolia Middletown Operations Report January 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

JANUARY 2023



## EXECUTIVE SUMMARY

This report covers the monthly period of January 1, 2023 through January 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.
- As COVID-19 Pandemic continues in the U.S., local operations have implemented Business Continuity Plans at the direction of Veolia-NA with guidance from the CDC and WHO.
- 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.
- Work with HRG, Tri-Star, and Kohl Bros. on modifications and upgrades to the groundwater elevation monitoring equipment.
- Continue with Well # 4 Pump Replacement, and integration of new chemical feed system.
- Installation of Safety Upgrades for Water and Wastewater systems.
- Complete sewer jetting.
- Installation of new ATAD jet pump.
- Installation of new ORP probe for ATAD and SNDR.
- Began 2018/2021 Capital Improvement Project.

## Regulatory Compliance

NOV was issued on March 1<sup>st</sup> 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
    - Once replacement pump is selected a permit application will be filed with PA DEP by HRG.
    - After permit approval, new chemical feed system will be installed and integrated.
- Veolia working with HRG on permit amendments
  - Well 4 Permit Application –**Approval Received on 6/25/21**
    - Well 4 replacement pump application approved.
  - 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
- Chemical feed upgrade for Well 2 complete on November 3, 2022

# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



## Environment, Health and Safety

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

## 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.
- Implemented 2023 rate increase in accordance with Middletown Water Annual Recovery Report
- The meter reading cycle for water consumption in December was successfully completed on January 23, 2023. Restarted the Delinquent Notification and Shut-Off Program which was previously suspended due to COVID-19
  - Sent 237, 10 day shut-off notices to accounts that were \$50 past due for the December 2022 billing period
  - Posted 55 properties with 3 day shut-off notices

## 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.

## Conclusion

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

# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



## 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.

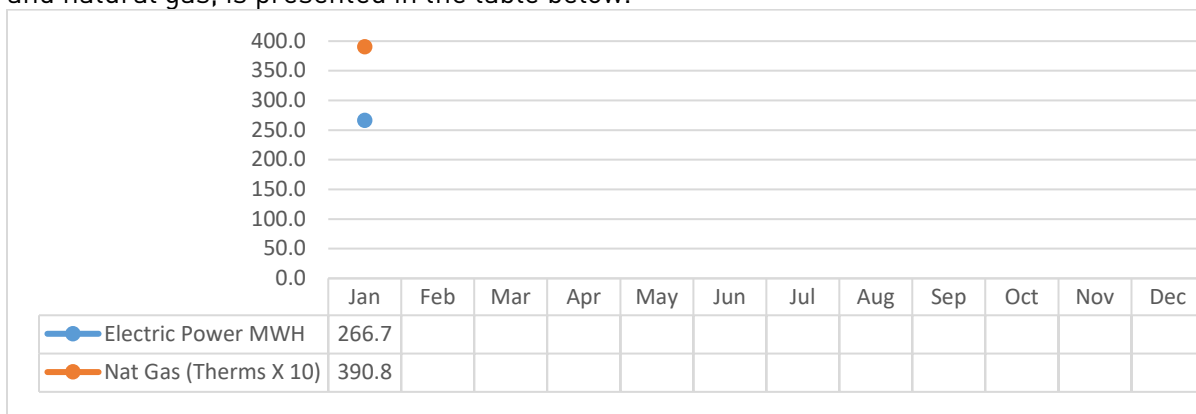
### Quality Control Reporting

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.

### Sustainability

Middletown received a score of 91 for the GRESB Report submitted in 2022, which was an increase of ten points from 2021. Objectives will be developed to 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	In Progress
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	Mixer	Ox Ditch 2	11/17/22	Sensor Failure	In Progress
WWTP	Influent Screen	Wet Well	1/13/23	Mechanical Failure	In Progress



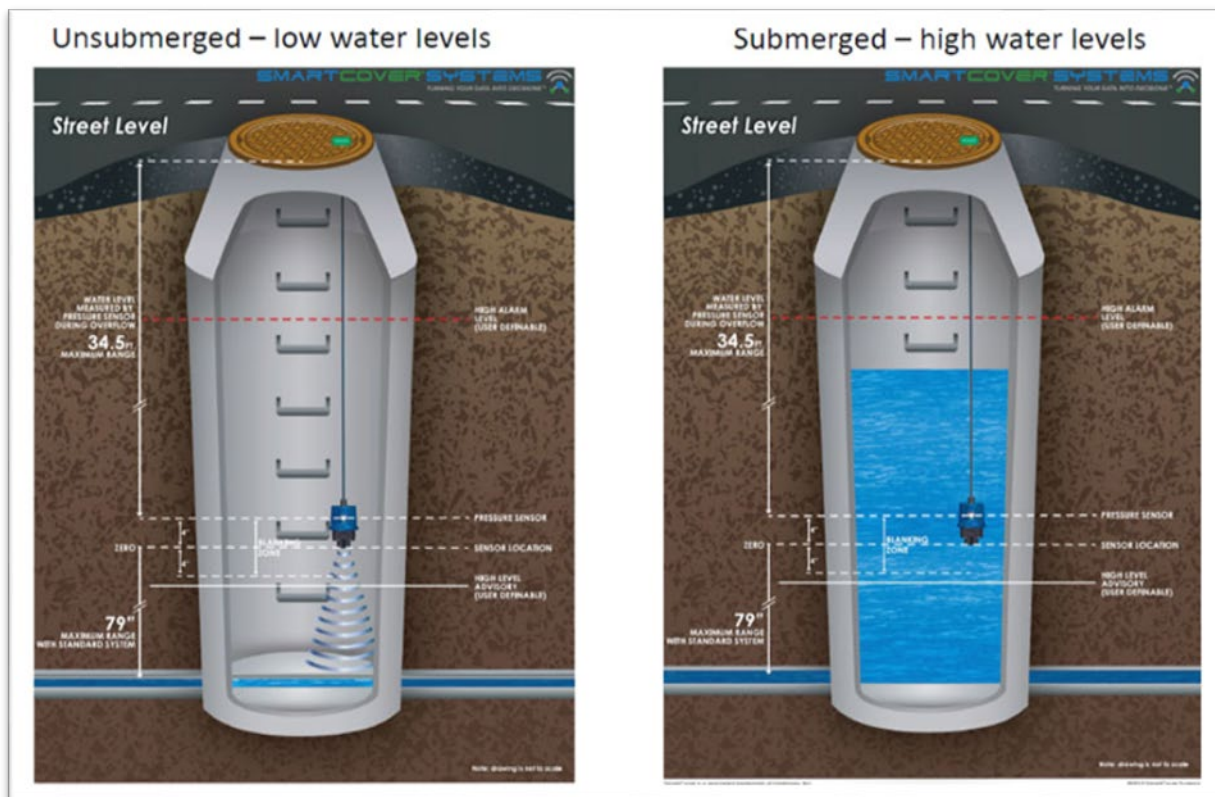
# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



## Sanitary Sewer System

SmartCover® Sewer Monitoring System



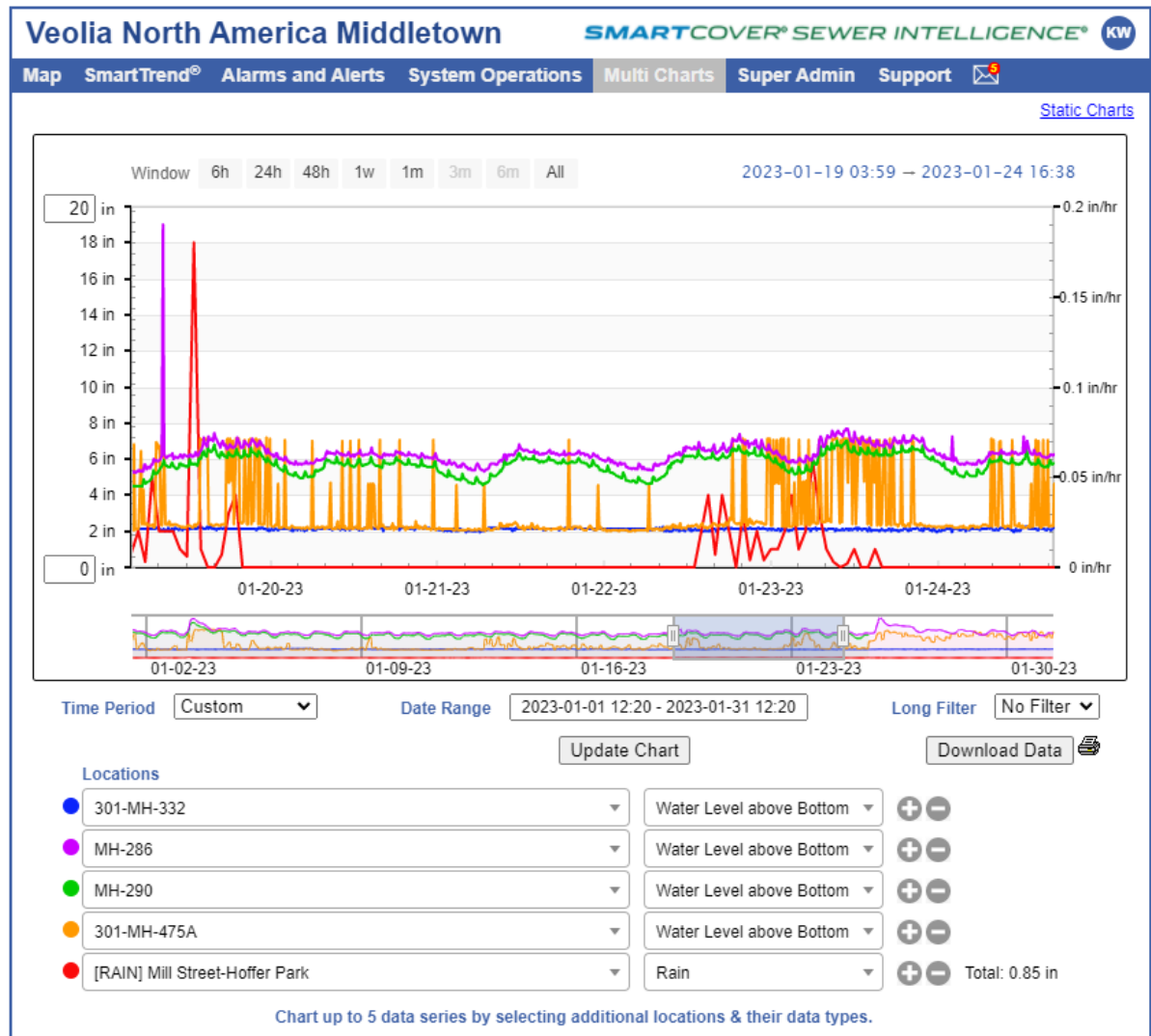
Ultrasonic level sensor (on the left) and pressure transducer (on the right). The covers use level sensing technology to analyze sewer elevations throughout the monitored area. This technology is used to monitor and reduce sanitary sewer overflows (SSO's) at problematic locations. The SmartCovers installed 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".



# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



## 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.

# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



KPI	Hydrants Inspected	Main Valves Exercised	Ft Wastewater Mains Cleaned	Ft Water System Leak Detection
Last	0	0	15002	0
Current	0	0	2866	0
YTD	159	112	20263	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.

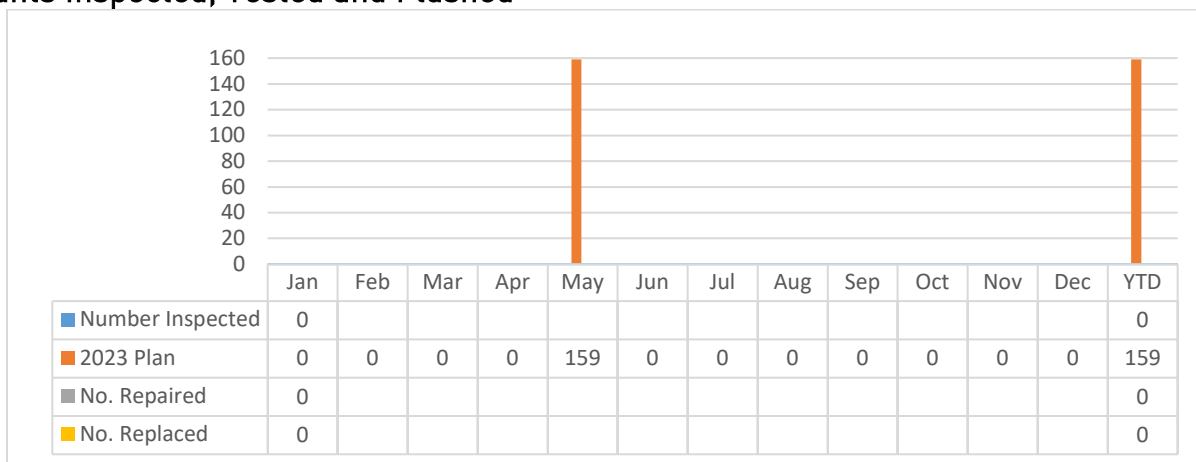
# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023

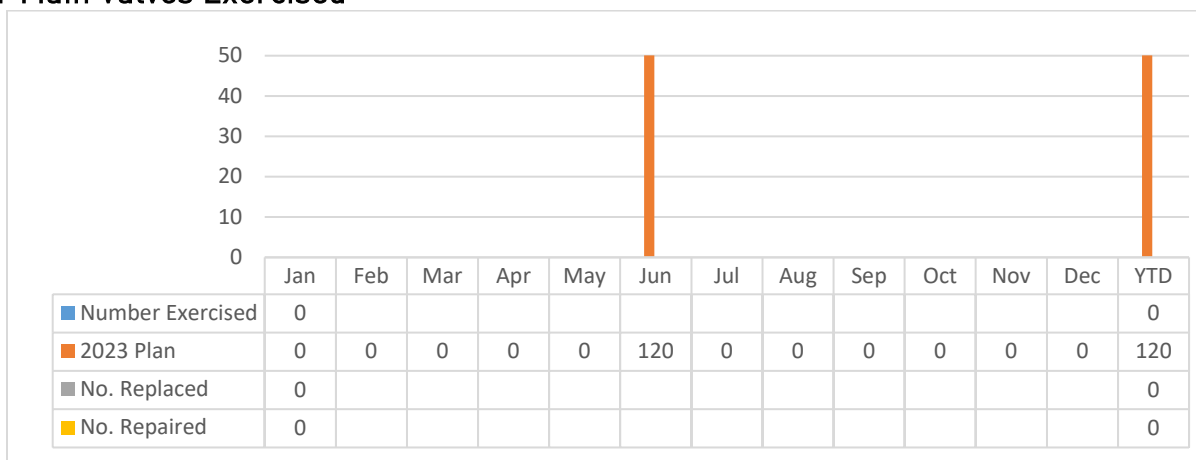


- Sanitary Mains Cleaned/CCTV Inspected: The 2021 CCTV requirement was completed in January 2022. Sanitary main cleaning and CCTV inspections will continue to meet the 2022 requirement.

## Hydrants Inspected, Tested and Flushed



## Water Main Valves Exercised

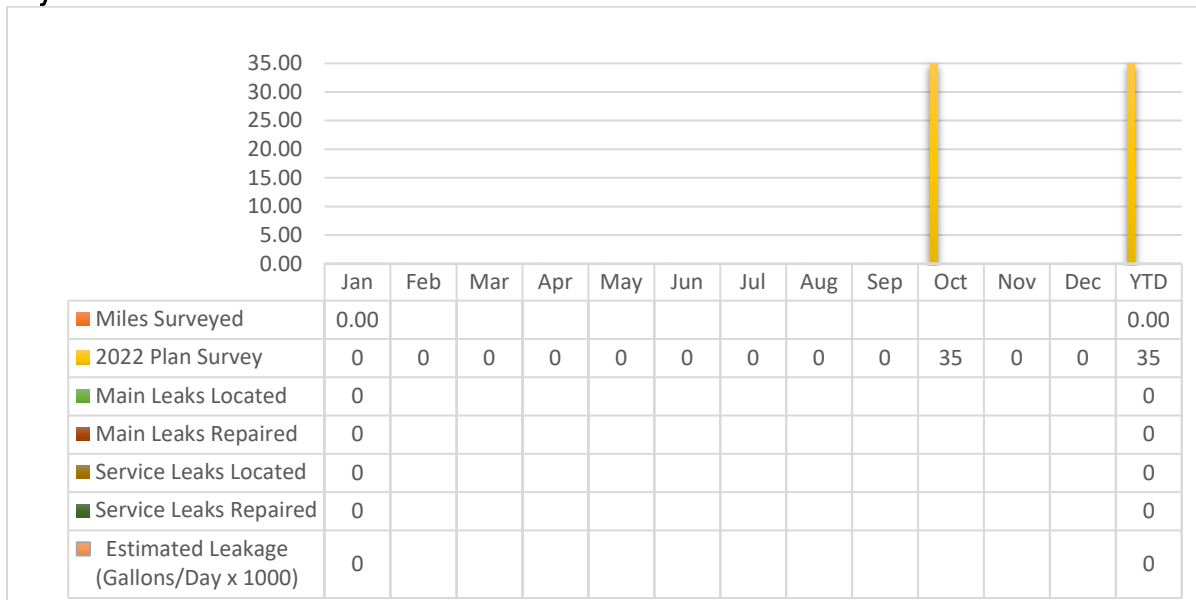


# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

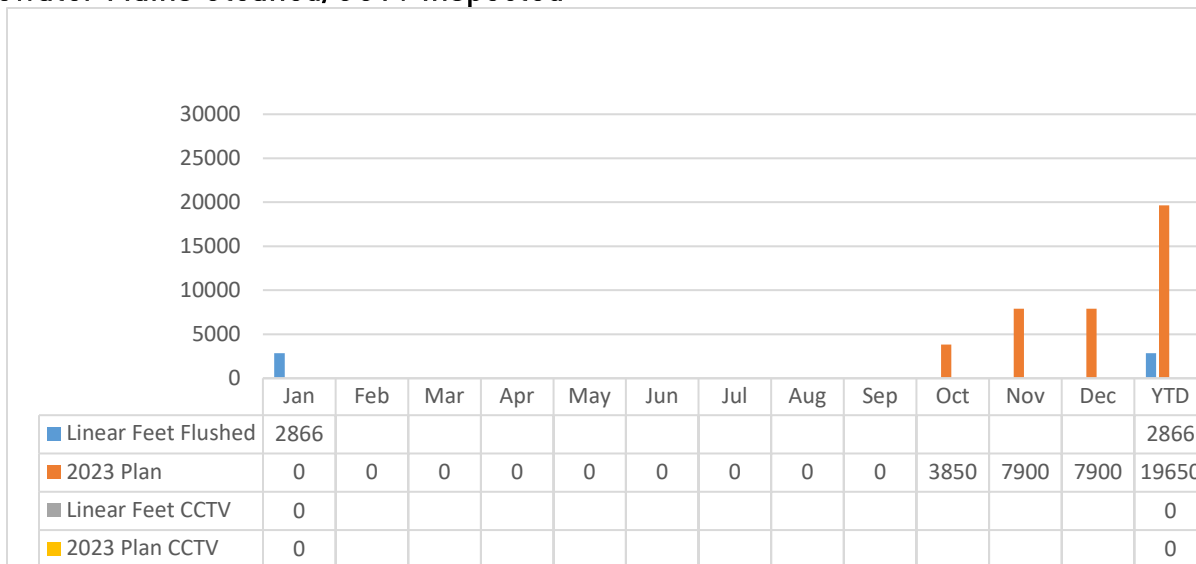
JANUARY 2023



## Water System Leak Detection



## Wastewater Mains Cleaned/CCTV Inspected



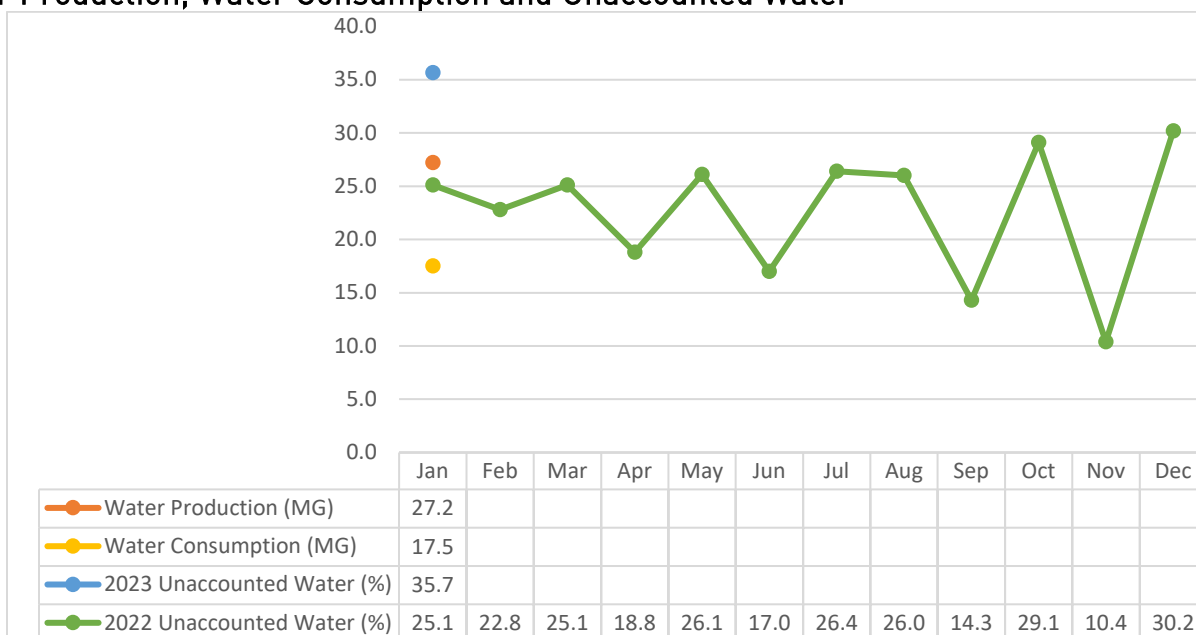
Approximately 11,000 feet of CCTV remaining from 2021 was completed in January 2022.

# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023

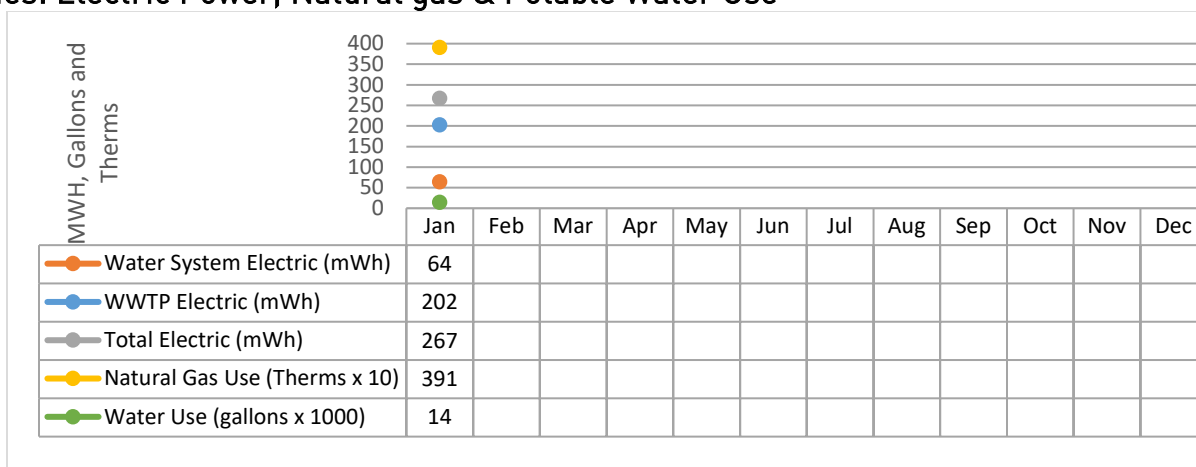


## Water Production, Water Consumption and Unaccounted Water



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.

## Utilities: Electric Power, Natural gas & Potable Water Use



# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



## 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												
Hydrofluorosilic Acid	lbs	305												
Alum	gal	35												
Thickening Polymer	gal	55												
Dewatering Polymer	gal	129												
Chlorine (WWTP)	lbs	404												
Lime	lbs	5628												

## 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.

## 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.

National Meter was contracted in 2021 to perform replacement and testing of approximately 270 of the oldest small meters within the distribution system each year. In 2021, 269 small meters were replaced. Small Meter Test Results have been added to the table below. There was a 97% pass rate of the meters tested in 2021. In 2022, due to supply chain issues, small meters that had known issues were targeted for replacement. Currently, 64 small meters have been replaced with a 67.5% pass rate.

# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



## 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												1	0	0	0	1
Water Process	16												16	0	0	0	16
Interconnect/Large	0												0	0	0	0	0
Small Meter	0												0	0	0	0	0
<b>TOTAL</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17</b>

## 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, especially concerning COVID-19.
- Univar Meter Replacement.
- Upgrades to Chemical Feed Systems.
- Continue Well # 4 Pump Replacement.
- Safety Upgrades to water and wastewater systems.
- Assist in coordinating the day-to-day needs of the Capital Improvement Project.
- Complete annual sewer jetting.
- Replace pH probe in SNDR.



## Customer Service

### 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 is still closed, but the telephone and drop box for payments remain open. Call volume increased in January with a total of 838 calls received. Call volume has remained high 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 LIHWAP program ended on October 28, 2022, due to lack of federal funding. Twenty-five customers qualified and were able to utilize the program.

The 2023 rate increase has been implemented in accordance with Middletown Water Annual Recovery Report.

The release of bill files for printing and mailing this month occurred in 2 day with bills for services provided December being mailed to customers on January 25<sup>th</sup>. The average gross monthly collection rate for January was 111.0% and 103.16% 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 24 accounts this month, which is down from last month. There were no idle meters with consumption this month.

The number of Field Service Requests in January was 82. Field Service Requests have resumed due to lower COVID threat level.

In March of 2021, Veolia implemented a new customer bill design. The re-design will help 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 388 who have enrolled in the Auto Pay program.

# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



## 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												12	123	131
Bill Inquiry	99												99	1448	934
Finals	19												19	242	173
New Account	7												7	118	98
Meter Reading/Re-Reads	1												1	13	0
Payments	610												610	6901	6127
Collection Letter	51												51	735	168
Rates	0												0	9	30
Complaints	0												0	0	1
Sewer	0												0	6	12
Leaks	3												3	15	11
No/Low Water Pressure	0												0	8	6
Copy Of Bill	3												3	101	2
Correct. Bills	0												0	0	0
Mtr Change Out	0												0	0	1
Customer Correspondance	61												61	763	922
Discolored/Water Quality	0												0	1	0
Calls Referred to SUEZ Hbg	33												33	414	439
Calls from City / Other Org	0												0	0	1
Compliments	0												0	1	18
<b>2023 TOTALS</b>	<b>899</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>899</b>		
<b>2022 TOTALS</b>	<b>1005</b>	<b>920</b>	<b>966</b>	<b>915</b>	<b>972</b>	<b>955</b>	<b>902</b>	<b>905</b>	<b>818</b>	<b>933</b>	<b>814</b>	<b>794</b>		<b>10899</b>	

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.

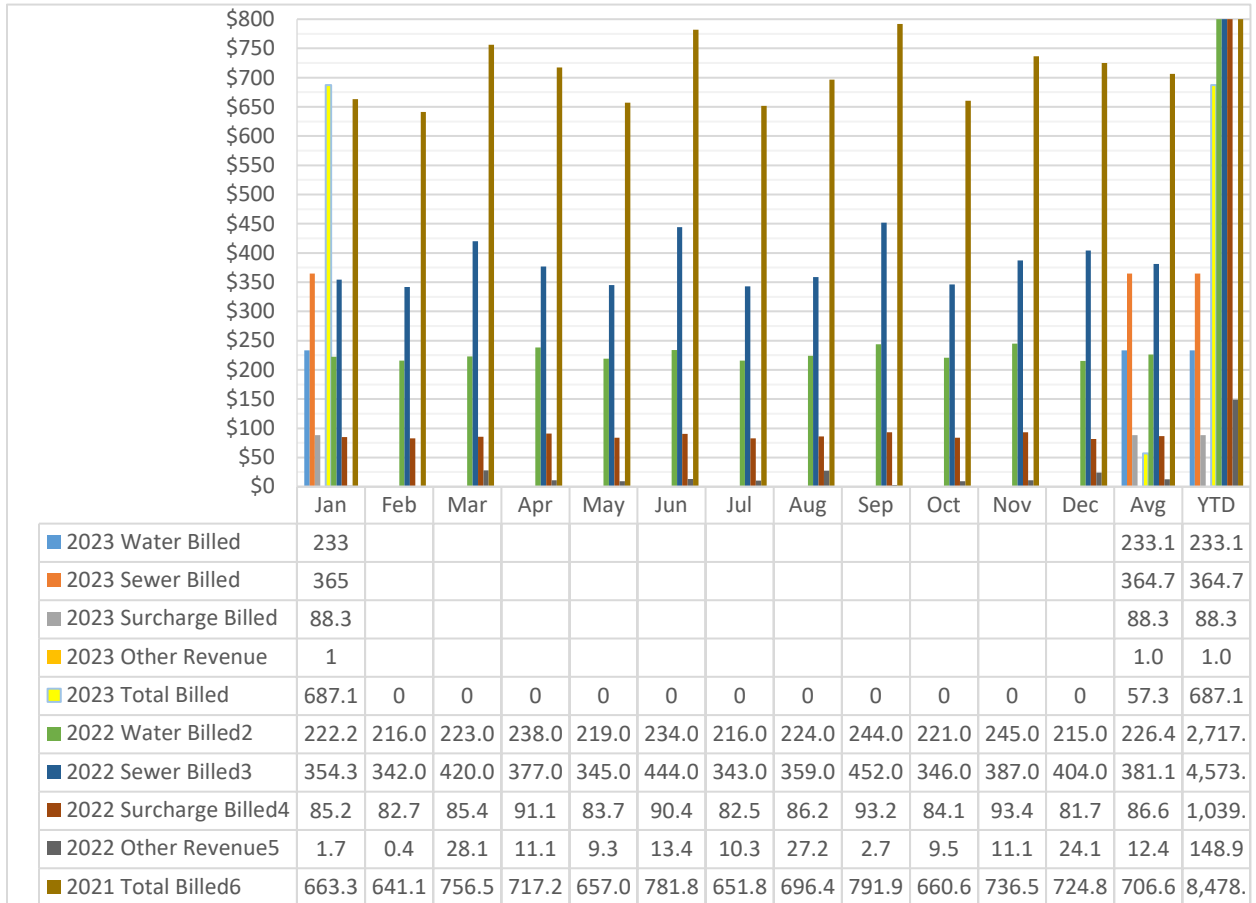
\* Neptune is the meter manufacturer

# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



## Dollars Billed - Water and Sewer (dollars X1000)

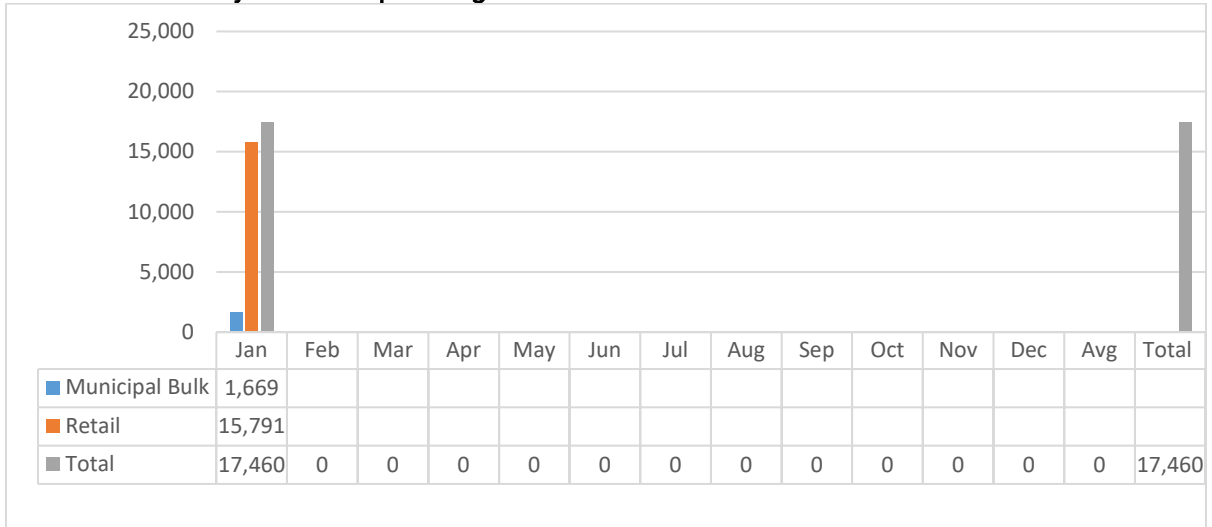


# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

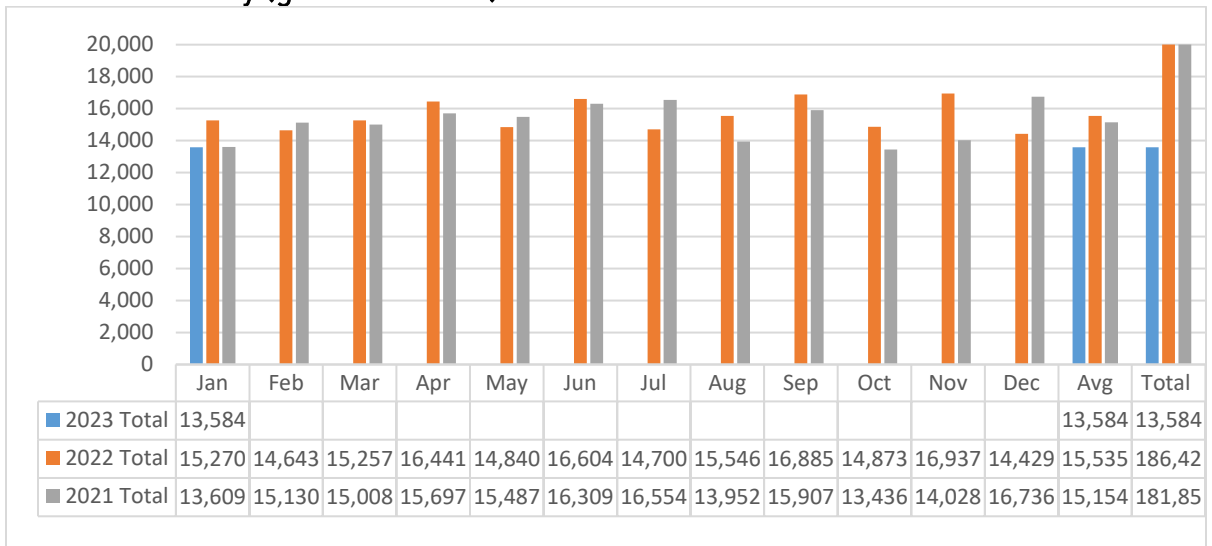
JANUARY 2023



## Water Sales - Monthly Consumption (gallons X 1000)



## Sewer Sales - Monthly (gallons X 1000)



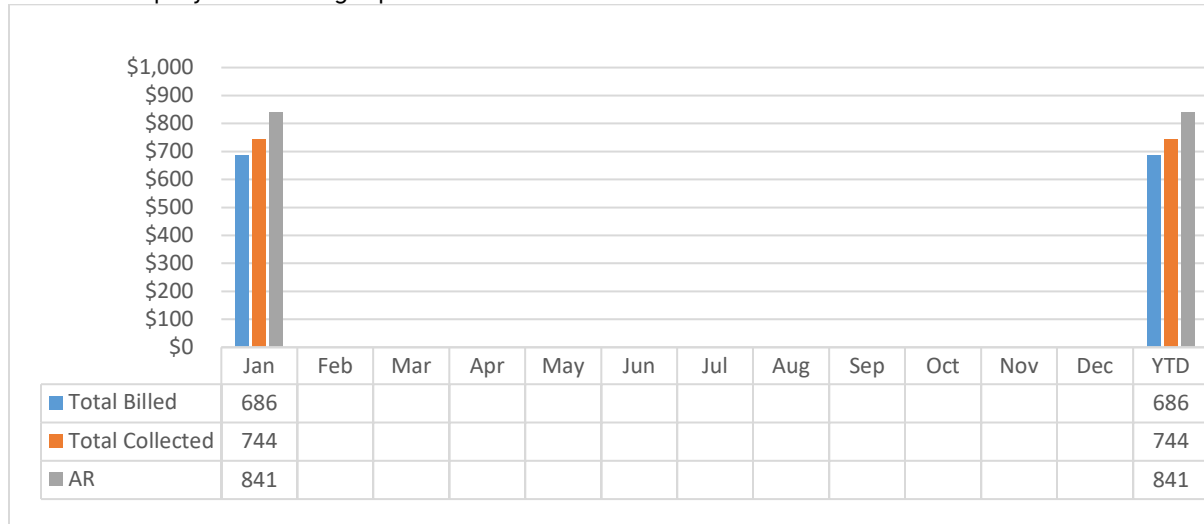
# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023

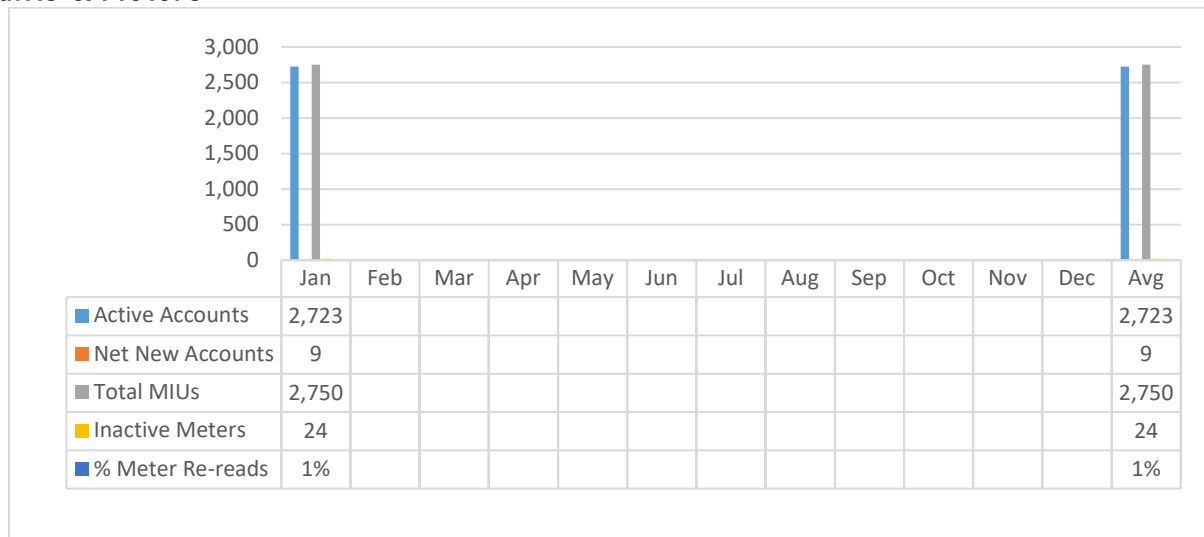


## Collections (dollars X 1000)

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



## Accounts & Meters

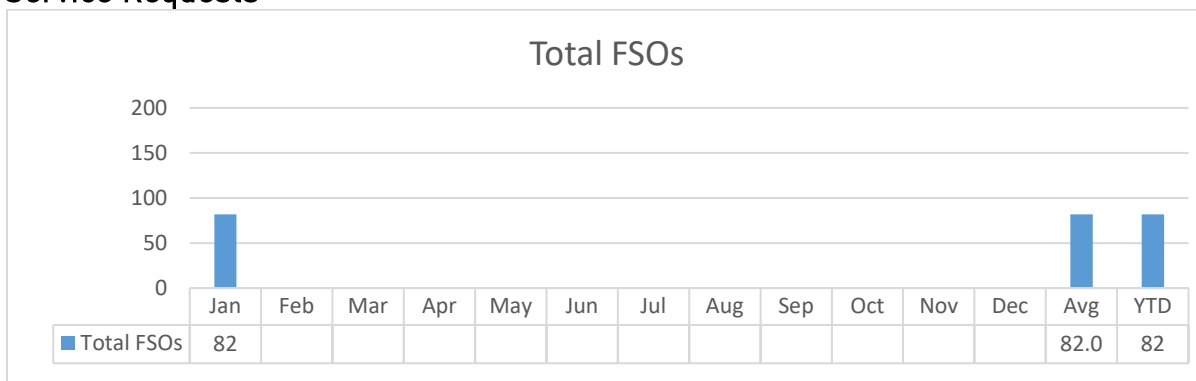


# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



## 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
Unplanned	0												0	0	0	0	0
<b>2023 Total</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## 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
Discolored	0												0	0	0	0	0
Boil Water Notices	0												0	0	0	0	0
<b>2023</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

The discolored water call was in regard to annual hydrant flushing.

## Sewer and Collection Issues

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

### Sewer Quality Complaints Summary

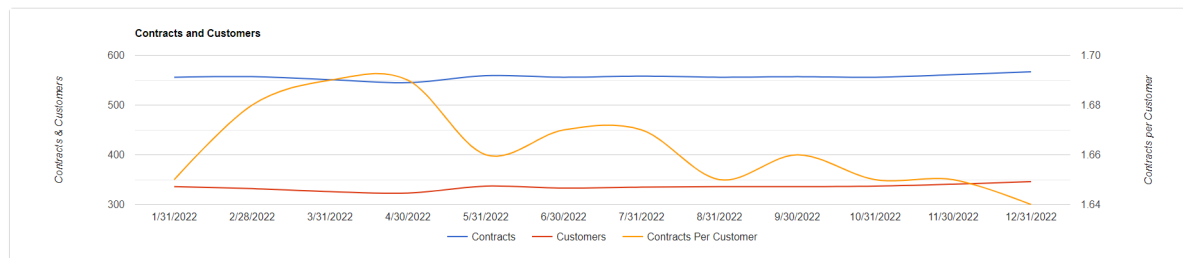
Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
Back-up / Blockage	0												0	0	0	0	0
Odor	0												0	0	0	0	0
<b>2023 TOTAL</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>2022 TOTAL</b>	0	0	0	0	0	0	0	4	2	1	2	1	0	0	6	4	10

# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

## JANUARY 2023



### Home Serve USA



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

JANUARY 2023



# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

## JANUARY 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													
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													
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													
Avg retail water sales (gal)		522,030	610,171	563,219	618,750	565,439	615,878	576,508	543,092	644,438	540,847	605,698	580,971	6,993,349	582,779
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													
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													
Avg Bulk Customer sales (gal)		53,847	68,745	67,176	70,188	65,550	74,477	51,881	52,411	55,642	48,381	55,557	57,326	721,177	60,098
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) = 582,779															
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 2022 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

JANUARY 2023



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 next 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 the August 2021

# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



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 is currently providing submittals to HRG for approval. The project mobilized on January 26, 2023. Substantial completion is anticipated to occur in July 2023.

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 will be distributed to more potential vendors to receive competitive pricing. IK Stoltzfus was the apparent low bidder and awarded the project. Due to the re-bid and weather conditions not allowing re-coating work in winter, the High Street Tank is anticipated to be rehabilitated in Q3 of 2022 followed with the Union St Tank in spring of 2023 and the Turnpike Tank in fall 2023. The permits for the High Street tank, Union Street tank, and Turnpike Tank have been approved by PA DEP. The project mobilized on September 12, 2022 and is anticipated to be completed in December 2022. 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 project. The painting portion of the project concluded in December 2022. The Turnpike Tank rehabilitation is scheduled to begin in February 2023.





# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

JANUARY 2023



## Capital Improvement Plan

The following DRAFT Capital Improvement Plan was submitted on February 28, 2022. An updated Capital Improvement Plan will be submitted to the Borough next month.

# MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT JANUARY 2023



SEWER COLLECTION, CONVEYANCE, & TREATMENT FACILITIES  
DRAFT - 5 Year Capital Improvements Plan (2022-2027)  
February 28, 2022

	2022 and 5 YEAR CAPITAL IMPROVEMENT PLAN						
	2021	2022	2023	2024	2025	2026	2027
<b>BASE CAPITAL IMPROVEMENTS</b>							
Headworks Wet Well Pump and Tank Rehabilitation Project	-	-	\$ 45,000	\$ -	-	-	-
Well No. 4 Rehabilitation Project	\$ -	\$ -	\$ -	\$ -	\$ 70,000	\$ 70,000	\$ -
Well No. 3 Stripping Tower Rehabilitation Project	\$ 15,000	\$ -	\$ -	\$ -	-	-	-
Well Upgrades (Pumps, controls, automation)	-	\$ 122,000	\$ 38,000	-	-	-	-
Ventilation of ATAD Building Project	\$ -	\$ -	\$ 50,000	\$ -	-	-	-
Fire Alarm System Design Project	\$ -	\$ -	\$ -	\$ -	-	-	-
Chlorine Analyzer Replacement Project	\$ -	\$ -	\$ -	\$ -	-	-	-
Blower Building Instrumentation Replacement Project	\$ -	\$ -	\$ -	\$ 10,000	-	-	-
SCADA Upgrade Project	\$ -	\$ -	\$ -	\$ 25,000	-	-	-
WAS Storage Tank Instrumentation Replacement Project	\$ -	\$ -	\$ -	\$ 15,000	-	-	-
Biofilter Instrumentation Replacement Project	\$ -	\$ -	\$ -	\$ -	-	-	-
ATAD & SNDR Reactors Instrumentation Replacement Project	\$ 14,500	\$ 14,500	\$ 11,500	\$ -	-	-	-
Headworks Instrumentation Replacement Project	\$ -	\$ -	\$ -	\$ 27,000	-	-	-
Biosolids Processing Instrumentation Replacement Project	\$ -	\$ -	\$ -	\$ -	-	-	-
Oxidation Ditch Instrumentation Replacement Project	\$ 40,000	\$ -	\$ -	\$ -	-	-	-
Scum Pump Station Instrumentation Replacement Project	\$ -	\$ -	\$ -	\$ -	-	-	-
WWTP Facilities Security Upgrades Project	\$ -	\$ -	\$ -	\$ -	\$ 30,000	\$ 20,000	\$ 20,000
Well Facilities Security Upgrades Project	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,000	\$ 20,000
Well Evaluation and Upgrades Project	\$ -	\$ -	\$ -	\$ -	-	-	-
Trench Opening Restoration Project	\$ 70,150	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Water and WWTP System Evaluations	\$ 28,750	\$ 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	\$ 180,000	\$ 170,000	\$ 170,000	\$ 150,000	\$ 162,000	\$ 160,000	\$ 235,000
Safety Upgrades	\$ 10,600	\$ -	\$ -	\$ -	\$ 20,000	\$ 20,000	\$ 20,000
<b>TOTAL BASE CAPITAL IMPROVEMENTS *</b>	<b>\$ 359,000</b>	<b>\$ 385,250</b>	<b>\$ 393,250</b>	<b>\$ 380,750</b>	<b>\$ 387,000</b>	<b>\$ 395,000</b>	<b>\$ 400,000</b>
<b>PROPOSED YEARLY BUDGET FOR BASE CAPITAL PROJECTS **</b>	<b>\$ 368,367</b>	<b>\$ 385,312</b>	<b>\$ 403,037</b>	<b>\$ 421,576</b>	<b>\$ 440,969</b>	<b>\$ 461,253</b>	<b>\$ 482,471</b>
<b>MAJOR CAPITAL IMPROVEMENTS</b>							
	2021 *	2022 *	2023 *	2024 *	2025 *	2026 *	2027 *
Underground Infrastructure Replacements (2023 - 2026)	\$ -	\$ -	\$ 2,394,090	\$ 2,394,090	\$ 2,394,090	\$ 2,394,090	\$ 2,394,090
Underground Infrastructure Replacements (2016)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2017)	\$ 275,074	\$ 1,157,425	\$ -	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2018)	\$ 49,500	\$ 1,596,000	\$ -	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2019) ***	\$ 268,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2020)	\$ 275,074	\$ 1,157,425	\$ -	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2021)	\$ 49,500	\$ 1,596,000	\$ -	\$ -	\$ -	\$ -	\$ -
Underground Infrastructure Replacements (2022)	\$ -	\$ 30,333	\$ 2,287,000	\$ -	\$ -	\$ -	\$ -
Water Storage Tank Rehabilitation - Union Street	\$ -	\$ -	\$ 1,309,083	\$ -	\$ -	\$ -	\$ -
Water Storage Tank Rehabilitation - High Street	\$ -	\$ 1,216,988	\$ -	\$ -	\$ -	\$ -	\$ -
Water Storage Tank Rehabilitation - Turnpike	\$ -	\$ 955,938	\$ -	\$ -	\$ -	\$ -	\$ -
Contingency (5%)	\$ -	\$ 276,859	\$ 234,054	\$ 119,704	\$ 119,704	\$ 119,704	\$ 119,704
<b>TOTAL MAJOR PROJECTS</b>	<b>\$ 917,148</b>	<b>\$ 7,986,967</b>	<b>\$ 6,224,227</b>	<b>\$ 2,513,794</b>	<b>\$ 2,513,794</b>	<b>\$ 2,513,794</b>	<b>\$ 2,513,794</b>
<b>REGULATORY COMPLIANCE</b>							
WWTP Effluent Outfall Rehabilitation ****			\$ 356,500				
<b>TOTAL CAPEX</b>	<b>\$ 1,285,515</b>	<b>\$ 8,372,279</b>	<b>\$ 6,983,764</b>	<b>\$ 2,935,370</b>	<b>\$ 2,954,763</b>	<b>\$ 2,975,047</b>	<b>\$ 2,996,265</b>



## Environment, Health & Safety

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Environmental Incidents – Regulatory (PADEP/USEPA) notifications	0												0
Concessionaire Notifications	0												0
Incident Email Notifications	0												0
Environmental Incidents – Appletree Hotline notifications	0												0
Environmental Incidents – Appletree Hotline notifications/chemical spills	0												0
Non-compliance – violations	0												0
Reporting non-compliance	0												0
Safety related incidents – OSHA lost time	0												0
Total days lost	0												0
Safety related incidents – Preventable	0												0
Safety related – Near Miss	0												0
Employee lost-time – not job-related – total as sick hours													
								On Target	Caution		Meets/Exceeds Target		

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



February 28, 2023

Mr. Kenneth Klinepeter  
Borough of Middletown  
[kklinepeter@middletownborough.com](mailto:kklinepeter@middletownborough.com)

Mr. Dan Sugarman  
Water Capital Partners LLC  
[dan.sugarman@wcpartnersllc.com](mailto:dan.sugarman@wcpartnersllc.com)

Mr. John Joyner  
Water Capital Partners LLC  
[john.joyner@wcpartnersllc.com](mailto:john.joyner@wcpartnersllc.com)

Mr. Don Correll  
Water Capital Partners LLC  
[don.correll@wcpartnersllc.com](mailto:don.correll@wcpartnersllc.com)

**RE: Laboratory Supervisor Certification – January 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



February 28, 2023

Mr. Kenneth Klinepeter  
Borough of Middletown  
[kklinepeter@middletownborough.com](mailto:kklinepeter@middletownborough.com)

Mr. Dan Sugarman  
Water Capital Partners LLC  
[dan.sugarman@wcpartnersllc.com](mailto:dan.sugarman@wcpartnersllc.com)

Mr. John Joyner  
Water Capital Partners LLC  
[john.joyner@wcpartnersllc.com](mailto:john.joyner@wcpartnersllc.com)

Mr. Don Correll  
Water Capital Partners LLC  
[don.correll@wcpartnersllc.com](mailto:don.correll@wcpartnersllc.com)

**RE: Environmental Laws Certification- January 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'.

Kodi Webb  
Project Manager

# **MIDDLETOWN MONTHLY REPORT**

## **APPENDIX 1 WASTEWATER**

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

**&**

### **SMARTCOVER® MONITORING SYSTEM REPORT**



Webb, Kodi &lt;kodi.webb@veolia.com&gt;

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**Your eDMR Report Has Been Received For Permit No. PA0020664**1 message

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

Thu, Feb 16, 2023 at 5:48 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:** 01/01/2023-01/31/2023**Report Due Date:** 02/28/2023**Submitted By:** Kodi Webb**Submission Id:** 379050**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				001		
PERMIT NUMBER				OUTFALL NUMBER		
MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2023	01	01	TO	2023	01	31

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

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	***	***	***	8.45	***	***	mg/L	1/day	Grab
	Permit Requirement	***	***		5.0 Daily Min	***	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	7.1	***	7.7	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	< 36	46	lbs/day	***	< 3.0	5.0	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	***	***	***	***	< 8.13	***	mg/L	1/month	Calculation
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Calculation
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	< .12	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	< .86	***	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	***	***	***	***	< 7.27	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	3	***	lbs/day	***	.26	***	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	1.396	2.105	MGD	***	***	***	***	Continuous	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	.3	.55	mg/L	1/day	Grab
	Permit Requirement	***	***		***	.5 Avg Mo	1.6 IMAX		1/day	Grab
Total Nitrogen (Total Load, lbs) (51445)	Sample Measurement	< 2889.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Ammonia-Nitrogen (Total Load, lbs) (51446)	Sample Measurement	< 39.1	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Kjeldahl Nitrogen (Total Load, lbs) (51449)	Sample Measurement	< 298	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Nitrate-Nitrite as N (Total Load, lbs) (51450)	Sample Measurement	< 2591.2	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	93.0	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Fecal Coliform (74055) (Oct-Apr)	Sample Measurement	***	***	***	***	43	300	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	< 24	< 27	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: 01/01/2023  
DMR Effective To: 01/31/2023  
Permit Expires: 02/28/2026  
Permit Application Due: 09/01/2025  
No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2023	01	01	TO	2023	01	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	< 2889.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	93.0	***	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
PERMIT NUMBER

001
OUTFALL NUMBER

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

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2023	01	01	TO	2023	01	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	4775	29128	lbs/day	***	429	***	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	5311	34822	lbs/day	***	475	***	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
1-23 Biosolids.xls	Sewage Sludge / Biosolids Production and Disposal Form	2023-02-16T17:36:47-05:00	
1-23 Effluent Supplemental.xlsx	Daily Effluent Monitoring Form	2023-02-16T17:35:28-05:00	
1-23 Influent Supplemental.xls	Influent and Process Control Form	2023-02-16T17:36:12-05:00	
2023 Annual_Chesapeake_Bay_Spreadsheet_v2.2 .xlsm	Annual Chesapeake Bay Spreadsheet	2023-02-16T17:38:10-05:00	

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
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

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
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

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

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
	Kodi Webb	23501	(717)-388-1759

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*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		
kwebb2			(717)	209-2736	2023	02	16
			SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO

Month: January 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:**

<b>Site Name</b>	<b>Marvin Weaver Cedar Rd Farm</b>			
<b>Municipality</b>	Conewago Township			
<b>County</b>	Dauphin County			
<b>DEP Permit No.</b>	PAG07-3504			
<b>Type of Material*</b>	Biosolids			
<b>Dry Tons Applied/Disposed</b>	16.48			
<b>Type of Disposal/Use*</b>	Agricultural Utilization			
<b>Hauler Name</b>	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: February 16, 2023



## M.J. Reider Associates, Inc.

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

# Certificate of Analysis

**Laboratory No.:** 2250004

**Report:** 01/12/23

**Lab Contact:** Bradley T Griffiths

**Attention:** Michael Barger  
**Reported To:** Veolia Middletown  
453 S. Lawrence St.  
Middletown, PA 17057

**Project Info:** Bi-Weekly Inf & Eff

**Lab ID:** 2250004-01 **Collected By:** Client  
**Sample Desc:** Influent (24Hr Composite)

**Sampled:** 01/03/23 07:42 **Received:** 01/03/23 12:30  
**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	170	mg/l	2.0	SM 5210 B	01/04/23 15:13	C-37c, C-40a, C-54, O-11	RXN
Solids, Total Suspended	103	mg/l	1	SM 2540 D	01/05/23		ALD

**Lab ID:** 2250004-02 **Collected By:** Client  
**Sample Desc:** Effluent (24Hr Composite)

**Sampled:** 01/03/23 09:07 **Received:** 01/03/23 12:30  
**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	01/03/23	C-52	JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	01/04/23 15:30	C-37d	RXN
Nitrate as N	6.39	mg/l	1.00	EPA 300.0 Rev 2.1	01/03/23 15:42		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/03/23 15:42		JAF
Nitrate+Nitrite as N	<6.49	mg/l	1.10	CALCULATED	01/03/23 15:42		JAF
Nitrogen, Total	<7.76	mg/l	1.60	CALCULATED	01/06/23 20:22		JMW
Nitrogen, Total Kjeldahl (TKN)	1.27	mg/l	0.50	EPA 351.2 Rev 2.0	01/06/23		JMW
Phosphorus as P, Total	0.11	mg/l	0.01	SM 4500-P F	01/03/23		JMW
Solids, Total Suspended	4	mg/l	1	SM 2540 D	01/05/23		ALD



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Additional accreditations by MD (261), NY(12094)

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

**Lab ID:** 2250004-03    **Collected By:** Client    **Sampled:** 01/03/23 09:19    **Received:** 01/03/23 12:30  
**Sample Desc:** Effluent (Grab)    **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	20	/100ml	2	SM 9222 D	1/3/23 14:52	1/4/23 14:20		RMB

**Preparation Methods**

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
<b>2250004-02</b>				
<b>General Chemistry</b>				
SM 4500-P F	SM 4500-P B	B3A0060	01/03/2023	JMW

**Notes and Definitions**

- C-37c The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.9 mg/L.
- C-37d The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.2 mg/L.
- C-40a The Glucose-Glutamic Acid check was outside of the acceptable criteria of  $198 \pm 30.5$  mg/L at 243 mg/L.
- C-52 The sample was received with detectable level of chlorine. Additional preservation was required in the laboratory.
- C-54 The difference between the highest and lowest results were greater than 30% at 45.8%.
- O-11 The sample incubation time did not meet the required limits of 5 day  $\pm$  6 hours by 36 minutes.



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## M.J. Reider Associates, Inc.

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

# Certificate of Analysis

**Laboratory No.:** 2250210

**Report:** 01/13/23

**Lab Contact:** Bradley T Griffiths

**Attention:** Michael Barger  
**Reported To:** Veolia Middletown  
453 S. Lawrence St.  
Middletown, PA 17057

**Project Info:** Bi-Weekly Inf & Eff

**Lab ID:** 2250210-01 **Collected By:** Client  
**Sample Desc:** Influent (24Hr Composite)

**Sampled:** 01/04/23 08:13 **Received:** 01/04/23 14:02  
**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	198	mg/l	2.0	SM 5210 B	01/05/23 14:24	C-37f	LMW
Solids, Total Suspended	247	mg/l	1	SM 2540 D	01/06/23		ALD

**Lab ID:** 2250210-02 **Collected By:** Client  
**Sample Desc:** Effluent (24Hr Composite)

**Sampled:** 01/04/23 09:23 **Received:** 01/04/23 14:02  
**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	01/10/23	C-52	JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	01/05/23 17:31	C-37g	RXN
Nitrate as N	5.98	mg/l	1.00	EPA 300.0 Rev 2.1	01/05/23 0:10		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/05/23 0:10		JAF
Nitrate+Nitrite as N	<6.08	mg/l	1.10	CALCULATED	01/05/23 0:10		JAF
Nitrogen, Total	<6.58	mg/l	1.60	CALCULATED	01/11/23 21:15		JMW
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	01/11/23		JMW
Phosphorus as P, Total	0.17	mg/l	0.01	SM 4500-P F	01/10/23		JMW
Solids, Total Suspended	3	mg/l	1	SM 2540 D	01/06/23		ALD



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

**Lab ID:** 2250210-03    **Collected By:** Client    **Sampled:** 01/04/23 10:37    **Received:** 01/04/23 14:02  
**Sample Desc:** Effluent (Grab)    **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	15	/100ml	2	SM 9222 D	1/4/23 16:41	1/5/23 15:57		RMB

**Preparation Methods**

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
<b>2250210-02</b>				
<b>General Chemistry</b>				
SM 4500-P F	SM 4500-P B	B3A0431	01/09/2023	JMW

**Notes and Definitions**

- C-37f The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.0mg/L.  
C-37g The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.6mg/L.  
C-52 The sample was received with detectable level of chlorine. Additional preservation was required in the laboratory.



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## M.J. Reider Associates, Inc.

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

# Certificate of Analysis

**Laboratory No.:** 2300210

**Report:** 01/18/23

**Lab Contact:** Bradley T Griffiths

**Attention:** Michael Barger  
**Reported To:** Veolia Middletown  
453 S. Lawrence St.  
Middletown, PA 17057

**Project Info:** Bi-Weekly Inf & Eff

**Lab ID:** 2300210-01    **Collected By:** Client    **Sampled:** 01/10/23 07:38    **Received:** 01/10/23 13:40  
**Sample Desc:** Influent (24Hr Composite)    **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	142	mg/l	2.0	SM 5210 B	01/11/23 14:44	C-37b, C-54a	RXN
Solids, Total Suspended	124	mg/l	1	SM 2540 D	01/12/23		ENM

**Lab ID:** 2300210-02    **Collected By:** Client    **Sampled:** 01/10/23 07:35    **Received:** 01/10/23 13:40  
**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	01/13/23		JMW
Carbonaceous Biochemical Oxygen Demand	2.3	mg/l	2.0	SM 5210 B	01/11/23 18:05	C-37a, C-40a, C-54c	RXN
Nitrate as N	6.76	mg/l	1.00	EPA 300.0 Rev 2.1	01/10/23 17:39		JAF
Nitrite as N	0.24	mg/l	0.10	EPA 300.0 Rev 2.1	01/10/23 17:39		JAF
Nitrate+Nitrite as N	7.00	mg/l	1.10	CALCULATED	01/10/23 17:39		JAF
Nitrogen, Total	7.51	mg/l	1.60	CALCULATED	01/14/23 2:46		JMW
Nitrogen, Total Kjeldahl (TKN)	0.51	mg/l	0.50	EPA 351.2 Rev 2.0	01/14/23		JMW
Phosphorus as P, Total	0.16	mg/l	0.01	SM 4500-P F	01/13/23		JMW
Solids, Total Suspended	5	mg/l	1	SM 2540 D	01/12/23		ENM

**Lab ID:** 2300210-03    **Collected By:** Client    **Sampled:** 01/10/23 10:05    **Received:** 01/10/23 13:40  
**Sample Desc:** Effluent (Grab)    **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	3	/100ml	2	SM 9222 D	1/10/23 16:46	1/11/23 15:28		RMB



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

**Preparation Methods**

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
<b>2300210-02</b>				
<b>General Chemistry</b>				
SM 4500-P F	SM 4500-P B	B3A0615	01/11/2023	JMW

**Notes and Definitions**

- C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.7 mg/L.
- C-37b The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.9mg/L.
- C-40a The Glucose-Glutamic Acid check was outside of the acceptable criteria of  $198 \pm 30.5$  mg/L at 240 mg/L.
- C-54a The difference between the highest and lowest results were greater than 30% at 31.5%.
- C-54c The difference between the highest and lowest results were greater than 30% at 50.5%.



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## M.J. Reider Associates, Inc.

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

# Certificate of Analysis

**Laboratory No.:** 2301084

**Report:** 01/23/23

**Lab Contact:** Bradley T Griffiths

**Attention:** Michael Barger  
**Reported To:** Veolia Middletown  
453 S. Lawrence St.  
Middletown, PA 17057

**Project Info:** Bi-Weekly Inf & Eff

**Lab ID:** 2301084-01    **Collected By:** Client  
**Sample Desc:** Influent (24Hr Composite)

**Sampled:** 01/11/23 07:37    **Received:** 01/11/23 14:44  
**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	268	mg/l	2.0	SM 5210 B	01/12/23 14:30	C-37, C-40a	LMW
Solids, Total Suspended	98	mg/l	1	SM 2540 D	01/16/23		ALD

**Lab ID:** 2301084-02    **Collected By:** Client  
**Sample Desc:** Effluent (24Hr Composite)

**Sampled:** 01/11/23 07:41    **Received:** 01/11/23 14:44  
**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.08	mg/l	0.02	EPA 350.1 Rev 2.0	01/16/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	01/12/23 15:13	C-37b, C-40	AMG
Nitrate as N	7.69	mg/l	1.00	EPA 300.0 Rev 2.1	01/11/23 22:05		JAF
Nitrite as N	0.18	mg/l	0.10	EPA 300.0 Rev 2.1	01/11/23 22:05		JAF
Nitrate+Nitrite as N	7.87	mg/l	1.10	CALCULATED	01/11/23 22:05		JAF
Nitrogen, Total	8.63	mg/l	1.60	CALCULATED	01/19/23 0:34		JMW
Nitrogen, Total Kjeldahl (TKN)	0.76	mg/l	0.50	EPA 351.2 Rev 2.0	01/19/23		JMW
Phosphorus as P, Total	0.12	mg/l	0.01	SM 4500-P F	01/16/23		JMW
Solids, Total Suspended	1	mg/l	1	SM 2540 D	01/17/23		ALD



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

**Lab ID:** 2301084-03      **Collected By:** Client      **Sampled:** 01/11/23 11:23      **Received:** 01/11/23 14:44  
**Sample Desc:** Effluent (Grab)      **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	300	/100ml	2	SM 9222 D	1/11/23 16:41	1/12/23 15:03		RMB

**Preparation Methods**

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
<b>2301084-02</b>				
<b>General Chemistry</b>				
SM 4500-P F	SM 4500-P B	B3A0858	01/16/2023	JMW

**Notes and Definitions**

- C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.7mg/L.
- C-37b The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 2.0mg/L.
- C-40 The Glucose-Glutamic Acid check was outside of the acceptable criteria of  $198 \pm 30.5$  mg/L at 251 mg/L.
- C-40a The Glucose-Glutamic Acid check was outside of the acceptable criteria of  $198 \pm 30.5$  mg/L at 252 mg/L.



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## M.J. Reider Associates, Inc.

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

# Certificate of Analysis

**Laboratory No.:** 2301366

**Report:** 01/30/23

**Lab Contact:** Bradley T Griffiths

**Attention:** Michael Barger  
**Reported To:** Veolia Middletown  
453 S. Lawrence St.  
Middletown, PA 17057

**Project Info:** Bi-Weekly Inf & Eff

**Lab ID:** 2301366-01 **Collected By:** Client  
**Sample Desc:** Influent (24Hr Composite)

**Sampled:** 01/17/23 07:45 **Received:** 01/17/23 14:03  
**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	289	mg/l	2.0	SM 5210 B	01/18/23 11:00	C-37c	RXN
Solids, Total Suspended	312	mg/l	1	SM 2540 D	01/19/23		ALD

**Lab ID:** 2301366-02 **Collected By:** Client  
**Sample Desc:** Effluent (24Hr Composite)

**Sampled:** 01/17/23 08:35 **Received:** 01/17/23 14:03  
**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	01/20/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	01/18/23 11:59	C-37a, C-40c	RXN
Nitrate as N	6.11	mg/l	1.00	EPA 300.0 Rev 2.1	01/17/23 20:38		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/17/23 20:38		JAF
Nitrate+Nitrite as N	<6.21	mg/l	1.10	CALCULATED	01/17/23 20:38		JAF
Nitrogen, Total	<6.96	mg/l	1.60	CALCULATED	01/20/23 18:54		NJG
Nitrogen, Total Kjeldahl (TKN)	0.75	mg/l	0.50	EPA 351.2 Rev 2.0	01/20/23		NJG
Phosphorus as P, Total	0.15	mg/l	0.01	SM 4500-P F	01/20/23		JMW
Solids, Total Suspended	6	mg/l	1	SM 2540 D	01/19/23		ALD



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

**Lab ID:** 2301366-03    **Collected By:** Client    **Sampled:** 01/17/23 10:32    **Received:** 01/17/23 14:03  
**Sample Desc:** Effluent (Grab)    **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	250	/100ml	2	SM 9222 D	1/17/23 16:43	1/18/23 15:21		NAK

**Preparation Methods**

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
<b>2301366-02</b>				
<b>General Chemistry</b>				
SM 4500-P F	SM 4500-P B	B3A1132	01/19/2023	JMW

**Notes and Definitions**

- C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.0mg/L.  
C-37c The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.4mg/L.  
C-40c The Glucose-Glutamic Acid check was outside of the acceptable criteria of  $198 \pm 30.5$  mg/L at 321 mg/L.



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## M.J. Reider Associates, Inc.

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

# Certificate of Analysis

**Laboratory No.:** 2250791

**Report:** 01/26/23

**Lab Contact:** Bradley T Griffiths

**Attention:** Michael Barger

**Reported To:** Veolia Middletown

453 S. Lawrence St.

Middletown, PA 17057

**Project Info:** Bi-Weekly Inf & Eff

**Lab ID:** 2250791-01

**Collected By:** Client

**Sampled:** 01/18/23 07:39

**Received:** 01/18/23 14:10

**Sample Desc:** Influent (24Hr Composite)

**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	204	mg/l	2.0	SM 5210 B	01/19/23 13:40	C-37b	KMS
Solids, Total Suspended	240	mg/l	1	SM 2540 D	01/20/23		ALD

**Lab ID:** 2250791-02

**Collected By:** Client

**Sampled:** 01/18/23 08:35

**Received:** 01/18/23 14:10

**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	01/20/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	01/19/23 16:00	C-37f, C-40	KMS
Nitrate as N	5.52	mg/l	1.00	EPA 300.0 Rev 2.1	01/19/23 4:39		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/19/23 4:39		JAF
Nitrate+Nitrite as N	<5.62	mg/l	1.10	CALCULATED	01/19/23 4:39		JAF
Nitrogen, Total	<6.22	mg/l	1.60	CALCULATED	01/21/23 1:59		NJG
Nitrogen, Total Kjeldahl (TKN)	0.60	mg/l	0.50	EPA 351.2 Rev 2.0	01/21/23		NJG
Phosphorus as P, Total	0.10	mg/l	0.01	SM 4500-P F	01/20/23		JMW
Solids, Total Suspended	3	mg/l	1	SM 2540 D	01/20/23		ALD



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

**Lab ID:** 2250791-03      **Collected By:** Client      **Sampled:** 01/18/23 10:06      **Received:** 01/18/23 14:10  
**Sample Desc:** Effluent (Grab)      **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	38	/100ml	2	SM 9222 D	1/18/23 16:11	1/19/23 14:49		RMB

**Preparation Methods**

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
<b>2250791-02</b>				
<b>General Chemistry</b>				
SM 4500-P F	SM 4500-P B	B3A1132	01/19/2023	JMW

**Notes and Definitions**

- C-37b The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.6 mg/L.  
C-37f The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 2.9 mg/L.  
C-40 The Glucose-Glutamic Acid check was outside of the acceptable criteria of  $198 \pm 30.5$  mg/L at 231 mg/L.



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## M.J. Reider Associates, Inc.

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

# Certificate of Analysis

**Laboratory No.:** 2302326

**Report:** 02/03/23

**Lab Contact:** Bradley T Griffiths

**Attention:** Michael Barger  
**Reported To:** Veolia Middletown  
453 S. Lawrence St.  
Middletown, PA 17057

**Project Info:** Bi-Weekly Inf & Eff

**Lab ID:** 2302326-01 **Collected By:** Client  
**Sample Desc:** Influent (24Hr Composite)

**Sampled:** 01/24/23 08:08 **Received:** 01/24/23 12:32  
**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	59.1	mg/l	2.0	SM 5210 B	01/25/23 17:00	C-37b	RXN
Solids, Total Suspended	64	mg/l	1	SM 2540 D	01/26/23		ALD

**Lab ID:** 2302326-02 **Collected By:** Client  
**Sample Desc:** Effluent (24Hr Composite)

**Sampled:** 01/24/23 07:44 **Received:** 01/24/23 12:32  
**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	01/25/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	01/25/23 18:34	C-37	RXN
Nitrate as N	6.07	mg/l	1.00	EPA 300.0 Rev 2.1	01/24/23 13:45		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/24/23 13:45		JAF
Nitrate+Nitrite as N	<6.17	mg/l	1.10	CALCULATED	01/24/23 13:45		JAF
Nitrogen, Total	<6.67	mg/l	1.60	CALCULATED	01/27/23 17:35		NJG
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	01/27/23		NJG
Phosphorus as P, Total	0.14	mg/l	0.01	SM 4500-P F	01/25/23		JMW
Solids, Total Suspended	3	mg/l	1	SM 2540 D	01/26/23		ALD



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

**Lab ID:** 2302326-03    **Collected By:** Client    **Sampled:** 01/24/23 09:28    **Received:** 01/24/23 12:32  
**Sample Desc:** Effluent (Grab)    **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	76	/100ml	2	SM 9222 D	1/24/23 16:28	1/25/23 15:00		RMB

**Preparation Methods**

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
<b>2302326-02</b>				
<b>General Chemistry</b>				
SM 4500-P F	SM 4500-P B	B3A1347	01/24/2023	JMW

**Notes and Definitions**

- C-37    The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.9mg/L.  
C-37b    The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.1 mg/L.



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## M.J. Reider Associates, Inc.

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

# Certificate of Analysis

**Laboratory No.:** 2303276

**Report:** 02/10/23

**Lab Contact:** Bradley T Griffiths

**Attention:** Michael Barger  
**Reported To:** Veolia Middletown  
453 S. Lawrence St.  
Middletown, PA 17057

**Project Info:** Bi-Weekly Inf & Eff

**Lab ID:** 2303276-01 **Collected By:** Client  
**Sample Desc:** Influent (24Hr Composite)

**Sampled:** 01/25/23 08:50 **Received:** 01/25/23 13:07  
**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	143	mg/l	2.0	SM 5210 B	01/26/23 14:15	C-37b	LMW
Solids, Total Suspended	170	mg/l	1	SM 2540 D	01/27/23		ALD

**Lab ID:** 2303276-02 **Collected By:** Client  
**Sample Desc:** Effluent (24Hr Composite)

**Sampled:** 01/25/23 09:05 **Received:** 01/25/23 13:07  
**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	02/07/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	01/26/23 16:30	C-37e	AMG
Nitrate as N	7.96	mg/l	1.00	EPA 300.0 Rev 2.1	01/25/23 14:41		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/25/23 14:41		JAF
Nitrate+Nitrite as N	<8.06	mg/l	1.10	CALCULATED	01/25/23 14:41		JAF
Nitrogen, Total	<8.77	mg/l	1.60	CALCULATED	01/30/23 15:24		NJG
Nitrogen, Total Kjeldahl (TKN)	0.71	mg/l	0.50	EPA 351.2 Rev 2.0	01/30/23		NJG
Phosphorus as P, Total	0.10	mg/l	0.01	SM 4500-P F	02/07/23		JMW
Solids, Total Suspended	2	mg/l	1	SM 2540 D	01/27/23		ALD



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

**Lab ID:** 2303276-03      **Collected By:** Client      **Sampled:** 01/25/23 09:05      **Received:** 01/25/23 13:07  
**Sample Desc:** Effluent (Grab)      **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	42	/100ml	2	SM 9222 D	1/25/23 14:26	1/26/23 14:37		RMB

**Preparation Methods**

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
<b>2303276-02</b>				
<b>General Chemistry</b>				
SM 4500-P F	SM 4500-P B	B3B0114	02/02/2023	JMW

**Notes and Definitions**

- C-37b The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.9 mg/L.  
C-37e The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.7 mg/L.



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## M.J. Reider Associates, Inc.

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

# Certificate of Analysis

**Laboratory No.:** 2303416

**Report:** 02/14/23

**Lab Contact:** Bradley T Griffiths

**Attention:** Michael Barger  
**Reported To:** Veolia Middletown  
453 S. Lawrence St.  
Middletown, PA 17057

**Project Info:** Bi-Weekly Inf & Eff

**Lab ID:** 2303416-01 **Collected By:** Client  
**Sample Desc:** Influent (24Hr Composite)

**Sampled:** 01/31/23 07:46 **Received:** 01/31/23 13:20  
**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	2660	mg/l	2.0	SM 5210 B	02/01/23 12:24	C-37b, C-40c	RXN
Solids, Total Suspended	3180	mg/l	1	SM 2540 D	02/02/23		ALD

**Lab ID:** 2303416-02 **Collected By:** Client  
**Sample Desc:** Effluent (24Hr Composite)

**Sampled:** 01/31/23 08:16 **Received:** 01/31/23 13:20  
**Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.52	mg/l	0.02	EPA 350.1 Rev 2.0	02/02/23		JMW
Carbonaceous Biochemical Oxygen Demand	2.2	mg/l	2.0	SM 5210 B	02/01/23 13:40	C-37c, C-40e, C-54a	RXN
Nitrate as N	9.25	mg/l	1.00	EPA 300.0 Rev 2.1	01/31/23 15:02		JAF
Nitrite as N	1.26	mg/l	0.10	EPA 300.0 Rev 2.1	01/31/23 15:02		JAF
Nitrate+Nitrite as N	10.51	mg/l	1.10	CALCULATED	01/31/23 15:02		JAF
Nitrogen, Total	12.19	mg/l	1.60	CALCULATED	02/02/23 13:51		JMW
Nitrogen, Total Kjeldahl (TKN)	1.68	mg/l	0.50	EPA 351.2 Rev 2.0	02/02/23		JMW
Phosphorus as P, Total	1.31	mg/l	0.01	SM 4500-P F	02/02/23		JMW
Solids, Total Suspended	3	mg/l	1	SM 2540 D	02/02/23		ALD



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

**Lab ID:** 2303416-03    **Collected By:** Client    **Sampled:** 01/31/23 10:46    **Received:** 01/31/23 13:20  
**Sample Desc:** Effluent (Grab)    **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	60	/100ml	2	SM 9222 D	1/31/23 16:10	2/1/23 14:58		RMB

**Preparation Methods**

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
<b>2303416-02</b>				
<b>General Chemistry</b>				
SM 4500-P F	SM 4500-P B	B3B0041	02/01/2023	JMW

**Notes and Definitions**

- C-37b The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.7 mg/L.
- C-37c The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.8 mg/L.
- C-40c The Glucose-Glutamic Acid check was outside of the acceptable criteria of  $198 \pm 30.5$  mg/L at 265 mg/L.
- C-40e The Glucose-Glutamic Acid check was outside of the acceptable criteria of  $198 \pm 30.5$  mg/L at 267 mg/L.
- C-54a The difference between the highest and lowest results were greater than 30% at 55.7%.



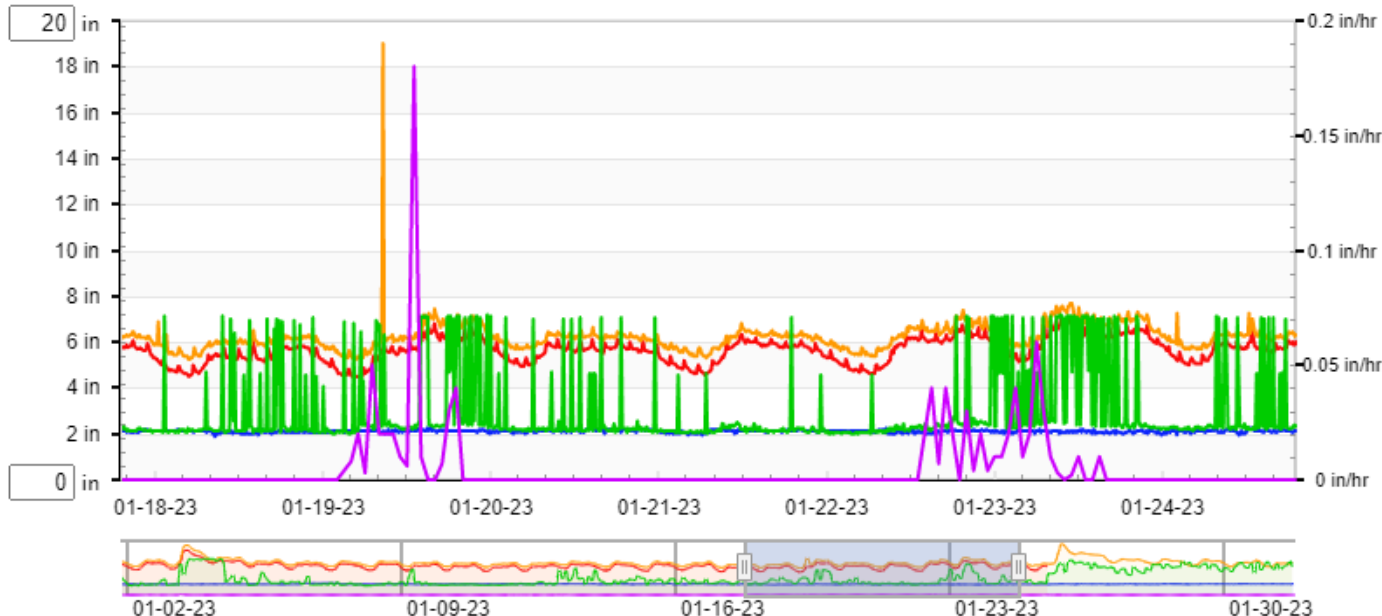
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Window 6h 24h 48h **1w** 1m 3m 6m All

2023-01-17 18:59 — 2023-01-24 18:59




Time Period Custom ▼

Date Range 2023-01-01 20:02 - 2023-01-31 20:02

Long Filter No Filter ▼

[Update Chart](#)

[Download Data](#) 

### Locations

<span style="color: blue;">●</span> 301-MH-332 ▼	Water Level above Bottom ▼	<span>+</span> <span>−</span>
<span style="color: green;">●</span> 301-MH-475A ▼	Water Level above Bottom ▼	<span>+</span> <span>−</span>
<span style="color: orange;">●</span> MH-286 ▼	Water Level above Bottom ▼	<span>+</span> <span>−</span>
<span style="color: red;">●</span> MH-290 ▼	Water Level above Bottom ▼	<span>+</span> <span>−</span>
<span style="color: purple;">●</span> [RAIN] Mill Street-Hoffer Park ▼	Rain ▼	<span>+</span> <span>−</span> Total: 0.85 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**

**January, 2023**

**Maximum Day** 1,083,306  
**Minimum Day** 800,627

**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	187,033	300,417			105,829	330,088	923,367	84,419
02	194,002	296,686			109,522	330,578	930,788	90,656
03	170,389	301,202			96,429	300,278	868,298	64,360
04	161,866	302,804			91,967	286,416	843,053	61,226
05	285,460	300,210			162,799	86,857	835,326	102,500
06	162,538	302,761			91,925	258,474	815,698	85,244
07	156,730	304,327			89,151	278,457	828,665	58,884
08	170,044	303,557			95,799	300,327	869,727	70,343
09	177,007	303,430			100,236	311,905	892,578	128,773
10	161,521	303,664			90,614	284,919	840,718	60,203
11	176,896	303,034			99,434	300,173	879,537	126,534
12	153,471	292,898			86,453	267,805	800,627	68,826
13	167,611	303,407			94,051	295,768	860,837	122,923
14	177,157	303,088			99,548	310,108	889,901	62,945
15	169,195	302,693			95,005	294,665	861,558	74,194
16	206,546	301,797			116,125	360,619	985,087	127,581
17	173,440	302,506			96,946	304,405	877,297	74,462
18	172,511	301,697			96,316	302,372	872,896	120,058
19	169,252	301,897			94,298	295,491	860,938	71,259
20	158,597	301,701			88,588	279,096	827,982	124,693
21	176,118	301,707			98,334	308,531	884,690	64,314
22	211,996	301,427			117,740	359,257	990,420	130,711
23	180,784	301,961			100,731	316,924	900,400	72,801
24	161,811	302,931			90,457	284,841	840,040	96,023
25	158,687	302,954			88,059	277,982	827,682	99,636
26	166,234	303,152			93,117	292,092	854,595	72,660
27	166,236	303,202			92,965	292,449	854,852	121,049
28	156,579	302,996			87,389	275,939	822,903	62,316
29	179,569	302,836			100,272	313,122	895,799	82,976
30	172,968	302,601			96,584	303,724	875,877	121,820
31	238,837	299,786			134,306	410,377	1,083,306	72,484
Totals:	5,521,085	9,359,329			3,100,989	9,214,039	27,195,442	2,776,873
Maximum	285,460	304,327			162,799	410,377	1,083,306	130,711
Minimum	153,471	292,898			86,453	86,857	800,627	58,884
Average	178,100	301,914			100,032	297,227	877,272	89,577

	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	
				DS-000: Contractual Weekly Distribution	pH	Temperature	Hardness	Alkalinity (CaCO3)	Calcium	Phosphorus, Total	Silicates	Iron, Total	Manganese, Total	TDS	Specific Conductance	Langlier Index	
3				Date	SU	Deg C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umhos/Cm2	LSI	
4																	
5	Jan	1 Sun															
6		2 Mon															
7		3 Tue		1-3-23	7.70	14.0	351.0	199.00	109.00	0.06	19.10	<0.02	<0.01	251.00	781.00	7.70	
8		4 Wed															
9		5 Thu															
10		6 Fri															
11		7 Sat															
12		8 Sun															
13		9 Mon															
14		10 Tue		1-10-23	7.70	20.0	327.0	203.00	102.00	0.05	22.40	<0.02	<0.01	321.00	727.00	7.70	
15		11 Wed															
16		12 Thu															
17		13 Fri															
18		14 Sat															
19		15 Sun															
20		16 Mon															
21		17 Tue		1-17-23	7.70	14.0	336.0	197.00	104.00	0.08	23.10	<0.02	<0.01	255.00	720.00	7.70	
22		18 Wed															
23		19 Thu															
24		20 Fri															
25		21 Sat															
26		22 Sun															
27		23 Mon															
28		24 Tue		1-24-23	7.60	14.0	327.0	200.00	102.00	0.06	22.30	<0.02	<0.01	256.00	759.00	7.60	
29		25 Wed															
30		26 Thu															
31		27 Fri															
32		28 Sat															
33		29 Sun															
34		30 Mon															
35		31 Tue		1-31-23	7.60	15.0	335.0	192.00	104.00	0.06	19.20	<0.02	<0.01	240.00	697.00	7.60	
37		MINIMUM		1-10-23	7.60	14.0	327.0	192.00	102.00	0.05	19.10	<0.02	<0.01	240.00	697.00	7.60	
38		MAXIMUM		1-3-23	7.70	20.0	351.0	203.00	109.00	0.08	23.10	<0.02	<0.01	321.00	781.00	7.70	
39		AVERAGE		1	7.66	15.4	335.2	198.20	104.20	0.06	21.22	<0.02	<0.01	264.60	736.80	3.39	
40		SUM		5	38.30	77.0	1,676.0	991.00	521.00	0.31	106.10	<0.10	<0.05	1,323.00	3,684.00	16.94	



## M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY  
PA DEP #06-00003

# Certificate of Analysis

**Laboratory No.:** 2250211

**Reported:** 01/18/23

**Lab Contact:** Christina M Kistler

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

**Project:** Jan,Mar,May,Jul,Sep,Nov. Week 1  
7220038

**Lab ID:** 2250211-01 **Collected By:** Client  
**Sample Desc:** 701 Middletown WWTP  
**Notes:**

**Sampled:** 01/03/23 09:15 **Received:** 01/03/23 12:30  
**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	1/3/23 13:25	1/4/23 13:31		NAK	N/A 1

**Lab ID:** 2250211-02 **Collected By:** Client  
**Sample Desc:** 703 North Union Street Booster Station  
**Notes:**

**Sampled:** 01/03/23 08:50 **Received:** 01/03/23 12:30  
**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	1/3/23 13:25	1/4/23 13:31		NAK	N/A 1

**Lab ID:** 2250211-03 **Collected By:** Client  
**Sample Desc:** 707 Main St & Catherine St. Hydrant  
**Notes:**

**Sampled:** 01/03/23 07:24 **Received:** 01/03/23 12:30  
**PADEP Type:** D-Distribution  
**PWSID:** 7220038 **Loc ID:** 707

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	1/3/23 13:25	1/4/23 13:31		NAK	N/A 1



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**M.J. Reider Associates, Inc.**107 Angelica St, Reading PA, 19611  
610-374-5129 www.mjreider.com**WORK ORDER  
Chain of Custody**

2250211



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 - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Client: Veolia Middletown

Project: Jan,Mar,May,Jul,Sep,Nov. Week 1

Collected By:

*Chris Hannan*

(Full Name)

Comments:

**2250211-01 701 Middletown WWTP**

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 1-3-23 0915

PA DEP Sample Type: D-Distribution  
A - Sterile PI 125ml NaThio

Loc ID: 701 110

**2250211-02 703 North Union Street Booster Station**

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 1-3-23 0850

PA DEP Sample Type: D-Distribution  
A - Sterile PI 125ml NaThio

Loc ID: 703 110

**2250211-03 707 Main St & Cathererine St. Hydrant**

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 1-3-23 0724

PA DEP Sample Type: D-Distribution  
A - Sterile PI 125ml NaThio

Loc ID: 707 111

*Fridge 0.4*

Relinquished By

Date/Time

1-3-23

0917

Received By

*Fridge*

Date/Time

1-3-23

0917

Relinquished By

Date/Time

Received By

Date/Time

1-3-23

0946

Relinquished By

Date/Time

Received at Laboratory By

Date/Time

1-3-23

1230

Sample Kit Prepared By:	Date/Time
<i>KLW</i>	
Sample Temp (°C):	1.0
Samples on Ice?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA
Approved By:	<i>KLW</i>
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.



## M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY  
PA DEP #06-00003

# Certificate of Analysis

**Laboratory No.:** 2250212

**Reported:** 01/18/23

**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:** 2250212-01 **Collected By:** Client  
**Sample Desc:** WWTP Lab Sink

**Sampled:** 01/03/23 09:17 **Received:** 01/03/23 12:30  
**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	199	mg CaCO <sub>3</sub> /L	2	SM 2320 B	01/04/23		APR	N/A N/A	
Total Hardness as CaCO <sub>3</sub>	351	mg/l	4.56	CALCULATED	01/05/23		HRG	N/A N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	01/11/23		JMW	N/A N/A	
Silica as SiO <sub>2</sub>	19.1	mg/l	2.14	CALCULATED	01/05/23		HRG	N/A N/A	
Conductivity	781	umhos/cm	1	SM 2510 B	01/05/23		LMW	N/A N/A	
Total Metals									
Calcium	109	mg/l	1	EPA 200.7 Rev 4.4	01/05/23		HRG	N/A N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	01/04/23		HRG	N/A 0.3	PASS
Magnesium	19.0	mg/l	0.5	EPA 200.7 Rev 4.4	01/05/23		HRG	N/A N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	01/07/23		MPB	N/A 0.05	PASS
Silicon	8.9	mg/l	1.0	EPA 200.7 Rev 4.4	01/05/23		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
<b>2250212-01</b>			
SM 4500-P F	SM 4500-P B	01/05/2023	NJG



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**WORK ORDER  
Chain of Custody****2250212**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 - Kelly Peters - 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:

*1-3-23 0917***2250212-01 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

*Fr 1000 0.6*  
*PH 7.7*  
*Temp 14*  
*TDS 251*  
*Cl 110*

*Chris Hannan*

Relinquished By

*1-3-23 0920*  
Date/Time*Fr 1000*

Received By

*1-3-23 0920*  
Date/Time

Relinquished By

Date/Time

Received By

*1-3-23 0945*  
Date/Time

Relinquished By

Date/Time

Received at Laboratory By

*1-3-23 1230*  
Date/Time

Sample Kit Prepared By: <i>RCW</i>	Date/Time
Sample Temp (°C): <i>1.8</i>	
Samples on Ice?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA
Approved By:	<i>[Signature]</i>
Entered By:	<i>[Signature]</i>



# M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY  
PA DEP #06-00003

# Certificate of Analysis

**Laboratory No.:** 2300212

**Reported:** 01/18/23

**Lab Contact:** Christina M Kistler

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

**Project:** Jan,Mar,May,Jul,Sep,Nov. Week 2  
7220038

**Lab ID:** 2300212-01 **Collected By:** Client  
**Sample Desc:** 704 Village of Pineford Office  
**Notes:**

**Sampled:** 01/10/23 08:30 **Received:** 01/10/23 13:40  
**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	1/10/23 17:18	1/11/23 11:18		NAK	N/A 1

**Lab ID:** 2300212-02 **Collected By:** Client  
**Sample Desc:** 703 Booster Station  
**Notes:**

**Sampled:** 01/10/23 08:16 **Received:** 01/10/23 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	1/10/23 16:34	1/11/23 11:18		NAK	N/A 1



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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 - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

## WORK ORDER Chain of Custody

Client: Veolia Middletown

Project: Jan,Mar,May,Jul,Sep,Nov. Week 2

2300212



PWSID: 7220038

Collected By :

(Full Name)

*Chris Hannan*

Comments:

*705 %s*

### 2300212-01 704 Village of Pineford Office

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time:

*1-10-23 0830*

PA DEP Sample Type: D-Distribution  
A - Sterile PI 125ml NaThio

Loc ID: 704

*69*

### 2300212-02 705 High Street Standpipe

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time:

*1-10-23 0814*

PA DEP Sample Type: D-Distribution  
A - Sterile PI 125ml NaThio

Loc ID: 705 703

*1.13*

*FRIDGE -0.5*

*Chris Hannan*

Relinquished By

*1-10-23 0845*  
Date/Time

*FRIDGE*  
Received By

*1-10-23 0845*  
Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Relinquished By

Date/Time

Received at Laboratory By

Date/Time

*1027*  
*JAN 10 2023*

*1340*  
*JAN 10 2023*

Sample Kit Prepared By:

Date/Time

Sample Temp (°C):

Samples on Ice?

Approved By:

Entered By:

*1.0*  
Yes No NA

*RCW*  
*KWD*

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.





## M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY  
PA DEP #06-00003

# Certificate of Analysis

**Laboratory No.:** 2300211

**Reported:** 01/19/23

**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:** 2300211-01 **Collected By:** Client  
**Sample Desc:** WWTP Lab Sink

**Sampled:** 01/10/23 08:48 **Received:** 01/10/23 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	203	mg CaCO <sub>3</sub> /L	2	SM 2320 B	01/11/23		APR	N/A N/A	
Total Hardness as CaCO <sub>3</sub>	327	mg/l	4.56	CALCULATED	01/11/23		HRG	N/A N/A	
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	01/13/23		JMW	N/A N/A	
Silica as SiO <sub>2</sub>	22.4	mg/l	2.14	CALCULATED	01/11/23		HRG	N/A N/A	
Conductivity	727	umhos/cm	1	SM 2510 B	01/16/23		RXN	N/A N/A	
Total Metals									
Calcium	102	mg/l	1	EPA 200.7 Rev 4.4	01/11/23		HRG	N/A N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	01/13/23		HRG	N/A 0.3	PASS
Magnesium	17.8	mg/l	0.5	EPA 200.7 Rev 4.4	01/11/23		HRG	N/A N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	01/11/23		MPB	N/A 0.05	PASS
Silicon	10.5	mg/l	1.0	EPA 200.7 Rev 4.4	01/11/23		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
<b>2300211-01</b>			
SM 4500-P F	SM 4500-P B	01/12/2023	JMW



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# M.J. Reider Associates, Inc.

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## WORK ORDER Chain of Custody

2300211



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 - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Client: Veolia Middletown

Project: DW-Weekly WWTP Water Lab Sink

Collected By :  
(Full Name)

*Chris Hannan*

Comments: \_\_\_\_\_

### 2300211-01 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, Si EPA 200.7, Sp Cond SM 2510B

Matrix: Drinking Water

Type: Grab

Date/Time: 1-10-23 0848

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

*FRZDGE -0.5  
PH 7.7  
TEMP 20  
TDS 321  
Ch2 0.54*

*Chris Hannan*

Relinquished By

1-10-23 0850

Date/Time

*FRZDGE*

Received By

*[Signature]*

1-10-23 0850

Date/Time

JAN 10 2023

Relinquished By

Date/Time

Received By

*[Signature]*

Date/Time

JAN 10 2023

Relinquished By

Date/Time

Received at Laboratory By

Date/Time

JAN 10 2023

1340

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):	1.0
Samples on Ice?	Yes No NA
Approved By:	<i>[Signature]</i>
Entered By:	<i>[Signature]</i>



## M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY  
PA DEP #06-00003

# Certificate of Analysis

**Laboratory No.:** 2301368

**Reported:** 01/25/23

**Lab Contact:** Christina M Kistler

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

**Project:** Jan,Mar,May,Jul,Sep,Nov. Week 3  
7220038

**Lab ID:** 2301368-01 **Collected By:** Client  
**Sample Desc:** 701 Middletown WWTP  
**Notes:**

**Sampled:** 01/17/23 08:46 **Received:** 01/17/23 14:03  
**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	1/17/23 16:30	1/18/23 12:07		RMB	N/A 1

**Lab ID:** 2301368-02 **Collected By:** Client  
**Sample Desc:** 703 North Union Street Booster Station  
**Notes:**

**Sampled:** 01/17/23 08:22 **Received:** 01/17/23 14:03  
**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	1/17/23 16:30	1/18/23 12:07		RMB	N/A 1

**Lab ID:** 2301368-03 **Collected By:** Client  
**Sample Desc:** 707 Main St & Catherine St. Hydrant  
**Notes:**

**Sampled:** 01/17/23 08:32 **Received:** 01/17/23 14:03  
**PADEP Type:** D-Distribution  
**PWSID:** 7220038 **Loc ID:** 707

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max
Microbiology									
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	1/17/23 16:30	1/18/23 12:07		RMB	N/A 1



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610-374-5129 www.mjreider.com

**WORK ORDER**  
**Chain of Custody**

2301368



PWSID: 7220038

Client Code: 4085  
Project Manager: Christina M Kistler

Client: Veolia Middletown  
Project: Jan,Mar,May,Jul,Sep,Nov. Week 3

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

Collected By :  
(Full Name)

*Chris Hannan*

Comments: \_\_\_\_\_

**2301368-01 701 Middletown WWTP**

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 1-17-23 0846

PA DEP Sample Type: D-Distribution  
A - Sterile PI 125ml NaThio

Loc ID: 701 1.08

**2301368-02 703 North Union Street Booster Station**

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 1-17-23 0822

PA DEP Sample Type: D-Distribution  
A - Sterile PI 125ml NaThio

Loc ID: 703 1.09

**2301368-03 707 Main St & Catherine St. Hydrant**

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time: 1-17-23 0832

PA DEP Sample Type: D-Distribution  
A - Sterile PI 125ml NaThio

Loc ID: 707 1.17

*FRIDGE 0.0*

*Chris Hannan*

Relinquished By

1-17-23 0846  
Date/Time

*FRIDGE*

Received By

1-17-23 0846  
Date/Time

Relinquished By

Date/Time

Received By

Date/Time

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):	<u>40</u>
Samples on Ice?	<u>Yes</u> No NA
Approved By:	<u>[Signature]</u>
Entered By:	



## M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY  
PA DEP #06-00003

# Certificate of Analysis

**Laboratory No.:** 2301367

**Reported:** 02/07/23

**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:** 2301367-01 **Collected By:** Client  
**Sample Desc:** WWTP Lab Sink

**Sampled:** 01/17/23 08:47 **Received:** 01/17/23 14:03  
**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	197	mg CaCO <sub>3</sub> /L	2	SM 2320 B	01/20/23		APR	N/A N/A	
Total Hardness as CaCO <sub>3</sub>	336	mg/l	4.56	CALCULATED	01/19/23		HRG	N/A N/A	
Phosphorus as P, Total	0.08	mg/l	0.01	SM 4500-P F	01/20/23		JMW	N/A N/A	
Silica as SiO <sub>2</sub>	23.1	mg/l	2.14	CALCULATED	01/25/23		HRG	N/A N/A	
Conductivity	720	umhos/cm	1	SM 2510 B	01/31/23		KMS	N/A N/A	
Total Metals									
Calcium	104	mg/l	1	EPA 200.7 Rev 4.4	01/19/23		HRG	N/A N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	01/18/23		HRG	N/A 0.3	PASS
Magnesium	18.4	mg/l	0.5	EPA 200.7 Rev 4.4	01/19/23		HRG	N/A N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	01/18/23		MPB	N/A 0.05	PASS
Silicon	10.8	mg/l	1.0	EPA 200.7 Rev 4.4	01/25/23		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
<b>2301367-01</b>			
SM 4500-P F	SM 4500-P B	01/19/2023	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

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 - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

**WORK ORDER**  
**Chain of Custody**

2301367



Client: Veolia Middletown

Project: DW-Weekly WWTP Water Lab Sink

Collected By: CHRIS HANNAN  
(Full Name)

Comments: \_\_\_\_\_

**2301367-01 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

Matrix: Drinking Water

Type: Grab

Date/Time: 1-17-23 0847

A - PI 500ml NP, minimal hdspc

B - PI 500ml HNO3

C - PI 500ml H2SO4

FRIDGE 0.0  
PH 7.7  
TEMP 14  
TDS 255  
CL2 1.08

CHRIS HANNAN

Relinquished By

1-17-23  
Date/Time0849FRIDGE

Received By

1-17-23  
Date/Time0849

Relinquished By

Date/Time

Received By

Date/Time

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.

Page 1 of 1

Printed: 1/10/2023 1:21:44PM

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	<u>4.0</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>[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.:** 2302328

**Reported:** 02/04/23

**Lab Contact:** Christina M Kistler

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

**Project:** Jan,Mar,May,Jul,Sep,Nov. Week 4  
7220038

**Lab ID:** 2302328-01 **Collected By:** Client  
**Sample Desc:** 704 Village of Pineford Office  
**Notes:**

**Sampled:** 01/24/23 09:32 **Received:** 01/24/23 12:32  
**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	1/24/23 14:17	1/25/23 10:13		RMB	N/A 1

**Lab ID:** 2302328-02 **Collected By:** Client  
**Sample Desc:** 701 WWTP  
**Notes:**

**Sampled:** 01/24/23 09:46 **Received:** 01/24/23 12:32  
**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	1/24/23 14:17	1/25/23 10:13		RMB	N/A 1



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Additional accreditations by MD (261), NY(12094)

**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 - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

**WORK ORDER**  
**Chain of Custody**

2302328



PWSID: 7220038

Collected By:

(Full Name)

CHRIS HANNAN

Comments:

705 0/s

**2302328-01 704 Village of Pineford Office**

TC (P/A) SM 9223B

Matrix: Drinking Water

Type: Grab

Date/Time:

1-24-23 0932

PA DEP Sample Type: D-Distribution  
A - Sterile PI 125ml NaThio

Loc ID: 704 91

**2302328-02 705 High Street Standpipe**

TC (P/A) SM 9223B

701 WWTP

Matrix: Drinking Water

Type: Grab

Date/Time:

1-24-23 0946

PA DEP Sample Type: D-Distribution  
A - Sterile PI 125ml NaThioLoc ID: 705 701  
107

FRIDGE - 0.1

CHRIS HANNAN

Relinquished By

1-24-23 0947

Date/Time

FRIDGE

Received By

1-24-23 0947

Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Relinquished By

Date/Time

Received at Laboratory By

Date/Time

JAN 24 2023

JAN 24 2023

1232

Sample Kit Prepared By:

Date/Time

Sample Temp (°C):

-1.0 WP

Samples on Ice?

Yes No NA

Approved By:

Entered By:

VME/S

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.





## M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY  
PA DEP #06-00003

# Certificate of Analysis

**Laboratory No.:** 2302327

**Reported:** 02/07/23

**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:** 2302327-01 **Collected By:** Client  
**Sample Desc:** WWTP Lab Sink

**Sampled:** 01/24/23 09:47 **Received:** 01/24/23 12:32  
**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	200	mg CaCO <sub>3</sub> /L	2	SM 2320 B	01/27/23		APR	N/A N/A	
Total Hardness as CaCO <sub>3</sub>	327	mg/l	4.56	CALCULATED	01/25/23		HRG	N/A N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	01/26/23		JMW	N/A N/A	
Silica as SiO <sub>2</sub>	22.3	mg/l	2.14	CALCULATED	01/25/23		HRG	N/A N/A	
Conductivity	759	umhos/cm	1	SM 2510 B	01/31/23		KMS	N/A N/A	
Total Metals									
Calcium	102	mg/l	1	EPA 200.7 Rev 4.4	01/25/23		HRG	N/A N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	01/25/23		HRG	N/A 0.3	PASS
Magnesium	17.5	mg/l	0.5	EPA 200.7 Rev 4.4	01/25/23		HRG	N/A N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	01/25/23		MPB	N/A 0.05	PASS
Silicon	10.4	mg/l	1.0	EPA 200.7 Rev 4.4	01/25/23		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
<b>2302327-01</b>			
SM 4500-P F	SM 4500-P B	01/25/2023	EAK



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# M.J. Reider Associates, Inc.

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610-374-5129 www.mjreider.com

## WORK ORDER Chain of Custody

2302327



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 - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Client: Veolia Middletown

Project: DW-Weekly WWTP Water Lab Sink

Collected By:

(Full Name)

CHRIS HANNAN

Comments:

### 2302327-01 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

Matrix: Drinking Water

Type: Grab

Date/Time: 1-24-23 0947

A - PI 500ml NP, minimal hdspc

B - PI 500ml HNO3

C - PI 500ml H2SO4

FROGE -0.1

PH 7.6

TEMP 14

TDS

Ch2 1.07

CHRIS HANNAN

Relinquished By

1-24-23 0949

Date/Time

CHRIS HANNAN

Received By

1-24-23 0949

Date/Time

JAN 24 2023

Relinquished By

Date/Time

Received By

Date/Time

JAN 24 2023

1232

Relinquished By

Date/Time

Received at Laboratory By

Date/Time

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Page 1 of 1

Printed: 1/17/2023 2:42:54PM

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	-1.0 ND
Samples on Ice?	Yes No NA
Approved By:	CHRIS HANNAN
Entered By:	JMS/KS

Report Template

Page 2 of 3



## M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY  
PA DEP #06-00003

# Certificate of Analysis

**Laboratory No.:** 2303417

**Reported:** 02/16/23

**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:** 2303417-01 **Collected By:** Client  
**Sample Desc:** WWTP Lab Sink

**Sampled:** 01/31/23 08:39 **Received:** 01/31/23 13:20  
**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 <sub>3</sub> /L	2	SM 2320 B	02/02/23		APR	N/A N/A	
Total Hardness as CaCO <sub>3</sub>	335	mg/l	4.56	CALCULATED	02/02/23		HRG	N/A N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	02/03/23		JMW	N/A N/A	
Silica as SiO <sub>2</sub>	19.2	mg/l	2.14	CALCULATED	02/01/23		HRG	N/A N/A	
Conductivity	697	umhos/cm	1	SM 2510 B	02/14/23		LMW	N/A N/A	
Total Metals									
Calcium	104	mg/l	1	EPA 200.7 Rev 4.4	02/02/23		HRG	N/A N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	02/01/23		HRG	N/A 0.3	PASS
Magnesium	18.3	mg/l	0.5	EPA 200.7 Rev 4.4	02/02/23		HRG	N/A N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	02/01/23		MPB	N/A 0.05	PASS
Silicon	9.0	mg/l	1.0	EPA 200.7 Rev 4.4	02/01/23		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

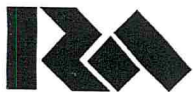
Specific Method	Preparation Method	Prepared Date	Prepared By
<b>2303417-01</b>			
SM 4500-P F	SM 4500-P B	02/01/2023	JMW



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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

2303417



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 - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Client: Veolia Middletown

Project: DW-Weekly WWTP Water Lab Sink

Collected By :  
(Full Name)

CHRIS HANNAN

Comments: \_\_\_\_\_

### 2303417-01 WWTP Lab Sink

Matrix: Drinking Water

Type: Grab

Date/Time: 1-31-23 0839

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 hdspe  
B - PI 500ml HNO3  
C - PI 500ml H2SO4

FRIDGE 0.0  
PH 7.4  
TEMP 15  
TDS 240  
CL2 1.03

CHRIS HANNAN

Relinquished By

1-31-23 0842

Date/Time

FRIDGE [Signature]

Received By

1-31-23 0842

Date/Time

1103

Relinquished By

Date/Time

Received By

Date/Time

Relinquished By

Date/Time

Received at Laboratory By

Date/Time

IAN 31 2023

1320

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):	0.6
Samples on Ice?	Yes No NA
Approved By:	[Signature]
Entered By:	[Signature]



Webb, Kodi &lt;kodi.webb@veolia.com&gt;

## File Uploaded Successfully by HANNANJ

6 messages

**ra-padwis@state.pa.us** <ra-padwis@state.pa.us>

Mon, Feb 6, 2023 at 12:17 PM

To: kodi.webb@veolia.com, james.hannan@suez.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 (10).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@state.pa.us** <ra-padwis@state.pa.us>

Mon, Feb 6, 2023 at 12:18 PM

To: kodi.webb@veolia.com, james.hannan@suez.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 (10).xls	HANNANJ	HANNANJ_32 through HANNANJ_62

[Quoted text hidden]

**ra-padwis@state.pa.us** <ra-padwis@state.pa.us>

Mon, Feb 6, 2023 at 12:18 PM

To: kodi.webb@veolia.com, james.hannan@suez.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 (10).xls	HANNANJ	HANNANJ_63 through HANNANJ_93

[Quoted text hidden]

**ra-padwis@state.pa.us** <ra-padwis@state.pa.us>

Mon, Feb 6, 2023 at 12:19 PM

To: kodi.webb@veolia.com, james.hannan@suez.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 (10).xls	HANNANJ	HANNANJ_94 through HANNANJ_124

[Quoted text hidden]

**ra-padwis@state.pa.us** <ra-padwis@state.pa.us>

Mon, Feb 6, 2023 at 12:19 PM

To: kodi.webb@veolia.com, james.hannan@suez.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 (10).xls	HANNANJ	HANNANJ_125 through HANNANJ_155

[Quoted text hidden]

**ra-padwis@state.pa.us** <ra-padwis@state.pa.us>

Mon, Feb 6, 2023 at 12:20 PM

To: kodi.webb@veolia.com, james.hannan@suez.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 (11).xls	HANNANJ	HANNANJ_156 through HANNANJ_186

[Quoted text hidden]



Webb, Kodi &lt;kodi.webb@veolia.com&gt;

## Data Added Successfully by HANNANJ

1 message

ra-padwis@state.pa.us &lt;ra-padwis@state.pa.us&gt;

Mon, Feb 6, 2023 at 12:26 PM

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

HANNANJ successfully added data to DWELR on 02/06/23 at 0:32 PM. Form: SDWA1.

Form Type	User	LabID	PWSID	ContamID	Pre_ID	Loc_Epid	Sample Date
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_187	701	010323
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_188	703	010323
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_189	707	010323
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_190	704	011023
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_191	703	011023
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_192	701	011723
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_193	703	011723
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_194	707	011723
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_195	704	012423
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_196	701	012423
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_197	706	013123

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.



Webb, Kodi &lt;kodi.webb@veolia.com&gt;

---

## SRBC Monitoring Data Website - Reports Complete for Middletown, Borough of-SUEZ/Middletown Water System

1 message

---

**compliance@srbc.net** <compliance@srbc.net>

Wed, Jan 11, 2023 at 5:35 PM

To: James.Hannan@veolia.com, kodi.webb@veolia.com, michael.barger@veolia.com

**Thank you for using the SRBC Monitoring Data Website.**

SUEZ/Middletown Water System data has been received for the Reporting Period 10/01/2022 - 12/31/2022 for the following:

Source	Approval #
Well 5	19890701
Well 6	19970702
Well 2	20201207
Well 3	20201207
Well 4	20201207
Well 1	20201207
<b>Passby Sources</b>	
[PASSBYQUERY]	

If you have any questions regarding this email, please contact SRBC at 717-238-0423.



# **MIDDLETOWN MONTHLY REPORT**

## **APPENDIX 4**

### **WATER MAIN LEAK LOGS**

**APPENDIX 5**

**QUARTERLY METER TEST AND CALIBRATION  
REPORTS**

Tri-Star Inc.

300 Vine Street  
Middletown, PA 17057 US  
dawn@tri-star-inc.net  
tri-star-inc.net

Packing Slip

BILL TO  
VEOLIA/ MIDDLETOWN WATER  
453 S. LAWRENCE STREET  
MIDDLETOWN, PA 17057

INVOICE 1219  
DATE 01/09/2023

ATTN  
KODI WEBB/CHRIS HANNON

REFERENCE  
VERBAL

DATE	SERVICE	DESCRIPTION	QTY
01/06/2023	Preventive Services	FOR THE QUARTERLY PREVENTIVE SERVICE VISIT FOR Q1 ON 01/05 & 01/06/23. COPY OF SERVICE REPORTS ENCLOSED.	1
01/09/2023		THANK YOU FOR USING TRI-STAR!	



# Tri-Star Inc.

Instrumentation - Control - SCADA

INVOICE NO: 1219 ORDER NO: VERBAL ES: ☐ RS: 12

CONTRACT NO:                      JOB NO:                      ☐ COMP. ☐ INC.

CUSTOMER: SUEZ/MIDDLETOWN WATER & SEWER Mileage: 60

REPRESENTATIVE: STEVE SUMMY

DATE: Q1-01/05 & 01/06/23

DESCRIPTION: TITLE: QUARTERLY PREVENTIVE SERVICE

REPORT FOR THE FOLLOWING QUARTERLY PREVENTIVE & CALIBRATION SERVICE ON EQUIPMENT LISTED ON ATTACHED "LIST OF COVERED EQUIPMENT" CHECKLISTS. ALL HAVE BEEN INSPECTED & CALIBRATED AS REQUIRED. SEE BELOW FOR NOTES IN REFERENCE TO NOTE #'S ON CHECKLIST.

NOTE #: COMMENTS:

#1- ZEROED METER/TOTALIZER.

#2- SERVICE PERFORMED IN OCTOBER AND APRIL.

#3- TEMPORARILY OUT OF SERVICE.

#4- LEVEL IS STILL INTERMITTENTLY INCORRECT. CHRIS CORRECTS THIS BY POWER TOGGING. I INSTALLED A POWER SUPPLY FOR THE TRANSMITTER AND THE ISOLATOR POWER (ELIMINATING THE POWER SUPPLY IN THE PRECISION DIGITAL). THIS FIXED THE ISSUE.

#5- INACCURATE READING WILL OCCUR WHEN FLOW RATE GOES ABOVE "V" NOTCH'S. CUSTOMER IS IN PROGRESS OF LOOKING INTO A REPLACEMENT WEIR.

NOTE: WELL 6 TREATMENT:

ASSISTED CHRIS WITH SWAPPING OUT THE CHLORINE ANALYZER AND CONTROLLER. APPROXIMATELY A HOUR AFTER THAT HE RECIEVED A LOW LEVEL ALARM AND A WELL SHUT DOWN. ON TREND CHLORINE WAS SPIKING DOWNWARD INTERMITTANTLY. NOT KNOWING WHICH UNIT COULD BE CAUSING THIS, WE DECIDED TO REPLACE THE CL17SC WITH THEIR OTHER SPARE. CHRIS FOUND A HOLE IN ONE OF THE PUMP TUBING ON THE NEW UNIT AND USED THE SPARE PUMP KIT TO REPAIR. THEY WILL SEND THE ORIGINAL ANALYZER BACK FOR WARRANTY REPAIR.

DUE BY DATE: 04/30/23

CALIBRATION UNITS USED: PLC TOOLS SIM-ALP2, S/N 35333, TPI 635 MANOMETER  
S/N 1271024000, STICK RULER & ISCO FLOWTABLE BOOK

## TRI-STAR, INC.

MIDDLETOWN WATER AND SEWER  
LIST OF COVERED EQUIPMENT  
DATE - JANUARY Q1 VISIT

REV. 10 10/21  
CHECKED BY STEVE SUMMY

LEGEND: X = CHECKED OK  
# = REF. SERVICE REPORT

SERVICE TECH  
AUDIT DAWN BAUMBACH

NOTE #	ISO	CO. #	LOCATION	MFG.	SERIAL NO.	MODEL NO.	RANGE	MFG./CAL. PROC. #	DATE -01/09/23
			WELL # 1						ACCURACY
#1			FLOW	TOSHIBA	19620A525	LF620F/GF6300	0-1500 GPM		
X			LEVEL- 215' (93.11PSI)	ENDRESS & HAUSER	S600B115128	PMC51	SCALER 215'		
X			RTU PANEL						
			WELL # 2						
			FLOW	ROSEMOUNT	1638038	1151 SMART			
#1			LEVEL- 308' (133.4 PSI)	ENDRESS & HAUSER	92000615020	PMC41-RC11P6A21N1	0-350 GPM (0-72.38")		
X			RTU PANEL				SCALER 346'		
X									
			WELL #1&2 CHEM BLDG						
			CL2 ANALYZER	HACH	182070018902	CL17			
#2									
			WELL # 3						
			FLOW	TOSHIBA	17820A358	LF620F/GF6300			
#1			LEVEL- 304' (131.7PSI)	ENDRESS & HAUSER	92000515020	PMC41-RC11P6A21N1	0-100 GPM		
X			RTU PANEL				SCALER 346'		
X									
			WELL # 4						
			FLOW	TOSHIBA	17620A177	LF620F/GF630			
#3			LEVEL- 400' (173.2 PSI)	ROSEMOUNT	0326Y10	2088	0-200 GPM 4" MAG		
X			RTU PANEL				SCALER 400'		
X									
			TURNPIKE TANK						
			LEVEL-0-48 FT (20.7 PSI)	ENDRESS & HAUSER					
#3									
			WELL # 5						
			FLOW	TOSHIBA	17620A704	LF620F/GF6300			
#1			LEVEL- 290'	DREXELBROOK	54378	408-6332-1	0-300 GPM		
X			RTU PANEL				SCALER 300'		
X									

## TRI-STAR, INC.

MIDDLETOWN WATER AND SEWER  
LIST OF COVERED EQUIPMENT  
DATE JANUARY Q1 VISIT  
QUARTERLY

REV. 10 10/21

LEGEND: X = CHECKED OK  
# = REF. SERVICE REPORT  
CHECKED BY STEVE SUMMY

NOTE #	ISO	CO. #	LOCATION	MFG.	SERIAL NO.	MODEL NO.	RANGE	MFG./CAL. PROC. #	ACCURACY
			WELL # 6						
X			FLOW	PRECISION DGTL	2006-0336315	PD6000-6R0	0-1500 GPM (4/20)		
#4			LEVEL- 220'	SIGMA			0-220'		
X			LEVEL INDICATOR	PRECISION DGTL	0912-0002082	PD6000-6R3	0-220' OUTPUT 0-220'		
			WELL #6 TREATMENT						
X			FLOW (WELL)	SENSUS	1104A-S-66123D	ACTPAK	0-1600 GPM		
#1			FLOW (FINISHED WATER)	TOSHIBA	20620A389	LF620F/GF6300	0-1000 GPM		
X			SUMP LEVEL	DREXELBROOK	28223	408-8200	SCALER 480"		
X			RTU PANEL						
			BOOSTER PUMP STA.						
X			FLOW	ROSEMOUNT	1638037	1151 SMART	0-400 GPM (0-27.86")		
X			RTU PANEL						
			HIGH ST. TANK						
#3			LEVEL	ROSEMOUNT		1151			
#3			RTU PANEL						
			UNION STAND PIPE						
X			LEVEL	ROSEMOUNT	1655785	1151 SMART	5'-105' (4/20)		
X			RTU PANEL						
X			WWTP OFFICE	MAIN SCADA					



**TRI-STAR INC.**  
**300 VINE STREET**  
**MIDDLETOWN, PA 17057**

# **CERTIFICATE OF CALIBRATION**

TO VEOLIA-MIDDLETOWN WATER  
453 S. LAWRENCE STREET  
MIDDLETOWN, PA 1705

Reference to TRI-STAR Job number SERVICE REPORT DATED 01/05 & 01/06/23 FOR  
THE QUARTERLY PREVENTIVE SERVICE VISIT AT THE WATER PLANT SITES

TRI-STAR's calibration instrument M/N OMEGA CL27 S/N T.312015  
THERMO ELECTRIC M/N 311800001 S/N 60110A-3-1, TPI M/N 635 S/N 1271024000

is traceable to the National Institute Standards Technology

Certified by PRECISE TECHNICAL SOLUTIONS, LLC

Report No. 209567, 209642 Date 02/21/22 & 02/22/22

Code Ref: NONE

Next Certificate of Calibration due: APRIL 30, 2023

Approved for TRI-STAR Inc.

by Steve Summy

title SERVICE TECH

date January 9, 2023

Steve Summy / JS  
Authorized Signature





# Calibration Certificate

7839 Allentown Blvd., Suite 300  
Harrisburg, PA 17112  
Phone 1-855-872-3166 Fax 717-545-5077  
[www.PreciseCalibrations.com](http://www.PreciseCalibrations.com)

Calibration Certificate No.: 209642

**Customer Name:**  
TRI-STAR, INC  
300 VINE STREET

**Instrument ID:** 1271024000-1634

MIDDLETOWN, PA 17057



**Manufacturer:** TPI  
**Model Number:** 635  
**Serial Number:** 1271024000  
**Description:** MANOMETER  
**Department:** MAIN (1634)  
**Location:** N/A  
**Temperature:** 68.7 °F  
**Humidity:** 45 %  
**Accuracy:** SEE CALIBRATION DATA SHEET

**Procedure:** QI-101  
**Calibration Location:** IN HOUSE  
**Received Condition:** IN TOLERANCE  
**Returned Condition:** IN TOLERANCE  
**Interval:** 12 MONTHS  
**Date Received:** 18-Feb-22  
**Date Calibrated:** 22-Feb-22  
**Date Due:** 22-Feb-23  
**Technician:** JSKOCZYNSKI

This instrument has been calibrated in accordance with the Precise Technical Solution's quality system. The standards used in this testing are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST). This report may not be reproduced, except in full, without the written approval of Precise Technical Solutions LLC.

## Remarks

None.

2/24/22  
10. Baumbach

## Reference Standards

Reference Standard	Manufacturer	Model	Traceability No.	Cal. Due Date
PTS-412	FLUKE	6270A	204462	30-Nov-23





# Calibration Certificate

Calibration Certificate No.: 209642

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Harrisburg, PA 17112  
Phone 1-855-872-3166 Fax 717-545-5077  
[www.PreciseCalibrations.com](http://www.PreciseCalibrations.com)

Customer Name:  
TRI-STAR, INC  
300 VINE STREET

Instrument ID: 1271024000-1634

MIDDLETOWN, PA 17057

## Calibration Data

Description	Standard	Units	Tolerance -	Tolerance +	As Found	P/F	As Left	P/F	Deviation
Pressure	5.000	inAq	4.900	5.100	4.95	P	4.95	P	-0.050
	10.000	inAq	9.900	10.100	9.95	P	9.95	P	-0.050
	15.000	inAq	14.900	15.100	14.94	P	14.94	P	-0.060
	20.000	inAq	19.900	20.100	19.93	P	19.93	P	-0.070

Approved By:

Josh Skoczynski  
CALIBRATION TECHNICIAN

22-Feb-22

10:33 AM

----- End of Report -----



# Calibration Certificate

Calibration Certificate No.: 209567

7839 Allentown Blvd., Suite 300  
Harrisburg, PA 17112  
Phone 1-855-872-3166 Fax 717-545-5077  
[www.PreciseCalibrations.com](http://www.PreciseCalibrations.com)

**Customer Name:**  
TRI-STAR, INC  
300 VINE STREET

**Instrument ID:** 60110A-3-1-1634

MIDDLETOWN, PA 17057



**Manufacturer:** THERMO ELECTRIC  
**Model Number:** 311800001  
**Serial Number:** 60110A3-1  
**Description:** THERMOCOUPLE CALIBRATOR  
**Department:** MAIN (1634)  
**Location:** N/A  
**Temperature:** 68.7 °F  
**Humidity:** 45 %  
**Accuracy:** SEE CALIBRATION DATA SHEET

**Procedure:** QI-114  
**Calibration Location:** IN HOUSE  
**Received Condition:** IN TOLERANCE  
**Returned Condition:** IN TOLERANCE  
**Interval:** 12 MONTHS  
**Date Received:** 18-Feb-22  
**Date Calibrated:** 21-Feb-22  
**Date Due:** 21-Feb-23  
**Technician:** JSKOCZYNSKI

This instrument has been calibrated in accordance with the Precise Technical Solution's quality system. The standards used in this testing are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST). This report may not be reproduced, except in full, without the written approval of Precise Technical Solutions LLC.

## Remarks

None.

2/24/22  
W. Bunk

## Reference Standards

Reference Standard	Manufacturer	Model	Traceability No.	Cal. Due Date
PTS-314	HEWLETT PACKARD	3458A	201600007421	31-Jan-23
PTS-380	FLUKE	5520A / 600 MHZ	270899	31-Mar-22



# Calibration Certificate

Calibration Certificate No.: 209567

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Harrisburg, PA 17112  
Phone 1-855-872-3166 Fax 717-545-5077  
[www.PreciseCalibrations.com](http://www.PreciseCalibrations.com)

**Customer Name:**  
TRI-STAR, INC  
300 VINE STREET

**Instrument ID:** 60110A-3-1-1634

MIDDLETOWN, PA 17057

## Calibration Data

Description	Standard	Units	Tolerance -	Tolerance +	As Found	P/F	As Left	P/F	Deviation
Thermocouple input 1 K-type	50.000	°C	49.500	50.500	50.1	P	50.1	P	0.100
	100.000	°C	99.500	100.500	99.7	P	99.7	P	-0.300
	150.000	°C	149.500	150.500	149.8	P	149.8	P	-0.200
	200.000	°C	199.500	200.500	199.8	P	199.8	P	-0.200
Thermocouple input 2 K-type	50.000	°C	49.500	50.500	49.6	P	49.6	P	-0.400
	100.000	°C	99.500	100.500	99.6	P	99.6	P	-0.400
	150.000	°C	149.500	150.500	149.6	P	149.6	P	-0.400
	200.000	°C	199.500	200.500	199.5	P	199.5	P	-0.500
D.C Voltage input	2.000	V	1.500	2.500	2.00	P	2.00	P	0.000
	4.000	V	3.500	4.500	4.00	P	4.00	P	0.000
	6.000	V	5.500	6.500	6.00	P	6.00	P	0.000
	8.000	V	7.500	8.500	8.00	P	8.00	P	0.000
	10.000	V	9.500	10.500	10.00	P	10.00	P	0.000
D.C mA input	10.000	mA	9.200	10.800	10.02	P	10.02	P	0.020
	20.000	mA	19.200	20.800	20.03	P	20.03	P	0.030
	30.000	mA	29.200	30.800	30.04	P	30.04	P	0.040
	40.000	mA	39.200	40.800	40.06	P	40.06	P	0.060
3 Wire RTD input	50.000	mA	49.200	50.800	50.07	P	50.07	P	0.070
	10.000	°C	9.600	10.400	10.00	P	10.00	P	0.000
	50.000	°C	49.600	50.400	50.00	P	50.00	P	0.000
4 Wire RTD input	100.000	°C	99.600	100.400	99.90	P	99.90	P	-0.100
	10.000	°C	9.600	10.400	9.90	P	9.90	P	-0.100
	50.000	°C	49.600	50.400	50.40	P	50.40	P	0.400
	100.000	°C	99.600	100.400	100.00	P	100.00	P	0.000
RTD output module 0°C@100Ohms	100.000	Ohms	99.900	100.100	100.00	P	100.00	P	0.000
51.565°C @ 120Ohms	120.000	Ohms	119.900	120.100	120.02	P	120.02	P	0.020
103.943°C @ 140Ohms	140.000	Ohms	139.900	140.100	139.99	P	139.99	P	-0.010



## *Calibration Certificate*

**Calibration Certificate No.: 209567**

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Harrisburg, PA 17112  
Phone 1-855-872-3166 Fax 717-545-5077  
[www.PreciseCalibrations.com](http://www.PreciseCalibrations.com)

**Customer Name:**

TRI-STAR, INC  
300 VINE STREET

MIDDLETOWN, PA 17057

**Instrument ID: 60110A-3-1-1634**

---

**Approved By:**

A handwritten signature in black ink, appearing to read "Josh Skoczynski".

Josh Skoczynski  
CALIBRATION TECHNICIAN

21-Feb-22

2:23 PM

----- **End of Report** -----

TECH: 

# MONTHLY TEST METER CALIBRATION

DATE: 12/23/22

AUDIT: D. Baulch TESTED AGAINST

DATE: 12/23/22 SHOP STANDARD

A: NEWPORT HHCT-2 S/N T.141388

B: TRANSMATION 1045 S/N B75174

C: OMEGA CL27 S/N T.312015

D: PLC TOOLS SIM-ALP2 S/N 35333

SEE REVERSE SIDE OF SHEET

SEE REVERSE SIDE OF SHEET

SEE REVERSE SIDE OF SHEET

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THERMOELECTRIC ULTRAMITE

METER	RANGE	TP #1	DEV.	TP #2	DEV.	TP #3	DEV.	TP #4	DEV.	TP #5	DEV.	CHECKED BY	COMMENTS
A	J	0	0	50	0	200	0	500	0	900	0	Steve Sumner	WITHIN TOLERANCES
A	K	50	0	500	0	1000	0	1500	0	2000	0	"	"
A	T	-100	0	-50	0	0	0	50	0	100	0	"	"
B	MV IN	0	0	1	0	5	0	10	0	20	0	"	"
B	50V IN	0	0	5	0	20	0	30	0	40	0	"	"
B	10V IN	0	0	1	0	3	0	5	0	7	0	"	"
B	MV OUT	0	0	1	0	5	0	10	0	20	0	"	"
B	V OUT	0	0	1	0	3	0	7	0	9	0	"	"
C	RTD	0	0	50	0	100	0	150	0	200	0	"	"
C	RTD	250	0	300	0	350	0	400	0	450	0	"	"
C	J	0	0	50	0	200	0	500	0	900	0	"	"
C	K	50	0	500	0	1000	0	1500	0	2000	0	"	"
C	S	100	0	1000	0	2450	0	2700	0	3050	0	"	* 48 STD
C	T	-100	0	-50	0	0	0	-50	0	-100	0	"	"
D	V OUT	0	0	1	0	3	0	7	0	9	0	"	"
D	MA OUT	4	0	8	0	12	0	16	0	20	0	"	"

MTMC-1

REV. 8 05/21





**TRI-STAR INC.**  
**300 VINE STREET**  
**MIDDLETOWN, PA 17057**

# CERTIFICATE OF CALIBRATION

TO VELIOA-MIDDLETOWN WATER  
453 S. LAWRENCE STREET  
MIDDLETOWN, PA 1705

Reference to TRI-STAR Job number SERVICE REPORT DATED 01/05 & 01/06/23 FOR  
THE QUARTERLY PREVENTIVE SERVICE VISIT AT THE WWTP

TRI-STAR's calibration instrument M/N OMEGA CL27 S/N T.312015  
THERMO ELECTRIC M/N 311800001 S/N 60110A-3-1

is traceable to the National Institute Standards Technology

Certified by PRECISE TECHNICAL SOLUTIONS, LLC

Report No. 209567 Date 02/21/2022

Code Ref: NONE

Next Certificate of Calibration due: APRIL 30, 2023

Approved for TRI-STAR Inc.

by Steve Summy

title SERVICE TECH

date January 9, 2023

Steve Summy 1/9/23  
Authorized Signature





# Calibration Certificate

Calibration Certificate No.: 209567

7839 Allentown Blvd., Suite 300  
Harrisburg, PA 17112  
Phone 1-855-872-3166 Fax 717-545-5077  
[www.PreciseCalibrations.com](http://www.PreciseCalibrations.com)

**Customer Name:**  
TRI-STAR, INC  
300 VINE STREET

MIDDLETOWN, PA 17057

**Instrument ID:** 60110A-3-1-1634



Manufacturer: THERMO ELECTRIC  
Model Number: 311800001  
Serial Number: 60110A3-1  
Description: THERMOCOUPLE CALIBRATOR  
Department: MAIN (1634)  
Location: N/A  
Temperature: 68.7 °F  
Humidity: 45 %  
Accuracy: SEE CALIBRATION DATA SHEET

Procedure: QI-114  
Calibration Location: IN HOUSE  
Received Condition: IN TOLERANCE  
Returned Condition: IN TOLERANCE  
Interval: 12 MONTHS  
Date Received: 18-Feb-22  
Date Calibrated: 21-Feb-22  
Date Due: 21-Feb-23  
Technician: JSKOCZYNSKI

This instrument has been calibrated in accordance with the Precise Technical Solution's quality system. The standards used in this testing are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST). This report may not be reproduced, except in full, without the written approval of Precise Technical Solutions LLC.

## Remarks

None.

2/24/22  
W. Bunk

## Reference Standards

Reference Standard	Manufacturer	Model	Traceability No.	Cal. Due Date
PTS-314	HEWLETT PACKARD	3458A	201600007421	31-Jan-23
PTS-380	FLUKE	5520A / 600 MHZ	270899	31-Mar-22





# Calibration Certificate

Calibration Certificate No.: 209567

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[www.PreciseCalibrations.com](http://www.PreciseCalibrations.com)

**Customer Name:**  
TRI-STAR, INC  
300 VINE STREET

**Instrument ID:** 60110A-3-1-1634

MIDDLETOWN, PA 17057

## Calibration Data

Description	Standard	Units	Tolerance -	Tolerance +	As Found	P/F	As Left	P/F	Deviation
Thermocouple input 1 K-type	50.000	°C	49.500	50.500	50.1	P	50.1	P	0.100
	100.000	°C	99.500	100.500	99.7	P	99.7	P	-0.300
	150.000	°C	149.500	150.500	149.8	P	149.8	P	-0.200
	200.000	°C	199.500	200.500	199.8	P	199.8	P	-0.200
Thermocouple input 2 K-type	50.000	°C	49.500	50.500	49.6	P	49.6	P	-0.400
	100.000	°C	99.500	100.500	99.6	P	99.6	P	-0.400
	150.000	°C	149.500	150.500	149.6	P	149.6	P	-0.400
	200.000	°C	199.500	200.500	199.5	P	199.5	P	-0.500
D.C Voltage input	2.000	V	1.500	2.500	2.00	P	2.00	P	0.000
	4.000	V	3.500	4.500	4.00	P	4.00	P	0.000
	6.000	V	5.500	6.500	6.00	P	6.00	P	0.000
	8.000	V	7.500	8.500	8.00	P	8.00	P	0.000
D.C mA input	10.000	V	9.500	10.500	10.00	P	10.00	P	0.000
	10.000	mA	9.200	10.800	10.02	P	10.02	P	0.020
	20.000	mA	19.200	20.800	20.03	P	20.03	P	0.030
	30.000	mA	29.200	30.800	30.04	P	30.04	P	0.040
3 Wire RTD input	40.000	mA	39.200	40.800	40.06	P	40.06	P	0.060
	50.000	mA	49.200	50.800	50.07	P	50.07	P	0.070
	10.000	°C	9.600	10.400	10.00	P	10.00	P	0.000
	50.000	°C	49.600	50.400	50.00	P	50.00	P	0.000
4 Wire RTD input	100.000	°C	99.600	100.400	99.90	P	99.90	P	-0.100
	10.000	°C	9.600	10.400	9.90	P	9.90	P	-0.100
	50.000	°C	49.600	50.400	50.40	P	50.40	P	0.400
RTD output module 0°C@100Ohms	100.000	°C	99.600	100.400	100.00	P	100.00	P	0.000
	51.565°C @ 120Ohms	Ohms	99.900	100.100	100.00	P	100.00	P	0.000
	120.000	Ohms	119.900	120.100	120.02	P	120.02	P	0.020
103.943°C @ 140Ohms	140.000	Ohms	139.900	140.100	139.99	P	139.99	P	-0.010



## *Calibration Certificate*

**Calibration Certificate No.: 209567**

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Harrisburg, PA 17112  
Phone 1-855-872-3166 Fax 717-545-5077  
[www.PreciseCalibrations.com](http://www.PreciseCalibrations.com)

**Customer Name:**  
TRI-STAR, INC  
300 VINE STREET

**Instrument ID: 60110A-3-1-1634**

MIDDLETOWN, PA 17057

**Approved By:**

A handwritten signature in black ink, appearing to read "Josh Skoczynski", is written over a horizontal line.

Josh Skoczynski  
CALIBRATION TECHNICIAN

21-Feb-22

2:23 PM

----- **End of Report** -----

TECH: 

# MONTHLY TEST METER CALIBRATION

DATE: 12/23/22

AUDIT: D. Baulch

DATE: 12/23/22

A: NEWPORT HHCT-2 S/N T.141388

B: TRANSMATION 1045 S/N B75174

C: OMEGA CL27 S/N T.312015

D: PLC TOOLS SIM-ALP2 S/N 35333

SEE REVERSE SIDE OF SHEET

SEE REVERSE SIDE OF SHEET

SEE REVERSE SIDE OF SHEET

SEE REVERSE SIDE OF SHEET

TESTED AGAINST

SHOP STANDARD

THERMOELECTRIC ULTRAMITE

METER	RANGE	TP #1	DEV.	TP #2	DEV.	TP #3	DEV.	TP #4	DEV.	TP #5	DEV.	CHECKED BY	COMMENTS
A	J	0	0	50	0	200	0	500	0	900	0	Steve Summy	WITHIN TOLERANCES
A	K	50	0	500	0	1000	0	1500	0	2000	0	"	"
A	T	-100	0	-50	0	0	0	50	0	100	0	"	"
B	MV IN	0	0	1	0	5	0	10	0	20	0	"	"
B	50V IN	0	0	5	0	20	0	30	0	40	0	"	"
B	10V IN	0	0	1	0	3	0	5	0	7	0	"	"
B	MV OUT	0	0	1	0	5	0	10	0	20	0	"	"
B	VOUT	0	0	1	0	3	0	7	0	9	0	"	"
C	RTD	0	0	50	0	100	0	150	0	200	0	"	"
C	RTD	250	0	300	0	350	0	400	0	450	0	"	"
C	J	0	0	50	0	200	0	500	0	900	0	"	"
C	K	50	0	500	0	1000	0	1500	0	2000	0	"	"
C	S	100	0	1000	0	2450	0	2700	0	3050	0	"	* 48 STD
C	T	-100	0	-50	0	0	0	-50	0	-100	0	"	"
D	VOUT	0	0	1	0	3	0	7	0	9	0	"	"
D	MA OUT	4	0	8	0	12	0	16	0	20	0	"	"

MTMC-1

REV. 8 05/21

# MIDDLETOWN MONTHLY REPORT

## APPENDIX 6