

**CONSULTING ENGINEER'S
ANNUAL REPORT**

**2018 / 2019 OPERATING YEAR
(November 1, 2018 – December 31, 2019)**

FOR

**THE MUNICIPAL WATER
AUTHORITY OF ALIQUIPPA**
160 HOPEWELL AVENUE
ALIQUIPPA, PENNSYLVANIA 15001

MARCH 2020



**Lennon, Smith, Souleret
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MUNICIPAL WATER AUTHORITY OF ALIQUIPPA
CONSULTING ENGINEER'S ANNUAL REPORT
MARCH 2020

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CERTIFICATE OF ENGINEER

I, Ned Mitrovich, a Licensed Professional Engineer, am the Consulting Engineer for the Municipal Water Authority of Aliquippa, the "Authority", and hereby set forth:

- (A) In the report titled "CONSULTING ENGINEER'S ANNUAL REPORT 2018 / 2019 OPERATING YEAR (November 1, 2018 – December 31, 2019)", recommendations for operation, maintenance, and repair of the sewer and water system are identified. The report also details a capital improvement program. Said report was submitted to the Authority and its Trustee in February 2020.
- (B) The Authority's present rates in connection with the Authority's water and sewer systems have been reviewed and, based on information provided by the Authority, the present water and sewer rates are sufficient to pay projected operation and administrative expenses of the Authority in 2020 plus 110 percent of the annual debt service requirement with respect to the outstanding Series of 2017, Series of 2018, and Series of 2019 Bonds. The 2020 Budgets adopted by the Authority include are as follows:
- i. Water System Revenues = \$4,157,300.00
 - ii. Water System Expenses = \$4,157,300.00
 - iii. Sewer System Revenues = \$2,016,900.00
 - iv. Sewer System Expenses = \$2,016,900.00
- (C) In order to properly operate, maintain and repair the water and sewer system, the Authority, upon advice of the Engineer raised water rates in 2016 and raised sewer rates in 2018 and 2019. Bond issue borrowings were also executed in 2018 / 2019 in order to fund necessary capital improvements.

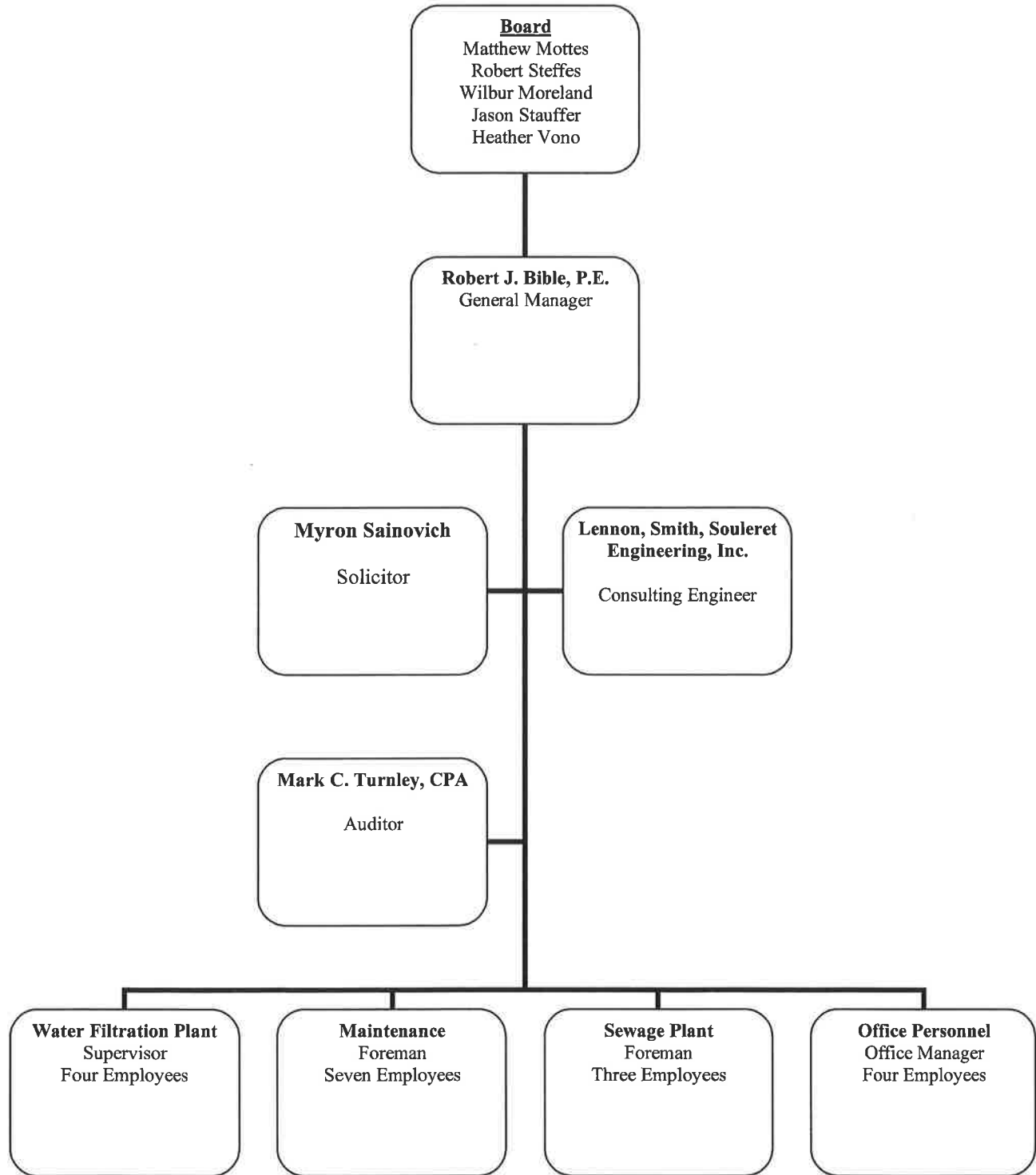
IN WITNESS WHEREOF, I have hereunto set my signature as such Engineer and affixed my Seal
this 17 day of MARCH 2020.



A handwritten signature in black ink, appearing to read "Ned Mitrovich", written over a horizontal line.

Ned Mitrovich, P.E.

**ORGANIZATIONAL CHART
MUNICIPAL WATER AUTHORITY OF ALIQUIPPA
AS OF MARCH 2020**



MUNICIPAL WATER AUTHORITY OF ALIQUIPPA

Aliquippa, Beaver County, Pennsylvania

724-375-5525

Identification No. 25-6007701

AUTHORITY BOARD MEMBER AS OF FEBRUARY 29, 2020

Matthew J. Mottes.....Chairman
Robert Steffes.....Vice Chairman
Jason Stauffer.....Treasurer
Wilbur Moreland.....Secretary
Heather Vono.....Assistant Secretary/Treasurer

PROFESSIONAL APPOINTMENTS

Myron Sainovich.....Solicitor
Bank of New York, Mellon Trust No. N.A.....Trustee
Mark C. Turnley, CPA.....Auditor
WesBanco.....Depository
Lennon, Smith, Souleret Engineering, Inc.....Consulting Engineer

MANAGEMENT

Robert J. Bible, P.E.....General Manager
Denise McCoy.....Office Manager

MUNICIPAL WATER AUTHORITY OF ALIQUIPPA
CONSULTING ENGINEER'S ANNUAL REPORT

INTRODUCTION

We are pleased to submit the Consulting Engineer's Report of Operations for Fiscal Year 2019, through December 31, 2019 for the Municipal Water Authority of Aliquippa (MWAA).

DRINKING WATER SYSTEM

DESCRIPTION OF SYSTEM

The water system serves a population of approximately 13,892 within the City of Aliquippa, Hopewell Township, Potter Township, and Raccoon Township.

MWAA is located in Aliquippa, Pennsylvania. The primary source of water consists of four vertical wells (Wells 25, 26, 27, and 28), one Ranney Well, and one Collector Well, each located along the Ohio River. The Ranney Well and the Collector Well combined can pump approximately 4.0 MGD to the treatment plant. The treatment plant has a rated capacity of 4.0 MGD. The vertical wells were previously considered "backup" wells to provide additional capacity as needed. In 2014, the Pennsylvania Department of Environmental Protection (PaDEP) advised this was no longer allowed. The wells now need to be used for supply and sampled/permitted accordingly. In addition to the wells, there is a permitted interconnect with the Center Township Water Authority system.

In February 2018, Wells 14, 26, and 27 were cleaned and new pumps installed. The Collector Well had its pumps rebuilt and the Collector and Rainey wells were cleaned in May 2018. The Collector Well and Rainey Well responded positively to the cleaning. The motor in Well 18 pump failed in May 2018 and was replaced. The Ranney Well had its pumps replaced in November 2019 and are in operation.

Geographic Information System based mapping of the water system was initiated in 2018 and is largely completed with additional field verification ongoing.

The treatment plant process includes iron and manganese removal, softening, and disinfection. The total amount of treated water storage is 9,178,000 gallons of water via six storage tanks:

- Davidson Heights 1,078,000 Gallon Concrete Reservoir
- Davidson Heights 2,300,000 Gallon Steel Reservoir #1
- Davidson Heights 2,500,000 Gallon Steel Reservoir #2
- Sheffield Terrace 2,000,000 Gallon Steel Reservoir
- West Aliquippa 1,000,000 Gallon Steel Reservoir
- Raccoon 300,000 Gallon Reservoir

Construction was completed in 2019 on a new altitude valve for the West Tank (1.0 MG) as well as construction/rehabilitation of pressure reducing stations to serve West Aliquippa. This project was initiated as a corrective measure in response to an Inspection Report issued by the Department of Environmental Protection (PADEP). The project resulted in the decommission of the West Aliquippa 500,000 gallon reservoir and attendant supply/drain line which was determined to be leaking approximately 245,000 gallons per day.

Lennon, Smith, Souleret Engineering, Inc. has prepared a conceptual cost estimate and began preliminary design work for a new proposed 5.76 MGD drinking water plant. Pilot Testing was performed in September 2019. Construction permits are required by an Administrative Consent Order to be submitted by June 2020.

The Water Allocation Permit was renewed in 2014 for the next 50 years. Rules and Regulations were prepared and adopted in 2014.

The Raccoon Tank is the only tank supplying the Raccoon Township service area and provides less than one day's supply of potable water. MWAA staff installed meters and repaired valves in the system in 2014.

The distribution system is aging and the condition of the waterlines is commensurate with age. Waterlines are repaired as required to maintain service and stop leaks. Construction on replacement of approximately 1,800 linear feet of waterline along Green Street was completed in late 2019.

Due to the age of the system, valves are often inoperable or do not properly seat when operated. When valves cannot be operated properly, the distribution system cannot be isolated into small areas to facilitate repair. The result is the temporary shut-down of service to large portions of the system to repair isolated waterline breaks or leaks causing a disruption of service to a large number of customers. Large scale disruptions of service could be more effectively mitigated if the valves were operable and the system could be properly isolated. In February 2018, the Authority resubmitted an application to the Commonwealth Financing Authority to seek funding through the PA Small Water and Sewer Program to replace many of these inoperable valves. The application was awarded funding in September 2018. These valve replacements are to increase system isolation capabilities and reduce water service outages for customers. Additionally, repairing leaks and making repairs to the system will decrease the amount of unaccounted for water within the system. Design and construction phases are planned for 2020.

In July 2018, the Authority contracted with a third party service to conduct inspections on the interior and exterior of the water storage tanks. Findings / recommendations of these inspections generally include miscellaneous repairs and maintenance to each tank.

Design of the Sheffield Terrace Booster Station Improvements was initiated in 2019 and a Public Water Supply Permit was submitted. The project proposes replacement of the booster station, and replacement of the downstream PRVs. Construction is expected to

begin in Summer 2020. After construction, the Sheffield Terrace Tank will be drained for detailed review

WATER RATES

Table 1 indicates the current and previous water user rates charged by the MWAA to their customers. Rates were increased effective January 1, 2016 to account for increased costs and to provide for necessary capital improvements. Assuming an average water use of 11,000 gallons per quarter. The water rate is approximately 1.70% of the median household income based on 2016 U.S. Census data.

TABLE 1
SCHEDULE OF RATES – QUARTERLY RESIDENTIAL CHARGES

Current Rate Structure – January 1, 2016	
First 6,000 gallons	\$75.00 minimum
Over 6,000 gallons	12.50/1,000
Current Rate Structure – January 1, 2007	
First 6,000 gallons	\$46.27 minimum
Next 12,000 gallons	6.25/1,000
Next 42,000 gallons	5.41/1,000
Over 60,000 gallons	4.66/1,000
Previous Rate Structure – January 1, 2005	
First 6,000 gallons	\$38.56 minimum
Next 12,000 gallons	5.21/1,000
Next 42,000 gallons	4.51/1,000
Over 60,000 gallons	3.88/1,000
Previous Rate Structure – January 1, 2001	
First 6,000 gallons	\$34.43 minimum
Next 12,000 gallons	4.65/1,000
Next 42,000 gallons	4.03/1,000
Over 60,000 gallons	3.46/1,000

WATER WITHDRAWAL AND SALES

The data gathered for this section of the report was taken from official reports of MWAA.

The Daily Water Withdrawal/Instream Flow Requirement Report is a report prepared monthly and indicates the total amount of water pumped from the wells to the treatment plant on a daily basis. The Collector Well and Wells 25, 26, 27 and 28 have a common meter that was replaced in 2015. The total combined well output for 2018 was 1,174,062,171 gallons of water and the total combined well output for 2019 was 1,080,284,900 gallons of water. Tables have been included in the Water System Appendix using MWAA data which details the monthly water withdrawal from each well.

The Report of Operations records the amount of water coming into the treatment plant and the amount of finished water pumped into the distribution system for sale. In comparison, the raw water that entered the plant in 2018 measured 1,129,354,000 gallons of water and in 2019 measured 1,036,149,000 gallons of water according to the report. The finished water leaving the plant in 2018 was 1,085,050,000 gallons of water and in 2019 was 992,239,000 gallons of water and is measured with a magnetic meter installed in 2015.

In 2018 the Metered Sales of 363,585,260 gallons plus the estimated 108,035,620 gallons for maintenance and plant use compared to the finished water of 1,085,050,000 gallons pumped to the system indicates that about 57% of the water leaving the plant is not accounted for. In 2019 the Metered Sales of 419,102,125 gallons plus the estimated 44,091,635 gallons for maintenance and plant use compared to the finished water of 992,239,000 gallons pumped to the system indicates that about 54% of the water leaving the plant is not accounted for. This water loss is significant and is suspected to include undetected leaks, fires, and unreported hydrant usage. The Water System Appendix includes tables and charts which detail the above referenced data.

In early 2016, a “Distribution and Storage Control and Leak Repair Plan” was prepared by the Authority. Implementation of the plan is ongoing.

SEWER SYSTEM

DESCRIPTION OF SYSTEM

The MWAA Wastewater Treatment Plant (WWTP) serves both the City of Aliquippa and Hopewell Township. The wastewater treatment plant has a design hydraulic capacity of 3.4 MGD. The maximum wet weather hydraulic capacity is 7.0 MGD. The plant discharges treated effluent to the Ohio River under NPDES Permit (PA0025968) parameters. The WWTP was hydraulically overloaded during the 2018 operating year. The Report projects the 3-month maximum average will exceed the average annual design capacity in 2019. The WWTP was not organically overloaded during the 2018 operating year. The 2018 Annual Wasteload Management Report was completed by MWAA. The hydraulic and organic loading charts from this report are provided in the Sewer Appendix.

As the result of the hydraulic overload, regulations require a Corrective Action Plan (CAP). CAP tasks include smoke and dye testing, flow monitoring, closed circuit televising, night time flow isolation measurements, and a cost effectiveness analysis. Phase II of the Flow Monitoring Program was completed in 2019, with Phase III to begin in early 2020.

The mechanical equipment in one of the primary clarifier tanks was replaced in 2016, while the equipment in the second tank was replaced in 2019.

The NPDES Permit for the system was renewed for another 5 years in 2014. The new permit included a more stringent limit for total residual chlorine (TRC) which was evaluated by the Authority in a feasibility study. The project was bid in October 2017. Installation of a dechlorination facility and the rebuilding of the plant’s existing bar

screen was completed in August 2018. Rules and Regulations were adopted in 2015. The NPDES Permit was submitted for renewal on May 24, 2019.

There are seven sewage pump stations that contribute flow to the WWTP.

1. The Wye Lift Station serves Aliquippa and portions of Hopewell Township. It is equipped with four 3,000 gpm pumps powered by 75 HP motors.
2. The West Aliquippa Lift Station serves West Aliquippa and portions of Hopewell Township. It is equipped with two 500 gpm pumps powered by 10 HP motors.
3. The Golf Course Road Lift Station serves the Hospital Drive area. It is equipped with two 160 gpm pumps powered by 15 HP motors.
4. The Jail Pump Station serves the new Beaver County Jail. It is equipped with two 300 gpm pumps powered by 5 HP motors.
5. The Steel Street Lift Station is equipped with two 200 gpm pumps powered by 5 HP motors.
6. The pump station at the Woodlawn Park Area in Hopewell services 12 residential units. The assumed flow at this pump station is 12 gpm, and was designed to handle 85 gpm. (This pump station is owned and operated by Hopewell Township.)
7. The Woodlawn Pump Station is equipped with two 122 gpm pumps powered by 4 HP motors. Projected average future flows are only 6,000 gpd (30,000 gpd peak). The pumps are not installed at this time, but are stored for future use. There is no electrical power to the pump station presently. It has never been reported to operate.

The collection system is considered a separate sewer system and is relatively old. Its condition is commensurate with age. The system primarily consists of vitrified clay pipe and is subject to inflow and infiltration.

Replacement of the Wye Lift Station bar screen has been designed with construction proposed in 2020.

Geographic Information System based mapping of the sewer system was initiated in 2018 and is largely complete with additional field verification ongoing.

SEWER RATES

Table 2 indicates the current and previous sewer user rates charged by the MWAA to their customers. The last rate increase was in January 2019. Assuming an average water use of 10,000 gallons per quarter, the sewer rate is approximately 1.14% of the median household income based on 2016 U.S. Census data.

TABLE 2
SCHEDULE OF RATES – QUARTERLY RESIDENTIAL CHARGES

Current Rate Structure – January 1, 2019	
First 6,000 gallons	\$56.40 minimum
Over 6,000 gallons	7.50/1,000
Previous Rate Structure – January 1, 2018	
First 6,000 gallons	\$47.00 minimum
Over 6,000 gallons	6.25/1,000
Previous Rate Structure – January 1, 2012	
First 6,000 gallons	\$39.08 minimum
Next 12,000 gallons	5.24/1,000
Next 42,000 gallons	4.53/1,000
Over 60,000 gallons	3.62/1,000
Previous Rate Structure – January 1, 2007	
First 6,000 gallons	\$31.26 minimum
Next 12,000 gallons	4.19/1,000
Next 42,000 gallons	3.62/1,000
Over 60,000 gallons	2.89/1,000
Previous Rate Structure – January 1, 2005	
First 6,000 gallons	\$26.05 minimum
Next 12,000 gallons	3.49/1,000
Next 42,000 gallons	3.02/1,000
Over 60,000 gallons	2.41/1,000

FINANCIAL MANAGEMENT

The Financial Management Appendix provides a summary of significant historical data regarding expenses and revenues. The budget format was changed significantly in 2015 to update budget line items to match the current operations of the Authority. The budgets also provide the required Debt Service Ratio calculation in accordance with the Trust Indenture. A ratio of 5.13 was calculated for the 2018 Operating Year actual expenditures/revenues. A ratio of 0.81 was calculated for the 2019 Operating Year actual expenditures/revenues. A ratio of 1.10 was calculated for the 2020 approved budget.

Several unexpected expenses and lower than budgeted revenues resulted in not achieving the required debt service coverage in 2019.

In 2016, a delinquency policy was put in place by the Authority to address outstanding accounts receivable.

MWAA maintains various insurance policies, a listing of which is included in the Financial Management Appendix. As an “appropriate” level of insurance is not an engineering matter, we can only rely on the recommendation of the Authority’s insurance broker regarding the “adequacy” of the insurance coverage.

In September 2017, MWAA refinanced their existing bonds and is proposing to fund CAP tasks and additional capital improvements with a new bond issue.

SUMMARY AND RECOMMENDATIONS

WATER SYSTEM

- The supply of water appears to be adequate to accommodate current demand and modest expansions of the service area.
- If future demands require treated water in excess of 4.0 MGD, system updates will be required. Continue with proposed repairs of the recently permitted vertical wells.
- Development and implementation of a replacement program for both lines and valves is recommended. Grant funding was awarded in 2018 for this purpose.
- Storage capacity appears to be adequate for the Aliquippa service area with a total of seven (7) tanks in service.
- The following additional capital improvements are recommended:
 - Construction of new water treatment plant (in design phase)
 - Implement aggressive leak detection program and valve/waterline replacements
 - Integrated SCADA system for wells, water treatment plant, booster stations, and storage facilities
 - Evaluate water storage tank upgrades
 - Terrace Booster Station upgrade (Submitted for permits)
 - Install an additional 500,000 gallon tank in the western end of the Raccoon service area
 - Demolish 500,000 gallon West Tank (Bid received)
 - Evaluate standby power need per PADEP requirements.

SEWER SYSTEM

- Complete revised lead and copper rule evaluation as required by PADEP
- There appears to be adequate annual average hydraulic and organic capacity for the coming 5-year period at the WWTP. Efforts to reduce infiltration and inflow should be continued to increase this available capacity at the treatment plant and the collection and conveyance system as well.
- Infiltration/Inflow with past rehabilitation of sewer lines within many areas of the City is reported as successful. Continuing efforts to televise, clean and rehabilitate lines should continue. A more aggressive I/I program should be implemented to reduce flow storm response.
- Implement Corrective Action Plan, including the Sewer Flow Characterization / Flow Monitoring Program.
- The following additional capital improvements are recommended:
 - Miscellaneous plant upgrades including digester concrete repairs, grit removal system
 - Integrated SCADA system for sewage pump stations and sewage treatment plant
- Replace Wye Lift Station screen (Project under contract)

FINANCIAL MANAGEMENT

- Monitor 2020 and 2021 expenses to ensure debt service factor of 1.10 is provided.
- Continued implementation of the delinquency policy.
- Evaluate the need for rate increases.

WATER SYSTEM APPENDIX

MUNICIPAL WATER AUTHORITY OF ALIQUIPPA CONSULTING ENGINEER'S ANNUAL REPORT

ANNUAL WATER WITHDRAWAL REPORT - 2018

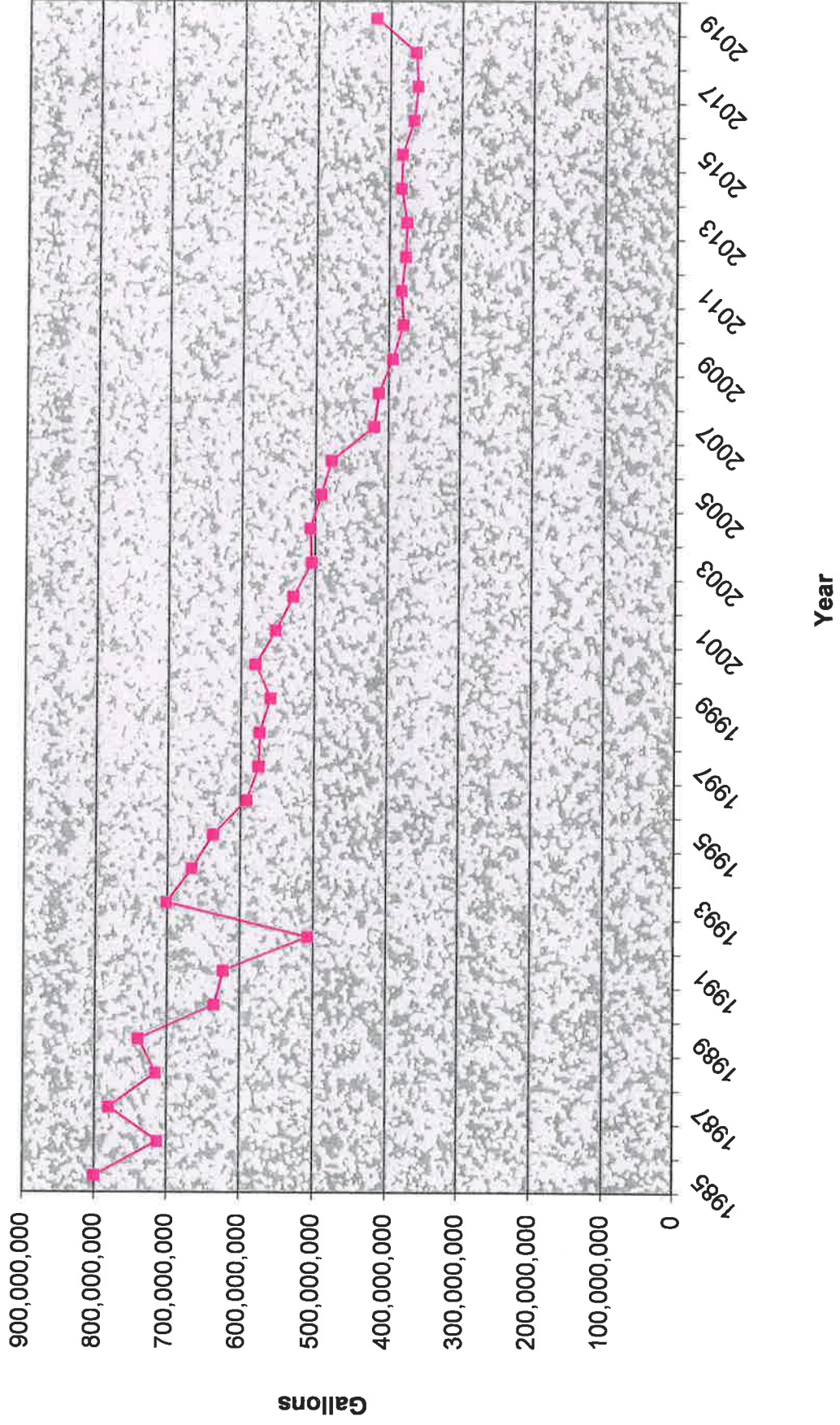
2018	Ranney Wells	Well 23	Collector Well	GALLONS				Well 25	Well 26	Well 27	Well 28	Total Well Production	Avg Monthly MGD	TOTAL
January	63,841,400	0	45,316,600	0	0	0	0	0	0	0	0	109,158,000		3.521
February	60,945,600	0	42,928,800	747,000	0	0	0	0	0	0	0	104,621,400		3.608
March	61,067,800	0	43,706,400	0	0	0	0	0	0	0	0	104,774,200		3.380
April	58,969,100	0	41,212,200	0	0	0	0	0	0	0	0	100,181,300		3.339
May	60,410,200	45,000	39,671,700	45,000	0	0	0	0	0	0	45,000	100,216,900		3.233
June	53,880,500	0	37,388,100	0	0	0	0	0	0	0	0	91,268,600		3.042
July	61,322,000	36,000	34,598,920	36,000	0	0	0	0	0	0	36,000	96,028,920		3.098
August	63,569,376	0	33,126,015	0	0	0	0	0	0	0	0	96,695,391		3.119
September	59,297,100	0	31,429,010	0	0	0	0	0	0	0	0	90,726,110		3.024
October	70,840,610	0	33,105,040	0	0	0	0	0	0	0	0	103,945,650		3.353
November	55,926,300	108,000	29,678,100	108,000	0	0	0	0	0	0	108,000	85,928,400		2.864
December	55,188,300	0	35,329,000	0	0	0	0	0	0	0	0	90,517,300		2.920
Total	725,258,286	189,000	447,489,885	936,000	0	0	0	0	0	0	189,000	1,174,062,171		38.50
DAILY AVE.	1,987,009	518	1,226,000	2,564	0	0	0	0	0	0	518	3,216,609		3.208

MUNICIPAL WATER AUTHORITY OF ALIQUIPPA CONSULTING ENGINEER'S ANNUAL REPORT

ANNUAL WATER WITHDRAWAL REPORT - 2019

2019	Ranney Wells	Well 23	Collector Well	GALLONS				Well 26	Well 27	Well 28	Total Well Production	Avg Monthly MGD	TOTAL
											GALLONS		
January	54,328,100	0	36,063,400	0	0	0	0	0	0	0	90,391,500		2.916
February	54,610,700	0	33,272,800	0	0	0	0	0	0	0	87,883,500		3.030
March	58,443,400	0	37,578,300	0	0	0	0	0	0	0	96,021,700		3.097
April	60,640,300	0	36,460,000	0	0	0	0	0	0	0	97,100,300		3.237
May	46,850,000	0	46,736,500	0	0	0	0	0	0	0	93,586,500		3.019
June	43,702,500	0	46,133,100	0	0	0	0	0	0	0	89,835,600		2.995
July	49,891,800	30,000	44,877,000	27,000	0	0	0	0	0	27,000	94,852,800		3.060
August	50,525,300	12,000	44,042,500	12,000	0	0	0	0	0	12,000	94,603,800		3.052
September	46,837,900	0	37,378,500	0	0	0	0	0	0	0	84,216,400		2.807
October	44,598,700	0	38,900,400	0	0	0	0	0	0	0	83,499,100		2.694
November	53,213,800	0	29,478,000	0	0	0	0	0	0	0	82,691,800		2.756
December	58,981,300	0	26,620,600	0	0	0	0	0	0	0	85,601,900		2.761
Total	622,623,800	42,000	457,541,100	39,000	0	0	0	0	0	39,000	1,080,284,900		35.42
DAILY AVE.	1,705,819	115	1,253,537	107	0	0	0	0	0	107	2,959,685		2.952

Municipal Water Authority of Aliquippa Annual Metered Water Sales



MUNICIPAL WATER AUTHORITY OF ALIQUIPPA CONSULTING ENGINEER'S ANNUAL REPORT

WATER WITHDRAWAL AND SALES - 2018 (GALLONS)

WATER WITHDRAWAL		REPORT OF OPERATIONS				Line Breaks and Flushing ⁽¹⁾	Metered Sales
Month	Combined Well Output	Raw Water Input	Finished Output				
			Finished	Rinse/Wash	Total		
Jan	109,158,000	106,583,000	102,440,000	5,558,400	107,998,400	9,175,628	
Feb	104,621,400	100,921,000	97,197,000	5,109,000	102,306,000	8,287,664	
Mar	104,774,200	102,138,000	98,425,000	5,127,500	103,552,500	9,175,628	
Apr	100,181,300	97,091,000	93,525,000	4,917,000	98,442,000	8,879,640	
May	100,216,900	98,048,000	94,136,000	5,157,800	99,293,800	9,175,628	
Jun	91,268,600	88,994,000	85,251,000	4,711,300	89,962,300	8,879,640	
Jul	96,028,920	91,419,000	87,834,000	5,005,600	92,839,600	9,175,628	
Aug	96,695,391	91,702,000	87,626,000	4,979,700	92,605,700	9,175,628	
Sept	90,726,110	86,985,000	83,379,000	4,880,300	88,259,300	8,879,640	
Oct	103,945,650	99,643,000	96,089,000	5,327,300	101,416,300	9,175,628	
Nov	85,928,400	83,811,000	80,628,000	4,704,900	85,332,900	8,879,640	
Dec	90,517,300	82,019,000	78,520,000	4,446,600	82,966,600	9,175,628	
TOTAL	1,174,062,171	1,129,354,000	1,085,050,000	59,925,400	1,144,975,400	108,035,620	363,585,260
DAILY AVG.	3,216,609	3,094,121	2,972,740	164,179	3,136,919	295,988	996,124

295,988

(1) Maintenance data includes water used to flush lines after line break repair operations and bi-annual line flushing water. These numbers are estimates only.

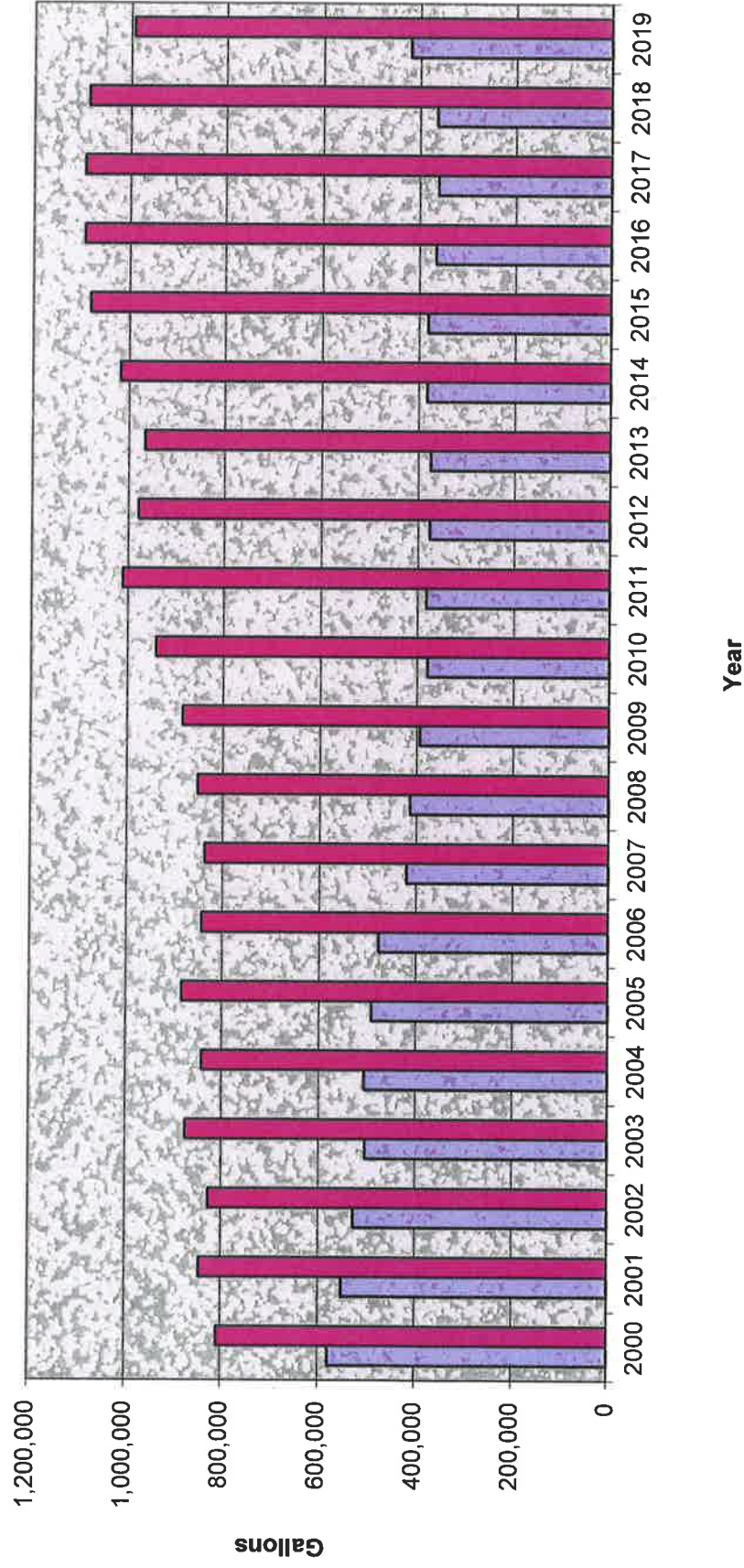
MUNICIPAL WATER AUTHORITY OF ALIQUIPPA CONSULTING ENGINEER'S ANNUAL REPORT

WATER WITHDRAWAL AND SALES - 2019 (GALLONS)

WATER WITHDRAWAL		REPORT OF OPERATIONS				120,799	
Month	Combined Well Output	Raw Water Input	Finished Output			Line Breaks and Flushing ⁽¹⁾	Metered Sales
			Finished	Rinse/Wash	Total		
Jan	90,391,500	86,995,000	83,684,000	4,974,700	88,658,700	3,744,769	
Feb	87,883,500	84,868,000	81,665,000	4,623,400	86,288,400	3,382,372	
Mar	96,021,700	92,895,000	89,322,000	4,972,500	94,294,500	3,744,769	
Apr	97,100,300	87,895,000	83,714,000	5,165,200	88,879,200	3,623,970	
May	93,586,500	89,114,000	84,349,000	5,407,600	89,756,600	3,744,769	
Jun	89,835,600	87,998,000	84,214,000	4,974,200	89,188,200	3,623,970	
Jul	94,852,800	91,447,000	87,944,000	5,113,300	93,057,300	3,744,769	
Aug	94,603,800	91,223,000	87,169,000	5,272,800	92,441,800	3,744,769	
Sept	84,216,400	80,861,000	77,023,000	5,473,800	82,496,800	3,623,970	
Oct	83,499,100	82,049,000	78,796,000	5,318,800	84,114,800	3,744,769	
Nov	82,691,800	78,403,000	74,910,000	5,158,900	80,068,900	3,623,970	
Dec	85,601,900	82,401,000	79,449,000	4,491,400	83,940,400	3,744,769	
TOTAL	1,080,284,900	1,036,149,000	992,239,000	60,946,600	1,053,185,600	44,091,635	419,102,125
DAILY AVG.	2,959,685	2,838,764	2,718,463	166,977	2,885,440	120,799	1,148,225

(1) Maintenance data includes water used to flush lines after line break repair operations and bi-annual line flushing water. These numbers are estimates only.

Municipal Water Authority of Aliquippa **Historic Water Sales and Finished Water Produced**



Thousand Gallons of Water Billed

Thousand Gallons of Finished Water Produced

SEWER SYSTEM APPENDIX

FIGURE 1
HYDRAULIC LOADING GRAPH
MWAA WASTEWATER TREATMENT PLANT

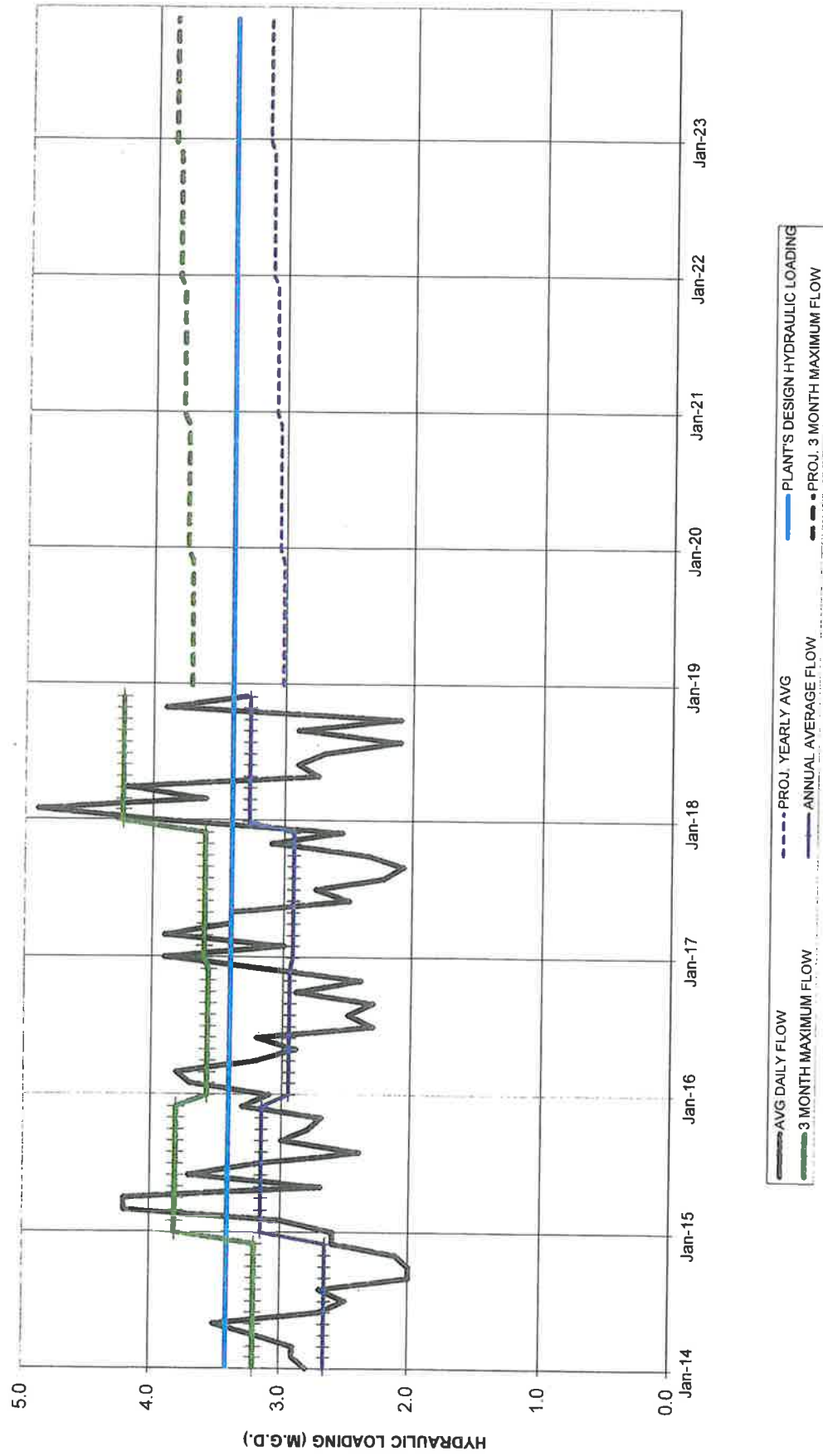
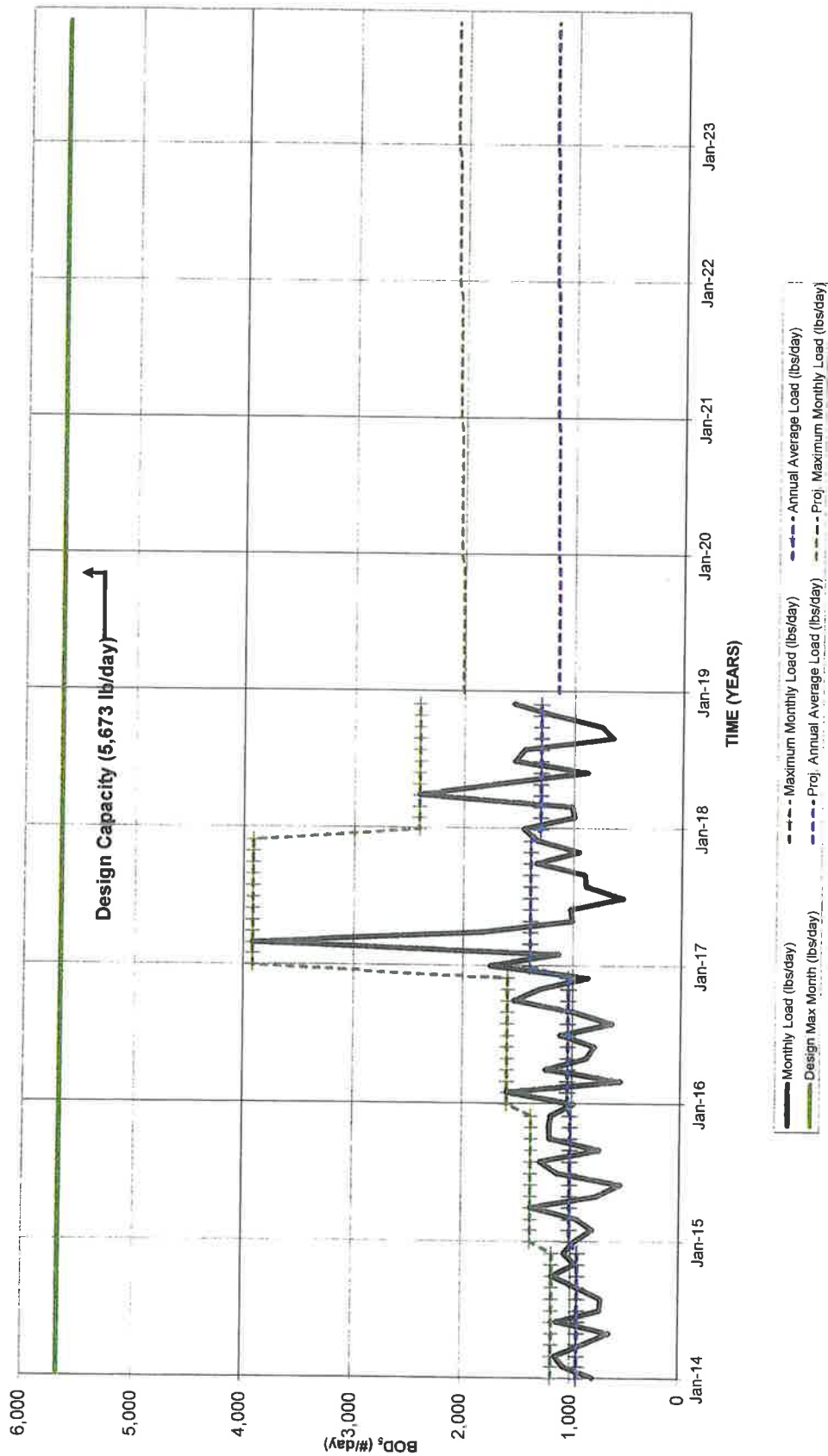


FIGURE 2
ORGANIC LOADING GRAPH
MWAA WASTEWATER TREATMENT PLANT



FINANCIAL MANAGEMENT APPENDIX

MUNICIPAL WATER AUTHORITY OF ALIQUIPPA
CONSULTING ENGINEER'S ANNUAL REPORT
WATER FUND
BUDGET VS ACTUAL

		2018 Budget	2018 Actual	2019 Budget	2019 Actual	2020 Budget
Revenue						
<u>Metered Sales</u>						
01.01. 430110	Metered Sales - Domestic	\$2,878,500.00	\$3,213,005.80	\$2,878,500.00	\$2,486,695.62	\$2,500,000.00
01.01. 430120	Metered Sales - Commercial	\$555,500.00	\$414,548.66	\$440,000.00	\$803,137.09	\$740,000.00
01.01. 430130	Metered Sales - Industrial	\$550,450.00	\$571,438.07	\$550,450.00	\$635,620.64	\$630,000.00
	Subtotal	\$3,984,450.00	\$4,198,992.53	\$3,868,950.00	\$3,925,453.35	\$3,870,000.00
<u>Fire Protection</u>						
01.01. 430410	Private Fire Protection	\$20,000.00	\$23,578.87	\$20,000.00	\$21,793.41	\$20,000.00
01.01. 430420	Public Fire Protection	\$265,000.00	\$52,769.80	\$45,000.00	\$60,783.44	\$50,000.00
	Subtotal	\$285,000.00	\$76,348.67	\$65,000.00	\$82,576.85	\$70,000.00
<u>Other Water Sales</u>						
01.01. 430610	Sales to Public Authority	\$60,600.00	\$73,342.08	\$60,600.00	\$76,104.90	\$75,000.00
	Subtotal	\$60,600.00	\$73,342.08	\$60,600.00	\$76,104.90	\$75,000.00
<u>Miscellaneous Revenue</u>						
01.01. 431210	Customer Penalties	\$75,000.00	\$95,985.43	\$75,000.00	\$102,209.94	\$75,000.00
01.01. 412520	Miscellaneous Water Revenue	\$0.00	\$3,278.82	\$0.00	-\$3,278.82	\$0.00
01.01. 431230	Water Tap Fees	\$0.00	\$7,000.00	\$0.00	\$19,000.00	\$0.00
01.01. 431240	Turn on Charges & NSF Charge	\$5,000.00	\$6,231.00	\$5,000.00	\$4,845.00	\$5,000.00
	Subtotal	\$80,000.00	\$112,495.25	\$80,000.00	\$122,776.12	\$80,000.00
<u>Misc Non-Operating Revenue</u>						
01.01. 432010	Revenue from Frozen Meters	\$500.00	\$3,574.60	\$500.00	\$686.95	\$500.00
01.01. 432610	Misc Non-Operating Revenue	\$15,000.00	\$23,547.60	\$15,000.00	\$33,986.45	\$15,000.00
01.01. 432630	Employee Contribution	\$38,870.00	\$47,440.00	\$41,860.00	\$55,990.00	\$46,800.00
	Subtotal	\$54,370.00	\$74,562.20	\$57,360.00	\$90,663.40	\$62,300.00
	Total Revenue	\$4,464,420.00	\$4,535,740.73	\$4,131,910.00	\$4,297,574.62	\$4,157,300.00
Expenses						
<u>Power and Pumping</u>						
01.01. 542210	Non-Salary Compensation / Meals	\$1,500.00	\$952.95	\$1,500.00	\$505.00	\$1,500.00
01.01. 542410	Supplies and Expenses	\$15,000.00	\$20,363.10	\$20,000.00	\$25,778.51	\$25,000.00
01.01. 542610	Maintenance of Structures and Improvements	\$5,000.00	\$8,544.86	\$5,000.00	\$182,750.00	\$5,000.00
01.01. 542710	Maintenance of Power and Pumping Equip	\$40,000.00	\$11,915.00	\$40,000.00	\$15.00	\$30,000.00
01.01. 542910	Utility - Power - Wells	\$6,000.00	\$1,400.09	\$6,000.00	\$866.97	\$3,000.00
01.01. 542930	Utility - Power - Collector Well	\$45,000.00	\$26,437.71	\$45,000.00	\$29,564.72	\$45,000.00
01.01. 542950	Utility - Power - Ranney Well	\$63,000.00	\$59,673.60	\$63,000.00	\$45,980.49	\$63,000.00
01.01. 542960	Utility - Power - Booster Station	\$30,000.00	\$9,699.36	\$25,000.00	\$15,114.80	\$25,000.00
01.01. 542970	Utility - Power - Raccoon Township	\$5,000.00	\$18,562.71	\$15,000.00	\$19,955.62	\$20,000.00
01.01. 542980	Utility - Power - West Reservoir / Jail	\$300.00	\$369.11	\$300.00	\$195.10	\$300.00
	Subtotal	\$210,800.00	\$157,918.49	\$220,800.00	\$320,726.21	\$217,800.00
<u>Purification and Lab</u>						
01.01. 544210	Operations Salaries	\$343,360.00	\$195,831.39	\$364,615.00	\$191,557.44	\$193,000.00
01.01. 544220	Water Testing	\$15,000.00	\$9,221.26	\$15,000.00	\$7,263.25	\$15,000.00
01.01. 544310	Supplies - Salt	\$150,000.00	\$119,677.68	\$150,000.00	\$114,025.73	\$125,000.00
01.01. 544320	Supplies - Chlorine	\$9,000.00	\$16,369.50	\$18,000.00	\$24,701.41	\$30,000.00
01.01. 544325	Supplies - Buffer	\$0.00	\$1,002.87	\$0.00	\$0.00	\$0.00
01.01. 544410	Outside Services	\$30,000.00	\$53,821.88	\$30,000.00	\$35,188.12	\$30,000.00
01.01. 544510	Maintenance of Structures and Improvements	\$5,000.00	\$54,128.99	\$5,000.00	\$52,566.19	\$69,000.00
01.01. 544710	Maintenance of Backwash	\$2,500.00	\$100,978.30	\$2,500.00	\$69.00	\$2,500.00
01.01. 544610	Maintenance of Equipment	\$100,000.00	\$0.00	\$100,000.00	\$99,794.02	\$69,000.00
01.01. 542920	Utility - Power	\$200,000.00	\$275,797.17	\$280,000.00	\$263,984.87	\$280,000.00
01.01. 544910	Utility - Gas	\$7,500.00	\$6,197.85	\$8,500.00	\$5,041.32	\$8,500.00
	Subtotal	\$862,360.00	\$833,026.89	\$973,615.00	\$794,191.35	\$822,000.00

		2018 Budget	2018 Actual	2019 Budget	2019 Actual	2020 Budget
<u>Transmission and Distribution</u>						
01.01. 545210	Operations Salaries	\$306,030.00	\$416,142.03	\$386,580.00	\$483,470.49	\$470,000.00
01.01. 545215	Outside Services	\$125,000.00	\$137,942.03	\$125,000.00	\$206,258.20	\$165,000.00
01.01. 545310	Maintenance of Llnes	\$250,000.00	\$135,908.16	\$250,000.00	\$221,787.15	\$250,000.00
01.01. 545920	Maintenance of Meters	\$50,000.00	\$53,490.99	\$50,000.00	\$54,435.29	\$50,000.00
01.01. 545930	Maintenance of Hydrants	\$10,000.00	\$3,967.68	\$10,000.00	\$4,382.34	\$10,000.00
01.01. 545710	Maintenance of Structures and Improvements	\$10,000.00	\$24.84	\$10,000.00	\$450.09	\$10,000.00
	Subtotal	\$751,030.00	\$747,475.73	\$831,580.00	\$970,783.56	\$955,000.00
<u>Vehicles and Equipment</u>						
01.01. 546010	Rentals	\$1,000.00	\$5,700.00	\$6,400.00	\$5,200.00	\$5,000.00
01.01. 546110	Purchase	\$8,820.00	\$6,567.90	\$40,000.00	\$4,124.50	\$20,000.00
01.01. 546145	Maintenance	\$15,000.00	\$21,507.35	\$20,000.00	\$14,299.22	\$20,000.00
01.01. 546155	Fuel	\$20,000.00	\$17,519.35	\$20,000.00	\$18,089.51	\$20,000.00
	Subtotal	\$44,820.00	\$51,294.60	\$86,400.00	\$41,713.23	\$65,000.00
<u>General Administration</u>						
01.01. 549010	Board Salaries	\$3,000.00	\$1,475.00	\$3,000.00	\$2,570.01	\$3,000.00
01.01. 549110	Office Salaries	\$111,410.00	\$90,572.37	\$94,370.00	\$75,668.23	\$111,300.00
01.01. 549020	Manager's Salary	\$47,500.00	\$54,226.80	\$82,500.00	\$72,716.16	\$86,700.00
01.01. 549310	Office Supplies and Expenses	\$30,000.00	\$25,162.52	\$30,000.00	\$45,797.08	\$40,000.00
01.01. 549410	Real Estate Taxes / Sohn Road	\$225.00	\$176.89	\$225.00	\$179.83	\$225.00
01.01. 549510	Auditor	\$4,000.00	\$3,542.00	\$3,500.00	\$3,690.00	\$3,750.00
01.01. 549890	Solicitor - Retainer	\$7,200.00	\$3,900.00	\$3,900.00	\$3,900.00	\$3,900.00
01.01. 549870	Solicitor - Expenses	\$6,000.00	\$13,356.25	\$6,000.00	\$2,291.83	\$6,000.00
01.01. 549610	Engineer - Retainer	\$1,200.00	\$1,100.00	\$1,200.00	\$1,100.00	\$1,200.00
01.01. 549620	Engineer - Expenses	\$35,000.00	\$48,326.58	\$35,000.00	\$59,316.18	\$50,000.00
01.01. 549720	Insurance - General Liability	\$25,000.00	\$23,040.00	\$25,500.00	\$24,362.50	\$29,000.00
01.01. 549730	Insurance - Workmen's Compensation	\$26,300.00	\$27,904.90	\$24,500.00	\$33,597.40	\$29,200.00
01.01. 549770	Insurance - Property / Equipment	\$17,900.00	\$20,317.50	\$18,500.00	\$16,014.50	\$19,600.00
01.01. 549810	Insurance - Bonds	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00
01.01. 549820	Insurance Retirement	\$0.00	\$16,406.02	\$0.00	\$0.00	\$0.00
01.01. 549830	Hospitalization / Health Insurance	\$251,340.00	\$337,786.81	\$275,600.00	\$356,373.98	\$256,900.00
01.01. 549840	Employees Pension	\$88,440.00	\$103,782.83	\$93,600.00	\$130,159.74	\$108,300.00
01.01. 549841	Utilities - Telephone	\$6,000.00	\$4,843.57	\$6,000.00	\$3,614.83	\$6,000.00
01.01. 549845	Utilities - Power	\$5,000.00	\$4,282.62	\$5,000.00	\$4,519.78	\$5,000.00
01.01. 549855	Utilities - Gas	\$5,000.00	\$7,729.55	\$8,000.00	\$7,980.00	\$8,000.00
01.01. 549865	Utilities - Cellular	\$3,000.00	\$2,350.50	\$3,000.00	\$2,678.70	\$3,000.00
01.01. 549880	Postage	\$13,000.00	\$10,823.55	\$13,000.00	\$13,718.18	\$15,000.00
01.01. 549885	Uniforms / Clothing Allowance	\$12,000.00	\$13,678.08	\$14,000.00	\$18,521.41	\$20,000.00
01.01. 549895	Dues, Memberships, Subscriptions	\$3,500.00	\$3,838.50	\$5,000.00	\$7,632.00	\$7,500.00
01.01. 549905	Software	\$6,000.00	\$5,327.25	\$9,000.00	\$11,858.73	\$9,000.00
01.01. 549925	Office Equipment	\$2,500.00	\$0.00	\$2,500.00	\$0.00	\$2,500.00
01.01. 549920	Travel and Education	\$1,500.00	\$1,919.94	\$4,000.00	\$1,990.77	\$4,000.00
01.01. 549850	Miscellaneous General Expenses	\$25,000.00	\$74,704.48	\$25,000.00	\$99,051.49	\$25,000.00
01.01. 549860	Maintenance - Property	\$5,000.00	\$915.29	\$5,000.00	\$1,222.44	\$5,000.00
	Subtotal	\$742,315.00	\$901,789.80	\$797,195.00	\$1,000,825.77	\$859,375.00
<u>Capital Improvements</u>						
01.01. 545970	Capital Improvements	\$1,661,662.00	\$406,607.27	\$419,244.00	\$844,098.64	\$655,125.00
01.01.	Capital Improvements - Raccoon	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal	\$1,661,662.00	\$406,607.27	\$419,244.00	\$844,098.64	\$655,125.00
<u>Debt Service</u>						
	2017 Bond Issue	\$174,030.00	\$174,030.26	\$530,531.00	\$530,531.26	\$530,000.00
	2018 Bond Issue	\$0.00	\$0.00	\$199,538.00	\$0.00	\$0.00
	2019 Bond Issue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
01.01. 549915	Debt Service Coverage	\$17,403.00	\$0.00	\$73,007.00	\$0.00	\$53,000.00
	Subtotal	\$191,433.00	\$174,030.26	\$803,076.00	\$530,531.26	\$583,000.00
Total Expenses		\$4,464,420.00	\$3,272,143.04	\$4,131,910.00	\$4,502,870.02	\$4,157,300.00
Net Income		\$0.00	\$1,263,597.69	\$0.00	-\$205,295.40	\$0.00

MUNICIPAL WATER AUTHORITY OF ALIQUIPPA
CONSULTING ENGINEER'S ANNUAL REPORT
SEWER FUND
BUDGET VS ACTUAL

		2018 Budget	2018 Actual	2019 Budget	2019 Actual	2020 Budget
Revenue						
<u>Metered Sales</u>						
01.02. 430110	Metered Sales - Domestic	\$1,120,818.50	\$1,104,013.39	\$1,453,338.00	\$1,279,583.40	\$1,300,000.00
01.02. 430120	Metered Sales - Commercial	\$277,493.50	\$119,760.52	\$167,144.00	\$148,433.90	\$150,000.00
01.02. 430130	Metered Sales - Industrial	\$58,007.89	\$19,538.15	\$26,838.00	\$34,792.66	\$35,000.00
01.02. 430140	Sales to Public Agencies	\$231,234.00	\$59,663.19	\$82,005.00	\$63,455.79	\$60,000.00
	Subtotal	\$1,687,553.89	\$1,302,975.25	\$1,729,325.00	\$1,526,265.75	\$1,545,000.00
<u>Public Authorities</u>						
01.02. 430610	Sales to Public Authorities (Hopewell)	\$378,299.11	\$393,938.99	\$378,299.00	\$394,019.80	\$394,000.00
	Subtotal	\$378,299.11	\$393,938.99	\$378,299.00	\$394,019.80	\$394,000.00
<u>Miscellaneous Revenue</u>						
01.02. 431110	Customer Penalties	\$35,000.00	\$43,744.28	\$35,000.00	\$52,986.96	\$35,000.00
01.02. 431620	Sewer Tap Fees	\$0.00	\$2,069.08	\$0.00	\$500.00	\$0.00
01.02. 431630	Employee Contribution	\$32,110.00	\$11,660.00	\$34,580.00	\$17,040.00	\$42,900.00
	Subtotal	\$67,110.00	\$57,473.36	\$69,580.00	\$70,526.96	\$77,900.00
	Total Revenue	\$2,132,963.00	\$1,754,387.60	\$2,177,204.00	\$1,990,812.51	\$2,016,900.00
Expenses						
<u>Collection System</u>						
01.02. 540510	Maintenance of Collection System	\$55,000.00	\$49,496.06	\$50,000.00	\$29,544.57	\$40,000.00
01.02. 544515	Outside Services	\$50,000.00	\$119,121.49	\$50,000.00	\$45,993.77	\$50,000.00
	Subtotal	\$105,000.00	\$168,617.55	\$100,000.00	\$75,538.34	\$90,000.00
<u>Treatment Plant and Pump Stations</u>						
01.02. 542410	Utilities - Power - Treatment Plant	\$40,000.00	\$35,570.91	\$40,000.00	\$33,860.63	\$40,000.00
01.02. 542420	Utilities - Power - West LS	\$1,500.00	\$1,529.01	\$1,500.00	\$1,493.84	\$1,500.00
01.02. 542430	Utilities - Power - Wye LS	\$45,000.00	\$39,832.26	\$45,000.00	\$45,233.17	\$45,000.00
01.02. 542440	Utilities - Power - Golf Course LS	\$3,000.00	\$2,607.62	\$3,000.00	\$2,495.42	\$3,000.00
01.02. 545710	Utility - Gas - Treatment Plant	\$18,000.00	\$15,602.59	\$18,000.00	\$14,742.10	\$18,000.00
01.02. 542450	Utilities - Power - Steel Street LS	\$150.00	\$0.00	\$150.00	\$0.00	\$150.00
01.02. 542460	Utilities - Power - Jail LS	\$1,500.00	\$1,459.23	\$2,000.00	\$1,740.93	\$2,000.00
01.02. 542510	SUPPLIES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
01.02. 542710	Non-Salary Compensation / Meals	\$10,000.00	\$1,265.00	\$1,500.00	\$906.00	\$1,000.00
01.02. 542810	Maintenance of Pump Stations	\$20,000.00	\$52,452.29	\$20,000.00	\$3,498.12	\$10,000.00
01.02. 544210	Operations Salaries	\$301,430.00	\$210,554.35	\$274,220.00	\$187,443.88	\$152,000.00
01.02. 544220	Testing / Sampling	\$15,000.00	\$12,397.98	\$15,000.00	\$24,452.00	\$15,000.00
01.02. 544310	Supplies	\$10,000.00	\$5,358.86	\$10,000.00	\$6,103.00	\$8,000.00
01.02. 544320	Chlorine & Sulfur Dioxide	\$10,000.00	\$15,020.36	\$10,000.00	\$20,820.00	\$20,000.00
01.02. 545215	Outside Services	\$30,000.00	\$550.76	\$15,000.00	\$0.00	\$10,000.00
01.02. 544510	Maintenance of Structures	\$1,000.00	\$112.38	\$1,000.00	\$735.00	\$1,000.00
01.02. 544610	Maintenance of Plant Equipment	\$25,000.00	\$7,312.82	\$15,000.00	\$56,097.45	\$20,000.00
01.02. 544710	Sludge Processing and Disposal	\$17,500.00	\$0.00	\$45,000.00	\$0.00	\$45,000.00
	Subtotal	\$549,080.00	\$401,626.42	\$516,370.00	\$399,621.54	\$391,650.00

**MUNICIPAL WATER AUTHORITY OF ALIQUIPPA
CONSULTING ENGINEER'S ANNUAL REPORT
DEBT SERVICE COVERAGE FACTOR CALCULATOIN
2019 ACTUAL BUDGET**

	<u>REVENUES</u>	<u>EXPENSES</u> ⁽¹⁾	<u>NET INCOME / (LOSS)</u>
WATER	\$ 4,297,575	\$ 3,972,339	\$ 325,236
SEWER	\$ 1,990,813	\$ 1,601,141	\$ 389,672
	\$ 6,288,387	\$ 5,573,479	\$ 714,908

DEBT SERVICES:

2018 Debt Service Payments

2018 Payments

\$ 1,061,063

TOTAL ANNUAL DEBT SERVICE PAYMENT

\$ 1,061,063

TOTAL ANNUAL DEBT SERVICE COVERAGE ⁽²⁾

\$ 146,014

NET REVENUE ⁽³⁾

\$ 860,922

2019 BUDGETED COVERAGE FACTOR

0.81

REQUIRED COVERAGE FACTOR

1.10

⁽¹⁾ Excludes Debt Service

⁽²⁾ Debt Service Coverage for Bond Issue based on 2019 budget

⁽³⁾ Includes Net Income/(Loss) plus Debt Service Coverage

**MUNICIPAL WATER AUTHORITY OF ALIQUIPPA
CONSULTING ENGINEER'S ANNUAL REPORT
DEBT SERVICE COVERAGE FACTOR CALCULATOR
2020 APPROVED BUDGET**

	<u>REVENUES</u>	<u>EXPENSES</u> ⁽¹⁾	<u>NET INCOME / (LOSS)</u>
WATER	\$ 4,157,300	\$ 3,627,300	\$ 530,000
SEWER	\$ 2,016,900	\$ 1,486,900	\$ 530,000
	\$ 6,174,200	\$ 5,114,200	\$ 1,060,000

DEBT SERVICES:

2020 Debt Service Payments

2019 Payments

\$ 1,060,000

TOTAL ANNUAL DEBT SERVICE PAYMENT

\$ 1,060,000

TOTAL ANNUAL DEBT SERVICE COVERAGE ⁽²⁾

\$ 106,000

NET REVENUE ⁽³⁾

\$ 1,166,000

2020 BUDGETED COVERAGE FACTOR

1.10

REQUIRED COVERAGE FACTOR

1.10

⁽¹⁾ Excludes Debt Service

⁽²⁾ Debt Service Coverage for Bond Issue based on 2020 budget

⁽³⁾ Includes Net Income/(Loss) plus Debt Service Coverage

MUNICIPAL WATER AUTHORITY OF ALIQUIPPA

Year 2019/2020 – Schedule of Insurance

POLICY	% WATER	% SEWER	TOTAL PREMIUM AMOUNT	DATE
Selective Insurance Company – Commercial Property Policy No. 2242201	50	50	\$39,145.00	07/05/19 – 07/05/20
Selective Insurance Company – Inland Marine Policy No. 2242201	50	50	Included in Above	07/05/19 – 07/05/20
Selective Insurance Company – Crime Policy No. 2242201	50	50	Included in Above	07/05/19 – 07/05/20
State National Insurance – Auto Policy No. BPF-AU-101194-01	50	50	\$8,249.00	10/19/19 – 10/19/20
State National Insurance – General Liability Policy No. BPF-PK- 101194-01	50	50	\$47,559.00	10/19/19 – 10/19/20
BCS Insurance Company – Cyber Policy No. RPS-P-0285408	50	50	\$2,162.00	10/19/19 – 10/19/20
Selective Insurance Company – Workers Compensation Policy No. WC 9036360	50	50	\$58,356.00	08/01/19 – 08/01/20