### BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

| PETITION FOR APPROVAL OF     |
|------------------------------|
| GWA'S THIRD FIVE-YEAR        |
| FINANCIAL PLAN AND BASE RATE |
| RELIEF                       |

GWA DOCKET 19-08 FY20 RATE DECISION



# Background

GWA and the PUC Consultant Georgetown Consulting Group were able to resolve the issues in this rate case through Stipulations entered into on January 17, 2020. The Parties intend such Stipulations to be a resolution of current issues concerning the rate case. The PUC adopts the ALJ Report filed herein on February 24, 2020, including the Background, Stipulations, and Analysis sections.<sup>2</sup>

### **Determinations**

- 1. In accordance with the Stipulations entered into by the Parties, the PUC should approve the Stipulations and order the Parties, GWA and GCG, to fully perform their obligations and duties under the Stipulations. A true and correct copy of said Stipulations is attached hereto as Exhibit "1".
- 2. On February 12, 2020, GWA and GCG both submitted detailed briefs which more fully explained the Stipulations entered into and the justifications for their provisions. The analyses contained therein adequately explain the bases for the Stipulations. The Parties also presented summaries of their positions at the PUC Work Session on February 19, 2020.
- 3. At the Work Session scheduled on February 19, 2020, GWA and GCG confirmed on the record that they will adhere to every provision in the Stipulations and carry out their obligations under the Stipulations.
- 4. The Stipulations were bargained at arms-length by the Parties and represent a full and final resolution of presently pending issues in the rate case. Each of the Stipulations has a reasonable basis and plausible justification. The agreements reached by the Parties are appropriate and supportable. The PUC should approve the Stipulations.
- 5.—GWA and PUC have complied with notice and other requirements of the Ratepayer Bill of Rights. There is a requirement under the Ratepayer Bill of Rights that must be satisfied before the PUC can properly address a petition for rate increase. 12 GCA §12102.2(d) requires that the PUC, in determining approval of any proposed rate increase, take into account the results of required staffing pattern and manpower

<sup>&</sup>lt;sup>1</sup> Stipulations of the Guam Waterworks Authority and Georgetown Consulting Group on behalf of the Public Utilities Commission of Guam, GWA Docket 19-08, dated January 17, 2020.

<sup>&</sup>lt;sup>2</sup> ALJ Report, GWA Docket 19-08, dated February 24, 2020.

### studies.3

- 6. The statute requires that such study compare GWA with at least four (4) comparable utilities in the U.S. Mainland. The statutory requirements were complied with: on February 18, 2020, GCG filed the Guam Waterworks Authority Staffing Study in this Docket.<sup>4</sup> GCG compared GWA to a cross-section of AWWA water and wastewater utilities. Although GCG found that GWA may be overstaffed in comparison to the mainland utilities, it determined that, for various reasons, the study results were not reliable at the present time.
- 7. GCG recommends at this time that no adjustment to the staffing related revenue requirements be made for FY 2020-2021. PUC supports this recommendation. GWA is not comparable to mainland water/wastewater utilities, as city or county governments often provide services to such entities (unlike GWA). A more detailed staffing study will be performed to support the FY2022 Comprehensive Review and Update of GWA's financial plan. The study should be completed by March 31, 2021.
- 8. In its brief, GWA addressed certain procedural aspects of the process concerning the rate case proceedings and was concerned about the length of time that it has taken to resolve the case and the level of scrutiny. GWA submits that time to resolve this case will be 236 days from the filing of its petition on July 6, 2019, implying that there was inordinate delay in resolving the case. This was a complex rate case; the PUC does not find that there was inordinate delay in this proceeding.
- 9. 12 GCA Sec. 12119 provides: "Failure of the Commission to act upon a rate request change within one hundred twenty (120) days of final filing shall be deemed a final order denying said rate request change for the purposes of this Section." (emphasis added). Should GWA insist that the one-hundred-and-twenty-day period expired before the rate case was addressed, the only result would be an order denying any rate relief.<sup>5</sup>
- 10. Rule 24 (e) of the PUC Rules of Practice and Procedure provides that "the Commission shall act on a utility's application for rate change within one hundred twenty days after the final filing by the utility of all documentation, including responses to discovery, as may be necessary to support the application; provided, however that the ALJ shall make the determination of when this "final filing" has occurred." (emphasis added).
- 11. GWA never requested a determination from the ALJ as to when a "final" filing occurred. There is no "final filing" which commences the running of the 120 days until all responses to discovery are filed. There was a discovery conference between the parties on September 18, 2019. As late as October 16, 2019, GCG was sending discovery responses to GWA's Requests for Information. Furthermore, the Combined Proposed Schedule of the parties provided for filing by GWA of a second set of Requests for Information on January 6, 2020, and GCG responses to GWA's second set of RFI's by January 22, 2020. Under Rule 24 (a), the one hundred and twenty day would not start

<sup>&</sup>lt;sup>3</sup> 12 GCA §12102.2(d).

<sup>&</sup>lt;sup>4</sup> Georgetown Consulting Group, Inc., Guam Waterworks Authority Staffing Study, GWA Docket 19-08, filed February 18, 2020.

<sup>&</sup>lt;sup>5</sup> 12 GCA Sec. 12119.

to run before October 15, 2019, and arguably not until GCG submitted responses to discovery on January 22, 2020.

- 12. As GCG outlined at the Work Session on February 19, 2020, GWA did not provide a Rate Study (rate design analysis) or a cost of service analysis in this docket. It has long been established that a rate study and cost of service analysis are fundamental to regulatory rate proceedings. Both GCG and the ALJ indicated on the record in this proceeding that these studies should ordinarily be a part of a petition to increase rates. GCG has indicated that the length of these proceedings was caused by the need to supplement the record with information that GWA did not provide. Although GWA claims that it met all of the filing requirements, in the 2009 rate case, GWA committed to future rate design changes based upon a Cost of Service Study by July 2011.6
- 13. Given the complex number of issues in the case, the length of the proceedings has not been unreasonable. The Financial Plan included three new debt series issues in 2019, 2022 and 2023. The proceeding included such diverse issues as the magnitude of recurring user rate increases, large debt financings, construction budget prioritization, water loss reduction measures and consumer affordability. There were issues concerning alternative debt financing measures, reduction of debt service coverage ratios, and capitalized interest and principal deferral in bond issuances.
- 14. As to the level of PUC scrutiny in this case, a third GWA rate plan, which would increase rates by 44% over five years, had to be examined carefully and critically. GWA's Twenty-Year Water Resources Master Plan Update proposed a continuing series of rate increases over the twenty-year period of between 4 and 5% annually. Another major concern was that the 58% non-revenue water loss has not improved over many years. Thus, this case justified a high level of PUC scrutiny.
- 15. The Stipulations embody workable solutions which will provide GWA with sufficient revenues to fund its capital improvement programs. A very detailed plan has been adopted to address the water loss issue.
- 16. In its Petition, GWA had originally proposed a rate increase of 10% for FY2020 and 8.5% for 2021. The Stipulation now provides that the agreed increase for Water and Wastewater base rates for FY2020 will be 5% and 5% for FY2021. All FY2020-2021 rates are to be applied across-the-board to all rate classes with no change in the lifeline rates during FY2020 or FY2021.<sup>7</sup>
- 17. These rate revenue increases will be adequate to support GWA operations and maintenance. The two-year cumulative increase has been reduced from 18.5% to 10%, a 45% decrease. The reduction of the original rate request of GWA will result in savings to the ratepayers of \$10 to \$15 million.8
- 18. An issue that GWA raised for the first time in its February 12, 2020, brief, and its presentation before the PUC on February 19,2020, was that the PUC should grant it "compression" on the rate increase for FY 2020. According to GWA, if a 5% rate

<sup>&</sup>lt;sup>6</sup> GWA Docket 09-03, July 27, 2009, GPUC Rate Decision and supporting July 14, 2009, Stipulation, paragraph 8.

<sup>&</sup>lt;sup>7</sup> GCG Presentation before the PUC on February 19, 2020.

<sup>8</sup> Id.

increase were now granted by the PUC effective March 1, 2020, GWA will have been denied the benefit of the increase for the first five months of fiscal year 2020.

- 19. Based upon approval by the PUC of an FY2020 rate increase effective March 1, 2020, GWA is requesting that an increase of 8.57 percent to basic charges and non-lifeline rates be effective on that date and an FY2021 increase of 2%.9
- 20. GWA never presented this request to GCG in the negotiations of the Stipulations. Larry Gawlik of GCG stated at the February 19, 2020, Work Session that there was no discussion on compression included in the Stipulations. GWA GM Miguel Bordallo admitted during the Work Session that it was an "oversight" not to include "compression" in the Stipulations. Compression is not mentioned or included within the Stipulations. It is not appropriate to impose compression when it was not specifically referenced or agreed to in the Stipulations.
- 21. The specific provision in the Stipulation which addresses when the FY2020 Base Rate Increase will become effective states as follows: "The rate increase for FY2020 will take place upon the PUC issuing a final order in Docket No. 19-08...". GWA's position would essentially make the rate increase effective October 1, 2019, which is directly contrary to the express language of the Stipulations.
- 22. In the sentence preceding the above provision, the Stipulations state that the Parties agree to a base rate increase of 5% in FY2020. However, that sentence does not indicate when the base rate becomes effective. The provision previously cited directly addresses that issue and controls general language concerning a 5% increase in FY2020. The Appendix A Proforma also does not specifically address compression nor indicate when the FY2020 proposed rates will go into effect.
- 23. The PUC should deny GWA's request for compression and adopt the position of GCG. Had the Parties discussed and agreed to "compression" there would have been a Stipulation on this issue. The fact that there was not a stipulation indicates that there was no such agreement. An 8.57% rate increase implemented now, immediately, would not be in the best interest of ratepayers.
- 24. The target increases now provided for in FY2022 through 2024 are 5.50% for FY2022, 3% for FY2023, and 2.5% for FY2024. However, such rates are "subject to Adjustment." The FY2022 through FY2024 rates are "proforma", "based on the best estimates that the Parties currently have." These "proforma" rates will be "subject to redetermination after the analytical studies in FY2021 are completed and the FY 2022 Comprehensive Review and Update of GWA's Financial Plan completed." 12
- 25. Rates cannot be set now for FY2022-2024 as there is simply an insufficient record to enable the Parties to set such rates at the present. That is why GWA is being required to conduct the six analytical studies set forth in the Stipulations.

<sup>&</sup>lt;sup>9</sup> GWA Position Statement on Stipulation, pg. 3.

<sup>&</sup>lt;sup>10</sup> Stipulations, pg. 7.

<sup>&</sup>lt;sup>11</sup> GWA Presentation to the Consolidated Commission on Utilities, Regular Meeting, January 28, 2019, at p. 64 of the CCU Board Packet.

<sup>&</sup>lt;sup>12</sup> GCG GPUC Workshop Briefing, pg. 3.

- 26. The PUC should approve the proposed for FY2020 and 2021 as "just" and "reasonable" pursuant to 12 GCA §§ 12116 and 12118. The rates appear to be based upon a reasonable determination of GWA's revenue needs and the cost of the CIP program. The agreement of the Parties to reduce the original rate requests indicates that the interests of the ratepayers have been considered and respected.
- 27. The Water Loss Reduction Program is one of the most significant aspects of the Stipulations. GWA's Rate petition did not include a defined water loss reduction program for the purposes of reducing water loss levels. The Stipulation deals with the substantial problem of water loss at a level of 55-58% that has adversely affected GWA's operations for over 40 years.
- 28. The program includes a comprehensive systemwide water loss reduction assessment and program designed to provide meaningful reductions in water loss volumes (kGal). A water loss reduction plan, including annual loss reduction targets, will be completed and submitted by March 31, 2021, to be considered by PUC in the update to GWA's Five-Year Plan.<sup>13</sup> In FY 2020-2021, GWA will include water loss reduction project spending of no less than \$14M.<sup>14</sup> FY2020 and 2021 production volumes will be adjusted based on projected non-revenue water reduction of 2% of actual FY2019 production and 2.75% of FY2020 production respectively.<sup>15</sup> Measures agreed to in the Stipulations will be undertaken to reduce GWA water loss by 20% over the five-year period.
- 29. The Stipulations address GWA's Capital Financing process. There are presently two separate debt service coverage ratio calculates applicable to GWA's debt borrowing: the bond indenture coverage ratio of 1.25x coverage and the PUC 1.75x coverage target pursuant to the PUC's FY 2005 Rate Order, with the inclusion of Working Capital Reserve fund balances per CCU policy.<sup>16</sup>
- 30. The Parties have agreed that the dual calculations are "uncommon among water system debt issuers", and that a simpler debt service coverage ratio standard should be adopted.<sup>17</sup> The PUC 1.75x standard may exceed coverage levels required for comparable and even more favorably rated water system issuers.<sup>18</sup> Such a standard is a difficult barrier to meet, and in this case would require tremendous rate increases.<sup>19</sup> Therefore, the Parties both recommend that the CCU and PUC provide any necessary policy changes that will allow for the adoption of a 1.40x debt service coverage ratio.
- 31. Adoption of this 1.40x standard will end certain confusion that presently exists, and further provide a standard that is easier to apply and is more acceptable in the national credit market.
- -32. The Parties have further adopted certain agreements as to the Revenue Bond Debt Structure that will be used for the proposed \$134M bond issuance. The first is that the

<sup>&</sup>lt;sup>13</sup> Id. at pg. 9.

<sup>&</sup>lt;sup>14</sup> Stipulations, pg. 9.

<sup>15</sup> Jd.

<sup>&</sup>lt;sup>16</sup> GWA Position Statement on Stipulation, pg. 10.

<sup>17</sup> Id.

<sup>&</sup>lt;sup>18</sup> Id.

<sup>&</sup>lt;sup>19</sup> Statement of Larry Gawlik at PUC Work Session on February 19, 2020.

bond issuance will be structured with two years of capitalized interest. There are arguments for and against capitalization of interest. Such capitalization more closely aligns ratepayer benefit from capital projects with their actual availability. Capitalized interest is generally accepted in regulatory settings as a means to align debt payment obligations to asset in-service dates, and thereby nominally matches revenues and expense.<sup>20</sup>

- 33. Capitalizing costs may place additional pressure on rates outside the current rate application period.<sup>21</sup> Such capitalization merely defers principal payments and will thereafter result in a rate bump or increase when principal/interest payments become due.<sup>22</sup> However, it is clear that, without such capitalization, there would be a more immediate rate impact, and rates would have to increase to enable the bond debt service to be paid. The PUC should approve capitalization of interest for a period of two-years.
- 34. Similarly, the Parties assume that principal payments will be deferred for five years with the upcoming bond issuance. This will defer the rate impact. In this case, if principal payments were not deferred, there would be a "rate bump" in FY2022. The purpose of deferral is "rate smoothing." However, deferral of principal will result in interest being paid on the deferral.<sup>24</sup>
- 35. The five-year deferral of principal payments is justified as a part of the overall rate package. Such deferral will avoid an immediate rate impact during this five-year rate period. It is an appropriate part of the overall rate plan that the Parties have crafted.
- 36. The Parties have also agreed that GWA will explore alternatives to bond financing, such as tax-exempt commercial paper and lines of credit, for future capital borrowing needs. It makes sense for GWA to consider other forms of financing that could reduce the cost of borrowing. These alternatives will require further consideration and approval by CCU, PUC, and possibly the Guam Legislature.
- 37. There are currently pending negotiations between GWA and USEPA concerning a Consent Decree. GWA will likely agree with USEPA to capital programs and projects with spending commitments that will impact future rate revenue requirements. In the Stipulations, the Parties have agreed that, upon completion of substantive Consent Decree negotiations with USEPA, GWA will provide a detailed briefing on the proposed decree to the PUC. The briefing will outline, among other matters, potential GWA spending commitments that will impact future rate revenue requirements and to provide a comparison to what was projected in GWA's Five-Year Financial Plan.<sup>25</sup> This provision in the Stipulations should be approved.
- 38. The ALJ and GWA do not presently agree whether GWA is required to obtain prior approval of its settlement agreement with USEPA before entering into the Consent Decree. It is the ALJ's position that prior PUC approval of such settlement agreement is

<sup>&</sup>lt;sup>20</sup> GWA Position Statement on Stipulation, pg. 12.

<sup>&</sup>lt;sup>21</sup> Id.

<sup>&</sup>lt;sup>22</sup> Statement of Larry Gawlik at PUC Work Session on February 19, 2020.

<sup>&</sup>lt;sup>23</sup> Id.

<sup>&</sup>lt;sup>24</sup> Statement of Eric Rothstein at PUC Work Session on February 19, 2020.

<sup>&</sup>lt;sup>25</sup> Stipulations, pg. 11.

required under Guam statute and the GWA-PUC Contract Review Protocol. 12 GCA Sec. 12105 (e)(1) requires PUC approval of any contract or obligation which could increase rates prior to entry into such contract by GWA. Furthermore, the Contract Review Protocol requires prior PUC review of any contract or obligation which exceeds \$1,000,000.

39. This remains an open issue in this Docket. The PUC retains jurisdiction over such issue and reserves the right to later decide whether PUC prior approval of the Consent Decree Settlement is required pursuant to statute and the Contract Review Protocol.

# **Ordering Provisions**

After careful review and consideration of the above determinations, the Report and Recommendations of the ALJ, and the Stipulations and the record herein, for good cause shown, on motion duly made, seconded and carried by the undersigned Commissioners, the Guam Public Utilities Commission HEREBY ORDERS THAT:

- 1. All rulings and orders of the ALJ in this proceeding are confirmed and ratified. All motions not heretofore granted or denied are denied. No other matters currently require discussion.
- 2. The Stipulations of the Guam Waterworks Authority and Georgetown Consulting Group, on behalf of the Public Utilities Commission of Guam, entered into by the Parties on January 17, 2020 and attached hereto as Exhibit "1", are hereby approved and adopted by the PUC.
- 3. The Parties are hereby ordered and directed to perform and carry out all obligations and duties set forth in the Stipulations.
- 4. GWA is awarded water and wastewater base rate increases of 5.0% in FY2020 and 5.0% in FY2021. The rate increase for FY2020 will be effective upon the issuance of this Decision by the PUC. The FY2021 increase will take effect on October 1, 2020. There shall be no change in the "lifeline" rate for FY2020 and FY2021.
- 5. Based upon the information received by the PUC as of the date of this Decision, the rates proposed by the Parties are "just" and "reasonable" pursuant to 12 GCA §§ 12116 and 12118.
- 6. GWA and GCG have agreed to "proforma" rates for FY2022, 2023, and 2024. However, such rates are not "final" at the present time. Based upon the studies that GWA has agreed to undertake, and the submission of information required -- by the Stipulations, the PUC will undertake an FY2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan. The final rates for those fiscal years will be determined by the PUC based upon the results of the studies to be performed.
- 7. In accordance with the Stipulations, GWA shall undertake various analytical studies to support the FY2022 Comprehensive Review and Update of GWA's Financial Plan and the subsequent annual rate review processes for FY2023 and 2024. The required studies include Demand Forecasting, a comprehensive system-wide Water Loss Reduction program, a Cost of Service/Rate Design

- Study, an Affordability Study (concerning the ability of low-income rate payers to afford the rapidly increasing water and wastewater rates), Financing and Alternatives to Bond Issuance, a review of the Capitalized Labor Expense protocol, and a study designed to connect more rate payers to the wastewater system and cesspool/septic tank elimination.
- 8. On or before May 1, 2021, GWA will file its FY2022 Comprehensive Review and Update to GWA's 5-Year Financial Plan which will compare its forecast to actual performance of GWA revenues and expense categories. Such update will include an analysis of how the Demand Forecast, Water Loss Reduction, Cost of Service study, Affordability study, Financing study and other analyses should be incorporated into the Five-Year Financial Plan.
- 9. GWA shall complete all analytical studies referenced in the Stipulations and file them with the PUC no later than March 31, 2021, to support a Comprehensive Review and Update of GWA's Financial Plan.
- 10. GWA shall comply with its agreement to undertake a comprehensive system wide Water Loss Reduction program designed to provide meaningful reductions in annual water loss volumes (kGal). The annual non-revenue water loss of 55-58%, according to GCG, is "the single most important issue confronting GWA." GCG estimates that these water losses cost Guam consumers an excess of \$10-\$12 million annually in terms of variable cost of water system operations. Future investments for oversizing facilities can be avoided by reducing water loss.
- 11. GWA shall continue its ongoing loss reduction field work with Water Systems Optimization, Inc. GWA will identify water loss reduction projects in accordance with the Stipulations. A Water Loss Reduction Plan, including annual loss reduction targets, will be completed and submitted by GWA to the PUC by March 31, 2021, to be considered in the update of GWA's Five-Year Plan.
- 12. In FY2020-2021, GWA will include water loss reduction project spending of no less than \$14M.
- 13. GWA shall adjust its FY2020 and 2021 water production volumes based on projected non-revenue water reduction of 2% of actual FY2019 production and 2.75% of actual FY2020 production respectively. GWA will undertake all measures agreed to in the Stipulations to reduce GWA water loss by 20% over the Five-Year period.
- 14. GWA shall investigate the availability and relative cost of alternative debt

  -- instruments such as letters-of-credit and surety bonds to fund debt service -- 
  reserves in lieu of bond financing required reserves through debt issuance
  proceeds. If such options are determined to be viable and economical, GWA shall
  recommend to the CCU, Legislature and PUC the approval of such option(s) for
  meeting debt service reserve fund requirements as delineated in GWA's
  Indenture.
- 15. GWA shall investigate the availability and relative cost of the use of commercial paper and lines of credit to finance the ongoing capital construction program following issuance of its Series 2020 revenue bonds. GWA shall complete such

activities in a timely manner to allow adjustment to FY2022-2024 rates in conjunction with the FY2022 Comprehensive Review and Update of GWA's Financial Plan. GWA will provide to the CCU and PUC detailed submissions and briefings on all documentation required for the FY2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan. These submissions and detailed briefings on the submissions, and the GWA rate model adjustments, will be provided to the CCU and PUC by May 1, 2021.

- 16. Both GWA and GCG will support policy changes that create one standard for debt service coverage at 1.40x debt service coverage.
- 17. The Parties shall use best efforts to revise the CCU policy (Resolution No. 21-FY2014) that establishes a cash reserve for the purpose of meeting PUC's current established Aggregate Debt Service Coverage Ratio of 1.75x. Such revision will mean that net revenues are not supplemented with cash reserves.
- 18. The Parties will also use best efforts to revise and clarify the PUC Order, Docket 04-01, FY2005 Rate Order, that establishes a minimum 1.75x coverage ratio for setting just and reasonable rates.
- 19. GWA's Five-Year Financial Plan will be based on a projected fund balance target of not less than \$3 million and a debt service coverage ratio of 1.40x-1.50x.
- 20. GWA's \$134 million Series 2020 bond issue will be structured with a term of thirty (30) years, two (2) years of capitalized interest, assumed to be issued at an average coupon rate of five percent (5%) with cost of issuance equal to two percent (2%) of par. For the Series 2020 bonds principal payments will be deferred for a five (5) year period.
- 21. GWA will re-program all existing non-committed bond fund balances (from its past three issues), in an amount of no less than \$2.7 million, to its capital program, subject to the applicable PUC review procedures and will provide a priority consideration in funding with reprogramed funds non-revenue water projects.
- 22. GWA will use its best efforts to enter into a zero-cost "water exchange" program with Navy. If unable to do so, GWA will prioritize reducing the amount of water purchased from the US Navy and undertake the necessary construction to eliminate Navy water (if supported by a large benefit-cost ratio supporting such construction).
- 23. GWA will ensure that the new SCADA system is designed to assist GWA in the -- identification and detection of water losses and the prioritization and targeting of water loss projects.
- 24. Upon completion of substantive Consent Decree negotiations with USEPA, GWA will provide a detailed briefing on the proposed decree to the PUC. This briefing will outline, among other matters, potential GWA spending commitments that will impact future rate revenue requirements and provide a comparison to what was projected in GWA's Five-Year Financial Plan.

25. The ALJ and GWA do not presently agree as to whether prior PUC approval of the

GWA- USEPA Consent Decree Settlement Agreement is required by Guam statute

and the Contract Review Protocol. This remains an open issue in this Docket. The

PUC retains jurisdiction over such issue and reserves the right to later decide whether PUC prior approval of the Consent Decree Settlement is required pursuant

to statute and the Contract Review Protocol.

- 26. GWA is ordered to pay the Commission's regulatory fees and expenses, including, without limitation, consulting and counsel fees and the fees and expenses of conducting the hearing proceedings. Assessment of PUC's regulatory fees and expenses is authorized pursuant to 12 GCA §§ 12103(b) and 12125(b), and Rule 40 of the Rules of Practice and Procedure before the Public Utilities Commission.
- 27. PUC will keep this docket open in order to conduct all proceedings referenced in the Stipulation. The ALJ is authorized and directed to oversee such administrative tasks and to issue such administrative orders as may be reasonable and necessary to implement this Decision.

[SIGNATURES TO FOLLOW ON NEXT PAGE]

# Dated this 27th day of February, 2020.

| Jeffrey C. Johnson               | Rowena E Perez-   |
|----------------------------------|-------------------|
| Chairman                         | Commissioner      |
| Joseph M. McDonald               | Michael A. Pange  |
| Commissioner                     | Commissioner      |
| Peter Montinola                  | Doris Flores Broo |
| Commissioner                     | Commissioner      |
| Pedro S.N. Guerrero Commissioner | Commissioner      |

# BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN RE: PETITION FOR APPROVAL OF ) DOCKET NUMBER NO. 19-08 GWA'S THIRD FIVE-YEAR FINANCIAL PLAN.

STIPULATIONS OF THE GUAM WATERWORKS AUTHORITY AND GEORGETOWN CONSULTING GROUP ON BEHALF OF THE PUBLIC UTILITY COMMISSION OF GUAM

## PROPOSED STIPULATION

The GUAM WATERWORKS AUTHORITY (hereinafter "GWA") and GEORGETOWN CONSULTING GROUP, INC. (hereinafter "GCG") (hereinafter both jointly referred to as the "Parties"), hereby agree and stipulate to recommend the following to the GUAM PUBLIC UTILITIES COMMISSION (hereinafter "PUC") for approval in Docket No. 19-08:

### PREAMBLE

Whereas GWA published notice in a local paper of its intent to request PUC approval of water and sewer rate increases above existing tariffs on April 6, 2019; and

Whereas GWA conducted no less than seven (7) public hearings over the subsequent weeks, provided notice in the May 2019 customer billing cycle, and gave notice in the paper on June 6. 2019: and

Whereas the Guam Consolidated Commission on Utilities (CCU) under its budgetary authority in Public Law 26-76, by Resolution No. 36-FY 2019, approved filing of GWA's Five-Year Financial Plan on June 5, 2019; and

Whereas GWA petitioned the PUC on July 6, 2019 for approval of its Five-Year Financial Plan and rate relief and submitted a complete application for rate relief in conformance with applicable PUC rules (Part 4: Application for Rate Relief, Rules 19-21); and

Whereas, GCG was authorized by the PUC to serve as Technical Consultants on April 23, 2019 in Docket No. 19-08 to review GWA's Petition and GCG reviewed GWA's Petition and rate filing information; and

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Whereas, the PUC has indicated that it will schedule a public meeting in February 2020 to hear testimony from and receive a briefing on the recommended stipulation between GWA and GCG concerning GWA's Five-Year Financial Plan and rate application; and

Whereas, the Parties jointly recommend that a series of studies be undertaken to provide the PUC critical information upon which to consider adjustments to its FY 2020 – 2024 financial plan; and

Whereas, the Parties jointly recommend that the annual rate review process before the PUC be omitted in FY 2021 and be modified in FY 2022 to provide for a Comprehensive Review and Update of GWA's Financial Plan taking into account the special studies agreed upon in this Stipulation. The Comprehensive Review and Update of GWA's Financial Plan will be used to adjust rates for FY 2022 – FY 2024.

NOW THEREFORE, the Parties Agree to the following Stipulated Provisions which it recommends for approval by the PUC:

### STIPULATED PROVISIONS

I. Analytical Studies to be Undertaken to Support the FY 2022 Comprehensive Review and Update of GWA's Financial Plan and subsequent annual rate review processes.

The following studies must be completed by GWA and filed with the PUC no later than March 31, 2021 for consideration by the PUC in support of a Comprehensive Review and Update of GWA's Financial Plan (as described further below). The studies will be subject to appropriate review and analysis by each Party. The studies include:

- 1. Demand Forecasting GWA must prepare a comprehensive econometric forecast of water sale volumes (kGal) by customer class using a methodology similar to the method used by the Guam Power Authority (GPA) to prepare its electricity sales forecast. GWA may elect to work with GPA in producing this forecast.
  - a. The forecast will consider, as deemed appropriate, variables such as: weather, measures of economic activity, population, construction, water appliance efficiency and conservation measures, tourism and other variables considered relevant.

- b. GWA will consider, as deemed appropriate, modeling the hotel class by individual customer for the largest 10 20 customers and meeting with local hotel facility managers about plans such as expansion and water conservation measures and equipment that they plan to install within the next five (5) years. GWA will consider, as deemed appropriate, the relationship between hotel water consumption, tourist arrivals and room occupancy.
- c. Related projections of GWA water production will be prepared specifically to include consideration of demonstrated impacts of GWA's water loss management initiatives.
- d. The study must be completed no later than March 31, 2021 for consideration by the PUC in the FY 2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan.
- 2. Water Loss Reduction GWA will advance and expand water loss reduction measures including accelerating planned water line replacements, implementation of district metering areas and other high priority measures.
  - a. GWA will undertake a comprehensive systemwide water loss reduction program designed to provide meaningful reductions in annual water loss volumes (kGal) deemed to be economically justifiable. The Parties agree that any water loss reduction project shown in the analytical study to have a benefit-cost ratio above 1.25 will be accelerated to the extent practicable.
  - b. GWA will continue its ongoing loss reduction field work with Water Systems Optimization, Inc. (WSO), or other experts, for the purpose of identifying implementable loss reduction measures and appropriate loss reduction targets for its water system. GWA will evaluate calendar year 2020 outcomes of water loss reduction efforts in district metering areas for consideration in making adjustments to its FY 2022 2024 water production and variable expense estimates.
  - c. GWA will identify water loss reduction projects and the corresponding benefit-cost ratio associated with each project and will rank each water loss reduction project with a benefit-cost ratio above 1.0 from the highest to the lowest. Documentation of water loss reductions achieved for the period and a comprehensive five (5) year (FY 2022 2026) water loss reduction plan (inclusive of annual loss reduction targets using appropriate and industry standard metrics)

by the PUC in the FY 2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan.

Annually, GWA will provide to the PUC information on results achieved, allowing

will be completed and submitted no later than March 31, 2021 for consideration

- d. Annually, GWA will provide to the PUC information on results achieved, allowing the PUC to actively monitor and independently verify GWA's progress in water system loss reduction and its undertaking of the water loss reduction projects stipulated to in this proceeding. The annual report will be prepared in a form mutually agreeable by the Parties. These annual updates will include the identification of potential barriers to achievement of loss reduction targets and identification of any corrective actions required to ensure the targets are achieved.
- 3. Cost of Service/Rate Design GWA must conduct a water and wastewater cost of service and rate design (COS) study that independently examines the allocation of costs to all customer classes of both the water and wastewater systems employing analysis methodologies as outlined in the American Water Works Association's (AWWA) and Water Environment Federation's (WEF) manuals of standard practice.
  - a. The COS study will examine GWA's current allocation of costs to its various water and wastewater customer classifications and present alternatives to GWA's current rate designs to support low-income affordability and water conservation objectives. The study must be completed and submitted to the PUC to support the FY 2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan.
- 4. Affordability GWA will prepare an evaluation of household water affordability using measures as outlined in the AWWA/NACWA<sup>2</sup>/WEF report submitted to EPA in May 2019,<sup>3</sup> and will prepare Financial Capability Assessment (FCA) information using its recommendations.
  - a. In conjunction with GWA's COS study, GWA will prepare an evaluation of options to address low-income water affordability challenges through both the

AWWA Manual of Practice (M1), <u>Principles of Water Rates</u>, Fees and Charges, 7th Edition and WEF Manual of Practice (No. 27), <u>Financing and Charges for Wastewater Systems</u>, 4th Edition.

<sup>&</sup>lt;sup>2</sup> National Association of Clean Water Agencies (NACWA).

<sup>&</sup>lt;sup>3</sup> "Developing a Framework for Household Affordability and Financial Capability Assessment in the Water Sector," prepared by Raftelis, Galardi Rothstein Group, and Corona Consulting for the American Water Works Association, National Association of Clean Water Agencies, and Water Environment Federation, completed in April 2019 and submitted to US EPA in May 2019.

 design of a Customer Assistance Program and revision of its current residential lifeline rate structure. The study will consider alternative low-income Customer Assistance Programs (CAP) and the financing of such programs (intra- and interclass subsidies) as well as rate design alternatives.

- b. The Parties agree that reasonable efforts will be made to provide for water rates that result in an improvement in the affordability of basic water service and consider cost impacts of all Guam utilities on low-income customers. The study will be completed and submitted no later than March 31, 2021 to the PUC to support the FY 2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan.
- 5. Capital Financing GWA agrees to pursue legislative and other actions necessary, including working with the PUC and the Guam Economic Development Authority (GEDA) and appropriate financial advisors to enable access to certain financing tools, and to modify selected financial policies. GCG agrees to support GWA's actions before the PUC in pursuing the following enhancements to its financing vehicles:
  - a. GWA agrees to investigate the availability and relative costs of alternative debt instruments such as letters-of-credit or surety bonds to fund debt service reserves in lieu of bond financing required reserves through debt issuance proceeds. If determined to be viable and economical, GWA agrees to recommend to the CCU, Legislature and PUC the approval of this option for meeting debt service reserve fund requirements delineated in GWA's indenture.
  - b. GWA agrees to investigate the availability and relative costs of the use of commercial paper or lines of credit to finance its ongoing capital construction program following issuance of its Series 2020 revenue bonds. If determined to be viable and economical, GWA agrees to seek necessary approvals to allow GWA the option to employ commercial paper for prospective capital financing.
  - c. These activities will be completed a timely manner to allow adjustment to FY 2022 2024 rates in conjunction with the FY 2022 Comprehensive Review and Update of GWA's Financial Plan. Given the uncertainty of both the availability and costs of these alternative financing options, the Parties agree that the stipulated FY 2020 and FY 2021 rates will not assume the availability of these instruments.

- 6. Capitalized Labor GWA agrees to undertake a review of its current capitalized labor expense protocol to be completed no later than March 31, 2021 to support the FY 2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan.
- 7. Cesspool/Septic Tank Elimination GWA agrees to investigate options to enhance compliance with Title 10, Chapter 48, Toilet Facilities and Sewage Disposal, potentially including legislatively approved transfer of regulatory authority to GWA. GWA will complete its septic tank / cesspool review and analysis, and provide its recommendations to the PUC for review and consideration no later than March 31, 2021.
  - a. GWA will identify all residential facilities with 200 ft. of an existing GWA sanitary sewer line or 1000 ft. of a GWA water well that require specific action steps to be taken by GWA in accordance with Chapter 48. GWA will estimate the potential consumer and GWA investments required, identify potential sources of funding these investments and estimate GWA revenue impacts and expenses of implementation.
  - b. GWA will consider alternative funding mechanisms to assist consumers in connecting to the sewer system, including use of the SDC fund to increase the funds available in the sewer connection revolving fund. GWA will evaluate potential obstacles, if any, to using the SDC fund and outline potential solutions. Other funding mechanisms may be explored as well including private sector financing.
  - c. GWA agrees to notify the CCU and PUC on a timely basis if potential barriers, including funding and procurement issues, may preclude completion of the above-listed studies by the completion dates scheduled and to request necessary modifications and approval of any changes.
- FY 2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan -The review will require GWA to supplement the filings of the studies enumerated below with reporting to the PUC by May 1, 2021 on:
  - a. Forecasted (per the stipulated FY 2020 2024 rate plan) versus actual performance by the categories of GWA revenues and expense included in GWA's Five-Year Financial Plan filed with the PUC on July 6, 2019. This variance analysis reporting will address and explain, through narrative and supporting analyses, reasons for variances between forecasted and actual (FY 2020 audited data and FY2021 YTD

- data) performance greater than 5 percent. PUC may ask for further explanation of other documented variances throughout the review process.
- b. GWA will submit proposed updates to its Five-Year Financial Plan for FY 2022 2024 and supporting rate model based in part on the findings and recommendations of the studies enumerated above. GWA will provide documentation of how findings of each study were incorporated into GWA's revised financial plan by major categories of GWA revenues and expense.
- c. GWA will provide documentation including, but not limited to a petition, reports, memos, spreadsheets and workpapers outlining how the findings and recommendations of the GWA demand forecast, water loss reduction, cost of service, affordability, capital financing, and other analyses are proposed to be incorporated into the FY 2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan.

The FY 2022 Comprehensive Review and Update to GWA's Five-year Financial Plan contemplates an enhanced annual rate review process and specifically does not constitute a new GWA rate application. GWA will provide both the CCU and PUC detailed submissions and briefings on these submissions and GWA rate model adjustments by May 1, 2021. As noted below, GWA will respond to Requests for Information or PUC submittals regarding the studies and GWA rate model adjustments on a timely basis throughout the review process. PUC action on the FY 2022 Comprehensive Review and Update to GWA's Five-year Financial Plan is anticipated by September 2021. The review process is recommended by the Parties to provide for full and appropriate consideration of the studies that GWA has agreed to complete by March 31, 2021.

# II. GWA's FY 2020 - FY 2024 Financial Plan

- 1. FY 2020 2021 Base Water Rates By this Stipulation, the Parties agree to the proforma results of operations contained in the detailed Attachment A for the period FY 2020 2021 that memorializes the details of projections that the Parties have agreed to recommend to the PUC for its review and approval.
- 2. FY 2020 FY 2021 Base Rate Increase Implementation The Parties agree to the stipulated water and wastewater base rate increases of 5.0 % in FY2020 and 5.0% in FY2021. The rate increase for FY 2020 will take place upon the PUC issuing a final order in Docket No.

19-08 and for FY 2021 will take effect on October 1, 2020. There will be no change to the "lifeline" rate for FY2020 and FY2021.

- 3. DSCR The Parties acknowledge that the projected debt service coverage ratio (DSCR) for FY2020-2021 is below the target of 1.75x the PUC has set to be achieved for ratemaking purposes.
- 4. Policy Changes The Parties will use best efforts to secure revisions to CCU and PUC policies related to minimum debt service coverage levels:
  - a. Revision of the CCU policy (adopted by Resolution No. 21-FY2014) that calls for funding of a Working Capital and Debt Service Reserve that "serves to establish a Cash Reserve for supplementing Net Revenues for the sole purpose of meeting the PUC's currently established ADSCR [Aggregate Debt Service Coverage Ratio] requirement that Net Revenues will be 175%- or 1.75 times annual debt service." The revision would provide for meeting of a PUC minimum ADSCR target based on a calculation consistent with GWA's indenture (and common municipal finance practice) that does not supplement Net Revenues with such reserves.
  - b. Revision and clarification of the PUC's order (Regulatory Review of GWA Interim Financial Plan Under Federal Court Order in Civil Case 02-35 Docket 04-01: FY 2005 Rate Order) that a minimum 1.75x coverage ratio is established for purposes of setting just and reasonable rates for GWA (Paragraph 8, p. 5).
  - c. The Parties to this stipulation agree to support the approval of both policy changes inclusive of a minimum 1.40x debt service coverage ratio. It is further recommended that as part of CCU and PUC's consideration of alternative debt financing instruments, the PUC debt service coverage policy be reevaluated based on references to credit rating agency medians of comparable and favorably rated debt issuers and consideration of customer affordability of utility services.
- 5. kGal Water Sales For purposes of the FY 2020 2021 revenue requirements, the Parties stipulate that the annual water sales volumes by customer class will not be adjusted from GWA's original July 6, 2019 rate application. Adjustments may be implemented beginning in FY 2022 based on the results of the supporting "Analytical Studies" enumerated above that will be incorporated into the FY 2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan.

- 6. Water Loss Reduction Program The Parties stipulate GWA will be deploying an aggressive water loss reduction program. For purposes of FY 2020 2021, GWA's water production forecast will be adjusted to reflect anticipated reductions in water losses due to GWA's expansion and acceleration of water loss reduction measures:
  - a. FY 2020 production volumes will be adjusted based on a projected reduction of non-revenue water by 2.00% of actual FY 2019 production (adjusted for partial year implementation, which implementation will begin no later than March 1, 2020).
  - b. FY 2021 production volumes will be adjusted based on a projected non-revenue water reduction of an additional 2.75% of actual FY 2020 production for a cumulative total of 4.75% (adjusted for FY 2020 partial year implementation).
  - c. GWA will include planned water loss reduction project spending for FY 2020 2021 of no less than \$14 million. GWA will consider the efficacy of alternative project delivery options to effect acceleration of water loss reduction project implementation.
- Labor/Benefits Expenses The Parties stipulate to the GCG adjustments for FY
   2020 2021 of Personnel Salary and Benefits expenses. Projected annual expense reductions are:

| FY 2020     | FY 2021     |
|-------------|-------------|
| \$2,248,207 | \$1,958,153 |

8. Variable Operations and Maintenance Expenses – The Parties stipulate to the GCG adjustments for FY 2020-2021 of certain variable (e.g., water production dependent) expenses These adjustments relate to water purchases, salaries and benefits, contractual expenses, and Administrative and General expenses (inclusive of related power expense impacts) and were determined by applying unit savings estimated by GCG to the volume reductions outlined herein. Projected annual expense reductions are:

| FY 2020     | FY 2021     |
|-------------|-------------|
| \$2,030,877 | \$3,703,629 |

- 9. Capital and Financing Programs The Parties have agreed to the following for purposes of development of GWA's Five-Year Financial Plan:
  - a. GWA's financial plan will be based on a projected fund balance target (as shown in Attachment A) of not less than \$3 million and a debt service coverage ratio<sup>4</sup> of 1.40x 1.50x.
  - b. GWA's \$134 million Series 2020 bond issue will be structured with a term of thirty (30) years, two (2) years of capitalized interest, and assumed to be issued at an average coupon rate of five percent (5%) with costs of issuance equal to two percent (2%) of par. For the Series 2020 bonds principal payments will be deferred for a five (5) year period.
  - c. GWA will re-program all existing non-committed bond fund balances (from its past three issues) in an amount of no less than \$2.7 million to its capital program (see Attachment B), subject to applicable PUC review procedures and will provide a priority consideration to funding with reprogramed funds non-revenue water projects.

# III. Potential Capital and Financing Program Revisions

Based on outcomes of the efforts outlined in item number 5 above to be completed by March 31, 2021, the Parties stipulate to the following (which may result in adjustments to GWA's Financial Plan):

- a. GWA's targeted debt service coverage ratio<sup>5</sup> of 1.40x 1.50x may be adjusted based on evaluation of potential policy changes enumerated in 4 (c) above.
- b. Use of up to \$50 million in commercial paper or lines-of-credit, to the extent allowed by GWA enabling legislation and if cost-effective, may be used to augment GWA's ongoing construction capital requirements with available capital funds.
- c. GWA will seek to lower the financing cost associated with the capital funding of debt service reserve funds for subsequent borrowings by using letters-of-credit or surety bonds as allowed by GWA enabling legislation.

<sup>&</sup>lt;sup>4</sup> As traditionally calculated as the ratio of net operating expenses divided by scheduled debt service payments per GWA's bond indenture (without adjustment for debt service reserve funds).

<sup>&</sup>lt;sup>5</sup> As traditionally calculated as the ratio of net operating expenses divided by scheduled debt service payments per GWA's bond indenture (without adjustment for debt service reserve funds).

# IV. Water Loss Reduction Targets

The Parties stipulate that the water loss reduction targets for the water system will be based on the work of WSO and GWA who will prioritize each water loss reduction project based on its respective benefit-cost ratio. The Parties agree that the water loss reduction targets should reflect an aggressive approach to water loss management with the objective to have GWA's water loss rates compare favorably with established industry benchmarks as soon as reasonably possible within a twenty (20) year period. The capital investment program will be reprogramed as necessary starting with projects having the highest benefit-cost ratio to achieve these targets. Further:

- a. GWA will use its best efforts to enter into a zero-cost "water exchange" program with Navy. Absent the ability to enter into a zero-cost exchange program, GWA will prioritize reducing the amount of water purchased from the US Navy or undertake the necessary construction to eliminate Navy water (if supported by a large benefit-cost ratio supporting such construction).
- b. GWA will ensure the new SCADA system is designed to assist GWA in the identification and detection of water losses and the prioritization and targeting of water loss projects.
- c. For the period FY2020-2024 GWA's water loss reduction targets will be as determined through the study to be completed by March 31, 2021 with designated benchmarks to reduce water losses by 20% as compared to its 2019 water loss level and to the median level of comparable water utilities in the US Mainland in less than twenty (20) years from 2019.

## V. Consent Decree:

Upon completion of substantive Consent Decree negotiations with USEPA (and lifting of confidentiality restrictions), GWA will provide a detailed briefing on the proposed decree to the PUC. This briefing will outline, among other matters, potential GWA spending commitments that will impact future rate revenue requirements and to provide a comparison to what was projected in GWA's Five-Year Financial Plan.

# VI. Requirements of 12 GCA § 12102.2. (d) Staffing Study

27. 

 The Parties acknowledge that the PUC, pursuant to 12 GCA 12102.2 (d), Proposed Public Utility Rate Increases, is required to conduct studies comparing the staffing pattern and manpower levels of GWA and other utilities under their purview to the staffing patterns and manpower levels of at least four (4) mainland utilities providing similar services with a comparable number of customers. The Parties acknowledge that the PUC must, in determining approval of any proposed rate increase, take into account the results of such staffing studies.

- a. GCG conducted a staffing study pursuant to the statute comparing GWA to a large cross-section of water utilities. The results indicate GWA is an outlier when compared directly to this cross-section of mainland water/wastewater utilities participating in the annual AWWA Benchmarking Review and has a greater manpower level than participating utilities.
- b. GCG does not believe the data in the AWWA Benchmarking Review is directly comparable to GWA as many mainland water systems included in the review are part of city or county governments wherein the utility is provided services such as IT, procurement, HR, finance and other services from the county or municipal government.
- c. Any realistic comparison will be difficult given the unique nature of the Guam water system due in part to the inheritance of the legacy systems of the US Navy and the Public Utility Agency of Guam systems. For this reason, we do not believe it appropriate that the staffing study performed be used by the PUC at this time.
- d. The Parties recommends that the Analytical Studies to be Undertaken to Support the FY 2022 Comprehensive Review and Update of GWA's Financial Plan include a more detailed staffing study by the PUC taking into account many of the issues that have surfaced such as: elasticity/affordability/age of the system and resulting system losses that may enable a future smaller and efficient system. This study should be completed by March 31, 2021.
- e. GCG recommends no adjustment to GWA staffing for FY 2020 FY 2021 is appropriate at this time.

## VII. Procedural Provisions

The FY 2022 Comprehensive Review and Update to GWA's Five-Year Financial Plan will be an abbreviated proceeding designed to take into consideration all the required studies that are to be submitted no later than March 31 of 2021 along with any legislative authorization or

statutory changes GWA has pursued in furtherance of this stipulation. GWA will file its proposed FY 2022 Comprehensive Review and Update to its Five-Year Financial Plan for PUC review no later than May 1, 2021 – giving the PUC ample opportunity for RFI's and responses to be exchanged prior to the September PUC meeting for approval.

SO STIPULATED this 17th day of January 2020.

## **GUAM WATERWORKS AUTHORITY**

BY: KELLY O. CLARK
GWA GENERAL COUNSEL

GEORGETOWN CONSULTING GROUP, INC.

BY: JAMSHED MADAN

ATTACHMENTS A & B

# GUAM WATERWORKS AUTHORITY

# PROPOSED 5-YEAR FINANCIAL PLAN 2020 - 2024

|  |               |   | Projection   |                 |              |
|--|---------------|---|--------------|-----------------|--------------|
|  | 2020          | 2021                                    | 2022         | 2023            | 2024         |
| Basic Chame -Water   | F 00%         | , OUG                                   | 200          | 7800 0          | ò            |
| Lifetine Ingresses   | 2000          | 200.0                                   | 5.30%        | 3.00%           | 2.5U%        |
| Non History Institute  | 8000          | 2002                                    | 0.00%        | 0.00%           | %.0c.2       |
|  | 3.00%         | 3,00%                                   | 2.50%        | 3.00%           | Z.5U%        |
| Legistative Surcharge  | 3.60%         | 3.60%                                   | 3.50%        | 3.40%           | 3.45%        |
| Customer Growth  | 0.50%         | 0.50%                                   | 0.50%        | 0.50%           | 0.50%        |
| Demand Growth  | 0.00%         | %00.0                                   | %00.0        | %00.0           | 0.00%        |
| OPERATING REVENUES   | 120 007 713   | 175 A18 A35                             | 130 046 075  | 425 575 95E     | 120 454 045  |
| (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c   | ŀ             | 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. |              |                 | 100,104,040  |
| The second secon | 4 16/678'6/ e | 4,430,0/4                               | _            | 4 43,856,280 \$ | 86,029,337   |
| yyastewater Kevenues   | 42,401,836    | 44,115,188                              | 46,589,441   | 47,746,340      | 48,989,606   |
| Legislanve Surcharge   | 3,680,126     | 3,866,573                               | 3,968,438    | 3,973,236       | 4,135,102    |
| Other Revenues   | 431,932       | 430,737                                 | 433,741      | 432,137         | 432,205      |
| System Development Charge  | 914,964       | 929,304                                 | 832,509      | 892,259         | 884,691      |
| Total Operating Revenues   | 121,354,609   | 126,778,476                             | 133,313,225  | 136,900,252     | 140,470,940  |
| O & M EXPENSES   |               |   |              |                 |              |
| Power Purchage   | 13 360 490    | 42 ORE 57B                              | 49 497 999   | 11 424 804      | 40 000 475   |
| Water Purchases  | 0 798 887     | 10 123 306                              | 12,437,363   | 11,464,391      | 10,039,470   |
|  | 23.083.877    | 23 108 884                              | 22 814 888   | 22 164 741      | 21 996 191   |
|  |               |   | 201110100    |                 | 21,222,12    |
| Salaries and Benefits  | 24,627,194    | 26,814,544                              | 28,847,199   | 30,089,804      | 31,344,171   |
| Intentionally Left Blank   | 40,000        | 000                                     |              |                 |              |
| Administrative and Ceneral Expenses intentionally Left Blank   | 12,020,482    | 12,262,728                              | 12,155,884   | 12,237,962      | 12,523,694   |
| Depreciation Expense   | 21,962,670    | 22.271.032                              | 22,300,621   | 22.648.171      | 24.038.420   |
| Intentionally Left Blank   | •             |   |              |                 |              |
| Contractual Expense<br>Intentionally Left Blank  | 6,025,390     | 7,305,994                               | 7,222,396    | 7,704,660       | 8,339,540    |
| Retiree Supplemental Annuities/Health care costs   | 2 769 470     | 9 093 480                               | 040          | 7 200 482       | 7 400 007    |
| Total Operating Expenses   | 91,483,090    | 95,696,362                              | 97,453,007   | 99,145,822      | 102,741,110  |
|  |               |   |              |                 |              |
| Earnings (Loss) from Operations  | 29,871,519    | 31,082,114                              | 35,860,218   | 37,754,430      | 37,729,830   |
| Interest Income-Bond 2013,2014 Refunding,2016,2017 Refunc  | 1,350,758     | 1,539,593                               | 1.303.222    | 1,397,858       | 1.413.558    |
| Interest Income-Other Funds  | 216,573       | 248,637                                 | 210,495      | 225,235         | 228,122      |
| Interest Income-SDC  | 25,567        | 29,850                                  | 26,760       | 27,392          | 28,001       |
| Interest Expense-Bond 2013,2014 Refunding,2016,2017 Refur  | (32,105,188)  | (31,659,950)                            | (31,189,350) | (34,944,625)    | (34,425,013) |
| Interest Expense-BOG   | (67,345)      | •                                       |              |                 | •            |
| merest ExpenseCommercial Paper<br>AFUDC  |               |   | 280,000      | •               | 340,000      |
| Amortization of Discount, Premium and Issuance Costs   | (403.640)     | (276.930)                               | (298.049)    | (306.206)       | (300 395)    |
| Grants & other contributions (net of federal expenditures)<br>Defened outflows from Pension  | 39,732,857    | 39,732,857                              | 33,430,130   | 8,000,000       | 8,000,000    |
|  | (111111)      | (004/004)                               | (enninne)    | (016,102)       | (200,100)    |
| Net Income (Loss)  | 38,276,987    | 40,426,908                              | 39,316,739   | 11,846,108      | 12,716,771   |
| INCREASE (DECREASE) in Capital   | 38,276,987    | 40,426,908                              | 39,316,739   | 11,846,108      | 12,716,771   |
| -  |               |   |              |                 |              |
| BOND DEBT SERVICE  | 34,175,188    | 34,229,950                              | 40,934,350   | 40,929,625      | 40,935,013   |
|  |               |   |              |                 |              |

1 of 2

# GUAM WATERWORKS AUTHORITY

# PROPOSED 5-YEAR FINANCIAL PLAN 2020 - 2024

|   |                    |              | Projection   |               |                         |
|---|--------------------|--------------|--------------|---------------|-------------------------|
| <b>!</b>  | 2020               | 2021         | 2022         | 2023          | 2024                    |
| DEBT SERVICE COVERAGE CALCULATION - Section 6.12 Earnings II has from Chaseling | 20 074 540         | 24.000.444   | 600          |               | 9                       |
| Farmings (1998) Hotel Operations  | 816,110,82         | 51,062,114   | 317,008,cc   | 37,734,430    | 37,729,830              |
| ODI A   | Z16,5/3<br>644 877 | 248,637      | 210,495      | 225,235       | 228,122                 |
| System Development Charge   | (914.964)          | (929,304)    | (832 509)    | (802.250)     | (884.604)               |
| Depreciation  | 21,962,670         | 22,271,032   | 22,300,621   | 22.648.171    | 24.038.420              |
| Balance Available for Debt Service - Section 6.12                               | 51,780,674         | 53,360,999   | 58,273,942   | 60,520,445    | 61,949,666              |
| Debt Service Coverage (1.25X) - Section 6.12                                    | 1.52               | 1.56         | 1.42         | 1.48          | 1.51                    |
| DEBT SERVICE COVERAGE CALCULATION - PUC Debt Ratio                              | 1                  |              |              | ;             | :                       |
| Dalance Available for Dedt Service<br>Transfer - Reserve for O.8 M              | 51,780,674         | 53,360,999   | 58,273,942   | 60,520,445    | 61,949,666              |
| Transfer - Reserve for Debt Service   |                    |              |              |               |                         |
| 2017 Refunding bond savings   |                    |              |              |               |                         |
| Available for Debt Service •Reserve for Debt Service                            | 11,217,733         | 11,217,733   | 11,217,733   | 11,217,733    | 11,217,733              |
| Balance Avaliable for Debt Service - PUC  | 62,998,408         | 64,578,733   | 69,491,677   | 71,738,178    | 73,167,399              |
| Dabt Service Coverage (1.75X) - PUC   | 1.84               | 1.89         | 1.70         | 1.75          | 1.79                    |
|   |                    |              |              |               |                         |
| Requested<br>Amount at 1.4  | 51,780,674         | 53,360,999   | 58,273,942   | 60,520,445    | 61,949,666              |
| Reduced Revenues  |                    | 5,439,069    | •            | 3.218.970     | 57,309,018<br>4.640,649 |
| % of revenues   | 3.3%               | 4.3%         | 0.7%         | 2.4%          | 3.3%                    |
| CASH FLOW STATEMENT   |                    |              |              |               |                         |
| Net Income (Loss)   | 38,276,987         | 40,426,908   | 39,316,739   | 11.846.108    | 12,716,771              |
| Depreciation & Amortization   | 22,366,310         | 22,547,962   | 22,598,670   | 22,974,378    | 24,338,815              |
| AFUDC   |                    | . ;          | • :          | •             | 1                       |
| Principal Payments - Bonds<br>Working Capital Change (Increase) Decrease        | (8,770,000)        | (9,270,000)  | (9,745,000)  | (10,235,000)  | (10,760,000)            |
| Principal Payments-BOG  | (2,780,552)        | (151,131)    | (955,530)    | (22,452)      | (318,479)               |
| Transfer to Trust   | •                  |              | •            | •             | •                       |
| Deferred outflows from pension  | 344,114            | 269,263      | 306,689      | 287,976       | 297,332                 |
| Denosite Bond Proceeds  | 134,000,000        | •            |              | 85,000,000    | •                       |
| Deposit to CAP Interest Fund  | (13.400.000)       |              |              | (84,084,365)  | • 1                     |
| Deposit to Debt Service Reserve Fund  | (\$8,994,419)      | •            |              | (\$5.705.415) | •                       |
| Cost of Issuance/Underwriter Discount   | (2,680,000)        |              |              | (1,700,000)   | •                       |
| Loss on Dereasance Bond/Amortization of Disct, Premitim&lestranceCost           | 403,640            | 276,930      | 298,049      | 326,206       | 300,395                 |
| Revenue Funded CAPEX  | •                  | •            |              | ,             |                         |
| Bond Reserve Requirement  | 1                  | •            | •            | •             | (449,399)               |
| System Development Charge   | 500,000            | 200'000      | 200,000      | 500,000       | 200,000                 |
| Working Capital Reserve for CAPEX/PAYGO   | (17,000,000)       | (12,400,000) | (17,500,000) | (17,500,000)  | (15,000,000)            |
| Working Capital Reserve for Debt Service  | •                  | (8,000,000)  | ,            | •             | ,                       |
| Grants and Contributions  | (39,732,857)       | (39,732,857) | (33.430.130) | (8.000.000)   | (8.000.000)             |
| Transfer from Capitalized Interest Fund   | 6,700,000          | 6,700,000    | •            | 4,250,000     | 4,250,000               |
| Fnor Year Adjustment & Loss on Asset Disposal/Invty writedov                    | •                  | •            | 1            | •             | •                       |
| Cash Surplus (Deficit)  | (570,680)          | 776,075      | 1,412,686    | 3,824,247     | 7,874,436               |
| Beginning Balance   | 4,962,086          | 4,391,406    |              | 6,580,167     | 10,404,414              |
| J   | ۱                  | 5,157,481 \$ | 6,580,167 \$ | 10,404,414    | 18,278,850              |

| GWA Cat    | GWA Cat GCG Cat | Project#                                    | Project Description  | FY2020 FY<br>Total To | FY2021 FY2022<br>Total Total | l l   | FY2023 FY2024<br>Total Total | FY2024<br>Total | Subtotal By Project<br>FY20-FY24 |
|------------|-----------------|---|--|-----------------------|------------------------------|-------|------------------------------|-----------------|----------------------------------|
| ΡW         | П               | PW 09-09                                    | Water Reservoir Internal/External  | 0                     | 0                            | 0     | o                            | 0               |                                  |
| ΡW         | 0               | PW 05-08                                    | Barrigada Tank Repair/Replacement  | 0.000                 | 0000                         | 0.000 | 0.000                        | 0000            | •                                |
| ΡW         | ᆏ               | PW 09-11                                    | Water System Reservoirs 2005 Improvements  | 27891                 | 1000                         | 1000  | 1000                         | 0               | 30,891                           |
| ΡW         | ⊣               | PW 11-02                                    | Ugum Water Treatment Plant Reservoir   | 7500                  | 0                            | 0     | 0                            | 0               | 7,500                            |
| ΡW         | ↔               | PW 12-04                                    | Agana Heights & Chaot Tanks  | 0                     | 0                            | 0     | 0                            | 0               |                                  |
| ΡW         | ₩               | PW 12-05                                    | Tank Major Repair Yigo #1, Mangilao #2, Astumbo #1   | 0                     | o                            | 0     | 0                            | 0               |                                  |
| ΡW         | ↔               | PW 12-06                                    | Tank Replacement Piti & Hyundai  | 9200                  | 0                            | 0     | 0                            | 0               | 6,500                            |
| Μd         | Н               | MP-PW-Tank-22                               | Existing Tank Inspections  | 150                   | 0                            | 0     | 0                            | 0               | 150                              |
| Μd         | Н               | MP-PW-Tank-23                               | Recurring Tank Inspections   | 200                   | 200                          | 214   | 214                          | 214             | 1,042                            |
| WW         | <b>.</b>        | WW 11-03                                    | Baza Gardens STP Replacement   | 0                     | 550                          | 0     | 0                            | 0               | 550                              |
| WW         | -               | WW 11-08                                    | Agat/Santa Rita STP Replacement  | 0                     | 0                            | 0     | 0                            | 0               | ,                                |
| WW         | ᆏ               | WW 12-01                                    | Northern District WWTP Primary Treatment Upgrades  | 0                     | 0                            | 0     | 0                            | 0               |                                  |
| MM         | Н               | WW 12-07                                    | Umatac Merizo STP Replacement  | 0                     | 0                            | 0     | 0                            | 0               | •                                |
| Subtotal   | GCG Cat = .     | Subtotal GCG Cat = 1 "Court Order Projects" | <b>131</b>   | 42.241                | 1 750                        | 1.214 | 1214                         | 214             | 46 633                           |
|            |                 |   | THE PROPERTY OF THE PROPERTY O |                       |                              |       |                              |                 |                                  |
| 88         | 7               | WW 05-04                                    | Wastewater System Planning   | 150                   | 0                            | 0     | 0                            | 0               | 150                              |
| ××         | 7               | WW 09-01                                    | Lift station upgrades  | 1200                  | 1000                         | 0     | 2000                         | 2291            | 6,491                            |
| WW         | 7               | 90-60 MM                                    |  | 2000                  | 2000                         | 0     | 2000                         | 2000            | 8,000                            |
| ww.        | 2               | WW 17-02                                    | Northern District WWTP Secondary Treatment Upgrades  | 0                     | 0                            | 0     | 0                            | 0               | •                                |
| ***        | 2               | MP-WW-Pipe-01                               | Gravity Pipe Rehabilitation/Replacement Program  | 170                   | 2000                         | 5346  | 750                          | 6186            | 14,452                           |
| ww.        | 7               | MP-WW-Pipe-02                               | Barrigada Pump Station Pipe Rehabilitation/Replacement   | 0                     | 0                            | 411   | 3218                         | 0               | 3,629                            |
| ww.        | 2               | MP-WW-Pipe-03                               | Route 1 Piti Pipe Rehabilitation/Replacement   | 2340                  | 0                            | 0     | 0                            | o               | 2,340                            |
| WW         | 7               | MP-WW-Pipe-04                               | Sputhern Link Pump Station Pipe Rehabilitation/Replacement   | 657                   | 0                            | 0     | 0                            | Q               | 657                              |
| MM         | 7               | MP-WW-Pipe-05                               | Agana Heights Pipe Replacement   | 0                     | 0                            | 169   | 2500                         | 0               | 2,669                            |
| MM.        | 7               | MP-WW-Pipe-06                               | Northern District Route 1 Capacity Replacement - Phase 1   | 0                     | o                            | 0     | 0                            | 1169            | 1,169                            |
| <b>%</b> % | 7               | MP-WW-Pipe-11                               | Route 16 Capacity Replacement  | 0                     | 0                            | 0     | 0                            | 571             | 571                              |
| M.M        | 7               | MP-WW-Pipe-12                               | Barrigada Capacity Replacement   | 0                     | 0                            | 0     | o                            | 47              | 47                               |
| MM         | 7               | MP-WW-Pipe-17                               | Mamajanao Capacity Replacement   | 400                   | 1300                         | 2574  | o                            | 0               | 4,274                            |
| WW         | 7               | MP-WW-Pipe-21                               | Baza Gardens Capacity Replacement - Phase 1  | 0                     | 0                            | 0     | 0                            | 320             | 320                              |
| MM         | 7               | MP-WW-Pipe-24                               | Umatac-Merizo Capacíty Replacement   | 0                     | 0                            | 0     | 0                            | 207             | 207                              |
| MM         | 7               | MP-WW-Pipe-25                               | Piping Near Bayside Lift Station   | 0                     | 2000                         | o     | 220                          | 0               | 2,250                            |
| MM:        | 7               | MP-WW-Pipe-26                               | Finile Drive Rehabilitation - Agat   | 813                   | 0                            | 0     | 0                            | 0               | 813                              |
| MM         | 7               | MP-WW-MH-01                                 | Manhole Rehabilitation Program   | 320                   | 0                            | 320   | 0                            | 350             | 1,050                            |
| 3          | 7               | MP-WW-FM-01                                 | Force Main Rehabilitation/Replacement Program  | 0                     | 100                          | 1458  | 0                            | 120             | 1,678                            |
| WW         | 7               | MP-WW-FM-02                                 | Replace Yigo Lift Station Force Main   | 0                     | 200                          | 1829  | 0                            | 0               | 2,029                            |
| <b>%</b> % | 7               | MP-WW-FM-03                                 | Route 1 Asan Force Main Rehabilitation/Replacement   | 2124                  | 0                            | 0     | 0                            | 0               | 2,124                            |
| <b>%</b> % | 7               | MP-WW-FM-04                                 | Hagatña WWTP Force Main Rehabilitation/Replacement   | 6899                  | 0                            | 0     | 0                            | 0               | 689'9                            |
| <b>M</b> M | 7               | MP-WW-Pump-01                               | Lift Station Rehabilitation/Replacement Program  | 2120                  | 029                          | 982   | 6124                         | 2420            | 18,146                           |
| <b>%</b>   | 7               | MP-WW-Pump-02                               | Tµmon Basin - Fujita Lift Station Analysis   | 7923                  | 3000                         | 0     | 0                            | 0               | 10,923                           |
| <b>MM</b>  | 7               | MP-WW-Pump-03                               | Replacement of Former Navy Pump Station (Donut Hole)   | 1301                  | 0                            | 0     | 0                            | 0               | 1,301                            |
| MM         | 7               | MP-WW-WWTP-08                               | Northern District WWTP Completion  | 0                     | 7500                         | 7800  | o                            | 0               | 15,300                           |
| MM         | 7               | MP-WW-Misc-01B                              | Update Wastewater Collection System Model (Continued)  | 100                   | 0                            | 100   | 0                            | 200             | 400                              |
| MM:        | 7               | MP-WW-Misc-02                               | I/I and SSES Assessments   | 150                   | 0                            | 0     | 400                          | 0               | 250                              |
| MM.        | 7               | DoD-01                                      | NDWWTP Secondary Treatment Capacity 12MGD  | 2500                  | 0                            | 0     | 0                            | 0               | 2,500                            |
| MISC       | 2               | MP-Gen-Misc-08                              | General Plant Improvements   | 1000                  | 200                          | 200   | 200                          | 200             | 2,400                            |
|            |                 |   |  |                       |                              |       |                              |                 |                                  |

Capital Projects Schedule

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| n        |

| btotal GCG Cat  PW 3  PW 3  PW 3 |   |   |              |               |              |            |                 |            |
|----------------------------------|---|---|--------------|---------------|--------------|------------|-----------------|------------|
|                                  | Subtotal GCG Cat = 2 "Consent Decree Projects"                | ( <b>)</b>  | 31,987       | 26,100        | 21,219       | 17,442     | 16,381          | 113,129    |
|                                  | PW 05-09  | Leak Detection  | c            | 005           | c            | C          | Ç               | CUB        |
|                                  | PW 05-10  | Potable Water System Planning                             |              | 2005          | o            | • •        | 9 0             | 900<br>500 |
|                                  | PW 09-03  | Water Distribution System Pipe Replacement and Upgrades   | 200          | 1000          | 2250         | 1750       | 2250            | 052.2      |
| Α                                | PW 14-01  | Fire Hydrant Replacement Program                          | 0            | 0             | 2005         | 0          | 2005            | 1,000      |
| PW 3                             | MP-PW-Pipe-01   | Astumbo Zone Piping                                       |              | · c           | 368          | 4482       | 9 0             | 4.850      |
| PW 3                             | MP-PW-Pipe-04   | Hyundai Well Piping                                       | 005          | · c           | 3            |            | o c             | OCS'F      |
|                                  | MP-PW-Pine-05   | Kaiser Zone Logning                                       | 200          | · c           | · c          | o c        | o c             | 000        |
| PW 3                             | MP-PW-Pipe-06   | Manglao Pressure Zone Realignment                         | 900          | o c           | <b>o</b> c   | o c        |                 | 000        |
|                                  | MP-PW-Pine-07   | Mataguar BPS Surfice Pining                               | 8            | 9 6           | > 0          | <b>5</b> C | 0 0             | 000        |
|                                  | MP-PW-Pipe-09   | Vian Canta Does Young Destination                         | 5 6          | 900           | į            | )<br>!     | <b>-</b> (      | DOG !      |
|                                  | MAP DIM Dim 40  | ngo, balita nosa zolle Realignment                        | 0            | 0             | 178          | 2164       | 0               | 2,342      |
|                                  | MP-PW-Pipe-10   | Miscellaneous Prping Projects                             | 100          | 100           | 694          | 0          | 0               | 894        |
|                                  | MP-PW-Pipe-11   | Miscellaneous Piping Connections                          | 100          | 100           | 194          | 0          | 0               | 394        |
|                                  | MP-PW-Pipe-12   | Rehabilitation and Replacement Program                    | 1000         | 1000          | 2500         | 3400       | 2000            | 006'6      |
|                                  | MP-PW-Pipe-13   | 2-Inch Pipe Replacement Program                           | 2730         | 1200          | 1750         | 1750       | 1750            | 9,180      |
|                                  | MP-PW-Pipe-14   | Asbestos Cement Pipe Replacement Program                  | 0            | 0             | 3850         | 3850       | 3850            | 11,550     |
| PW 3                             | MP-PW-Pipe-15   | PRV Rehab and Replacement                                 | 1000         | 1450          | 1000         | 1468       | 1468            | 6.386      |
| PW 3                             | MP-PW-Pipe-16   | Valve Exercise, Repair, and Replacement Program           | 250          | 0             | 250          | 0          | 250             | 750        |
|                                  | MP-PW-Pipe-17   | Cross Island Highway Piping                               | 0            | 100           | 1401         | 0          | 0               | 1.501      |
|                                  | MP-PW-8PS-01  | Rehabilitate and Replace BPSs                             | 409          | 150           | 150          | 150        | 150             | 1,009      |
|                                  | MP-PW-BPS-02  | Nimitz Hill Upper BPS                                     | 48           | 0             | 0            | 0          | 0               | 48         |
| PW 3                             | MP-PW-Misc-02   | Master Meter Implementation and Ongoing Meter Replacement | 200          | 250           | 734          | 734        | 734             | 2.952      |
|                                  | MP-PW-Misc-03   | Hydrant Condition Assessment and Maintenance              | 0            | 0             | 970          | 970        | 970             | 2.910      |
| PW 3                             | MP-PW-Misc-05   | Leak Detection Assistance                                 | 250          | c             | C            | C          | c               | 250        |
|                                  |   |   | 3            | ,             | >            | •          | •               | 167        |
| ototal GCG Cat                   | Subtotal GCG Cat = 3 "NRW Projects"                           |   | 7,987        | 6,850         | 16,789       | 20,718     | 14,022          | 996,366    |
| PW 4                             | PW 09-01  | Ugum Water Treatment Plant Intake                         | c            | Ċ             | 200          | c          | c               | 7          |
| P.W. 4                           | MP-PW-SWTP-01   | Harim SWITP River Intake Cleaning Project                 | , c          | 3             | 3 6          | 0 0        |                 | )07'-      |
| b.w                              | MP-PW-SW/TP-02  | John SMTD Intake Modifications                            | 0 000        | <b>-</b>      | 9 5          | <b>-</b>   | <b>&gt;</b> (   | D86        |
|                                  | AND DIAL CONTROLOS  | Upura CMTD Octobilitis Improved                           | 10001        | <b>&gt;</b> ( | 1/4<br>100   | ا ث        | <b>-</b>        | 1,1/4      |
|                                  | NAD DIA CIATO OA  | Ugum Swith a Weellaumty Implications                      | 1001         | <b>o</b> '    | 150          | 0          | 0               | 1,150      |
|                                  | MAD DIM: 24/4   OF  | ogum swill rear improvement Project                       | 0            | 0             | 0            | O.         | 3168            | 3,168      |
|                                  | IMP-PW-Well-US  | Wellnead Protection Program                               | 320          | 0             | 0            | 999        | 0               | 1,010      |
|                                  | MP-PW-Well-Ub   | Well Repair Program                                       | 200          | 220           | 1500         | 1274       | 1274            | 4,798      |
|                                  | DoD-3   | Rehabilitation and New NGLA Monitoring Wells              | 4000         | 0             | 0            | 0          | 0               | 4,000      |
|                                  | MP-WW-Pipe-27   | Septic/Cesspool System Reduction Program                  | 0            | 0             | 320          | 3000       | 5238            | 8,588      |
| WW 4                             | MP-WW-WWTP-04   | Pago Socio WWTP Pump Station Conversion                   | 0            | 0             | 1700         | 1000       | 0               | 2,700      |
|                                  | MP-WW-WWTP-09   | Ocean Outfall Inspection Program                          | 150          | 0             | 0            | 0          | 0               | 150        |
| ww 4                             | MP-WW-Misc-03   | Miscellaneous Wastewater Improvements                     | 0            | 200           | 1500         | 1000       | 0               | 2.700      |
| ww 4                             | MP-WW-Misc-04   | Fats, Oils, and Grease Study                              | 150          | 0             | 0            | 0          | 0               | 150        |
| MISC 4                           | MC 05-01  | Laboratory Modernization                                  | 0            | C             | · c          |            | C               |            |
| MISC 4                           | MP-Gen-Misc-09  | Security and Resilience Program                           | 100          | 100           | , 200<br>200 | , 6t       | 100             | 009        |
| total GCG Cat                    | Subtotal GCG (at $\equiv 4$ "Faux Safety Compliande Deciente" | and Drainetten  | <b>CIC L</b> | 0.07          |              | Ç          | 6               |            |
|                                  |   | IIIQC F I V COLO  | ncz',        | OCO'L         | 6,654        | 7,034      | 08 <i>)</i> '80 | 31,768     |
| PW 5                             | PW 05-13  | Deep Well Rehabilitation                                  | 1538         | 0             | 4000         | 0          | 0               | 5,538      |
| PW 5                             | PW 05-14  | New Deep Wells at Down Hard                               | 200          | 0             | С            |            | · c             | 005        |

Capital Projects Schedule

| owa cat     | oco car     | Froject #                                  | Project Description  | Total Tota | _     | Total To | Total  | Total  | FY20-FY24 |
|-------------|-------------|--|--|------------|-------|----------|--------|--------|-----------|
| δM          | 5           | PW 05-15                                   | Rehabilitation of Asan Springs                             | 550        | 0     | 0        | 0      | 0      | 550       |
| ΡW          | 'n          | PW 09-02                                   | Water Wells  | 1500       | 1400  | 0        | 2000   |        | 4 900     |
| ΡW          | īO          | MP-PW-Well-03                              | Capacity Enhancement – Well Exploration Program            | 0          | 0     | 200      |        | 1188   | 1688      |
| ΡW          | Ŋ           | MP-PW-Well-04                              |  | •          | · c   | 379      | 4677   | }      | 5 001     |
| ۸M          | Ŋ           | WW 17-01                                   | Wastewater Sewer System Expansion                          |            | 0     | ;        | 9 0    |        | 2         |
| WW          | Ŋ           | DoD-02                                     | Northern Systems Wastewater System                         | 9009       | · c   | · c      | o c    | o c    | 000 8     |
| MISC        | יני         | MC 09-01                                   | General Plant Improvements / Water                         | 9          | 5     | 2 5      | 2 6    | 0 00   | 0,0       |
| )           | 7           |  | בנופוסו ומוני וולוס סבוופורי / מסובו                       | •          | 3     | 200      | 200    | 0001   | 2,400     |
| ubtotal (   | 3CG Cat = . | Subtotal GCG Cat = 5 "Capacity Projects"   |  | 10,088     | 1,500 | 5,379    | 7,422  | 2,188  | 26,577    |
| i           | ,           | 100  |  |            |       |          |        |        |           |
| <b>3</b> 2  | (C)         | Pw 05-06                                   | Water Booster Pump Station                                 | 1200       | 700   | 300      | 2000   | 0      | 4,200     |
| š           | 9           | PW 05-07                                   | Meter Replacement Program                                  | 0          | o     | 0        | 0      | 0      | •         |
| ĕ           | 9           | PW 05-12                                   | Brigade II (Ugum Lift) BPS Upgrade                         | 0          | 0     | 0        | 0      | 0      | •         |
| ĕ           | 9           | PW 05-16                                   | Master Meters  | 0          | 0     | 0        | 0      | 0      | •         |
| δ           | 9           | PW 09-04                                   | Pressure Zone Realignment / Development 2005 Improvements  | 561        | 0     | 0        | 0      | 650    | 1,211     |
| δ           | 9           | PW 12-01                                   | Water Audit Program & Water Loss Control Plan              | 0          | 0     | 0        | 0      | 0      | •         |
| Μ           | œ           | MP-PW-Pipe-02                              | Route 1 Astumbo Zone Piping                                | 0          | 0     | 0        | 545    | 3324   | 3,869     |
| ĕ           | φ           | MP-PW-Pipe-03                              | Harmon Cliffline Piping to Route 1                         | 0          | 0     | 0        | 424    | 0      | 424       |
| Μ           | 9           | MP-PW-Pipe-08                              | Nimitz Lower BPS Piping                                    | 0          | 0     | 0        | 121    | 1469   | 1,590     |
| ΡW          | 9           | MP-PW-BPS-03                               | Route 15 BPS   | 0          | 0     | 0        | 0      | 98     | . 86      |
| Μ           | 9           | MP-PW-Well-01                              | Well Rehabilitation Program                                | 400        | 3200  | 2308     | 5368   | 440    | 12,016    |
| Μ           | 9           | MP-PW-Well-02                              | Well Equipment Overhaul Program                            | 0          | 0     | 1000     | 0      | 1518   | 2,518     |
| <b>≷</b>    | 9           | WW 09-11                                   | WWTP Priority 1 Upgrades                                   | 0          | O.    | 0        | 0      | 0      | •         |
| 出           | 9           | EE 09-02                                   | Electrical Upgrade - Water Wells                           | 90         | 0     | 0        | 0      | 0      | 06        |
| Н           | 9           | EE 09-04                                   | Electrical Upgrade -Water Booster                          | 150        | 0     | 0        | o      | 0      | 150       |
| 끮           | 9           | EE 09-05                                   | Electrical Upgrade - Other Water                           | 100        | 0     | 0        | 0      | 0      | 100       |
| 出           | φ           | EE 09-07                                   | SCADA Improvements – Phase 2                               | 45         | 0     | 0        | 0      | 0      | 45        |
| 出           | 9           | EE 09-08                                   | SCADA Improvements – Phase 3                               | 125        | 0     | o        | 0      | 2000   | 2,125     |
| <b>.</b>    | 9           | EE 09-09                                   | SCADA Improvements – Phase 4                               | 0          | 0     | 0        | 0      | 0      | •         |
| 出           | 9           | MP-Gen-EE-01                               | SCADA Implementation Phase A2 – Initial Project Completion | 2000       | 2600  | 1500     | 2600   | 2600   | 11,300    |
| # I         | 9           | MP-Gen-EE-02                               | SCADA Implementation Phase B – Additional Sites            | 0          | 0     | 0        | 009    | 900    | 1,200     |
| ш ;         | 9           | MP-Gen-EE-04                               | SCADA System Improvement Program                           | 0          | 0     | 0        | 0      | 330    | 330       |
| Σ<br>Σ      | 9           | MC 15-01                                   | Information Technology Intergration Improvements           | o          | 100   | 200      | 200    | 200    | 1,600     |
| MISC        | 9           | MP-Gen-Misc-01                             | GWA Systems Planning                                       | 700        | 200   | 100      | 250    | 1000   | 2,550     |
| MISC        | 9           | MP-Gen-Misc-04                             | Information Technology Improvements                        | 2400       | 200   | 100      | 100    | 200    | 000'9     |
| S<br>S<br>S | 9           | MP-Gen-Misc-05                             | GWA Infrastructure Improvements                            | 200        | 2000  | 0        | 250    | 0      | 2,750     |
| MISC        | 9           | MP-Gen-Misc-07                             | Mobile Equipment Replacement Program                       | 800        | 200   | 100      | 100    | 400    | 1,600     |
| ubtotal C   | SCG Cat = ( | Subtotal GCG Cat = 6 "Efficiency Projects" |  | 12,071     | 008'6 | 5,908    | 12,858 | 15,117 | 55,754    |
| ΡW          | 7           | MP-PW-Misc-01                              | South Guam Water Supply Study                              | 700        | 0     | 0        | 0      | 0      | 200       |
| Μď          | 7           | MP-PW-Misc-04                              | OneGuam Program  | 20         | 20    | 20       | 20     | 05     | 250       |
| MISC        | 7           | MP-Gen-Misc-02A                            | WRMP Update (Comprehensive Update)                         | 0          | 0     | 100      | 0      | ¦      | 100       |
| MISC        | 7           | MP-Gen-Misc-028                            | WRMP Update (Interim Update)                               | 200        | 0     | 0        | 0      | . 0    | 200       |
| MISC        | 7           | MP-Gen-Misc-03                             | Surveying and Property Delineation                         | 0          | 250   | 250      | 250    |        | 750       |
| MISC        | 7           | MP-Gen-Misc-06                             | GPWA Fleet Maintenance Facility                            | 0          | 0     | 200      | 0      | 0      | 200       |
|             |             |  |  |            |       |          |        |        |           |
|             | 1000        | · · · · · · · · · · · · · · · · · · ·      |  |            |       |          |        |        |           |

Capital Projects Schedule

| GWA Cat GCG Cat Project #                      | Project Description | FY2020<br>Total | FY2020 FY2021 FY2022<br>Total Total Total | FY2022<br>Total | FY2023 FY2024<br>Total Total | FY2024 | Subtotal By Project |
|--|---------------------|-----------------|---|-----------------|------------------------------|--------|---------------------|
|  |                     |                 |   |                 |                              |        |                     |
| Subtotal GCG Cat = 1 "Court Order Projects"    | cts."               | 42,241          | 1,750                                     | 1,214           | 1,214                        | 214    | 46,847              |
| Subtotal GCG Cat = 2 "Consent Decree Projects" | rojetts"            | 31,987          | 26,100                                    | 21,219          | 17,442                       | 16,381 | 135,551             |
| Subtotal GCG Cat = 3 "NRW Projects"            |                     | 7,987           | 6,850                                     | 16,789          | 20,718                       | 14,022 | 72,797              |
| Subtotal "All Other Projects"                  |                     | 29,859          | 12,650                                    | 18,841          | 27,614                       | 27,135 | 136,454             |
|  |                     |                 |   |                 |                              |        |                     |
| Grand Totals by Year                           |                     | 112,074         | 47,350                                    | 58,063          | 66,988                       | 57,752 | 342,227             |
|  |                     |                 |   |                 |                              |        |                     |