



CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority | Guam Waterworks Authority

P.O. Box 2977 Hagåtña, Guam 96932 | (671) 648-3002 | guamccu.org

GUAM WATERWORKS AUTHORITY WORK SESSION

CCU Conference Room

8:30 a.m., Tuesday, March 19, 2024

*AMENDED AGENDA

1. CALL TO ORDER
2. GWA ISSUES FOR DECISION
 - 2.1 [Resolution No. 13-FY2024 – Relative to Increase Funding for the Central Guam Reservoirs Design](#)
 - 2.2 Resolution No. 14-FY2024 – Relative to Increase Funding for the Pressure Zone Realignment Phase I Construction
 - 2.3 Resolution No. 15-FY2024 – Relative to Approval of the Fats, Oil, and Grease Receiving Station Design Services Contract
 - *2.4 Resolution No. 16-FY2024 (GWA) / Resolution No. FY2024-19 (GPA) – Relative to the Creation of the Information Security Supervisor, Infrastructure Support Supervisor and Application Support Supervisor Positions in the Classified Status and to Add to GWA's and GPA's Certified, Technical and Professional List of Positions
3. [GWA GM REPORT](#)
 - 3.1 [Administration](#)
 - 3.2 [Compliance](#)
 - 3.3 [Engineering / Capital Improvement Program](#)
 - 3.4 [Financial](#)
 - 3.5 [Operations](#)
 - 3.6 Other
4. OTHER DISCUSSION
5. ANNOUNCEMENTS
 - 5.1 Next CCU Meetings: March 21, 2024 - GPA WS at 8:30 a.m.
March 26, 2024 – CCU Regular Board Meeting at 5:30 p.m.
6. EXECUTIVE SESSION
 - 6.1 [Litigation Matter](#)
7. ADJOURNMENT



"Better Water, Better Lives."

Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913
Tel: (671) 300-6846/7

Issues for Decision

Resolution No. 13-FY2024

Relative to Increase Funding for the Central Guam Reservoirs Design

What is the project's objective and is it necessary and urgent?

The purpose of this resolution is to authorize additional design services and construction support services for the A-23 and A-25 GAC projects, such as new generator system, new chlorine building and electrical panel upgrades, along with new SCADA, as well as additional site security improvements resulting from the automobile accident fatality that occurred on September 23, 2023, that damaged A-25 Deep Well Facility. The objective of the project is to treat poly/perfluoroalkyl substances (PFAS) at A-23 and A25 Deep Wells and return the deep wells into service.

Design (A-23 and A-25):

1. Generator and ATS system upgrades: new generator and automatic transfer switch
2. Site security upgrades: new camera system and site fencing
3. Chlorine system and building upgrades: new chlorine feed, chlorine residual analyzer, new building door, ventilation
4. Electrical system upgrades: new conduits, panels
5. SCADA panel replacement: replace with new remote terminal unit

Construction

1. Construction support services to include A-23 and A-23 GAC Deep Wells. Construction services include responding to contractor's request for information, design changes during construction, and unforeseen issues which may arise during construction.

How much will it cost?

Additional design cost: \$78,891.00

Total additional funding request to include contingencies: \$100,000.00

When will it be completed?

Design work is anticipated to be completed within 30 days of an approved change order.

Construction support work will start during the construction project. Construction phase is anticipated to begin June 2024 with a 16-month construction period.

What is the funding source?

The source of funding will be from CIP line items PW 09-02 Water Wells bonds, other bonds and grants.



CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
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GWA RESOLUTION NO. 13-FY2024

**RELATIVE TO INCREASE FUNDING FOR THE CENTRAL GUAM
RESERVOIRS DESIGN**

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority (“GWA”); and

WHEREAS, GWA is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA is currently working on critical reservoir projects under the 2011 Court Order (“CO”) Paragraph 29 – Storage Tank/Reservoir Repair, Replacement, and Relocation Program; and

WHEREAS, through approval of CCU Resolution No. 21-FY2015 (Exhibit A) dated March 24, 2015 GWA contracted with the engineering firm of GHD to provide design services for the Central Guam Reservoirs project with authorized funding of Two Million Five Hundred Fifty-Two Thousand Four Hundred Forty-Five Dollars (\$2,552,445.00) plus 10% contingency in the amount of Two Hundred Fifty-Five Thousand Two Hundred Forty-Four Dollars and Fifty Cents (\$255,244.50) bringing the total authorized funding to a maximum of Two Million Eight Hundred Seven Thousand Six Hundred Eighty-Nine Dollars and Fifty Cents (\$2,807,689.50);

WHEREAS, GWA issued Change Order No. 1 through No. 4 for additional design services in the amount of One Million One Hundred Thirty-Six Thousand Two Hundred Fifty Dollars (\$1,136,250.00) under the authorization of CCU Resolution No. 49-FY2016 (Exhibit B) on July 26, 2016 and CCU Resolution No. 30-FY2019 (Exhibit C) on May 28, 2019;

1 **WHEREAS**, A-23 and A-25 Deep Well GAC design to treat poly/perfluoroalkyl
2 substances (PFAS) commenced under Change Proposal No. 09 (January 25, 2018) using T&M
3 budget, followed by Change Order No. 04 (June 06, 2019), and Change Proposal No. 11
4 (December 06, 2019) (T&M budget), which totaled One Hundred Fifty-Three Thousand Four
5 Hundred Thirty-Seven Dollars (\$153,437.00); and

6
7 **WHEREAS**, GWA engineering has further determined through the course of the design
8 process that additional system improvements associated with Deep Wells A-23 and A-25 project
9 are required including improvements resulting from the automobile accident fatality that
10 occurred on September 23, 2023 that damaged A-25 Deep Well facility; and

11
12 **WHEREAS**, GWA is requesting for additional design work, which will generally consist
13 of the following:

- 14 • Generator system upgrades,
- 15 • Site security improvements,
- 16 • Chlorine system and building upgrades,
- 17 • Electrical system upgrades,
- 18 • SCADA panel replacement,
- 19 • Additional construction support services for projects under the Central Guam
20 Reservoir Design project, which include the A-23 and A-25 GAC Deep Wells and
21 Tamuning and Mannegon Reservoirs;
- 22

23
24 **WHEREAS**, GWA engineering and GHD negotiated the price for services to be
25 provided in the amount of Seventy-Eight Thousand Eight Hundred Ninety-One Dollars
26 (\$78,891.00) (Exhibit D); and

27
28 **WHEREAS**, GWA is requesting a funding approval of One Hundred Thousand Dollars
29 (\$100,000.00) for the additional design and construction support work including contingency;
30 and

31 //
32

1 **WHEREAS**, GWA Management seeks CCU approval to increase the total authorized
2 funding for the design contract with GHD, Inc. to Three Million Seven Hundred Eighty-Eight
3 Thousand Six Hundred Ninety-Five Dollars and Fifty Cents (\$3,788,695.50); and
4

5 **WHEREAS**, funding for this project will be from PW 09-02 Water Wells bonds, other
6 bonds and grants; and
7

8 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
9 does hereby approve the following:
10

- 11 1. The recitals set forth above hereby constitute the findings of the CCU.
- 12 2. The CCU finds that the terms of the conditions set by GWA relative to
13 commencement of subsequent work activities are fair and reasonable.
- 14 3. The CCU approves GHD's Scope of Work as set forth in Exhibit D.
- 15 4. The CCU hereby further approves the total authorized funding to Three
16 Million Six Hundred Eighty-Eight Thousand Seven Hundred Ninety-Five
17 Dollars and Fifty Cents (\$3,788,695.50); and
- 18 5. Funding source will be CIP PW 09-02 Water Wells and PW 09-11 Water
19 System Reservoirs 2005 Improvements.
20

21 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption
22 of this Resolution.
23

24 **DULY AND REGULARLY ADOPTED**, this 26th day of March 2024.
25

26
27 Certified by:

Attested by:

28
29 _____
30 **JOSEPH T. DUEÑAS**
31 Chairperson

32 **PEDRO ROY MARTINEZ**
Secretary

//

I, Pedro Roy Martinez, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAIN: _____

///

**GUAM CONSOLIDATED COMMISSION ON UTILITIES
RESOLUTION NO. 21 – FY2015**

**RELATIVE TO CONTRACT APPROVAL FOR THE
CENTRAL GUAM RESERVOIRS DESIGN SERVICES**

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority (“GWA”); and

WHEREAS, the Guam Waterworks Authority (“GWA”) is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA is currently working on critical reservoir projects under the 2011 Court Order (“CO”) Paragraph 29 – Storage Tank/Reservoir Repair, Replacement, and Relocation Program; and

WHEREAS, GWA has advertised the Request For Proposals (RFP-09-ENG-2014) soliciting statement of qualifications from experienced and qualified engineering firms for the preparation of design plans and specifications for the Central Guam Reservoirs; and

WHEREAS, the Central Guam Reservoirs design project includes site investigations and system evaluations at the Hyundai, Pulantat/Manenggon, Chaot #2, Tumon #1 (Airport), Tumon #2 (Nissan), and Piti reservoir sites, development of design plans and specifications for various sized concrete reservoirs ranging from 0.5 MG to 2.0 MG nominal capacities, booster station upgrades, instrumentation and control upgrades, control valves upgrades, pipe upgrades, and other general site upgrades; and

WHEREAS, RFP packages were downloaded by forty five (45) interested parties, from which GWA received proposal submittals from nine (9) firms before the RFP submittal deadline; and

WHEREAS, the GWA A-E Selection committee reviewed and evaluated the nine (9) proposals (see EXHIBIT A – Evaluation Score) and generated a short list of the top four (4)

firms with a recommendation to award a contract to the firm GHD, Inc. ("GHD") and any successor at interest thereto (see EXHIBIT B – Evaluation Summary and GM Determination); and

WHEREAS, GHD and GWA negotiated the price for the services to be provided in the amount of Two Million Five Hundred Fifty Two Thousand Four Hundred Forty Five Dollars (\$2,552,445.00) (see EXHIBIT C – Fee Proposal); and

WHEREAS, GWA management seeks approval of the fee proposal amount of Two Million Five Hundred Fifty Two Thousand Four Hundred Forty Five Dollars (\$2,552,445.00), plus a ten percent (10%) contingency of Two Hundred Fifty Five Thousand Two Hundred Forty Four Dollars and Fifty Cents (\$255,244.50) to bring the total authorized funding amount to a maximum of Two Million Eight Hundred Seven Thousand Six Hundred Eighty Nine Dollars and Fifty Cents (\$2,807,689.50); and

WHEREAS, funding for this project will be from the 2010 and 2013 Bond Funds under the line items CIP PW 09-11 Water System Reservoirs 2005 Improvements, CIP PW 12-04 Agana Heights and Chaot Tank Construction, and CIP PW 12-06 Tank Replacements Piti & Hyundai Tanks; and

WHEREAS, GWA management recommends that a contract be entered into with GHD in the aforementioned amount.

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

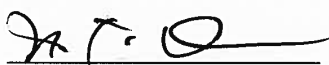
1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the fee proposal submitted by GHD are fair and reasonable.
3. The CCU finds that the terms of the conditions set by GWA relative to commencement of subsequent work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).

4. The CCU hereby authorizes the management of GWA to enter into a contract with GHD, in the amount of Two Million Five Hundred Fifty Two Thousand Four Hundred Forty Five Dollars (\$2,552,445.00).
5. The CCU hereby further approves the total funding amount for this project of Two Million Five Hundred Fifty Two Thousand Four Hundred Forty Five Dollars (\$2,552,445.00), plus a ten percent (10%) contingency of Two Hundred Fifty Five Thousand Two Hundred Forty Four Dollars and Fifty Cents (\$255,244.50) to bring the total authorized funding amount to a maximum of Two Million Eight Hundred Seven Thousand Six Hundred Eighty Nine Dollars and Fifty Cents (\$2,807,689.50);

RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption of this Resolution.

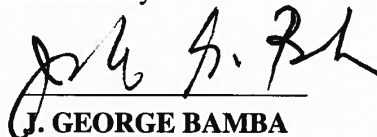
DULY AND REGULARLY ADOPTED, this 24th day of March 2015.

Certified by:



JOSEPH T. DUENAS
Chairperson

Attested by:



J. GEORGE BAMBA
Secretary

I, J. George Bamba, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES:	<u>5</u>
NAYS:	<u>0</u>
ABSTENTIONS:	<u>0</u>
ABSENT:	<u>0</u>

GUAM CONSOLIDATED COMMISSION ON UTILITIES**RESOLUTION NO. 49-FY2016****RELATIVE TO APPROVAL OF CHANGE ORDER NO. 3 FOR
THE CENTRAL GUAM RESERVOIRS DESIGN PROJECT**

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority (“GWA”); and

WHEREAS, GWA is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA is currently working on critical reservoir projects under the 2011 Court Order (“CO”) Paragraph 29 – Storage Tank/Reservoir Repair, Replacement, and Relocation Program; and

WHEREAS, Resolution No. 21-FY2015 (Exhibit A – Resolution 21-FY2015) authorized funding of Two Million Five Hundred Fifty Two Thousand Four Hundred Forty Five Dollars (\$2,552,445.00) plus 10% contingency of Two Hundred Fifty Five Thousand Two Hundred Forty Four Dollars and Fifty Cents (\$255,244.50) bringing the total authorized funding to a maximum of Two Million Eight Hundred Seven Thousand Six Hundred Eight Nine Dollars and Fifty Cents (\$2,807,689.50); and

WHEREAS, following CCU approval in Resolution No. 21-FY2015, GWA contracted with GHD in the amount of Two Million Five Hundred Fifty Two Thousand Four Hundred Forty Five Dollars (\$2,552,445.00) to provide design services for the Central Guam Reservoirs, which includes:

- (1) site investigations and system evaluations at Hyundai, Pulantat/Manenggon, Chaot No. 2, Tumon No. 1 (Airport), Tumon No. 2 (Nissan), and Piti reservoir sites; and
- (2) development of design plans and specifications for various sized concrete reservoirs ranging from 0.5 MG to 2.0 MG nominal capacities, booster station upgrades,

1 instrumentation and control upgrades, control valves upgrades, pipe upgrades, and other
2 general site and system upgrades; and
3

4 **WHEREAS**, GWA issued Change Orders No. 1 and No. 2 to GHD for additional
5 services that were required due to needs for land acquisition for various project sites and
6 additional water distribution system upgrade design needed for the Hyundai Reservoir service
7 zones in which the total value of the Contract was increased to Two Million Eight Hundred
8 Seven Thousand Six Hundred Eight Nine Dollars (\$2,807,689.00); and
9

10 **WHEREAS**, GWA engineering had further determined through the course of the design
11 work with the engineering consultant that additional water distribution system improvements
12 associated with the above noted reservoirs are required to meet the water distribution system
13 rezoning plan that is intended to improve water system functionality and reliability; and
14

15 **WHEREAS**, GWA management finds that the design of the necessary water distribution
16 system improvements would be best handled by the current design consultant given the
17 alternative solutions were provided by them thus GWA could expect the final design to be
18 completed expeditiously and that savings in design services would be realized as opposed to
19 putting out a whole new Request for Proposal for the necessary water distribution system
20 improvements; and
21

22 **WHEREAS**, GWA is requesting for additional design work which includes the
23 following (Exhibit B – Scope of Work and Fees):
24

- 25 (1) design work for disconnection of the 11 A-series deep wells from Chaot No. 1, Chaot
26 No. 2, and Agana Heights Reservoir distribution waterlines to eliminate cross
27 connections,
- 28 (2) design work for the rehabilitation existing pressure reducing valve for the Chaot
29 distribution line, upgrades to the centralize chlorination and SCADA systems at Chaot
30 No. 1, Chaot No. 2, and Agana Heights Reservoir sites to allow the system to function
31 properly,
32

- (3) design for new pressure reducing valves and associated appurtenances for Tumon No. 1 and Tumon No. 2 reservoir systems,
- (4) design for rehabilitating existing pressure reducing valve and associated appurtenances for Tumon No. 2 reservoir system,
- (5) design for SCADA connections for all new and upgraded pressure reducing valves and flow meters,
- (6) design for SCADA connections for Tumon No. 1, Tumon No. 2, Manenggon, and Piti Reservoirs,
- (7) escrow and purchasing fees associated with GWA's acquisition of a portion of Lot 177-1 for the new Pulantat/Manenggon Reservoirs,
- (8) design of a fire pump and electrical improvements for the new Hyundai Reservoir booster pump station to meet fire flow code requirements,
- (9) additional survey, geotechnical, archeological, and appraisal work for Tumon No. 1 Reservoir will be required should the Guam International Airport Authority (GIAA) require GWA to move the existing reservoir to a new location,
- (10) additional geotechnical, archeological, appraisal, booster station design, and off site piping work for Piti Reservoir will be required should the U.S. National Park Services (NPS) require GWA to move the existing reservoir to a new location.

WHEREAS, GWA engineering and GHD negotiated the price for the services to be provided in the amount of Six Hundred Eighty Thousand Five Hundred Forty Eight Dollars (\$680,548.00); and

WHEREAS, GWA Management is seeking CCU approval of the fee proposal relative to Change Order No. 3 in the amount of Six Hundred Eighty Thousand Five Hundred Forty Eight Dollars and Zero Cents (\$680,548.00) to fund the additional design services; and

WHEREAS, GWA Management further seeks CCU approval of the total authorized funding for the design contract with GHD, Inc. to Three Million Four Hundred Eighty Eight Thousand Two Hundred Thirty Seven Dollars and Fifty Cents (\$3,488,237.50); and

1 **WHEREAS**, funding for this project will be from 2013 and/or 2015 Bond Funds under
2 CIP line item PW 09-11 Water System Reservoirs 2005 Improvements; and

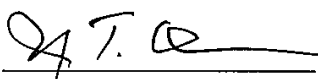
3
4 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
5 does hereby approve the following:

- 6
7 1. The recitals set forth above hereby constitute the findings of the CCU.
8 2. The CCU finds that the terms of the fee proposal submitted by GHD is fair
9 and reasonable.
10 3. The CCU finds that the terms of the conditions set by GWA relative to
11 commencement of subsequent work activities are fair and reasonable and
12 serve as a measure of Quality Assurance/Quality Control (QA/QC).
13 4. The CCU hereby authorizes GWA management to execute Change Order No.
14 3 in the amount of Six Hundred Eighty Thousand Five Hundred Forty Eight
15 Dollars (\$680,548.00) (Exhibit B).
16 5. The CCU further approvals increasing the total authorized funding for the
17 design contract with GHD, Inc to Three Million Four Hundred Eighty Eight
18 Thousand Two Hundred Thirty Seven Dollars and Fifty Cents (\$3,488,237.50)
19 6. Funding source will be CIP PW 09-11 Water System Reservoir 2005
20 Improvements.
21

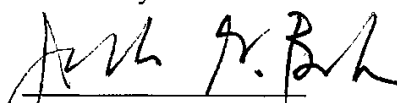
22 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption
23 of this Resolution.
24

25
26 **DULY AND REGULARLY ADOPTED**, this 26th day of July 2016.

27
28 Certified by:

29 
30 _____
31 **JOSEPH T. DUENAS**
32 Chairperson

Attested by:



J. GEORGE BAMBA
Secretary

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I, J. George Bamba, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES:	<u>4</u>
NAYS:	<u>0</u>
ABSTENTIONS:	<u>0</u>
ABSENT:	<u>1</u>



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CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

GWA RESOLUTION NO. 30-FY2019

**RELATIVE TO APPROVAL OF CHANGE ORDER NO. 4 FOR THE
CENTRAL GUAM RESERVOIRS DESIGN**

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority (“GWA”); and

WHEREAS, GWA is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA is currently working on critical reservoir projects under the 2011 Court Order (“CO”) Paragraph 29 – Storage Tank/Reservoir Repair, Replacement, and Relocation Program; and

WHEREAS, the CCU approved Resolution No. 21-FY2015 that authorized a funding of Two Million Five Hundred Fifty-Two Thousand Four Hundred Forty-Five Dollars (\$2,552,445.00) plus 10% contingency of Two Hundred Fifty-Five Thousand Two Hundred Forty-Four Dollars and Fifty Cents (\$255,244.50) bringing the total authorized funding to a maximum of Two Million Eight Hundred Seven Thousand Six Hundred Eight Nine Dollars and Fifty Cents (\$2,807,689.50); and

WHEREAS, following CCU approval in Resolution No. 21-FY2015, GWA contracted with GHD in the amount of Two Million Five Hundred Fifty-Two Thousand Four Hundred Forty-Five Dollars (\$2,552,445.00) in May 2015 to provide design services for the Central Guam Reservoirs; and

WHEREAS, GWA subsequently issued Change Order No. 1 and Change Order No. 2 with GHD for additional design services in the amount of Two Hundred Fifty-Five Thousand Two Hundred and Forty-Four Dollars (\$255,244.00);

WHEREAS, in July 2016 the CCU approved Resolution No. 49-FY2016 which authorized an additional Six Hundred Eighty Thousand Five Hundred Forty-Eight Dollars (\$680,548.00) for additional design services to bring the total authorized funding to Three Million Four Hundred Eighty-Eight Thousand Two Hundred Thirty-Seven Dollars and Fifty Cents (\$3,488,237.50); and

WHEREAS, following CCU approval in Resolution No. 49-FY2016, GWA issued the Change Order No. 3 to GHD; and

WHEREAS, GWA engineering has further determine through the course of the design process that additional system improvements associated with the central reservoir project are needed; and

WHEREAS, GWA is requesting for additional design work which includes the following (Exhibit A):

- (1) Task A: Design changes to install a new pump controller unit at the new Hyundai Tank Booster Pump Station,
- (2) Task B: Design changes to the Chaot No. 1, Chaot No. 2, and Agana Heights Reservoirs SCADA,
- (3) Task C: Programming of the Chaot No. 1, Chaot No. 2, and Agana Heights Reservoirs SCADA,
- (4) Task D: Programming of the Manenggon, Tamuning No. 1 (Airport), and Piti Reservoirs SCADA,
- (5) Task E: Tamuning No. 1 (Airport) Reservoir - Tiyan Booster Pump Station, Sewer Line Rehabilitation, and Water Line Abandonment,
- (6) Task F: A-23 and A-25 GAC System Additional Design,
- (7) Task G: Manenggon Reservoir Access Pump Station Additional Design,

- 1 (8) Task H: Additional Structural Design to Increase Tamuning No. 1 Reservoir (Airport)
2 from 2 Million Gallon Capacity to 3 Million Gallon Capacity.
3

4 **WHEREAS**, GWA engineering and GHD negotiated the price for the services to be
5 provided in the amount of Two Hundred Thousand Four Hundred Fifty-Eight Dollars
6 (\$200,458.00); and
7

8 **WHEREAS**, GWA Management is seeking CCU approval of the fee proposal relative to
9 Change Order No. 4 in the amount of Two Hundred Thousand Four Hundred Fifty-Eight Dollars
10 (\$200,458.00) to fund the design services; and
11

12 **WHEREAS**, GWA Management further seeks CCU approval of the total authorized
13 funding for the design contract with GHD, Inc to Three Million Six Hundred Eighty-Eight
14 Thousand Six Hundred Ninety-Five Dollars and Fifty Cents (\$3,688,695.50); and
15

16 **WHEREAS**, funding for this project will be from PW 09-11 Water System Reservoirs
17 2005 Improvements and EE 09-09 SCADA Improvement – Phase 4; and
18

19 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
20 does hereby approve the following:
21

- 22
- 23 1. The recitals set forth above hereby constitute the findings of the CCU.
 - 24 2. The CCU finds that the terms of the fee proposal submitted by GHD is fair
25 and reasonable.
 - 26 3. The CCU finds that the terms of the conditions set by GWA relative to
27 commencement of subsequent work activities are fair and reasonable and
28 serve as a measure of Quality Assurance/Quality Control (QA/QC).
 - 29 4. The CCU hereby authorizes the management of GWA to issue Change Order
30 No. 4 in the amount of Two Hundred Thousand Four Hundred Fifty-Eight
31 Dollars (\$200,458.00) (Exhibit A).
32

5. The CCU hereby further approves the total authorized funding to Three Million Six Hundred Eighty-Eight Thousand Six Hundred Ninety-Five Dollars and Fifty Cents (\$3,688,695.50); and
6. Funding source will be CIP PW 09-11 Water System Reservoir 2005 Improvements and EE 09-09 SCADA Improvement – Phase 4.

RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption of this Resolution.

DULY AND REGULARLY ADOPTED, this 28th day of May 2019.

Certified by:

Attested by:



JOSEPH T. DUENAS
Chairperson



MICHAEL T. LIMTIACO
Secretary

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES:	<u>5</u>
NAYS:	<u>0</u>
ABSTENTIONS:	<u>0</u>
ABSENT:	<u>0</u>



///



March 13, 2024

Mr. Brett Railey, PE
Engineering Supervisor
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam 96913

RE: Contract Change for PW12-04 Design Services for GWA's Central Water Reservoirs, GWA Project W14-006-BND
Contract Amendment for Design Additions for Wells A-23 and A-25

Dear Mr. Railey:

This letter amends our Scope of Work and fee for the above referenced project. The scope of work descriptions below define the additional and amended design services GHD will provide in connection with the Design Services for GWA's Central Water Reservoirs Project for Wells A-23 and A-25. The original project fee will be amended on a lump sum fee basis per the fees shown in the attached Scope Amendment Table. This change of scope was discussed and agreed upon during a site visit on February 7, 2024 and a meeting on March 6, 2024 with some drawings provided by GWA.

1. SCOPE OF WORK

A. GAC SITE

- a. Electrical - The list below includes electrical and instrumentation improvements to the Wells A-23 and A-25 and GAC treatment sites included in the design scope of work
 - i. Power and communication conduit routing site plan
 - ii. Power and communication conduit routing or radio communication from the GAC site and A-23 site to A-25 building. This includes instrumentation conduit from pressure transmitters and security cameras and power for lighting at the GAC site.
 - iii. Lighting plan
 - iv. Camera plan
 - v. Lighting and camera poles and mounting details

B. WELL A-23

- a. Civil – The list below includes civil improvements included in the design scope of work
 - i. Demolition and clearing of the well site
 - ii. New well piping and pipe supports
 - iii. Grade and gravel area within fence line
 - iv. Demo and expand fence on north side
 - v. Wellhead painting and sealing
 - vi. Painting of building inside and outside

- vii. Demolition of unused items inside the chlorination building and infill and sealing of penetrations.
- viii. Replace chlorination building door with a sliding or roll-up door.
- ix. Cap existing distribution line connection to the site and abandon existing valve
- b. Chlorination System - The list below includes improvements to the chlorination system included in the design scope of work
 - i. Remove existing chlorination equipment and piping from the building
 - ii. Replace the chlorine booster pump (GWA to provide size and specifications)
 - iii. New chlorination injection lines
 - iv. Move chlorine injection vault inside fence
 - v. Verify the connection point of the sampling line for the chlorine analyser and determine if it needs to be relocated
 - vi. Replace chlorine scales, regulators, alarm, and other chlorination system equipment. (GWA to provide size and specifications)
 - vii. Replace exhaust fan at existing location.
- c. Electrical - The list below includes electrical and instrumentation improvements included in the design scope of work
 - i. Demolition of the electrical conduit on and inside the building (underground conduit to remain where possible)
 - ii. Power and communication conduit routing site plan and building plan, replacing the circuit breaker panel and disconnect switch (all new above ground conduit on the building)
 - iii. Additional conduit, as-needed, for flow meter, pressure transmitters (2), and level sensor from well piping
 - iv. New pressure transmitter and flow meter in vault on GAC discharge line
 - v. Exterior and interior lighting plan that replaces the existing light over the door and interior light.
 - vi. Camera plan (2 wall mounted, model and specifications from GWA)
 - vii. New concrete pedestal and SSTL cabinet for the chlorine analyser and meter displays

C. WELL A-25

- a. Civil - The list below includes civil improvements included in the design scope of work
 - i. Demolition and clearing of the well site
 - ii. Demolition of sampling valve and cap the existing line
 - iii. New well piping and pipe supports
 - iv. Grade and gravel area within fence line and outside the gate
 - v. Replace fence on new jersey barriers
 - vi. Remove eyewash from generator building
 - vii. Demolition of existing outside eyewash and piping and replace with a combination shower/eyewash station and connect to transmission line.
 - viii. Wellhead painting and sealing
 - ix. Demolition of chlorine analyser
 - x. Painting of building inside and outside
- b. Electrical - The list below includes electrical and instrumentation improvements included in the design scope of work

- i. Power and communication conduit routing site plan and building plan
- ii. Conduit for flow meter, pressure transmitters (2), and level sensor from well piping
- iii. Demolition and replacement of the generator and exhaust shroud (sized by GWA)
- iv. Replacement of the existing ATS (2)
- v. Control panel:
 - 1. Replacement of the SCADA Pak with Rockwell Automation (2)
 - 2. Replacement of the UPS (2)
 - 3. Replacement of the HMI (2)
 - 4. Connect flow meter data (3) to the SCADA system
 - 5. Connect the pressure transmitters from A-23 (3) and A-25 (2) to the SCADA system
 - 6. Monitor generator with SCADA system
- vi. Install Tropos antenna
- vii. Exterior lighting plan that replaces the existing light over the door and adds two new fixtures
- viii. Camera plan (4 wall mounted) with NVR saving data from GAC, A-23 and A-25 (model and specifications from GWA).

D. DOCUMENTS

- a. Plan Sheets Added or Revised (others may be added as needed to provide the detail for the changes above)
 - i. Sheet numbering in general
 - ii. T-002: Index of drawings (Rev)
 - iii. C-102: Demo plan, revise to conform to changes (Rev)
 - iv. A-23 Site demo, use GWA CAD but conform to set (Add)
 - v. A-25 Site demo, use GWA CAD but conform to set (Add)
 - vi. C-103: Site layout revised to remove blowup (Rev)
 - vii. C-105: A-25 Site plan, combine GHD and GWA into one (Rev, use GWA CAD)
 - viii. C-106: Site grading and drainage plan, revise to conform to changes (Rev)
 - ix. C-107: Site utility plan, revise to conform to changes (Rev)
 - x. C-201: Profile, revise to conform to changes (Rev)
 - xi. C-301: Well A-23 section, revise to conform to changes (Rev)
 - xii. C-302: Well A-23 section, revise to conform to changes (Rev)
 - xiii. C-303: Well A-25 section, revise to conform to changes (Rev)
 - xiv. E-001: Electrical legend and schedule (Add)
 - xv. E-101: Overall electrical site plan (Add)
 - xvi. E-102: GAC electrical and instrumentation site plan, use GWA CAD but conform to set (Add)
 - xvii. E-103: Well A-23 electrical site plan, use GWA CAD but conform to set (Add)
 - xviii. E-104: Well A-25 electrical site and bldg plan, use GWA CAD but conform to set (Add)
 - xix. E-401: Well A-23 chlorination building electrical plan (Add)
 - xx. E-402: Well A-25 building electrical plan (Add)
 - xxi. E-501: Electrical details (Add)
 - xxii. E-502: Electrical details (Add)

- xxiii. E-503: Electrical details (Add)
- xxiv. E-601: Single line diagram (Add)
- xxv. E-602: panel schedule and notes (Add)
- xxvi. J-001: P&ID and matrix (Add)
- xxvii. J-002: Local control panel revisions (Add)
- xxviii. J-101: Well A-23 instrumentation site plan, use GWA CAD but conform to set (Add)
- xxix. J-102: Well A-25 instrumentation site and bldg. plan, use GWA CAD but conform to set (Add)
- xxx. J-601: Well A-23 instrumentation connection diagrams (Add)
- xxxi. J-602: Well A-25 instrumentation connection diagrams (Add)

b. Specifications

- i. Civil (Update to latest)
- ii. Electrical (Update and Add)
- iii. Include two deep well cameras to be provided by contractor
- iv. SCADA (Update and Add)

c. Cost Estimate – update original and additional items

d. Bid Form – update original and additional items

E. DELIVERABLES - Deliverables to GWA will be provided in accordance with the following:

1. Schedule

- a. Digital copy of the Project Schedule
- b. 1 hard copy of the Project Schedule

2. 60% Design Plans

- a. 5 hard copies of the 60% design documents (plan and specification submittal shall consist of 5 sets of 11"x17" sized drawings)
- b. Digital copy of the 60% design documents

3. 90% Design Plans

- a. 5 hard copies of the 90% design documents (plan and specification submittal shall consist of 5 sets of 11"x17" sized drawings)
- b. Digital copy of the 90% design documents
- c. 90% Engineer's Estimate

4. 100% Design Plans

- a. 5 hard copies of the final design documents (plan a submittal shall consist of 2 sets of 36"x24" sized drawings and 5 sets of 11"x17" sized drawings and specifications)
- b. Digital copy of the final design documents

F. CONSTRUCTION BID SUPPORT SERVICES

a. Provide engineering services during bidding, consisting of the following:

- i. Assist with preparing answers to questions regarding the bid packages during the bidding phase.
- ii. Lead the Pre-Bid Conference and respond to technical question involving design and specifications that prospective bidders may have. Prepare Pre-Bid Conference meeting agenda, sign-in sheets, and site visit. Record Pre-Bid Conference. Preparation of meeting minutes and providing formal responses to technical questions.
- iii. Assist with preparation of bid addenda.

- iv. Review construction proposals received. This shall include a bid analysis, review of bid proposal prices, and conformance with contract requirements and the Guam Procurement Code. A letter of recommendation of award shall be prepared.

G. DESIGN SUPPORT SERVICES DURING CONSTRUCTION

- a. Provide engineering services during construction, consisting of the following:
 - i. Prepare Final (100%) "Issued for Construction" conformed plans and specifications incorporating addenda, change orders and changes during the bid phase.
 - ii. Review submittals, shop drawings, design calculations, samples, test results, RFI's, Change Orders, schedule, and other data required to be submitted by the contractor for conformance with the contract documents.
 - iii. Review requests for clarification or interpretation submitted by contractor and provide responses to GWA.
 - iv. Evaluate substitution requests to determine acceptability of substitute materials and/or equipment proposed by the contractor and provide recommendations to GWA.
 - v. Attend construction meetings and site visits (as requested)
- b. Prepare punch list items prior to substantial completion and coordinate with GWA CM on the punch list items.
- c. Work with CM to close out the punch list items.

2. Client Provided Information

- a. CADD files produced by GWA of the well sites.
- b. Consolidated review comments on each submittal.

3. Assumptions and Exclusions

- a. This change proposal only applies to the scope of work. The terms of the original executed agreement still apply.
- b. Design additions are based on GWA requests and layout.
- c. The cost estimate will include the additional items and original items for a full project cost estimate.
- d. Utility potholing services are excluded.
- e. It is assumed that the Contractor will prepare the construction permit applications, route the permit applications through the required government agencies, and pay permit fees.
- f. Effort to revise or update bid packages that have expired due to delayed bid advertisement. GWA agrees to negotiate with GHD for change orders for additional work that may include such services as restamping plans and specifications, verifying design based on a change in the adopted building code or design standards, and pre-printing of the bid packages.
- g. Additional design period services due to additional and out of scope work, delays or any other reasons not due to errors/omissions or issues beyond GHD's control.
- h. Work performed will be billed monthly based on the estimated percent complete.

4. Fee Schedule

Task	Fee
Project management and scope preparation	\$7,100
Sheet Revisions	\$2,330
Civil Site Additions	\$6,387
Chlorination Building and Equipment Design	\$9,596
Electrical Design	\$11,648
Instrumentation Design	\$8,288
Cost Estimating	\$7,720
Bid Form Revision	\$820
Specifications	\$3,752
Construction Bid Support Services	\$5,480
Design Support Services During Construction	\$11,835
GRT (5.25%)	\$3,935
Total	\$78,891



Presentation To:

Consolidated Commission on Utilities

GWA Work Session
March 19, 2024



Issues for Resolution

GWA Work Session

March 19, 2024



Central Guam Reservoirs Design

Relative to Increase Funding for the Central Guam Reservoirs Design

GWA Resolution No. 13-FY2024

What is the project's objective and is it necessary and urgent?

- The purpose of this resolution is to authorize additional design services and construction support services for the A-23 and A-25 GAC projects, such as new generator system, new chlorine building and electrical panel upgrades, along with new SCADA, as well as additional site security improvements resulting from the automobile accident fatality that occurred on September 23, 2023, that damaged A-25 Deep Well Facility. The objective of the project is to treat poly/perfluoroalkyl substances (PFAS) at A-23 and A25 Deep Wells and return the deep wells into service.
- Design (A-23 and A-25):
 1. Generator and ATS system upgrades: new generator and automatic transfer switch
 2. Site security upgrades: new camera system and site fencing
 3. Chlorine system and building upgrades: new chlorine feed, chlorine residual analyzer, new building door, ventilation
 4. Electrical system upgrades: new conduits, panels
 5. SCADA panel replacement: replace with new remote terminal unit
- Construction
 1. Construction support services to include A-23 and A-23 GAC Deep Wells. Construction services include responding to contractor's request for information, design changes during construction, and unforeseen issues which may arise during construction.

How much will it cost?

- Additional design cost: \$78,891.00
- Total additional funding request to include contingencies: \$100,000.00

(continued on next page)

3

Central Guam Reservoirs Design *(continuation)*

Relative to Increase Funding for the Central Guam Reservoirs Design

GWA Resolution No. 13-FY2024

When will it be completed?

- Design work is anticipated to be completed within 30 days of an approved change order.
- Construction support work will start during the construction project. Construction phase is anticipated to begin June 2024 with a 16-month construction period.

What is the funding source?

- The source of funding will be from CIP line items PW 09-02 Water Wells bonds, other bonds and grants.

The RFP/BID responses (if applicable):

- N/A



Management Report

GWA Work Session

March 19, 2024



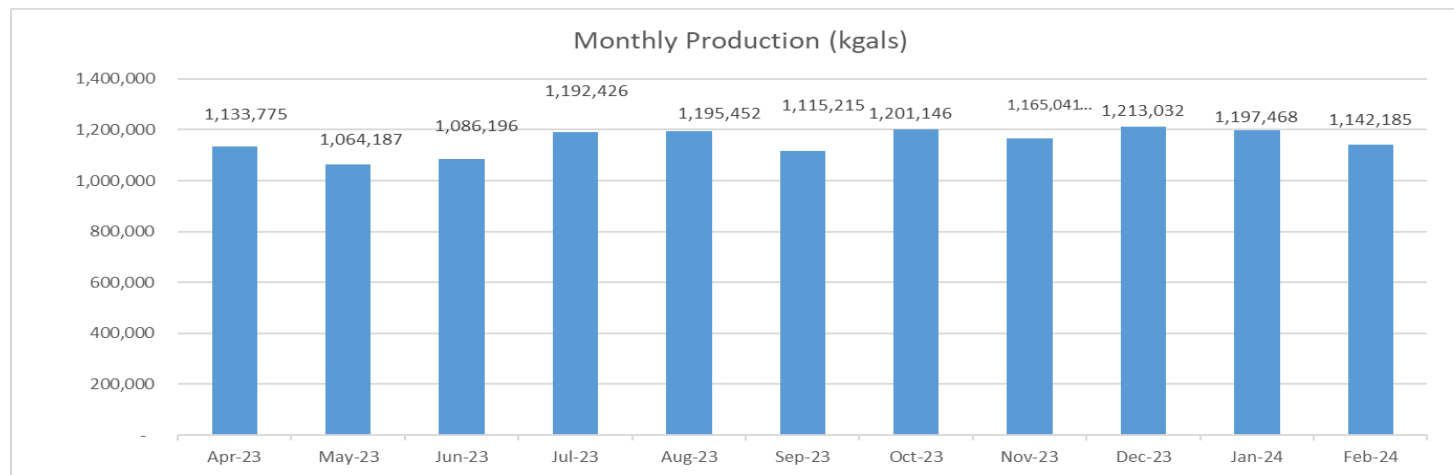


Operations Update

Water Production (February 2024)

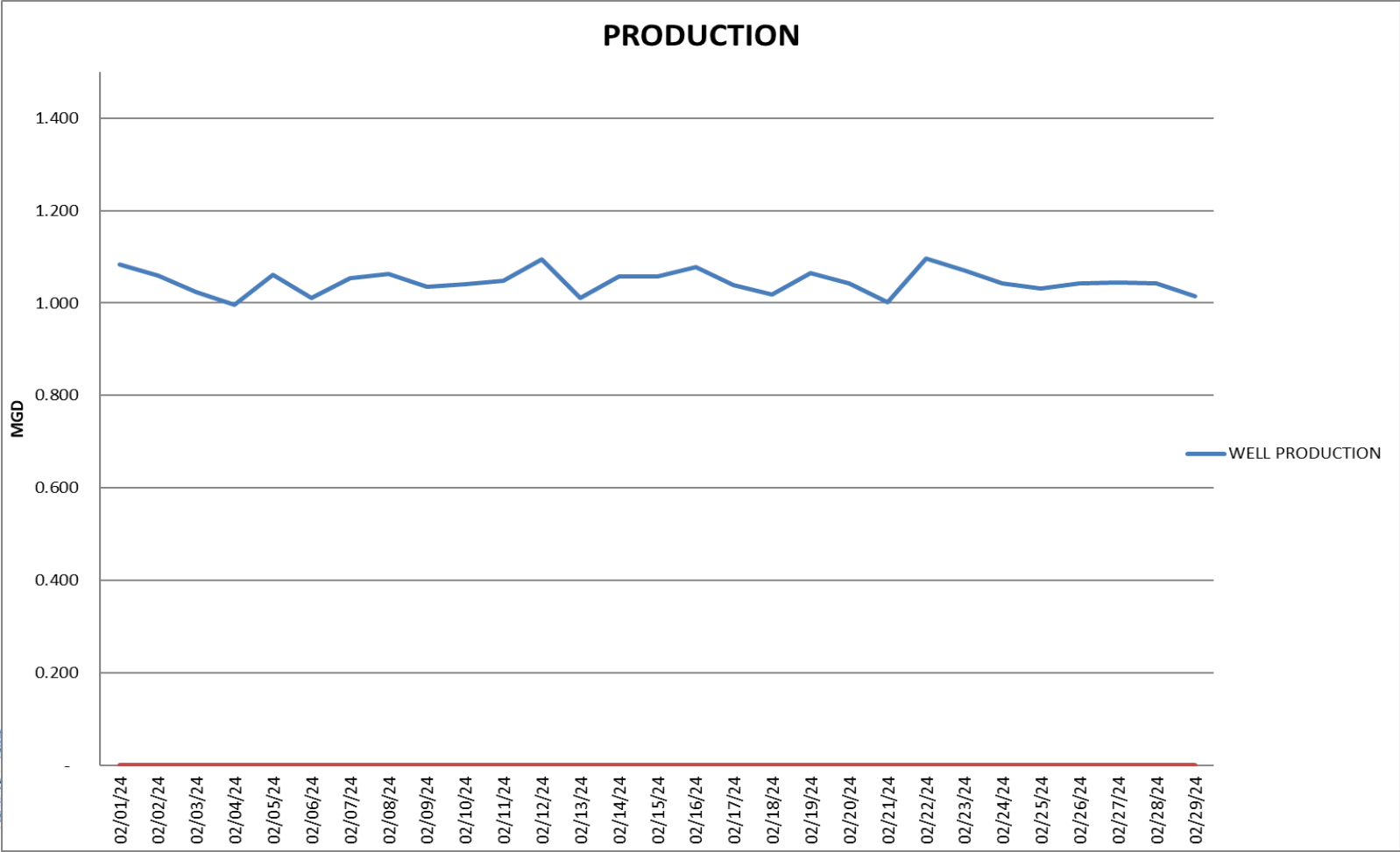
Monthly Production Summary - February 2024			
Deep Wells		36.4 MGD	
Active wells =	94 of 120		
Avg days in operation =	29 days		
Total Production =	1,054,902 Kgals		
Springs		0.18 MGD	
Avg days in operation =	29 days		
Total Production =	5,262 Kgals		
Ugum Surface Water Plant		1.8 MGD	
Avg days in operation =	29 days		
Total Production =	51,697 Kgals		
Tumon Maui Well		0.98 MGD	
Avg days in operation =	31 days		
Total Production =	30,324 Kgals		
		1,142,185 Kgals	39.3 MGD

DW Status as of 2/29/2024		REMARKS
Active	97	DW units on line
Standby	1	A29
Grounded Motors	11	A26-D01-D03-D09 D12-D21-F20- M05-M12-Y07- Y16
Out of Commission	9	A02-A07-A28-D05 D13-M01-M14- MJ01-MJ05
Secured - PFO	2	A23 and-A25
TOTAL	120	





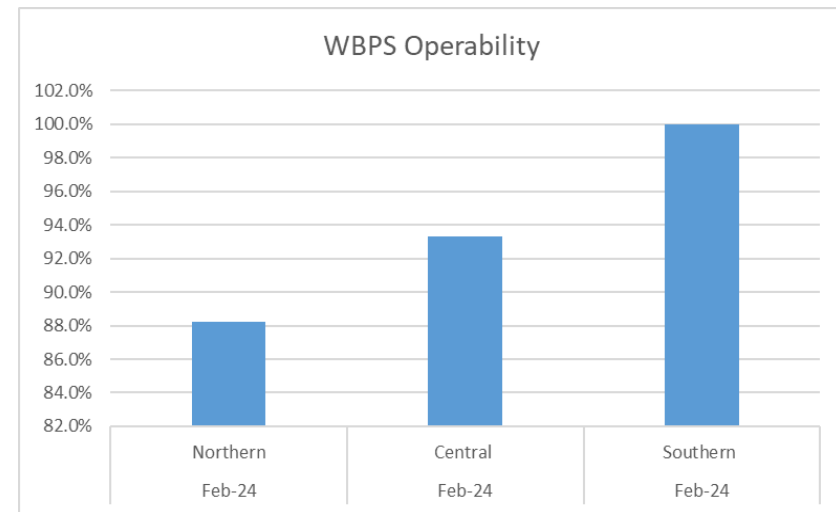
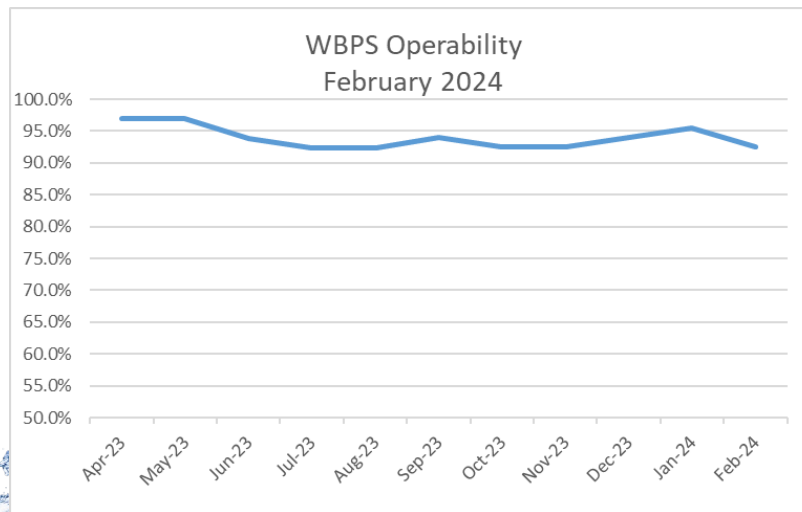
Tumon Maui Well Production (February 2024)





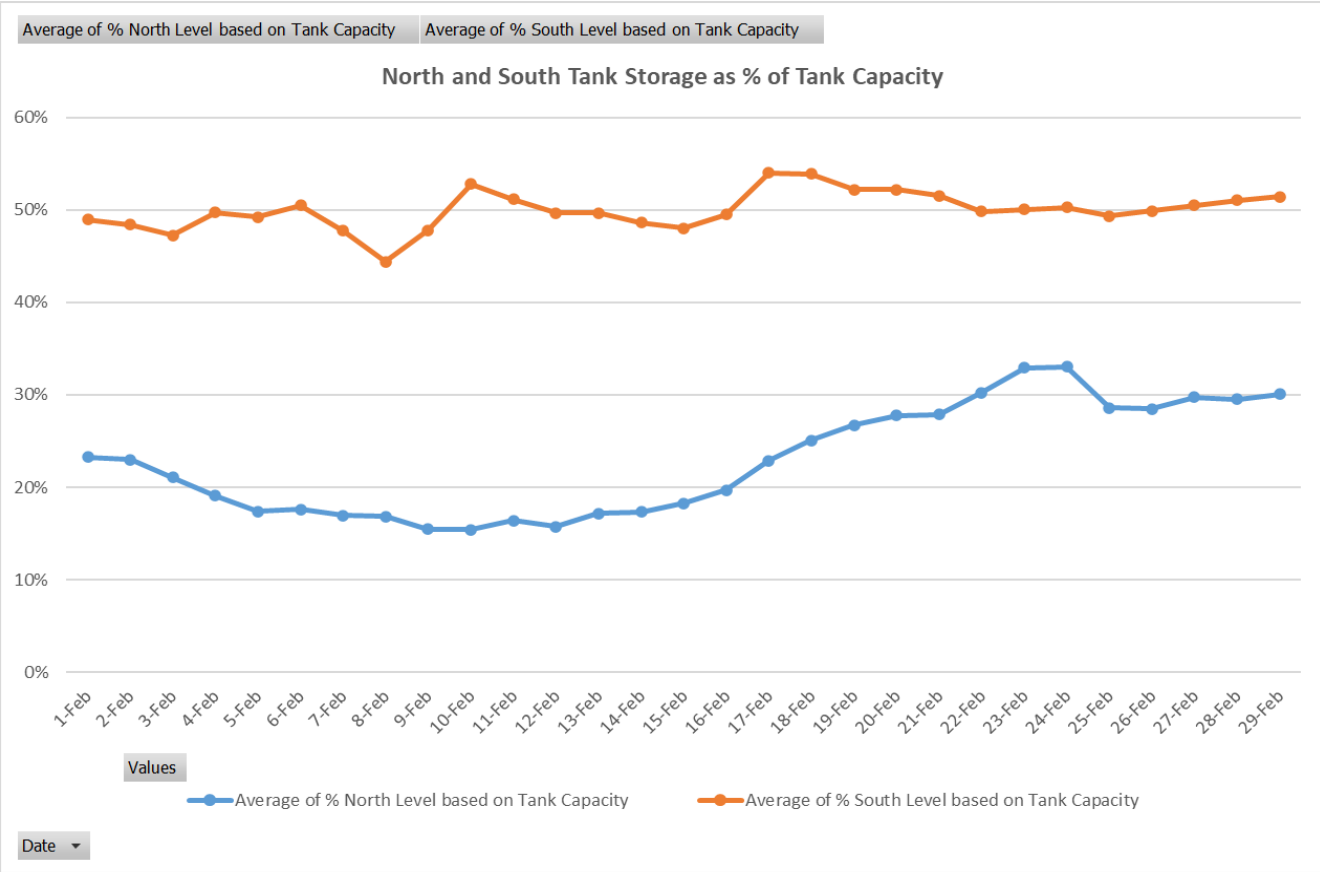
Water Distribution (February 2024)

Monthly Distribution Summary - February 2024					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	15	34	30	88.2%
	Central	7	15	14	93.3%
	Southern	8	19	19	100.0%
		30	68	63	92.6%





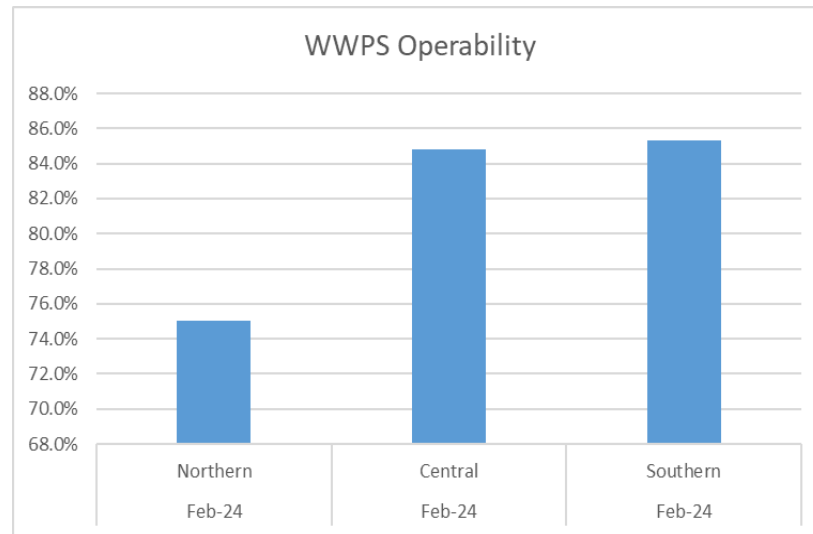
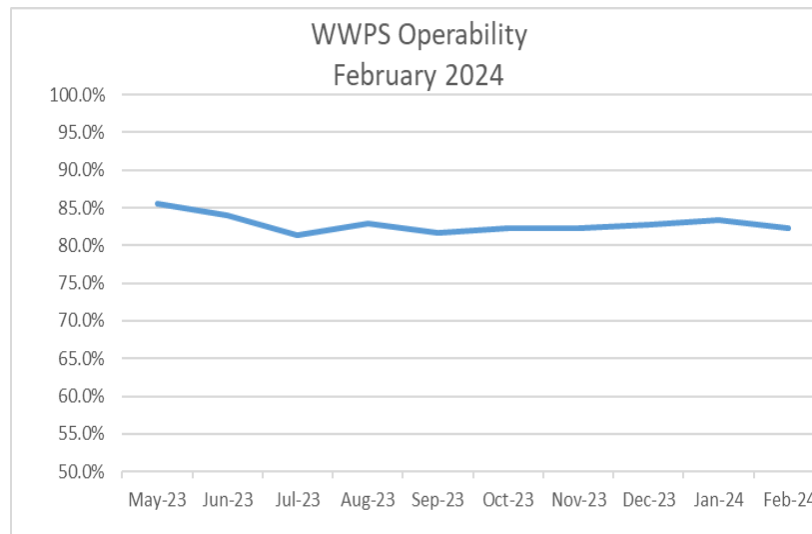
Water Distribution – Tank Levels (February 2024)





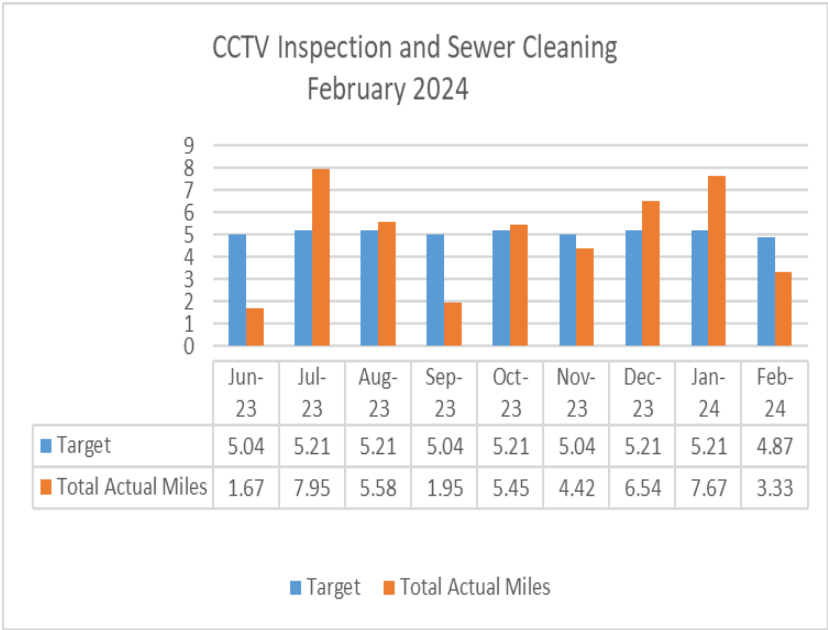
Wastewater Collections (February 2024)

Monthly Collections Summary - February 2024					
Wastewater Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	39	75.0%
	Central	30	66	56	84.8%
	Southern	32	68	58	85.3%
		84	186	153	82.3%





Wastewater Collections – CCTV (February 2024)





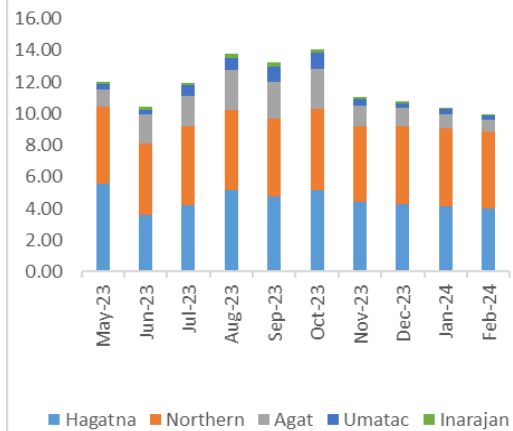
Wastewater Treatment (February 2024)

Monthly Wastewater Treatment Summary - February 2024

WW Treatment Plants - Flows

	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. (\$)
	Hagatna	3.98	236,000	\$ 21,240
	Northern	4.86	823,700	\$ 74,133
	Agat	0.78	29,860	\$ 2,687
	Umatac	0.24		
	Inarajan	0.1		
		9.96	1,089,560	\$ 98,060

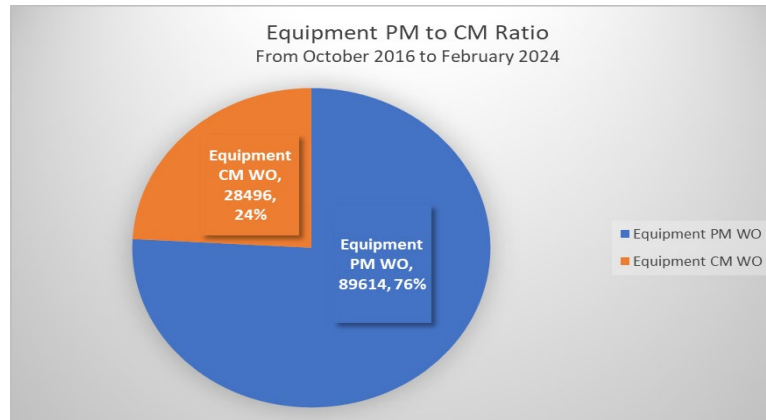
WWTP Average Flows



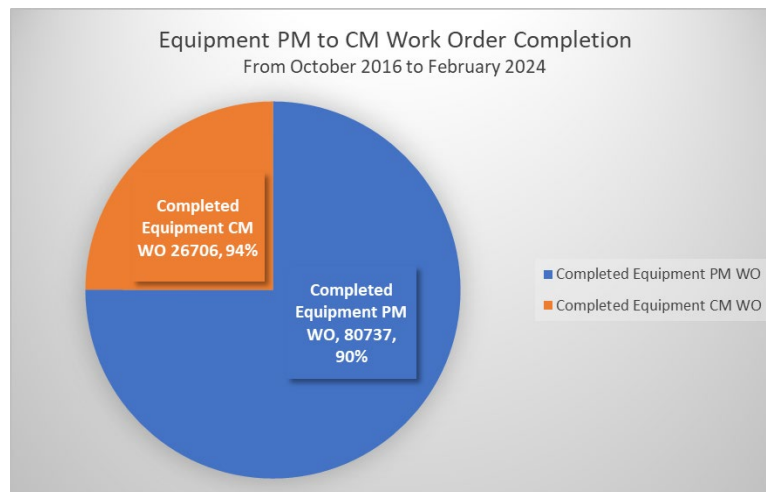


Asset Management (through February 2024)

I. Equipment Preventive Maintenance to Corrective Maintenance *Ratio*



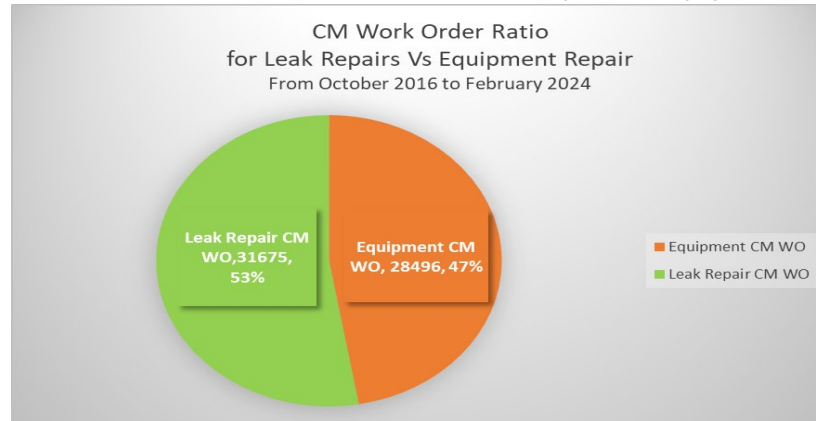
II. Equipment Preventive Maintenance to Corrective Maintenance *Work Order Completion*



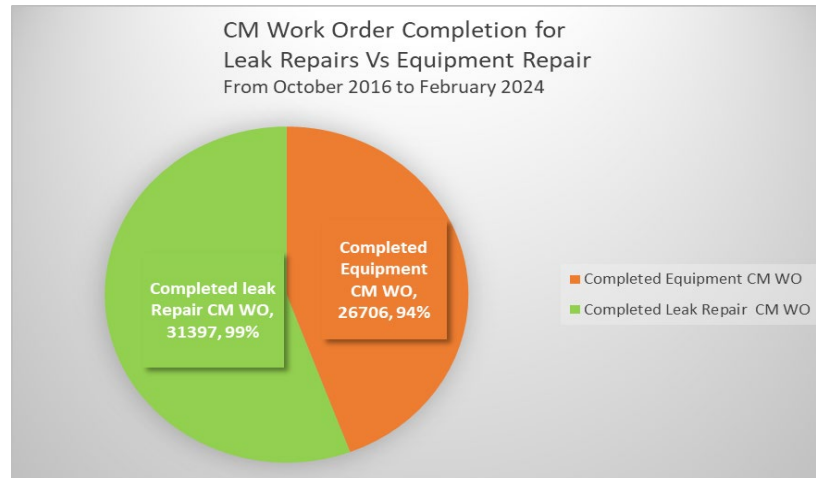


Asset Management (through February 2024)

III. Corrective Maintenance Work Order **Ratio** for Leak Repairs vs. Equipment Repair



IV. Corrective Maintenance Work Order **Completion** for Leak Repairs vs. Equipment Repair





One Guam Update (February 2024)

- Licenses/Lease, Property Transfer Easement – No updates
- Other Issues
 - Water to Navy Meter at Power Substation across Micronesia Mall
 - During GWA's investigation, it was determined that the water line was capped by DZSP several years ago. Navy will verify any issues and determine reconnection. Once approved, GWA will move forward in reconnecting the water line to provide water to GPA.
 - PFAS Study – SAFF Treatment
 - GWA has contracted for bench-scale testing of SAFF treatment system using water from various sources, including potential Navy source water. This alternative treatment technology is being jointly evaluated by GWA and Navy, and has the potential to significantly reduce the use of GAC for PFAS treatment. GAC may still need to be used for "polishing" to remove trace amounts of PFAS after the SAFF treatment. SAFF system can remove 99% of PFAS; but with short chain may be 40-60% depending on which one it is. With Navy wells, only have long chain. This product will not to use to take out dieldrin or other organic materials.
 - Navy's container purchase for source water samples is ongoing. The Navy will contact GWA laboratory once containers on island. GWA's containers are on island. Once Navy's containers arrive, GWA will send the samples for the Navy and GWA for bench-scale testing.
 - GWA Pressure Zone Realignment Encroachment
 - GWA's contractor encroached on DOD property (Eagles Field- Route 15) when installing the valve box. GWA is requesting an easement from DOD for 1,478 square feet. The property is under Andersen. Andersen staff will look into the issue.



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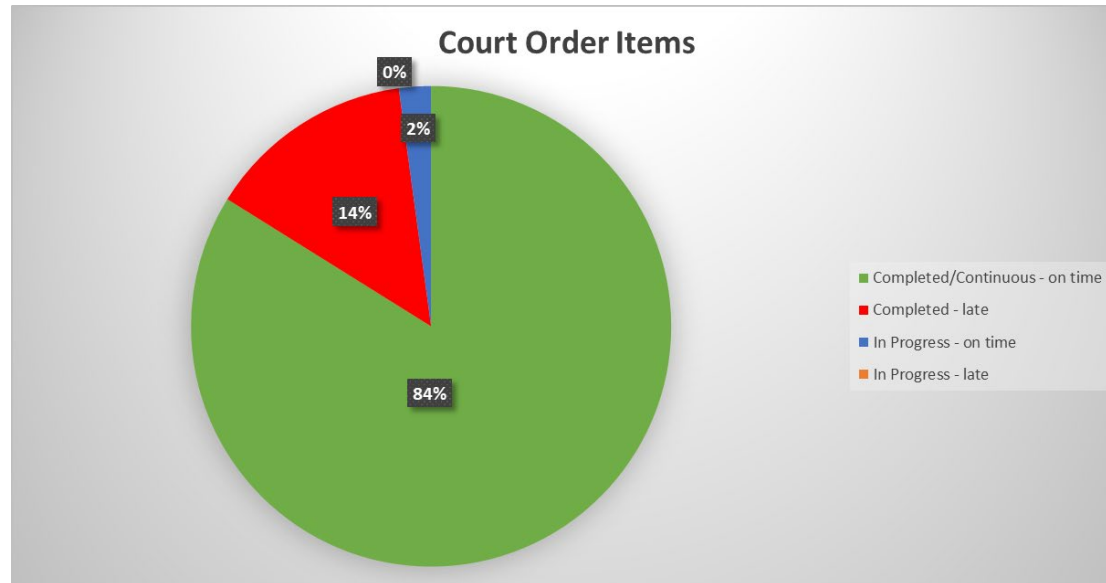
One Guam Update (February 2024 - *continuation*)

- Other Issues
 - Interties
 - In 2017, GWA and DOD started to discuss the benefit of sharing water resources between GWA and Andersen by having an intertie between the GWA and Andersen's Santa Rosa tanks. DOD and GWA are interested in discussing more opportunities to provide water as a backup to either system. A meeting will be set up to discuss the options and if there is interest for water management across the island and water exchange. The meeting will be to discuss what the plan would look like and spell out some guidelines on a capacity standpoint regular during operations, contingency operations, exercises, etc.,
 - Tech memos and Santa Rosa documents will be shared with the Andersen team.
 - 2018 AWIA (American Water Infrastructure Act)
 - DOD stated that there's a new requirement of the 2018 AWIA (American Water Infrastructure Act) that EPA requires drinking water utilities to have an assessment and emergency response plan, part of that is WARN (Water and Wastewater Agency Response Networks). The requirements include sharing resources. Which GWA and the Navy are already doing.
 - Update of Framework and Strategy
 - Need to also revisit the framework/strategy and see what needs to be added or what's been completed as haven't done for a couple of years. Separate meetings will be scheduled for this update.





Court Order Summary (through February 2024 – no changes)



Court Order Summary

	Court Order Items	%	Performance % Completed	Performance (on-time or completed)
Completed/Continuous - on time	78	84%	97.8%	100.0%
Completed - late	13	14%		
In Progress - on time	2	2%		
In Progress - late	0	0%		
Totals	93	100%		





Court Order – Status Information (February 2024)

The following Overflows or ByPass events were reported for February 2024:

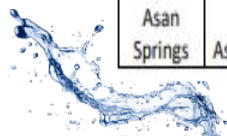
- Feb. 10, 2024, SSO #1425566: Harmon Pump Station; PS failure, sewer overflow - Equipment Failure
- Feb. 18, 2024, SSO #1426732: East O'Brien Drive, near Hagatna Pool; Sewer overflow – FOG
- Feb. 22, 2024, SSO #1428101: Tumon Lane, Tamuning; Sewer overflow – FOG
- Feb. 28, 2024, SSO #1429382: Mamajanao Pump Station; PS failure - Equipment Failure





Land Acquisition Summary (through February 2024)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo-L10164	Gov't - CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. AG pending court filing 06/30/2021 – Follow up status sent to DLM 10/06/2021; 11/03/2021; 01/27/2022; 03/04/2022; 05/12/2022; 07/07/2022; 09/12/2022; 12/27/2022; DLM response 07/11/2023 have not been able to meet with Assignment AG for LR proceedings. Land Agent has followed up and emailed multiple times with Margarita at DLM on meeting with DLM attorney on status of Land Registration proceedings 10/02/2023. This process is crucial for GWA to acquire property for GWA reservoir. 02/01/2024: Follow up sent to Margarita at DLM; 02/09/2024: Response from Margarita at DLM- Because it has almost been 4 years since we requested the assistance of the AG to initiate the Land Registration, I would recommend that a formal letter from GWA requesting the urgency of the registration and indicate the reasoning behind it. This would support our request for immediate processing with the AG.
	Piti-L259	Private/Federal	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 forms. Waiting for permission from NPS to access the lot and perform the Archeological survey.
	Ugum River Intake/Booster Pump Station	Private	When the UGUM Water treatment plant was built in 1990, no land reservations for the area by the booster pump station, the Ugum river intake and access road. Land Agent currently researching the area under Lot 292, owned by the Aguon Family. GWA would need to secure a Grant of Easement for the access road and booster pump facility along the river intake. 12/19/2023: GWA coordinating with DCA for survey services to perform a boundary retracement survey of the subject lot to establish the limits of the survey; as-built existing facilities, structures, and road, to obtain + 2,376 square meters for the parcel and create the easement for GWA reservation. 03/06/2024: DCA field survey work begins.
Deep Wells	AG-12-L10154-4	Dept. of Agriculture/Manhita Farms	Right of Entry Agreement sent to Manhita Farms for signature 05/24/18. 2 nd follow up sent on 04/10/19; 08/03/2021. ROE Agreement information sent to GWA legal counsel for further review and processing 01/28/2022; 08/11/2023 –GM signed and submitted to DCA for final review and processing at DLM; 09/26/2023-Submitted to DCA for final map processing
Booster Pump Station	Agfayan-T3734 B19 L28	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19. Letter of Decision received by CLTC 06/09/2021. CLTC has responded for in-kind service letter 10/08/2021. 1 st appraisal report submitted to GWA 05/11/2022. 2 nd appraisal submittal to GWA 09/20/2022. Appraisal report sent to GM/legal counsel for review, approval and response 09/22/2022. Garrett stated updated appraisal report cost is \$2500 each. Funding needs to be requested 10/02/2023.
Asan Springs	Asan-L501	Federal	<ul style="list-style-type: none"> Revised Environmental Assessment report with NPS for review. 1/25/24 09/18/2023: The Office of Congressman Moylan has offered assistance to work with the NPS in completing the EA and Finding of No Significant Impact (FONSI) along with the Right of Way agreement to GWA, the EA is a prerequisite of the ROE agreement.



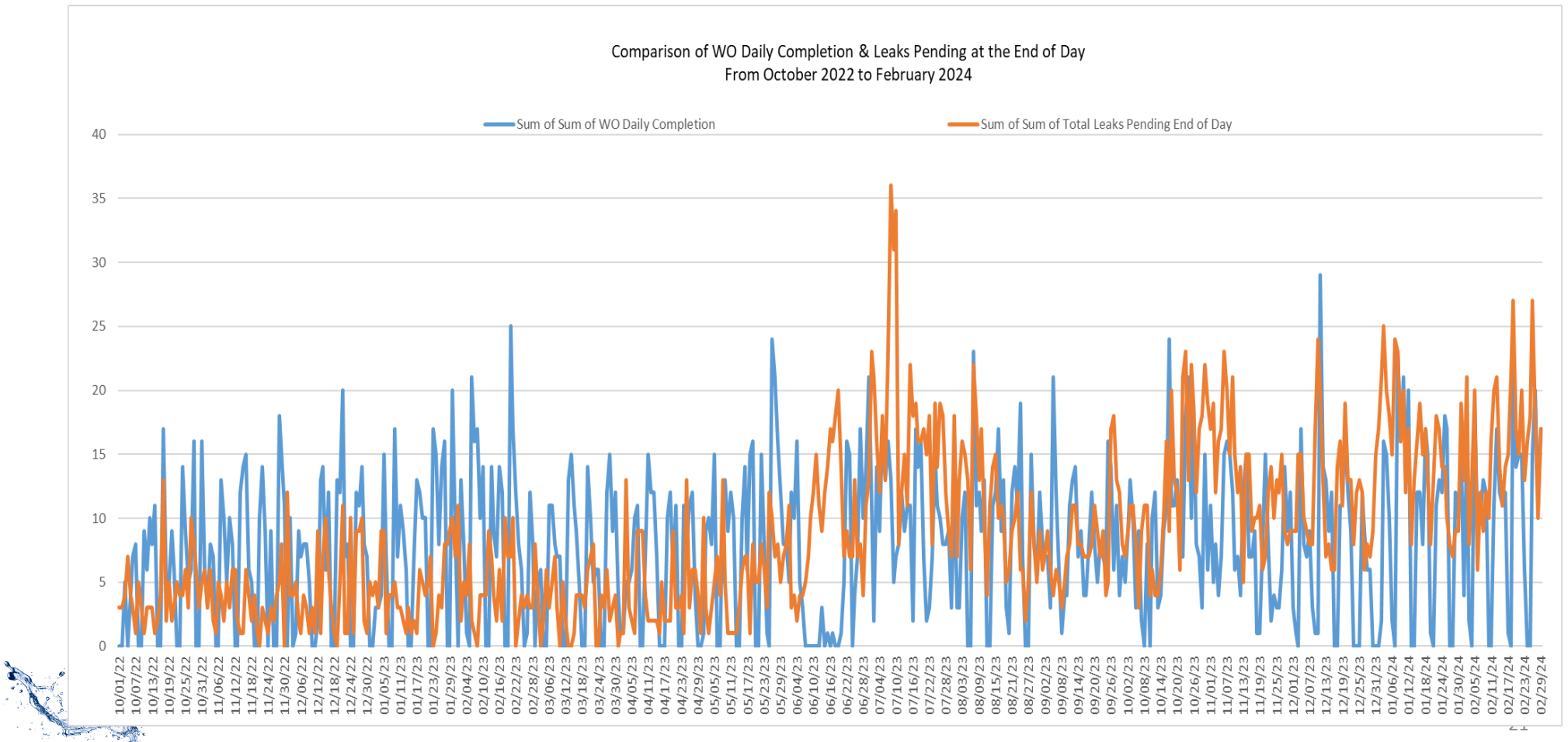


Comparison of Leaks Reported vs. Leaks Repaired (through February 2024)



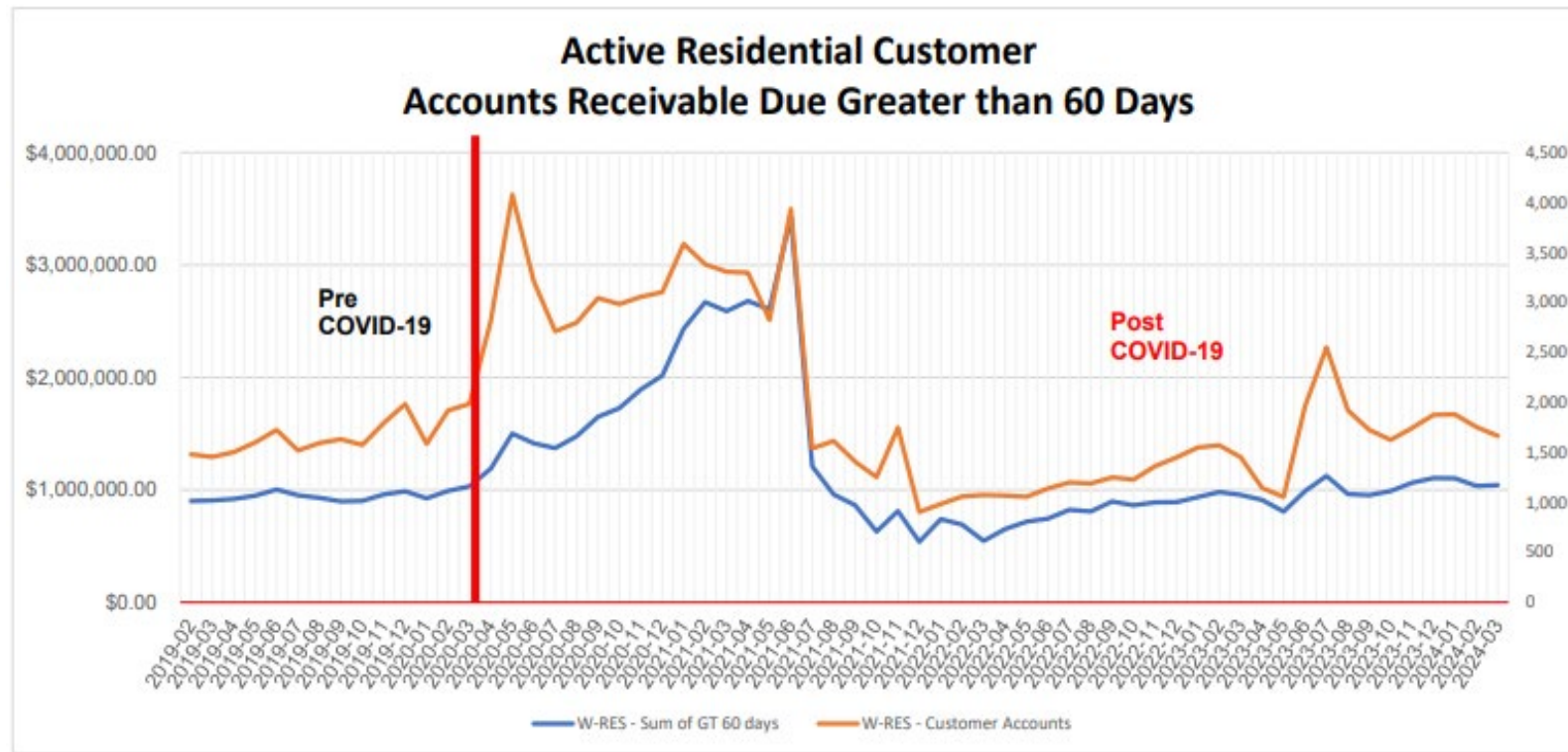


Daily Leak Repairs (through February 2024)





Accounts Receivables – Active Residential Customers (for February 2024)

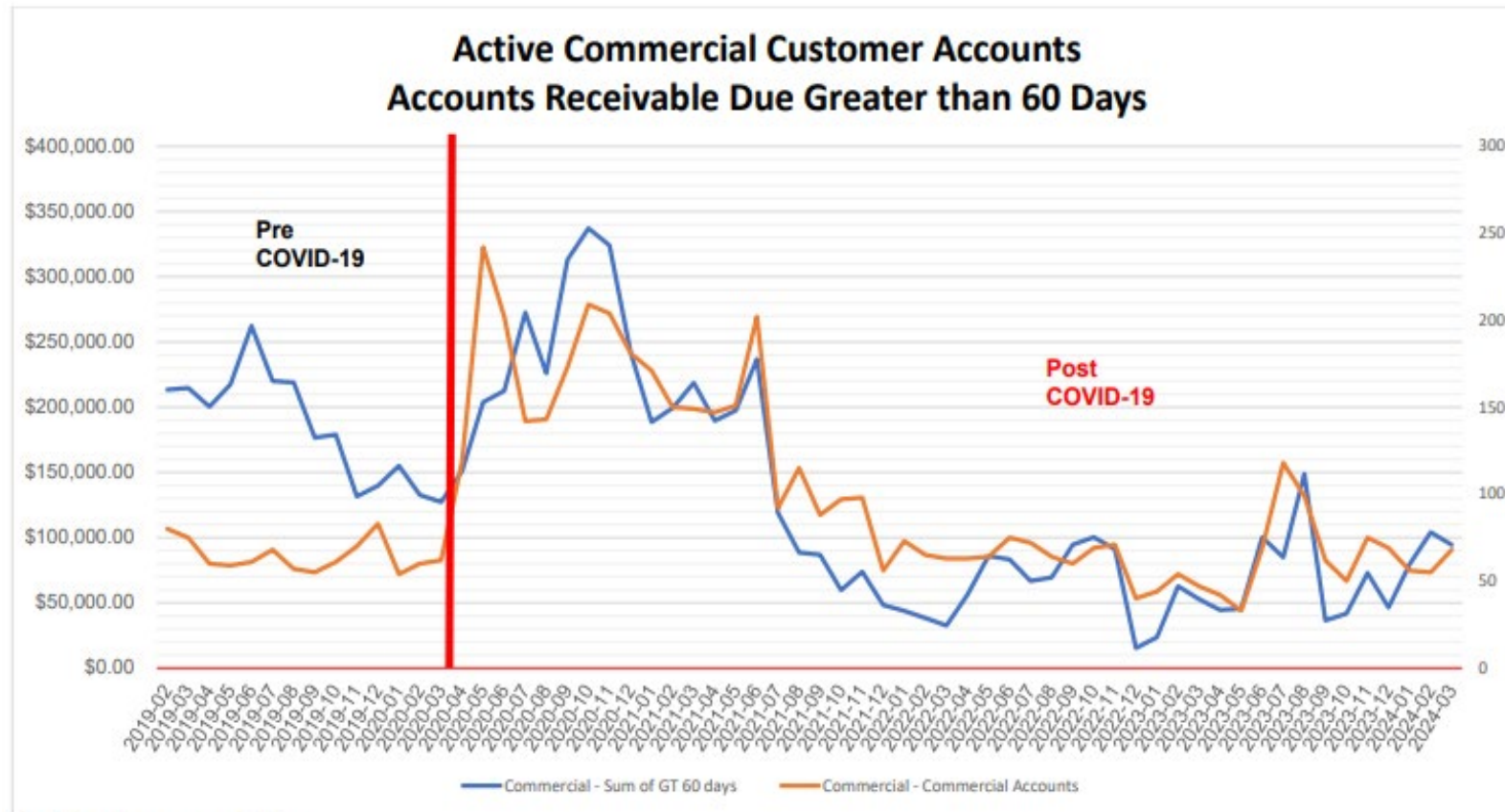


* Excluding customers on payment plans





Accounts Receivables – Active Commercial Customers (February 2024)



* Excluding customers on payment plans





Highlights of Customer Care Section Operations (February 2024)

- The average wait time for all 3 locations is 3.4 minutes as compared to 4 minutes for Jan 2024.
- The number one reason for visit to each GPWA location is identical in Feb 2024 as it was in Jan 2024:
 - Gloria B Nelson Public Service Bldg. Fadian = Apply for water
 - Julale Satellite Office = Copy of bill
 - Upper Tumon Satellite Office = Bill Dispute
- The total number of Facebook visits is 5884 for February 2024 as compared to 7023 for January 2024.
- Instagram profile visits for February 2024 decreased to 261 as compared to 302 in Jan 2024.
- February 2024 average number of active pay plans had a slight decrease @ 376 as compared to 396 in Jan 2024.
- There was an increase in emails received for February 2024 @ 564 total emails received as compared to 521 in Jan 2024.
- Meter Reading Unit reported the successful electronic read percentage @ 96.8% as compared to 96.17% in January 2024.
- 12.3% of GWA active customer meters recorded an ongoing private side leakage in February 2024 which is slightly lower than the 12.9% recorded in January 2024.





GWA Financial Overview

FEBRUARY 2024



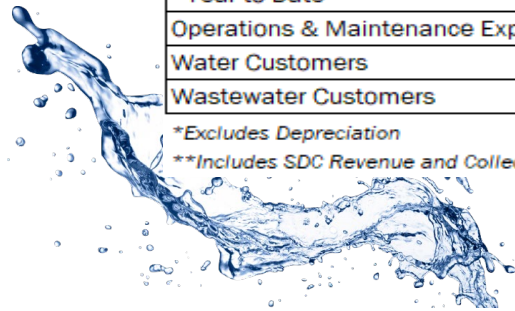


Key Financial Indicators

Indicator	Target	Dec-23	Jan-24	Feb-24
DSC YTD				
- Per Section 6.12 of Indenture	1.25	1.57	1.59	1.58
- Per PUC / CCU	1.30	1.57	1.59	1.58
Days – Cash on Hand	120 days	271 days	278 days	290 days
Collection Ratio**				
- Month to Date	99%	88%	98%	99%
- Year to Date	99%	83%	87%	90%
Days Billed	30 days	29 days	30 days	30 days
Account Receivable Days	30 days	39 days	39 days	39 days
Account Payable Days	45 days	40 days	38 days	38 days
Employee Count	400 FTE	359 FTE	357 FTE	351 FTE
Water Demand				
- Month to Date	451,933	431,731	424,459	418,166
- Year to Date	2,259,667	1,263,230	1,687,688	2,105,854
Wastewater Flow				
- Month to Date	317,500	316,817	309,902	298,261
- Year to Date	1,587,500	926,255	1,236,157	1,534,418
Operations & Maintenance Expense*	\$6,567,186	\$5,653,023	\$5,552,981	\$5,537,977
Water Customers	43,978	43,539	43,525	43,529
Wastewater Customers	30,781	31,083	30,879	31,216

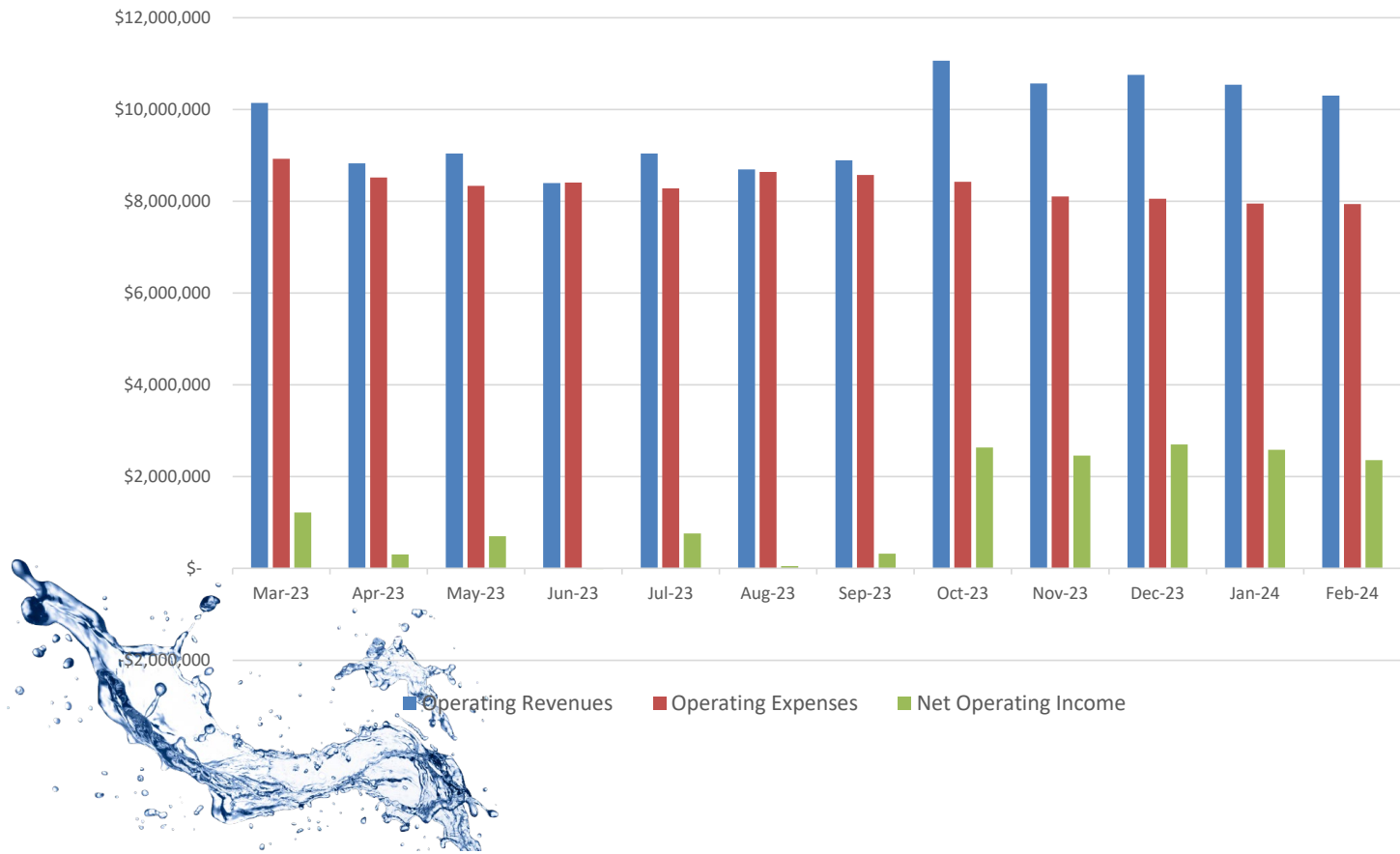
*Excludes Depreciation

**Includes SDC Revenue and Collection





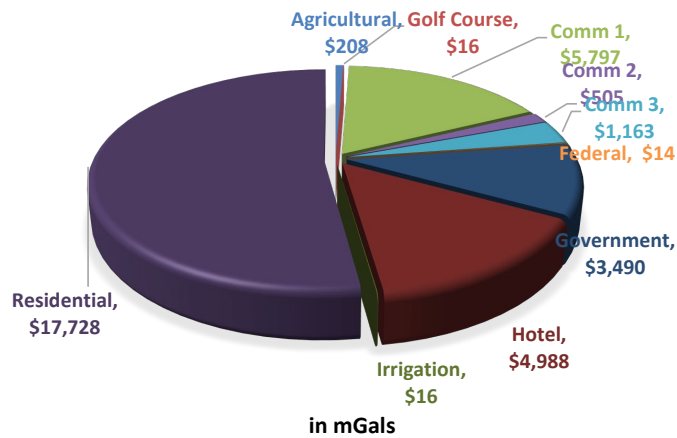
Income Statement



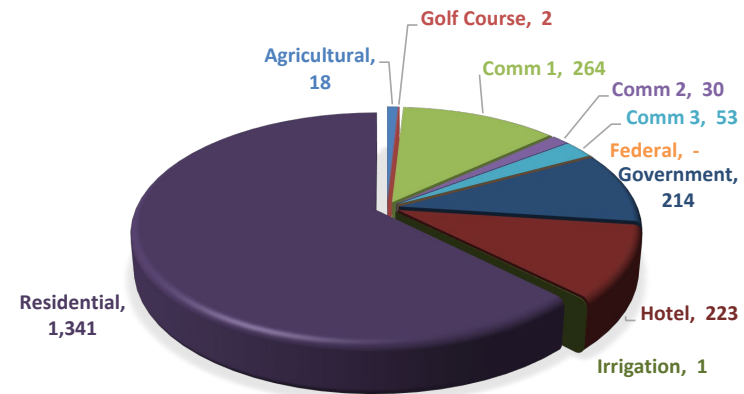
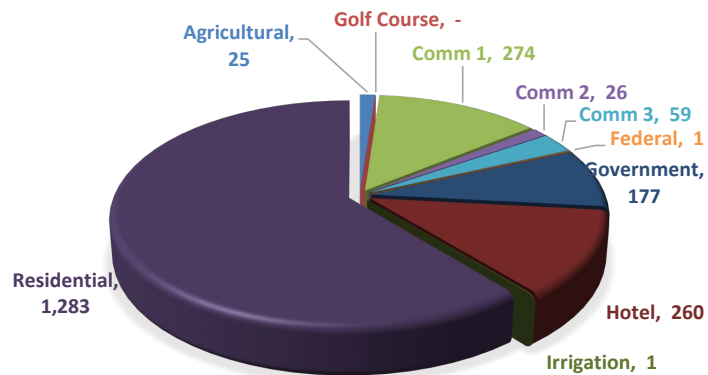
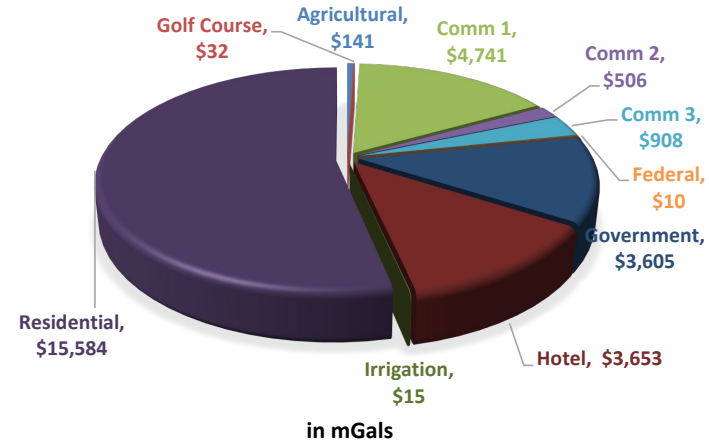


FEBRUARY YTD Water Revenue/Demand by Rate Class

FISCAL YEAR 2024 (in '000)



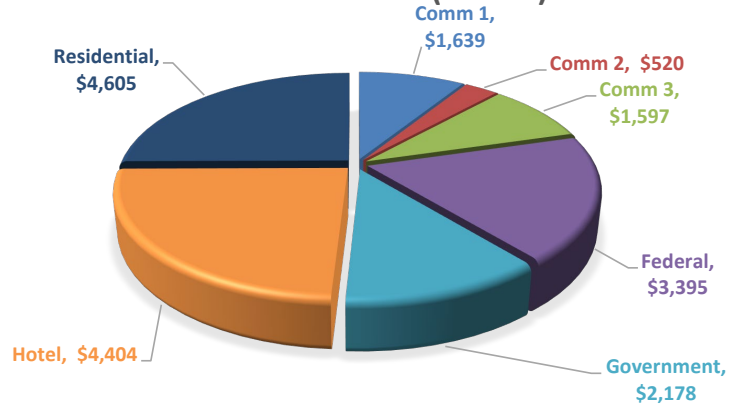
FISCAL YEAR 2023 (in '000)



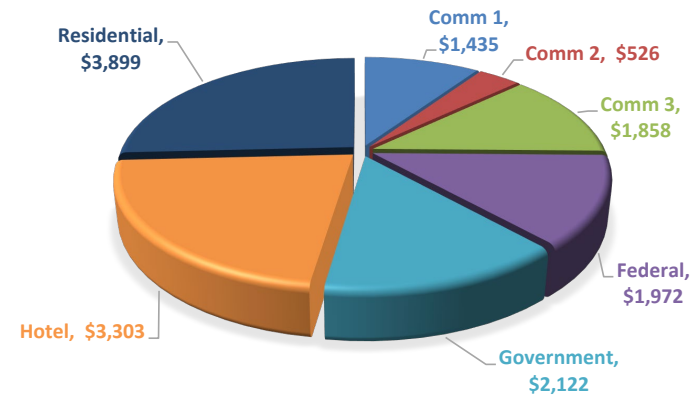


FEBRUARY YTD Waste Water Revenue/FLOW by Rate Class

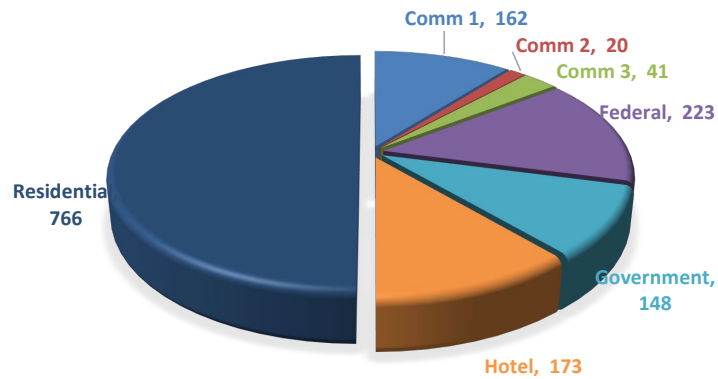
FISCAL YEAR 2024 (in '000)



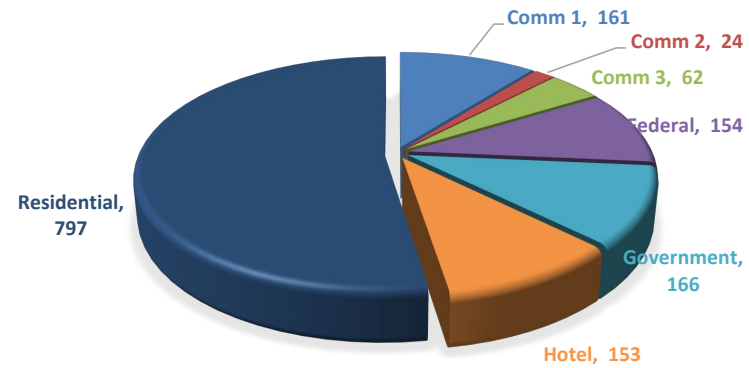
FISCAL YEAR 2023 (in '000)



in mGals

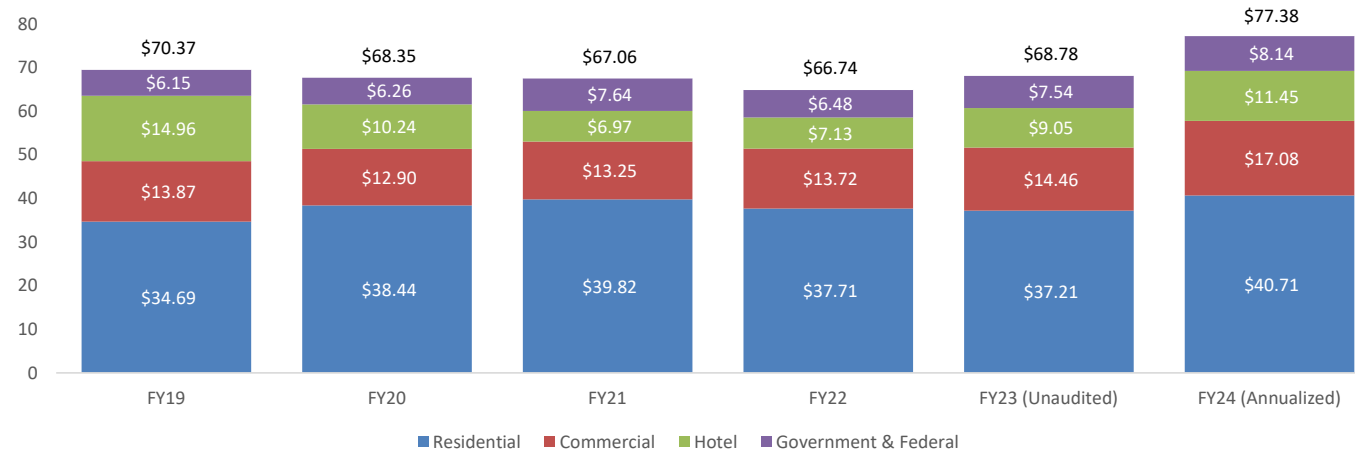
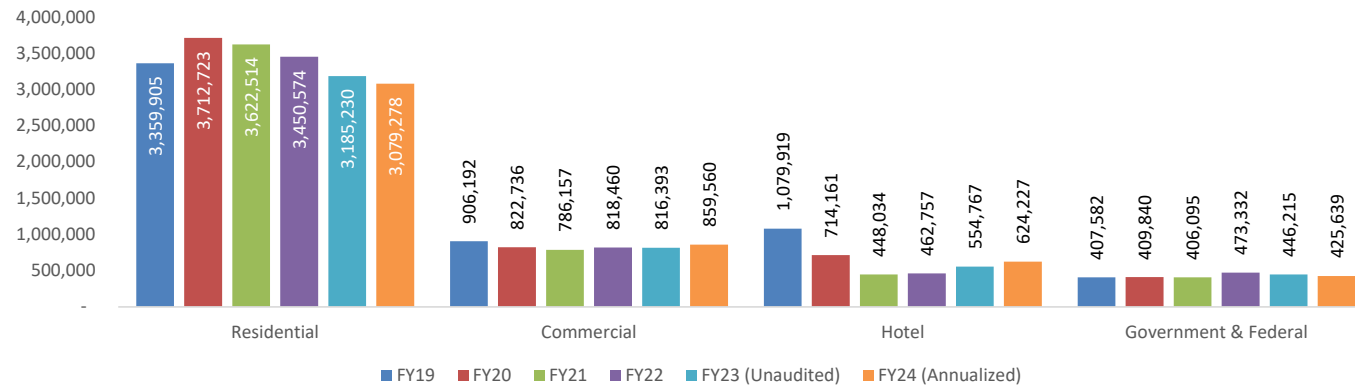


in mGals



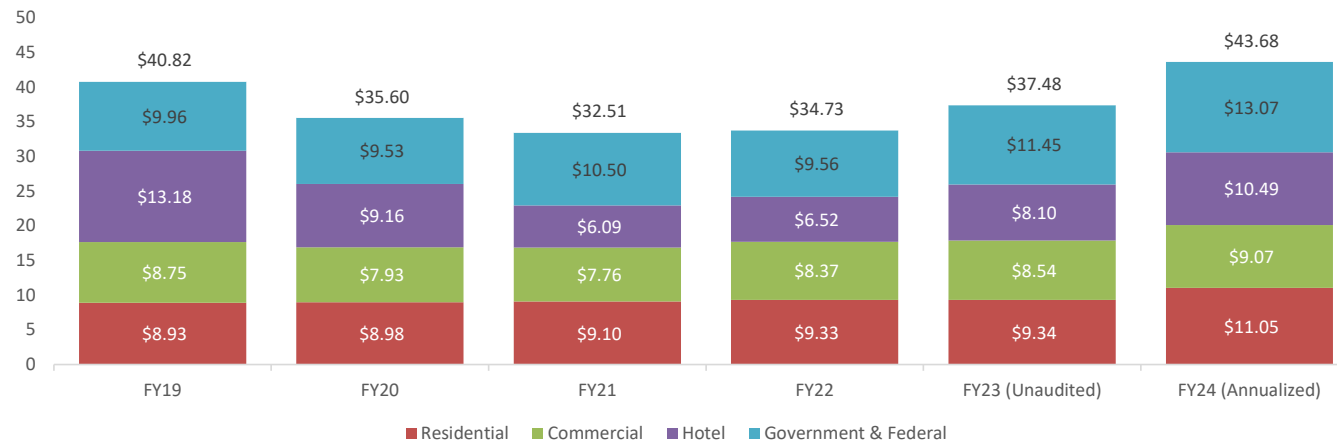
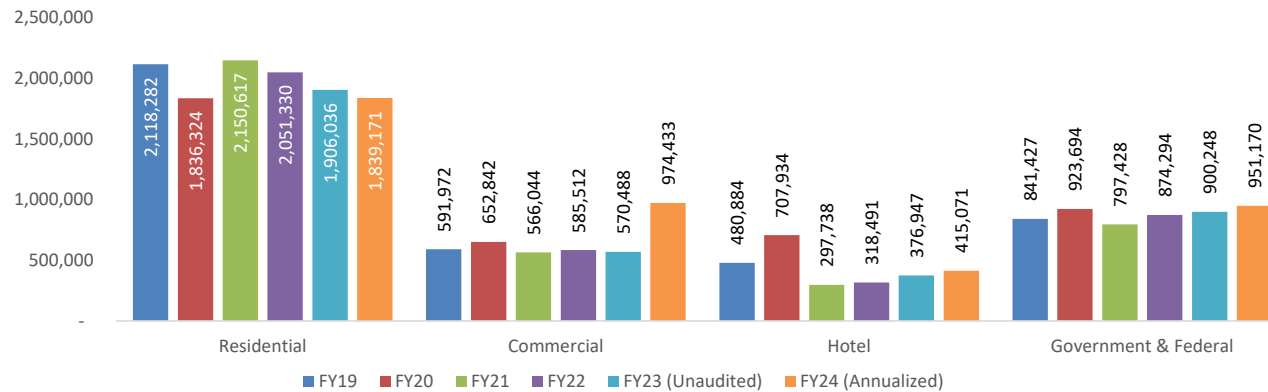


Annual Water Demand and Revenues by Rate Class



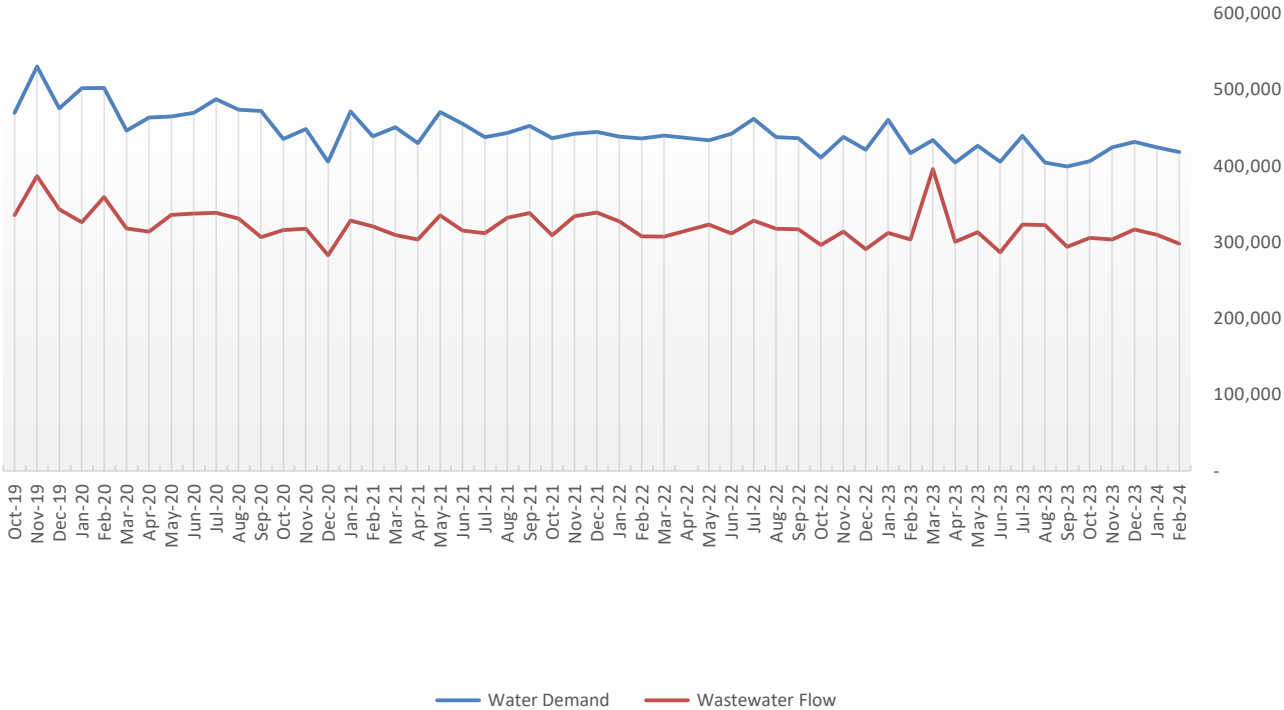


Annual Wastewater Billable Flows and Revenues by Rate Class





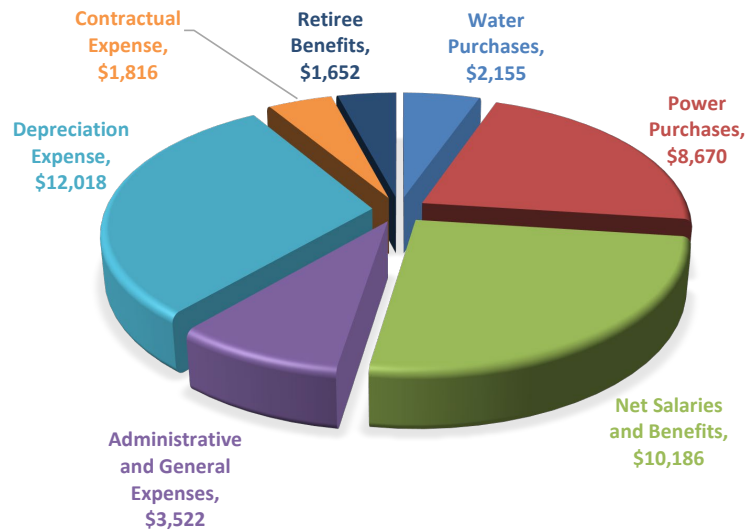
Water Demand & Wastewater Flow – 4 Years



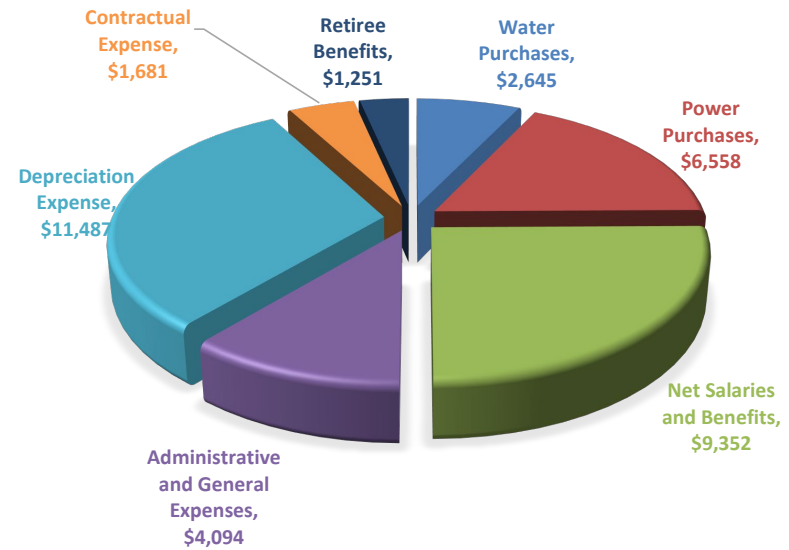


FEBRUARY YTD Expenses by Categories

FY2024 (IN '000)

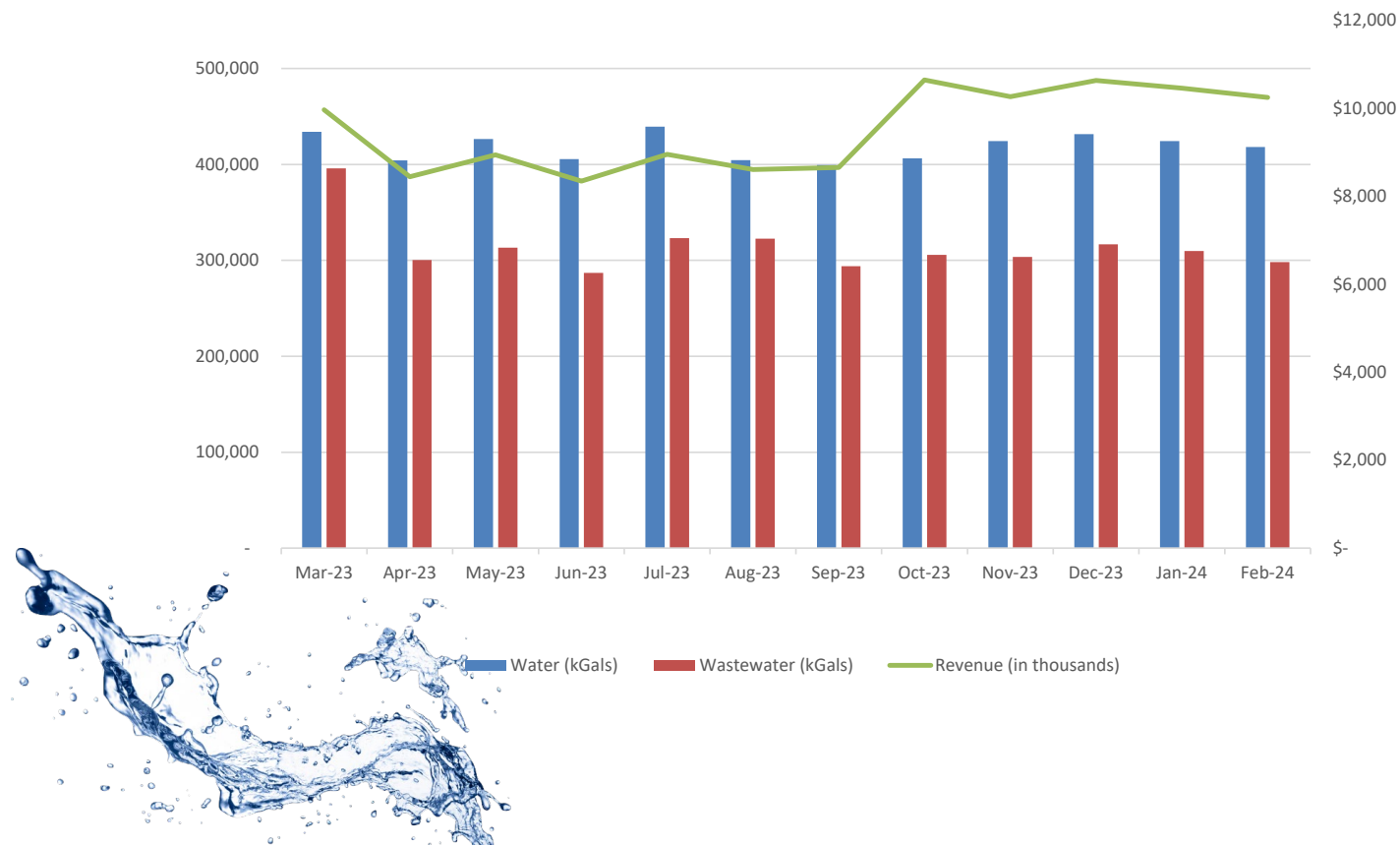


FY2023 (IN '000)



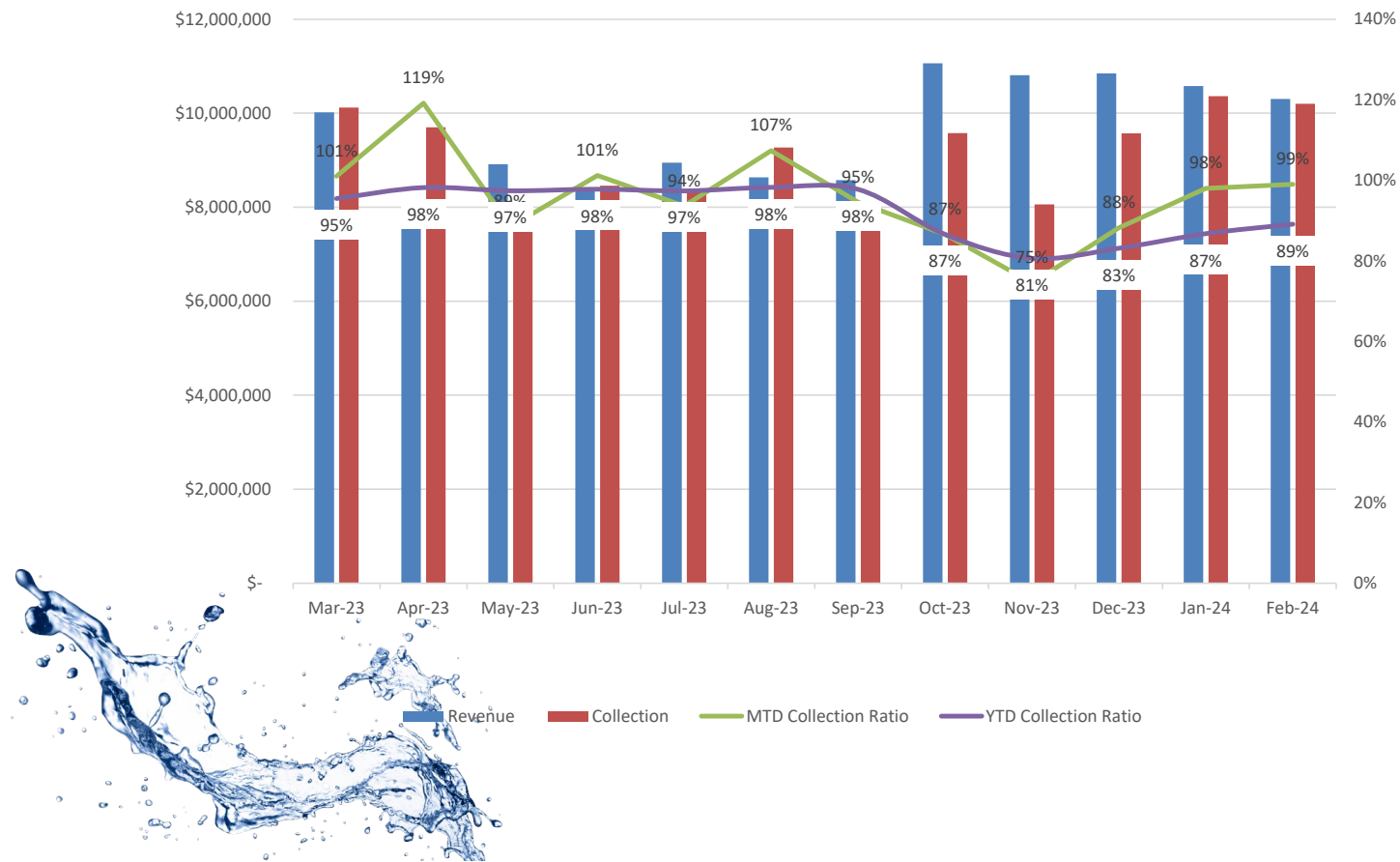


Overall Revenues and Demand





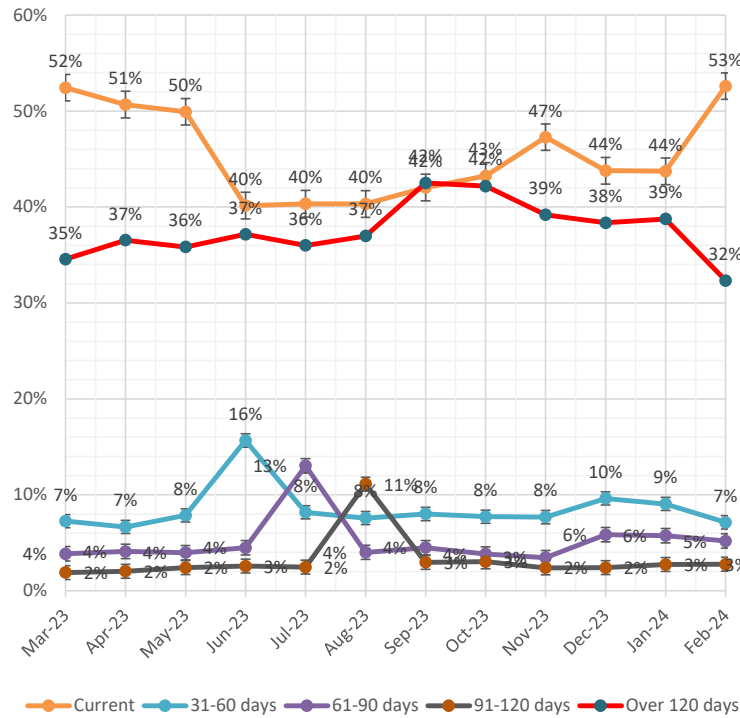
Overall Revenues and Collections



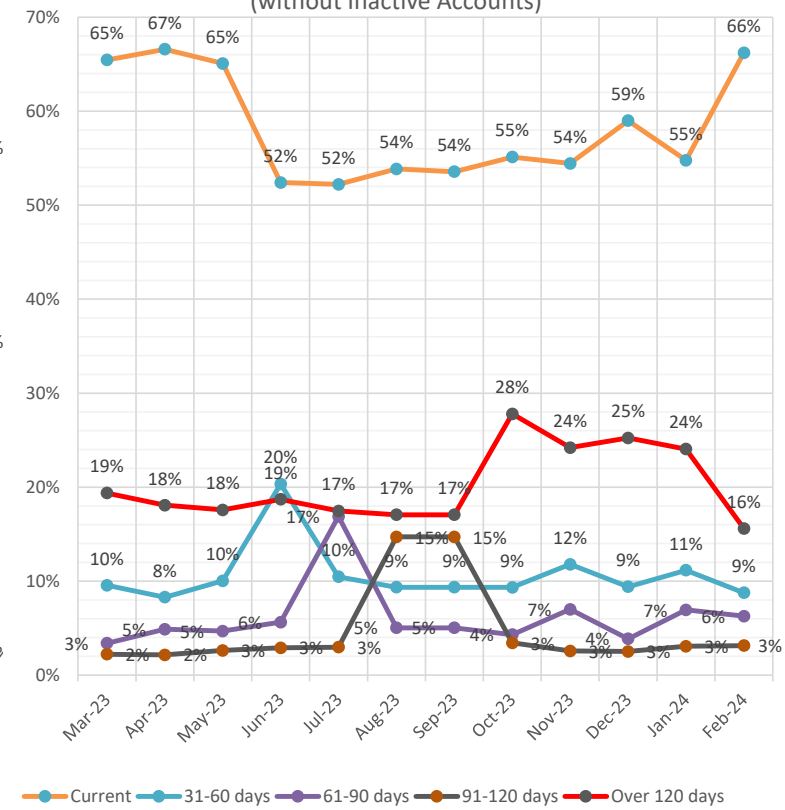


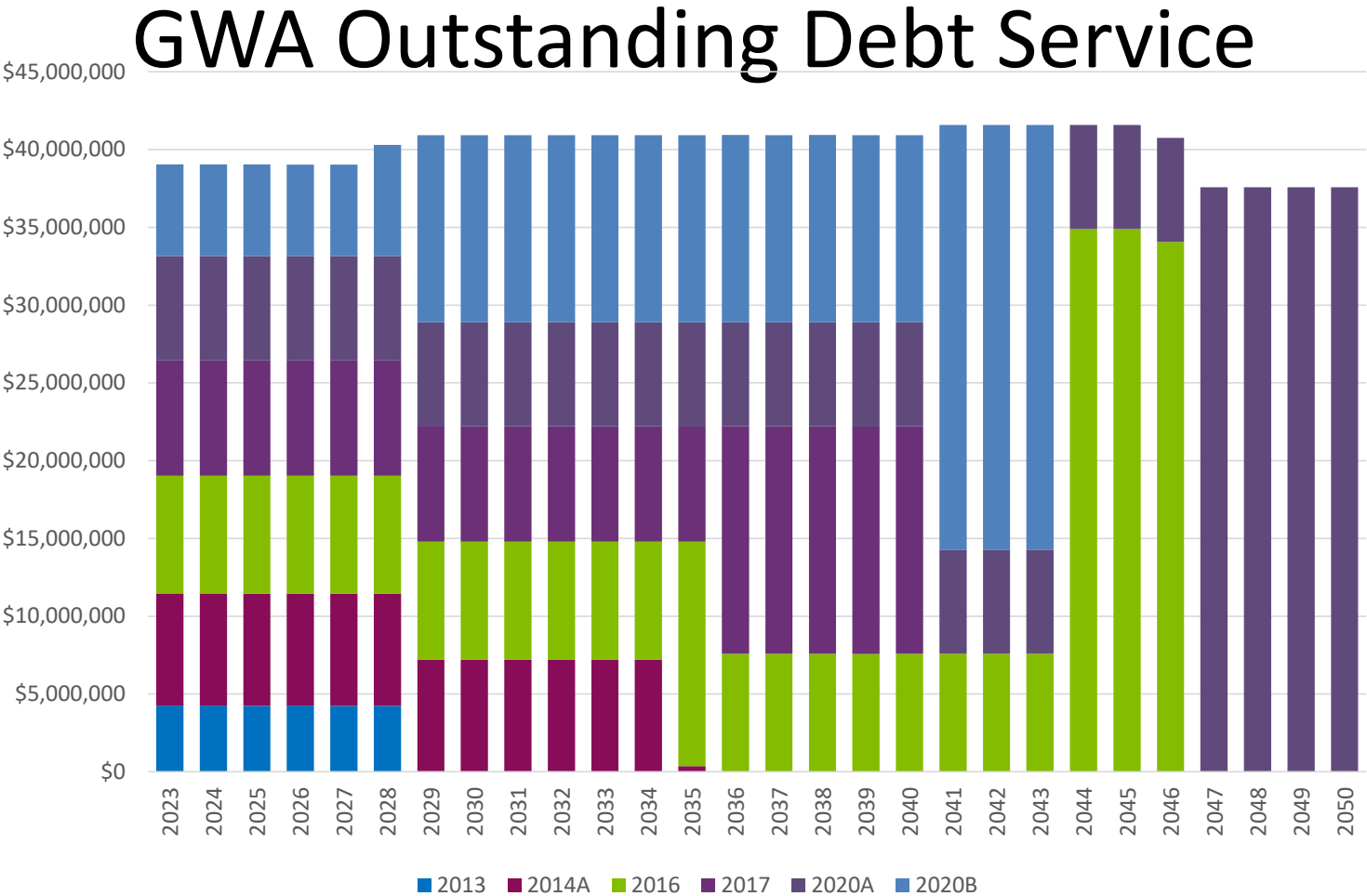
Overall – AR Aging

% of Aged AR Balance to Total AR Balance



% of Aged AR Balance to Total AR Balance
(without Inactive Accounts)





Source: Guam Waterworks Authority.
Aggregated by Fiscal Year Ending September 30.

1

Highlights of Customer Care Section Operations – February 2024:

- The average wait time for all 3 locations is 3.4 minutes as compared to 4 minutes for Jan 2024.
- The number one reason for visit to each GPWA location is identical in Feb 2024 as it was in Jan 2024:
 - Gloria B Nelson Public Service Bldg. Fadian = Apply for water
 - Julale Satellite Office = Copy of bill
 - Upper Tumon Satellite Office = Bill Dispute
- The total number of Facebook visits is 5884 for February 2024 as compared to 7023 for January 2024.
- Instagram profile visits for February 2024 decreased to 261 as compared to 302 in Jan 2024.
- February 2024 average number of active pay plans had a slight decrease @ 376 as compared to 396 in Jan 2024.
- There was an increase in emails received for February 2024 @ 564 total emails received as compared to 521 in Jan 2024.
- Meter Reading Unit reported the successful electronic read percentage @ 96.8% as compared to 96.17% in January 2024.
- 12.3% of GWA active customer meters recorded an ongoing private side leakage in February 2024 which is slightly lower than the 12.9% recorded in January 2024.

GWA Utility Services Division
Monthly Status Report
Month ending FEB 2024

FY2024 UTILITY SERVICES DIVISION ACTIVITIES		WEEK	WEEK	WEEK	WEEK	FEB 2024	WEEKLY	PREVIOUS MONTH	
		ENDING:	ENDING:	ENDING:	ENDING:	MONTHLY	AVERAGE	WEEKLY	JAN 2024
		02/10/24	02/17/24	02/24/24	03/02/24	TOTAL	FEB 2024	AVERAGE	MONTHLY
Collections Activities:									
I.	Number of accounts cut for nonpayment:	60	49	77	70	256	64	81	390
II.	Number of accounts restored for nonpayment:	49	37	70	61	217	54	57	269
III.	Number of No water reports responded to:	2	1	1	1	5	1	1	5
IV.	Number of Secure/Unsecure valve reports responded to:	2	1	1	8	12	3	5	26
V.	Number of Verify reads responded to:	5	6	8	5	24	6	5	21
VI.	Number of new pay plans negotiated for active accounts:	104	86	112	106	408	102	112	555
VII.	Number of active pay plans negotiated and ongoing:	375	357	383	389		376	396	
VIII.	Number of inactive accounts with a payment arrangement:	15	16	16	16		16	16	
IX.	Number of broken payment plans:	55	47	52	34	188	47	106	510
Customer Service Activities (lobby visits):									
A. GBN Public Service Building – Fadian									
i.	Total Customers Assisted:	198	212	190	209	809	202	178	855
ii.	Total Abandoned Requests:	4	2	5	6	17	4	5	24
iii.	Average Wait Time:	2 minutes	3 minutes	3 minutes	6 minutes		3.5 minutes	4.6 minutes	
iv.	Average Service Time:	9 minutes	10 minutes	9 minutes	10 minutes		9.5 minutes	9.4 minutes	
v.	Purpose of lobby visit:								
1.	Apply for water:	39	50	70	65	224	56	60	284
2.	Restore water cut for non payment:	12	3	6	15	36	9	8	40
3.	Terminate Water:	10	8	11	19	48	12	14	61
4.	Copy of Bill:	39	46	34	32	151	38	34	160
5.	Billing Dispute:	48	56	36	42	182	46	41	191
6.	Billing Dispute follow up:	1	0	0	0	1	0	0	1
7.	General Questions & Other:	48	34	28	30	140	35	34	162
8.	Report a water leak:	3	3	1	1	8	2	2	10
9.	Report water theft:	0	0	0	0	0	0	0	0
10.	Payment Arrangement:	18	12	10	10	50	13	17	91
B. Julale Satellite Office – Hagatna									
i.	Total Customers Assisted:	197	232	198	237	864	216	195	920
ii.	Total Abandoned Requests:	2	5	6	4	17	4	6	26
iii.	Average Wait Time:	2 minutes	3 minutes	2 minutes	3 minutes		2.5 minutes	3.2 minutes	
iv.	Average Service Time:	9 minutes	10 minutes	9 minutes	10 minutes		9.5 minutes	9.8 minutes	
v.	Purpose of lobby visit:								
1.	Apply for water:	43	34	26	53	156	39	48	218
2.	Restore water cut for non payment:	13	12	15	6	46	12	11	49
3.	Terminate Water:	8	17	8	19	52	13	14	66
4.	Copy of Bill:	46	63	53	65	227	57	59	288
5.	Billing Dispute:	58	60	54	52	224	56	60	272
6.	Billing Dispute follow up:	1	3	0	3	7	2	3	12
7.	General Questions & Other:	14	24	26	16	80	20	26	135
8.	Report a water leak:	0	1	1	0	2	1	1	5
9.	Report water theft:	0	0	0	0	0	0	0	0
10.	Payment Arrangement:	13	18	18	23	72	18	18	82
C. Upper Tumon Satellite Office – Upper Tumon									
i.	Total Customers Assisted:	337	307	385	389	1418	355	252	1266
ii.	Total Abandoned Requests:	6	6	9	10	31	8	6	36
iii.	Average Wait Time:	3 minutes	2 minutes	6 minutes	6 minutes		4.25 minutes	5.2 minutes	
iv.	Average Service Time:	12 minutes	14 minutes	14 minutes	15 minutes		13.75 minutes	11.6 minutes	
v.	Purpose of lobby visit:								
1.	Apply for water:	74	68	71	98	311	78	61	294
2.	Restore water cut for non payment:	12	13	23	20	68	17	22	128
3.	Terminate Water:	25	23	18	27	93	23	22	119
4.	Copy of Bill:	62	55	63	42	222	56	52	240
5.	Billing Dispute:	73	65	114	103	355	89	73	353
6.	Billing Dispute follow up:	1	1	3	1	6	2	2	6
7.	General Questions & Other:	56	65	68	70	259	65	42	228
8.	Report a water leak:	0	0	0	0	0	0	1	9
9.	Report water theft:	0	0	0	0	0	0	0	1
10.	Payment Arrangement:	34	17	31	29	111	28	21	117

GWA Utility Services Division
Monthly Status Report
Month ending FEB 2024

FY2024 UTILITY SERVICES DIVISION ACTIVITIES	WEEK ENDING: 02/10/24	WEEK ENDING: 02/17/24	WEEK ENDING: 02/24/24	WEEK ENDING: 03/02/24	FEB 2024 MONTHLY TOTAL	WEEKLY AVERAGE FEB 2024	PREVIOUS MONTH	
							WEEKLY AVERAGE JAN 2024	JAN 2024 MONTHLY TOTAL

Customer Service Activities (Electronic):

i. Emails Recieved:								
1. customers@guamwaterworks.org:	134	132	147	151	564	141	97	521
Request type (email):								
a. Apply for water:	11	12	12	9	44	11	9	44
b. Terminate Water:	5	4	4	5	18	5	5	24
c. Copy of Bill:	0	0	0	1	1	0	1	5
d. Billing Dispute & follow up:	1	0	0	3	4	1	0	0
e. General Questions & Other:	111	108	116	125	460	115	79	426
f. Report a water leak:	4	3	9	7	23	6	1	5
g. Report water theft:	0	0	0	0	0	0	0	1
h. Online services inquiry:	2	5	6	1	14	4	3	16
2. gwaservesme@guamwaterworks.org (realtors/prop mgrs):	0	0	0	0	0	0	0	0
ii. Emails Replied (both):	123	115	135	171	544	136	100	551
iii. Online Portal:								
Request type (online portal):								
a. Start Service:	1	2	2	5	10	3	2	12
b. Stop Service:	1	1	1	3	6	2	4	16
c. Payment Plan:	5	3	5	4	17	4	7	34
d. Customer Information Updates:	0	2	0	2	4	1	1	3
e. Service Investigations:	1	0	0	1	2	1	1	6
f. Account Inquiries:	1	5	4	3	13	3	3	17
g. Technical Support:	1	0	0	0	1	0	0	1
h. Outages & Emergencies:	0	0	0	0	0	0	0	0

Call Center Activities:

i. Calls Recieved:	1258	1447	1766	1547	6018	1505	1586	7696
ii. Calls Immediately Answered:	365	287	342	430	1424	356	395	1841
iii. Calls Abandoned:	92	91	109	83	375	94	95	446
iv. Calls Handled by Voice mail:	770	1068	1313	993	4144	1036	1052	5229
v. Average duration of call:	2 minutes	2 minutes	2 minutes	2 minutes		2 minutes	2.4 minutes	
vi. Breakdown by request type:								
1. Apply/Terminate info:	9	10	19	21	59	15	19	84
2. Automated Telephone Call:	37	50	46	41	174	44	48	203
3. Balance Inquiry:	45	31	25	38	139	35	39	186
4. Call Back:	19	43	45	61	168	42	32	149
5. Dispatch:	17	6	10	17	50	13	14	59
6. Dispute:	1	1	1	2	5	1	0	0
7. Follow-up:	13	26	25	35	99	25	25	115
8. General Questions & Other:	47	57	63	54	221	55	71	312
9. Route Calls to GWA Staff:	24	29	37	50	140	35	31	141
10. No Water:	10	5	8	4	27	7	7	33
11. Online/Phone App Help:	14	4	8	8	34	9	8	45
12. Pay by Phone:	67	38	39	61	205	51	65	332
13. Pay Plan:	37	41	53	49	180	45	47	211
14. Restore Non-payment:	14	15	24	36	89	22	20	88
15. Secure/Unsecure Valve:	3	3	6	12	24	6	15	66
16. Voice Mail:	119	166	145	138	568	142	149	747
17. Water leak:	2	3	5	3	13	3	3	11
vi. Social media responses:								
GWA Facebook Messenger:	6	1	1	1	9	3	2	9
GWA Facebook Responsive Rate:	88%	100%	100%	100%	4	97%	70%	
Total number of Facebook visits:	2200	984	1700	1000	5884	1628	1267	7023
Total number of Instagram profile visits:	80	25	93	63	261	66	59	302

Bill Dispute & Resolution Activities:

i. Dispute Resolution:								
1. Number of disputed accounts resolved:	18	33	20	6	77	20	13	53
2. Number of disputed accounts under review:	864	871	873	878		874	941	

Data Entry of Completed Field work in CIS:

i. Document Control:								
1. Number of field activities posted:	15	2	5	0	22	6	6	25
2. Number of field activities pending:	0	0	0	0	0	0	0	0

GWA Utility Services Division
Monthly Status Report
Month ending FEB 2024

FY2024 UTILITY SERVICES DIVISION ACTIVITIES	WEEK	WEEK	WEEK	WEEK	FEB 2024	WEEKLY	PREVIOUS MONTH	
	ENDING:	ENDING:	ENDING:	ENDING:	MONTHLY	AVERAGE	WEEKLY	JAN 2024
	02/10/24	02/17/24	02/24/24	03/02/24	TOTAL	FEB 2024	AVERAGE	MONTHLY
Field Response Activities:								
I. Number of field activities assigned:	280	217	222	334	1053	263	231	1153
II. Number of field activities completed:	301	228	232	262	1023	256	237	1161
III. Number of field activities pending field action:	67	40	10	11	128	32	18	79

Meter Reading Activities:								
I. Number of meters read:								
A. Electronically Read Meters:	10615	16797	7041	2684	37137	9284	9609	46179
B. Manually Read Meters:	633	479	310	73	1495	374	360	1828
i. Unread meters (Meters scheduled but not read):	5	2	6	1	14	4	3	14
ii. Number of data logs received:	31	31	39	37	138	35	33	161
iii. Number of data logs retrieved:	12	20	61	48	141	35	38	166
iv. Number of data logs pending field action:	0	0	0	0	0	0	0	0
v. Communication Errors/Reprogramming requests:	5	5	5	2	17	4	2	9
vi. Number of estimated readings (for the week):	4	2	5	1	12	3	3	13
vii. Reasons for Estimations:								
1. Cant locate meter:	0	0	2	0	2	1	0	0
2. Temporary Obstruction:	0	0	0	0	0	0	1	3
3. Vicious Dog:	0	0	0	0	0	0	0	0
4. Flooded meter:	0	1	0	0	1	0	0	0
5. Corrective action to database requested:	4	1	3	1	9	2	2	10
6. Possible changed out meter:	0	0	0	0	0	0	0	0
7. Communication/Programming error (code only):	0	0	0	0	0	0	0	0
8. Other:	0	0	0	0	0	0	0	0
a. Leaks detected on customer's private line:	1280	2315	917	273	4785	1196	1271	6001
b. Reverse Flow Detected:	353	258	137	62	810	203	226	1341
c. No Usage Detected:	366	561	386	121	1434	359	401	1920
d. Tamper Code:	5	17	4	7	33	8	13	61
C. Electronic Read Percentage:	94.37%	97.23%	95.78%	97.35%		96.18%	96.17%	

Illegal Connection & Unauthorized Use of Water								
I. Number of Inactive Still Consuming Reports rec'd & investigated:	2	0	0	0	2	1	0	2
II. Number of Illegal Connection reports rec'd & investigated:	0	0	0	0	0	0	1	4

Process for notifying customers with leak alert or high consumption:

-->If a customer registers 24 hours of continuous water usage within 7 days or their meter read then a leak alert is generated.

-->If a customer has a 50% increase in water usage compared to the previous months total volume of water consumed then a high consumption alert is generated.

If an alert is generated for a customer then an SMS, E-mail and automated phone call it sent to customers with valid mobile, land line number and E-mail address.

If the customer does not have a valid mobile, land line number or E-mail address then a letter is generated and sent to the billing address.

Customer Leaks and High Usage Alert Notifications:								
High Use Alert Only Total:	727	1232	840	413	3212	803	736	3681
SMS	159	291	191	92	733	183	168	842
EMAIL	166	252	188	89	695	174	159	796
DIALER	200	343	229	116	888	222	204	1020
LETTER	202	346	232	116	896	224	205	1023
Leak Alerts Only Total:	2707	4183	3536	1447	11873	2968	2673	11844
SMS	841	1338	1128	448	3755	939	747	3736
EMAIL	796	1190	1024	433	3443	861	685	3424
DIALER	1061	1647	1373	566	4647	1162	931	4656
LETTER	9	8	11	0	28	7	6	28
Leak & High Use Alerts Only Total:	388	750	500	197	1835	459	468	2117
SMS	86	169	121	39	415	104	96	478
EMAIL	83	158	98	43	382	96	89	447
DIALER	109	211	140	57	517	129	119	594
LETTER	110	212	141	58	521	130	120	598

2011 Court Order Performance Report Card / Dashboard as of 12/30/2023



GUAM WATERWORKS AUTHORITY

Court Order Performance Report Card

	Items	On-time Items Completed/Continuous	Items Delayed	Completed Late	Items on Schedule	Performance % Completed	Performance % Compliance
Court order total	93	78	0	13	2	97.8	100%

Legend in detail section below.

Fill Color	Meaning
Lime green	Done/Completed
Yellow	On Schedule
Blue	Behind Schedule
Violet	Completed Behind Schedule
Yellow Green	Ongoing and Continuous Counted under Completed

GWA Work Session - March 19, 2024 - GWA GM REPORT

2011 Court Order Performance Report Card / Dashboard as of 12/30/2023

Name	SO #	No	Project	GWA CO Timeline as extended	Due to EPA	Status
Northern District WWTP Primary Treatment Upgrades.	2	1	Interim Primary Treatment Improvements Complete	09/30/2012	@EPA	Done Construction completed 12/13/2012
	3(a)	2	Interim Effluent to meet Table 1	09/30/2012 monitoring started	@EPA	Done Table 1 compliance beginning January 9, 2013.
	3(a)(1)	3	PE Review (Application for 7.5 MGD pending)	3 months after compliance with 3(a)	@EPA	Done 3(a)(1) Application to increase to 7.5 MGD Approved 08/13/2017
	3(a)(2)	4	(Application for 9 MGD)	3 months after compliance with 3(a)(1)	N/A	Not considered necessary because of OEA Upgrade of NDWWTP to Secondary
	3(c)	5	Effluent monitoring (calendar-year quarter)	Completed	@EPA	Done. Full year completed 01/08/2012
	4(a)	6	Sludge & Biosolids Management Plan	12/31/2011	@EPA	Done. Biosolids to Landfill EPA Approval 08/17/2014
	4(a)	7	Adequate stabilization and dewatering	9/30/2012	@EPA	Done. By Design-Build contract.
	4(b)	8	Biosolids Management, Quarterly Report	Quarterly Report	@EPA	Ongoing Routine Monitoring Report, Repeats Quarterly
	4(c)	9	Biosolids Management, repair & replace facilities	09/30/2012	@EPA	Done Construction Complete 12/13/2012. Biosolids to Landfill
	4(d)	10	Biosolids Management, implement plan	9/30/2012	@EPA	Done - Biosolids to Landfill
Agaña WWTP Interim Measures.	5	11	Primary Treatment Plant Upgrades	06/30/2013	@EPA	Done. CEPT is operational and routine.
	5(a)	12	Scope and schedule	09/30/2011	@EPA	Done. CEPT is operational and routine.
	5(b)	13	Septage Handling Complete	06/30/2013	@EPA	Done. Septage Receiving at the NDWWTP (location option) reported 06/26/2013.
	5(b) 1	14	Septage handling design contract signed	12/31/2011	@EPA	Done. Septage Receiving at the NDWWTP (location option) reported 06/26/2013.
	5(b) 2	15	Septage handling construction notice to proceed	06/30/2012	@EPA	Done. Septage Receiving at the NDWWTP (location option) reported 06/26/2013.
	5(c)	16	Grit and FOG Complete	06/30/2013	@EPA	Done Phase III CEPT is in operations.)
	5(c) 1	17	Grit and FOG design contract signed	12/31/2011	@EPA	Done Grit and FOG reported 06/06/2013
	5(c) 2	18	Grit and FOG construction notice to proceed	06/30/2012	@EPA	Done Submitted 11/17/2011
	5(d)	19	Repair Solids handling	11/17/2011	@EPA	Done Submitted 11/17/2011
	5(e)	20	O & M Plan	05/31/2013	@EPA	Done O & M Plan reported 05/31/2012
	5(f)	21	Effluent monitoring (calendar-year quarter)	Completed	@EPA	Done - Completed Full year as of 01/08/2012
	6	22	Prevent Effluent Back Surge	06/30/2013	@EPA	Done Old outfall decommissioned (plugged) 06/25/2013
	6	23	Effluent Back Surge Plan	12/30/2011	@EPA	Done Old outfall decommissioned (plugged) 06/25/2013
	6	23	Effluent Back Surge Plan	12/30/2011	@EPA	Done Old outfall decommissioned (plugged) 06/25/2013
I&I SSES	7	24	Collection System SSES and I/I evaluation	Done.	@EPA	Done.
SSES Work Plan	8	25	Work Plan	180 days	@EPA	Done Reported 08/13/2012
	8(a)	26	Flow and rainfall data	N/A	@EPA	Done Reported 04/25/2013
	8(b)	27	I/I Southern	540 days	@EPA	Done Reported 04/25/2013
	8(c)	28	I/I Central	900 days	@EPA	Done Reported 04/28/2014
	8(d)	29	SSES Southern	540 days	@EPA	Done Reported 04/30/2013 – update 04/29/2016
	8(e)	30	SSES Central	900 days 09/15/2015 EPA Disap. Ltr.	@EPA	Done Late – Completed June 2, 2017
	8(e) 2	31	SSES Central Report	09/15/2015 EPA Disapproval Letter	@EPA	Done Late – Completed June 2, 2017
Agat / Santa Rita,	9(a)	32	By Pass Report	60 days	@EPA	Done Reported 01/04/2012
	9(b)	33	Flow Meter	180 days	@EPA	Done Reported 07/26/2012
	9(c)1,2,3	34	Report evaluating near term measures	180 days response sent 09/29/2014	@EPA	Done Reported 05/07/2012 GWA response 09/29/2014.
	9(d)	35	Implement near term measures d - Disinfection	03/23/2016	@EPA	Done Late EPA specifications of 9(c), 9(d) and 9(f) on 09/24/2015.
	9(e)	36	Implement near term measures e – sludge mgmt.	03/23/2016	@EPA	Done Reported 03/23/2016
	9(f)	37	Implement near term measures f – 75% Bypass Red.	03/23/2016	@EPA	Done Reported 03/23/2016
	10	38	System Evaluation	12/31/2013 response sent 09/29/2014	@EPA	Done Reported 12/28/2013 GWA response 09/29/2014.- update 04/29/2016
	11	39	System Upgrades	03/14/2017 Plant became operational.	@EPA	Done Late New Agat WWTP on line 03/14/2017
	11(a)	40	System Upgrades design	06/30/2014-NTP 10/13/2014	@EPA	Done Late CCU approval 08/26/2014. NTP was issued on 10/13/2014
	11(b)	41	System Upgrades notice to proceed	06/30/2015-NTP 10/02/2015	@EPA	Done Late NTP Ph.1 issued 10/02/2015 - NTP Ph.2 due 01/04/2016
Baza Gardens	12(a)	42	Interim Measures Evaluation (Independent PE)	180 days	@EPA	Done Reported 05/07/2012, PMO task
	12(b)	43	Interim Measures Complete	540 days	@EPA	Done Reported 05/01/2013 PMO task
	12(c)	44	Evaluation Bio Solids Report	180 days	@EPA	Done-EPA Approval 08/28/2014
	12(d)	45	Complete Bio Solids	360 days	@EPA	Done Reported 03/21/2013
	13	46	System Evaluation	04/30/2014	@EPA	Done Reported 04/30/2014 GWA response 10/02/2014
	14	47	System Upgrades	04/31/2018	@EPA	Done Critical path need to complete I&I/SSES
	14(a)	48	System Upgrades, Design Starts	10/31/2015 NTP DCA 02/05/2016	@EPA	Done Late Linked to new Agat WWTP NTP DCA 02/05/2016
	14(b)	49	System Upgrades Construction (started on time)	10/31/2016	@EPA	Done Late Finished 12/31/2018.

GWA Work Session - March 19, 2024 - GWA GM REPORT

2011 Court Order Performance Report Card / Dashboard as of 12/30/2023

Name	SO #	No	Project	GWA CO Timeline as extended	Due to EPA	Status
Umatac-Merizo	15	50	Complete Evaluation	12/31/2013	@EPA	Done Reported 12/31/2013 -- Critical path, completed I&I/SSES
	16	51	System Upgrades	12/31/2018	@EPA	Delayed by US Fish and Wildlife issues – completed November 13, 2019
	16(a)	52	System Upgrades, Design Starts	06/30/2016	@EPA	Done Design Build contract executed 06/29/2017
	16(b)	53	System Upgrades, Notice to Proceed	06/30/2017	@EPA	Done NTP Issued 06/30/2017
Sewer Cleaning	17	54	Sewer Cleaning (in annual and quarterly reports)	2017-2022 Goal set: Complete Every 5 years	@EPA	Ongoing -- 1 st round completed – Second cycle under way
Hot Spot Plan	18	55	Hot Spot Plan	EPA Revision letter o9/08/2015	@EPA	Done Last Revision submitted 10/23/2015 GWA WW Ops
CCTV	19	56	CCTV (in annual and quarterly reports)	Done- 2016	@EPA	Done Whole System, 2016 Continues as indicated by cleaning work.
Sewer Hook-Up	20	57	Sewer Hook-Up Revolving Loan Support	In Operation	@EPA	Done – available on GWA web site or at GWA Customer Service
GW Disinfection	21	58	Groundwater Chlorination	540 days	@EPA	Done Reported 04/29/2013
Chlorine Residual Monitors	22	59	Plan	180 days	@EPA	Done Reported 09/94/2012
	22(a)	60	High Risk Wells	540 days	@EPA	Done Reported 05/02/2013
	22(b)	61	Moderate Risk Wells	2 years	@EPA	Done Reported 07/31/2013
	22(c)	62	All Other Wells	Completed 07/31/2017	@EPA	Done Late – Completed 07/31/2017
Water Metering	23(a)	63	Plan & schedule	180 days	@EPA	Done Late - Reported 05/08/2012
	23(a)	64	All connections are metered and mapped	2 years	@EPA	Done Late – completed 11/15/2018
	23(b)	65	Plan repair & maintain	180 days	@EPA	Done GWA Test facility operational 06/28/2013
Ugum Surface Water Treatment Plant	24	66	Construction complete	One year	@EPA	Done Reported 11/09/2012
	24	67	PE Inspection	60 days before start-up	@EPA	Done EPA Approval 08/26/2014
	25	68	PE Performance Operation Assessment	60 days before start-up	@EPA	Done EPA Approval 08/26/2014
	26	69	O&M Plan and Procedures	90 days before start-up	@EPA	Done Reported 08/10/2012 EPA Approval 08/17/2014
	27	70	Plant compliance	365 days	@EPA	Done Reported 02/07/2013
Sinajana Water Transmission Line	28(a)	71	Existing Construction Complete	180 days	@EPA	Done Reported 12/23/2011
	28(b)	72	Hydraulic Evaluation	180 days	@EPA	Done EPA No Further Comment 08/26/2014
	28(c)	73	Construction Complete (2 tanks)	540 days from 11/21/2013	@EPA	Done Late GEPA Delays Tank Constr. Completed August 2015: In Service July 2016.
	28(d) 1	74	Monitoring Plan	90 days prior	@EPA	Done Reported 09/07/2012
	28(d) 1	75	Implement- Monitoring Plan	For one year after start up	@EPA	Done GWA Compliance - Start 09/01/2015 – end 08/31/2016
	28(d) 2	76	Monitoring Plan	180 days prior	@EPA	Done EPA Approval 08/26/2014
	28(e)	77	Implement- Monitoring Plan	For one year after start up	@EPA	Done - Start 09/01/2015 – end 08/31/2016
Storage Tank/Reservoir Rehabilitation and Replacement Program.	29(a) 1	78	Plan hydraulic analysis	90 days	@EPA	Done Reported 11/09/2012
	29(a) 2	79	Hydraulic analysis	540 days	@EPA	Done EPA No Further Comment 08/26/2014
	29(b) 1	80	Plan minimize service interruptions	90 days after approval	@EPA	Done EPA approval 08/26/2014
	29(b) 2	81	Tank inspection schedule	540 days	@EPA	Done EPA approval 08/26/2014
	29(b) 3	82	Complete Barrigada (1 @ 2 MG tank)	540 days	@EPA	Done
	29(b) 4	83	Assess additional 7 tanks	5 years (11/10/2016)	@EPA	Done DCA contract task
	29(b) 5	84	RRRR 7 additional tanks	5 years (11/10/2016)	@EPA	Done PMO executed procurement
	29(b) 6 i	85	RRRR 10 additional tanks	12/31/2025	@EPA	In Progress, expected to meet the 02/11/2021 Court Order Extension 12/31/2025
	29(b) 6 ii	86	RRRR remaining tanks	12/31/2025	@EPA	In Progress, expected to meet the 02/11/2021 Court Order Extension 12/31/2025
	29(c)	87	In Quarterly / Annual Report	Quarterly / Annual Report	@EPA	Ongoing GWA Compliance Repeats Quarterly
	31(a)(1)	88	Quarterly Report	Jan., April, July, Sept. Continuous	@EPA	Ongoing Due by the 30 th of the specified months
Section III REPORTING REQUIREMENTS	31(a)(2)	89	Reports on Non Compliance	Within 30 days from determination of delay	@EPA	Ongoing As determined by GWA
	31(b)	90	SSO and Bypass Report	Jan., April, July, Sept. Continuous	@EPA	Ongoing Due by the 30th of the specified months
	31(c)	91	Annual Report	January each year	@EPA	Ongoing Included with 31(a) each Year
Section IV NOTICES	35	92	CO contacts		@EPA	Ongoing GWA Compliance report 06/29/2016
	36	93	Formal notices of change in CO contacts	Whenever specified staffing changes	@EPA	Ongoing GWA Compliance report 06/29/2016



**Engineering Monthly Report
March 2024**

Prepared by:

Jeanet Babauta Owens, P.E.
Assistant General Manager of Engineering

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This Engineering Report summarizes activities for the month of February 2024.

A. Capital Improvement Projects (CIP)

TOTAL NO. OF CIP PROJECTS: 54

ALL CIP SECTIONS

No. of Projects (All CIP Sections): **2**

There are a total of 2 CIP projects that applies to all CIP projects.

EXHIBIT NO.	PROJECT TITLE	STATUS
B-1	ID/IQ – Professional Civil and Structural Design Services	Active
B-2	ID/IQ – Professional Project-Construction Management Services	Active

WATER / WASTEWATER

No. of Projects (Water/Wastewater): **2**

Currently, there are two water and wastewater CIP projects with one in planning and the other in 60% design phase.

EXHIBIT NO.	PROJECT TITLE	STATUS
B-3	Gill Breeze Subdivision Water and Sewer Design RFP	Procurement
B-4	Adacao Water and Sewer Infrastructure Design Services	Design, In Progress

WATER

No. of Projects: 18 projects

There are six (6) water CIP currently in construction and the remaining projects in planning, design or procurement phases. The six (6) water CIP projects consists of multiple reservoir construction and rehabilitation, waterline replacement, and pressure zone realignment. Under the Court Order projects, there are currently four (4) active steel tank major repairs in progress with another three (3) steel tank major repair and three (3) new concrete tank construction slated to start in the coming months.

EXHIBIT NO.	PROJECT TITLE	STATUS
B-5**	Well Abandonment	Planning**

<u>B-6**</u>	Well Rehab A-28, D-15, M-14, F-07	Planning**
<u>B-7</u>	Central Guam Reservoirs	Construction,
		In Progress
<u>B-8</u>	Design and CM Services for Waterline Replacement of Various Bridges	Procurement
<u>B-9</u>	Pressure Zone Realignment	Construction,
		In Progress
<u>B-10</u>	Fire Hydrant Replacement Phase 1	Construction,
		In Progress
<u>B-11</u>	Tai Rd./ S-13 and Canada-Toto Lp./Blas St. Waterline Replacement	Construction,
		In Progress
<u>B-12</u>	Asan Springs Rehabilitation	EA in process, Design is complete, ROW agreement being negotiated with NPS
<u>B-13</u>	Groundwater Wells A-02, A-07, A-12, D-05, and F-03 Rehabilitation (Re-bid No. 3)	Design completed and IFB Construction issued [insert dates] but no bids received;
<u>B-14</u>	ID/IQ - Design and CM Asbestos Concrete Pipe for Waterline Replacement	Procurement
<u>B-15</u>	ID/IQ - Design and CM for Waterline Replacement and Upgrades	Procurement
<u>B-16</u>	ID/IQ - Design and CM Implementation of District Meter Areas	Procurement
<u>B-17</u>	ID/IQ - Design and CM Undersized Waterline Replacement	Procurement
<u>B-18</u>	Santa Rita Springs Rehabilitation	Procurement
<u>B-19</u>	Brigade II Booster Pump Station	Design completed
		Seeking grants for additional funding
<u>B-20</u>	New Well Construction (AG-10, AG-12, Y-08)	Design Completed
		CM on hold pending funding availability for construction
<u>B-21</u>	Northern and Southern Guam Reservoirs	Design/CM/Construction
		In Progress
<u>B-22</u>	Tank Repair/Bypass	Design/CM/Construction
		In Progress

** No project worksheets.

WASTEWATERNo. of Projects: **16**

There are fourteen (14) active wastewater CIPs, one (1) drainage/roadway improvement project in construction procurement and one (1) study or the Hagatna Wastewater Treatment Plant Interim Disinfection Project. Five (5) wastewater CIPs are substantially complete and in operation. Four (4) projects out of 16 wastewater CIPs will meet consent decree conditions for gravity main, force main, and sewer pump station rehabilitation/replacement.

EXHIBIT NO.	PROJECT TITLE	STATUS
B-23	Asan-Adelup-Hagatna Route 1 Sewer Rehabilitation and Replacement Phase II	Construction Completed
		Close-Out In Progress
B-24	Southern SSES Sewer Rehabilitation Phase II (Baza Gardens-Santa Rita-Talofofo)	CM/Construction Completed
		Close-Out In Progress
B-25	Talofofo Sewer Improvement	Construction Completed
		Project is closed-out
B-26	Tamuning Hot Spots Sewer Line Rehabilitation and Replacement	Construction Completed
		Close-Out In Progress
B-27	Bayside Sewer Pump Station Rehabilitation	Construction Completed
		Design Close-out in progress
B-28	Yigo Sewer Pump Station Flood Mitigation & Facility Rehabilitation	Construction,
		In Progress
B-29**	Southern Drainage Sewer Line Survey will be incorporated in Route 2 Gravity Sewer Rehab	Planning
B-30**	Fats, Oil, Grease Receiving Station	Procurement**
B-31**	Tumon Hot Spots	Design**
B-32	Dungca Beach Sewer Line Relocation	Design, In Progress**

B-33	Fujita Sewage Pump Station Redundant Force Main	Design, In Progress
B-34	Hagatna Main Sewage Pump Station Redundant Force Main	Design, In Progress
B-35	Hagatna Wastewater Treatment Plant Causeway and Facility Structural Analysis	Design, In Progress
B-36	Hagatna Wastewater Treatment Plant Interim Disinfection	Design, Close-Out In Progress
B-37	Aplacho Drainage and Roadway Improvements Construction	Procurement
B-38	Indefinite Delivery-Indefinite Quantity Islandwide Sewer Collection/Transmission System Repair, Rehabilitation, and Replacement Design	Procurement

** No project worksheets.

ELECTRICAL & CAPITAL IMPROVEMENTS

No. of Projects: 14

Two (2) water projects have completed construction: Casimiru Waterline Replacement and Reifsnider Street Waterline. One (1) IDIQ task order assessment and design being processed for approval. One (1) water project, two (2) electrical projects, two (2) facility projects and three (3) SCADA projects in planning. The remaining three (3) projects are in construction phase.

EXHIBIT NO.	PROJECT TITLE	STATUS
B-1	IDIQ Task Order No. 2 – Structural Assessment and Rehabilitation Design at Commercial Port and Chaot Sewer Pump Stations	Design (HDR), Process TO approval
B-39	Casimiru Waterline Replacement	Construction Completed
B-40	Reifsnider Street Waterline	Construction Completed
B-41	Temporary Booster Pump Station Consolacion Street, Asan	Construction, In Progress
B-42	Groundwater Production Meter Replacement	Construction, In Progress
B-43	Ugum Water Treatment Plant Rehabilitation	PM/CM, In Progress Construction, In Progress
B-44	Design-Build of Pago Bay 12-inch Waterline Replacement	Planning

B-45	Current Balancing Unit for Deep Well A-09	Planning
B-46	Deep Well Power Line Conditioner Pilot Project	Planning
B-47	GWA Upper Tumon Warehouse Renovation	Planning
B48	GWA Upper Tumon Campus Improvements	Planning
B-50**	SCADA Control Center Phases 1 and 2	** Planning
B-51**	SCADA Water Phase 3	** Planning
B-52**	SCADA Wastewater Phase 4	** Planning

** No project worksheets.

OTHER:

No. of projects: 1

1 stormwater project is in the design phase and involves solving the stormwater issue in Harmon which directly affects GWA's Harmon Sewer pump station.

B-49	Rojas Harmon Stormwater Drainage Improvement Design	Procurement
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B. Permits

The Completed Permits table below lists the number of work orders completed by Permits inspectors/engineers for customer requests related to certain permits or utility services. It also summarizes the total work orders completed 'year to date' up to December. The table is updated in this Monthly Engineering Report for February 2024.

COMPLETED PERMITS													
	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Year to date total
Building Permit	30	12											42
Occupancy Permit	6	26											32
New Installation	27	24											51
Sewer Application	2	3											5
Sewer Inspection	2	3											5
Private Utility Acceptance	0	0											0
Relocation of Water Meter	3	5											8
Tapping-Water	5	3											8
Tapping-Sewer	2	4											6
Clearance-Water	14	10											24
Clearance-Sewer	13	8											21
Highway Encroachment	12	2											14
Verification of Utilities	11	9											20
Fire Flow Test	16	3											19
Schedule Water Outage	2	1											3
GPA Utility Clearances	12	3											15
GTA Utility Clearances	12	16											28

AVERAGE PROCESSING TIME FOR COMPLETIONS (DAYS) FOR THE CALENDAR MONTH OF FEBRUARY

The Average Processing Time for Completions (Days) for the Calendar Month table below summarizes the average time of days it took to complete each type of work order for certain permits or utility services. For example, the average processing time for Building Permits in February 2024 was 17 days. To calculate the average processing time for Building Permits in February 2024, we refer to the Completed Permits table for February 2024, where we find that there were 12 Building permits completed. Each of the 12 building permits ranged from 2 to 52 days to complete. We calculate the average by adding up the total number of days it took to complete each building permit (199 days in total) and then dividing the total by 12, resulting in an average processing time of 17 days. If the average processing time for the month greatly deviates from the previous monthly averages, an explanation is provided.

Description	2024											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Building Permit	29	17										
Occupancy Permit	0	0										
New Installation	163	80										
Sewer Application	0	0										
Sewer Inspection	0	0										
Private Utility Acceptance	0	0										
Relocation of Water Meter	30	30										
Tapping-Water	0	0										
Tapping-Sewer	0	0										
Clearance-Water	0	0										
Clearance-Sewer	0	0										
Highway Encroachment	0	0										
Verification of Utilities	25	17										
Fire Flow Test	0	0										
Schedule Water Outage	0	0										

C. Geographic Information System (GIS)

During the month of February 2024, the GIS Section concentrated its efforts on Sewer and Water System updates, map request, GIS assistance for Consent Decrees, updating the GIS, GIS Help Desk continues, plotted maps and combined PDFs for the Wastewater Section, field work to validate inverts and locate manholes, assisted in the ESRI Global consulting project, and worked with Prius Intelli to obtain new 6-inch pixel imagery.

Sewer System Updates

Nine new sewer lines were created ranging from 8, 24, and 36 inches. This added 1,419 linear feet, which equates to 0.27 miles. 25 sewer lines were edited ranging from 8, 24, and 36 inches, for a total of 5,631 linear feet which equates to one mile.

Water System Updates

No new water lines were added or edited in the system for February.

Map Requests

The GIS Section receives request for maps in various forms. The Engineering sections request maps for field work and for customers. The AGMO and Compliance offices requested maps during this period. The Sewer Section of Engineering needed maps plotted and PDF maps combined.

GIS Assistance for Consent Decrees

The two Consent Decree projects needing GIS help was the Sewer Force Main rating and Inspection, and the proper updating of the Sewer Gravity Mains.

- The GIS Section had to create a whole new GIS Shape File with the columns needed to fulfill the data for the Consent Decree.
- The Sewer Gravity Mains were updated with the field information from the CCTV Crew.

Updating the GIS

In January some updates were done to the Sewer and Water geodatabases. This is usually done on a monthly basis. This information is passed to the rest of the GIS Section, and the Water and Wastewater modeler. Because of numerous map request asked of Roque, no new water updates were realized.

GIS Help Desk Assistance

The GIS Section is constantly sought after to answer simple and challenging questions about the usage of the GIS. We are more than willing to assist.

Field work to validate inverts and locate manholes

Field work was conducted in the following areas:

- a. Chalan Pago – Ordot: Most of February's field work was dedicated to the verification of top of manhole and invert elevations. One day was spent on verifying the existence and connection of more manholes on the Cost-U-Less to Homai Restaurant side of Route 4. Using Google Street View and our new GIS metal locator (crow bar) we found five manholes that were covered by grass and soil.

Assisted with ESRI Global Consulting Project

The GIS Section assisted with the write-up of a sole source justification for the ESRI Global Project Consulting Project.

Working Prius Intelli to obtain new 6-inch pixel imagery.

The GIS Section is working with Paul Vignati, Prius Intelli, to obtain new imagery at a 6-inch pixel resolution. The last imagery with 6-inch pixel resolution for GIS was in 2012, which we still use to this day.

We have acquired a firm commitment from GPA to help pay for this project.

D. Land Management

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks			Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. AG pending court filing 06/30/2021 – Follow up status sent to DLM 10/06/2021; 11/03/2021; 01/27/2022; 03/04/2022; 05/12/2022; 07/07/2022;09/12/2022; 12/27/2022; DLM response 07/11/2023 have not been able to meet with Assignment AG for LR proceedings. Land Agent has followed up and emailed multiple times with Margarita at DLM on meeting with DLM attorney on status of Land Registration proceedings 10/02/2023. This process is crucial for GWA to acquire property for GWA reservoir. 02/01/2024: Follow up sent to Margarita at DLM; 02/09/2024: Response from Margarita at DLM- Because it has almost been 4 years since we requested the assistance of the AG to initiate the Land Registration, I would recommend that a formal letter from GWA requesting the urgency of the registration and indicate the reasoning behind it. This would support our request for immediate processing with the AG.
	Astumbo-L10164	Gov't. - CLTC	
	Piti-L259	Private/Federal	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 forms. Waiting for permission from NPS to access the lot and perform the Archeological survey.
	Ugum River Intake/Booster Pump Station	Private	When the UGUM Water treatment plant was built in 1990, no land reservations for the area by the booster pump station, the Ugum river intake and access road. Land Agent currently researching the area under Lot 292, owned by the Aguon Family. GWA would need to secure a Grant of Easement for the access road and booster pump facility along the river intake. 12/19/2023: GWA coordinating with DCA for survey services to perform a boundary retracement survey of the subject lot to establish the limits of the survey; as-built existing facilities, structures, and road, to obtain + 2,376 square meters for the parcel and create the easement for GWA reservation. 03/06/2024: DCA field survey work begins.
Deep Wells	AG-12-L10154-4	Dept. of Agriculture/Manhita Farms	Right of Entry Agreement sent to Manhita Farms for signature 05/24/18. 2 nd follow up sent on 04/10/19; 08/03/2021. ROE Agreement information sent to GWA legal counsel for further review and processing

			01/28/2022; 08/11/2023 –GM signed and submitted to DCA for final review and processing at DLM; 09/26/2023-Submitted to DCA for final map processing. 01/02/2024: sent update status email to DCA.
Booster Pump Station	Agfayan-T3734 B19 L28	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19. Letter of Decision received by CLTC 06/09/2021. CLTC has responded for in-kind service letter 10/08/2021. 1 st appraisal report submitted to GWA 05/11/2022. 2 nd appraisal submittal to GWA 09/20/2022. Appraisal report sent to GM/legal counsel for review, approval and response 09/22/2022. Request for updated Appraisal report sent to TG Engineers for cost estimate 09/28/2023. Garrett stated updated appraisal report cost is \$2500 each. Funding needs to be requested. 10/02/2023
Asan Springs	Asan-L501	Federal	<ul style="list-style-type: none"> Revised Environmental Assessment report with NPS for review. 1/25/24 09/18/2023: The Office of Congressman Moylan has offered assistance to work with the NPS in completing the EA and Finding of No Significant Impact (FONSI) along with the Right of Way agreement to GWA, the EA is a prerequisite of the ROE agreement.

E. Planning & Support Services

Planning Activities for the February 2024

1. New Grant Proposals – Planning section is drafting and preparing 3 grant proposals due in March as described below:
 - a. Department of Interior Maintenance Assistance Program (MAP) 2024 – for various GWA trainings
 - b. Department of Interior Technical Assistance Program (TAP) 2024 – for technical training such as SCADA
 - c. Overflow and Stormwater Grant 2024 – to apply for additional construction funding for the Rojas Harmon Stormwater Project
2. FEMA Preliminary Damage Assessments – Planning is responsible for the coordination, preparation and submission of Preliminary Damage Assessments for Typhoon Mawar
 - a. Documentation and FEMA claims – Planning is Project Manager for putting gathering documentation to support FEMA claims and ensuring reimbursements
3. Engineering Project Management –Due to the number of CIPs and to further support the Engineering CIP. Planning is also serving as the Project Manager or Deputy Project Manager for the following design/construction projects:
 - a. Rojas Harmon Stormwater Drainage Improvements Design RFP
 - b. Aplacho Roadway and Drainage Improvements Construction – IFB
 - c. GAC Filter Construction Project
 - d. Gill Breeze Water and Wastewater Design Project
4. Department of Interior Grant Training – Planning is also assisting GWA Operations and GWA HR Training in order to execute the following grant funded training related projects
 - a. Department of Interior Maintenance Assistance Program (MAP) 2020 – lead and coordinate the training and equipment purchases for operation comprising of the following: Sewer audit and training, mobile sewer inspection equipment, GPS equipment and reference materials
 - b. Department of Interior Maintenance Assistance Program (MAP) 2022 – responsible for reporting to Grantor the execution of procuring training for Operations which consists of welding, pump and motor, electrician, and SCADA
 - c. Department of Interior Technical Assistance Program (TAP) 2023 – responsible for reporting to the grantor status of the execution of the purchase of drone and sewer equipment for Engineering and Operations
5. Administrative – Planning also provides administrative support by leading the following tasks:
 - a. Monthly Engineering Report – gathers information and prepares report for review
 - b. Engineering Project Tracking – tracks project status and updates
 - c. Engineering Project Procurement and Payments – facilitates procurement process and prepares payments to vendors
 - d. NEPA and Section 106 Consultation Letters, Maps and Pictures – prepares letters and maps to various agencies
 - e. USEPA Grant Funding Tracking and meetings – tracks USEPA grant funds and hosts meetings
 - f. Application Review Committee response letters and meetings – researches and prepares response letters for development
6. Special Projects are assigned to the Planning Section to verify the following:
 - a. Ordot Leachate Dye Testing -three day field testing to verify connection; pending
 - b. Pipe Locating and Ground Penetrating Radar – conducts various pipe locating missions in order to verify utility locations

F. CIP Exhibits (COVER PAGE)

B-1 ID/IQ – Professional Civil and Structural Design Services M19-001-BND

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 03/11/2024	Asst. GM of Engineering	See Activities	Water/WW/Support
Indefinite Delivery/Indefinite Quantity for professional civil and structural design services for various type of water and wastewater utility projects.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-02-ENG-2019	6/17/2019	6/17/2024	AECOM Technical Services, Inc.
Design	RFP-02-ENG-2019	7/17/2019	7/17/2024	HDR, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design (AECOM)	PW 05-06, MP-PW-Pipe-07	\$1,000,000.00	
Design (HDR)	PW 09-03	\$750,000.00	

ACTIVITIES

AECOM

- Task Order No. 1 Mataguac Booster Pump Station Rehabilitation Design: 90% design phase.
 - a. Project Engineer: Garrett K.A. Yeoh, William F. Esteves
 - b. TO cost: \$250,000.00
- Task Order No. 2 Miscellaneous Booster Pump Station Improvements: Upgrade design for Adawag, Chalan Palauan, Pale Kieran, Ulloa/Untalan, Camacho, Manuel Tenorio, Santa Ana, Geus, Ija, Pigua, Umatac No. 1, and Umatac No. 2 booster pump stations. Pending AGME's approval of Task Order.
 - a. Project Engineer: William F. Esteves, Garrett K.A. Yeoh
 - b. TO cost: \$750,000.00

HDR

- Task Order No. 1 Tai Road/S-13 and Toto Canada Road/Blas Street Waterline Replacement Design: 100% design completed. Under construction. See Tai Road/S-13 and Toto Canada Road/Blas Street Waterline Replacement construction project update sheet for details.
 - a. Project Engineer: Jessey A. Mendiola
 - b. TO cost: \$164,310.00
- Task Order No. 2 – Structural Assessment and Rehabilitation Design at Commercial Port and Chaot Sewer Pump Stations. This involves the structural assessment of structural system failures at Commercial Port and Chaot SPSs, and design of structural modifications to entry/exit for removal/reinstallation of pumps at Chaot SPS. On 7/25/23 Task order no. 2 draft was submitted. On 08/01/23 AGME approved to proceed on processing approval. 10/05/23 Attorney approved and returned TO no. 2 with her initials. On 2/3/24 AGME signed the budget request and the task order for E1 processing.
 - a. Project Engineer: Ernie Villarin
 - b. TO cost: \$61,547
 - c. Proposed funding source: MP-WW-Pump-01 Lift Station Rehabilitation/Replacement Program

B-2 ID/IQ – Professional Project-Construction Management Services M19-003-BND

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 03/11/2024	Asst. GM of Engineering	See Activities	Water/WW/Support
Indefinite delivery/Indefinite quantity for professional project and construction management services for various types of water and wastewater utility projects.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
PM-CM	RFP-04-ENG-2019	06/19/2019	06/19/2024	Brown and Caldwell
PM-CM	RFP-04-ENG-2019	06/17/2019	06/14/2024	Duenas, Camacho & Associates, Inc.

ACTIVITIES

Brown and Caldwell Task Orders:

1. Bond Report
2. Route 4 Sewer CIP (completed)
3. Asan-Adelup-Hagatna Sewer Rehabilitation CIP (completed)
4. Southern SSES CIP (completed)
5. Cost of Services Study
6. Water Meter Technical Assistance
7. Wastewater Hydraulic Model
8. Master Plan Update
9. Modeling

Duenas, Camacho, and Associates Task Orders:

1. Tank Repair Bypass CIP
2. Tai-Toto-Canada Water CIP
3. Ugum Water Treatment Plant Rehabilitation CIP
4. Yigo Sewer Pump Station CIP
5. Tank Inspection and Repairs CIP
6. District Metered Areas and Pressure Zone Realignment CIP
7. Wells A-23, A-25 remediation (see B-8 Central Guam Reservoirs project)
8. Groundwater Wells Treatment Design CIP for Dieldrin
9. Waterline Replacement CIP

B-3**Gill Breeze Subdivision Water and Sewer****RFP-09-ENG-2022**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/5/2024	Mauryn Q. McDonald, P.E.	Rylma Carino	Wastewater CIP
Design and construct a water system, conduct a study to determine the most appropriate wastewater disposal system (private onsite systems or public sewer system), and design and construct the wastewater disposal system.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-09-ENG-2022	In Procurement		TBD
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA grants		
Construction Management			
Construction			

ACTIVITIES

1. USEPA confirmed that grant funds can be used for construction on private lots (for private laterals).
1. The Notification of procurement submitted to Attorney's General Office on 1/22/2024 and received reply on 2/19/2024.
2. The request for proposals for design was published on 1/23/2024.
3. The last day for proposal submission is 3/12/2024.

B-4**Adacao Water and Sewer Infrastructure
Design Services****S22-004-ARP**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/7/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater CIP
Evaluate and design water and sewer infrastructure to upgrade water and bring property owners off of septic and onto sewer for the Adacao area in Mangilao, where GWA is observing high Nitrates at 5 production deep wells.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-09-ENG-2022	3/1/2023	12/31/2026	Duenas, Camacho & Associates
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	American Rescue Plan Act (ARPA) Grant	\$1,164,322.48	40%
Construction Management			
Construction			

ACTIVITIES

- MOA between GWA and CLTC is signed (5/18/23)
- Designer (DCA) submitted Final Basis of Design and 60% plans and specs (11/21/23)
- Met with BME owners to discuss potential SPS on a portion of their property (9/15/23); Confirmed interest, and signed Right of Entry agreement with BME to survey lot. GM signed ROE (9/25/23)
- Met again w/ BME (1/26/24) to confirm interests and move forward with appraisal. Designer sent survey of BME site for property appraisal; appraisal conducted on 1/30/24; expecting appraisal report by week of 3/10/24.
- Will schedule another meeting in late February with Mangilao Mayor Allan to update and plan for town hall meeting for Adacao residents; need to consider the impact of emerging contaminants in wells and upcoming EPA enforcement on contaminants.
- Potential for centralized granular activated carbon (GAC) treatment for wells in Adacao; considering location and wells in the area that need it. Property size needed for centralized GAC treatment system estimated at a ¼ acre lot, but preferred ½ acre.
- Working on time extension request letter for funding.

Total ARPA funding from Governor's Office: \$8.7M

B-7**Central Guam Reservoirs****W14-006-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
03/11/2024	Brett E. Railey, P.E.	Garrett K. A. Yeoh	Water
The work to be performed consist of designing and constructing new reservoirs, pipes, vaults, instrumentation, electrical, SCADA system, booster pump stations, pressure reducing valves, and general system upgrades. Sites include Tumon No. 1, Chaot No. 2, Barrigada Hgts (Hyundai), Tamuning (Airport), and Manenggon (Pulantat) Reservoirs, and Barrigada Res BPS, Barrigada Heights BPS, St. John's PRV, St. Vitores Road PRV, A-23 DW, and A-25 DW.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-09-ENG-2014	5/23/2015	12/2024	GHD, Inc.
Construction Management (Tumon, Chaot, Barrigada)	RFP-02-ENG-2017	12/13/2017	Complete	TG Engineers, PC
Construction Management (Tamuning, Manenggon)	RFP-01-ENG-2023	07/07/2023	06/2025	Duenas, Camacho & Associates, Inc.
Construction (Tumon, Chaot, Barrigada)	IFB-09-ENG-2017	02/02/2018	05/2023	AIC International
Construction (Tamuning, Manenggon)	IFB-01-ENG-2023	1/22/2024	06/2025	Core Tech Intl.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	PW 09-11, PW 12-04, PW 12-06	\$3,644,279.00	95%
Construction Management (Tumon, Chaot, Barrigada)	PW 09-11, PW 12-04, PW12-06	\$3,171,745.23	100%
Construction Management (Tamuning, Manenggon)	PW 09-11	\$1,840,912.95	
Construction (Tumon, Chaot, Barrigada)	PW 09-03, PW 09-04, PW 09-11, PW 12-04, PW 12-06, SDC	\$22,860,219.00	96%
Construction (Tamuning, Manenggon)	PW 09-11, PW 12-04, PW 12-06	\$34,429,555.00	

ACTIVITIES

Design:

- Tumon, Chaot, Barrigada, Tamuning, Manenggon 100% design 08/2022.
- A23/A25 GAC system bid documents under preparation. USDOT and USEPA funded. Engineering working on updating plans to include damage repairs to A-25, which include modifications for A-23. March 2024 CCU resolution to increase design funding.

Construction Management:

- RFP-01-ENG-2023 Tamuning and Manenggon Reservoirs: Contract signed 07/07/23. Partial NTP issued 09/19/23 to begin project file management set up. Full NTP issued 02/19/2024.

Construction:

- Tumon, Chaot, Barrigada: All tanks completed and in service. Contractor troubleshooting RTUs at PRV and tank sites. Installation of new valve near Holiday Towers and capping of distribution line at A29/A30 is pending GWA operations schedule.
- IFB-01-ENG-2023 Tamuning and Manenggon Reservoirs: Full NTP issued 02/19/2024. Contractor has received clearing/grading and building permit. Contractor's sub is performing archaeological survey at both sites (Manenggon completed 03/08/2024, Tamuning start 03/11/2024).

B-8**Design and CM Services for Waterline
Replacement of Various Bridges****W22-08-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
03/05/2024	Brett E. Railey, P.E.	Ernesto L. Villarin	Water
Work will involve design, construction management, and construction/repair of water and sewer lines crossing various bridges.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design/Construction Management	RFP-03-ENG-2023	02/22/2024		GHD Inc.
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design/Construction Management	MP-PW-Pipe 12	\$1,356,199.90	
Construction			

ACTIVITIES

01/31/24 - Design and CM Services contract under processing.
 02/02/24 - Letter of award was send to GHD
 02/22/24 - Design and CM Services contract was executed.
 02/26/24 - Notice to Proceed was issued, kick-off meeting was conducted.

B-9**Pressure Zone Realignment****W18-001-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
01/04/2024	Brett E. Railey, P.E.	Garrett K. A. Yeoh, Jessey A. Mendiola, Jacob Miller	Water
The work to be performed involves designing, construction managing, and constructing pressure zones, which consists of pressure reducing valves, flow meters, vaults, pipeline, electrical, instrumentation, and SCADA. Design and construction shall be in 5 phases.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design CM (Phase 1)	RFP-03-ENG-2018	08/16/2018	12/2024	GHD, Inc.
CM (Phase 2)	RFP-05-ENG-2022	06/21/2023		AmOrient Engineering
Construction (Phase 1)	IFB-07-ENG-2019	04/21/2020	3/2023	Sumitomo Mitsui Construction
Construction (Phase 2)	IFB-02-ENG-2024			

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design CM (Phase 1)	PW 09-04, PW 09-10, PW 09-11, PW 12-01	\$3,366,996.00	75%
CM (Phase 2)	USEPA-SRF Grant	\$1,688,925.00	0%
Construction (Phase 1)	USEPA-SRF Grant, PW 05-16, PW 12-01	\$6,046,179.63	95%
Construction (Phase 2)	USEPA-SRF Grant		0%

ACTIVITIES

Design: Phase 3 design at 70%

Construction:

- Phase 1: Punch list items and in discussions with property owners to finalize property acquisition and/or easements. Preparing Change Order No. 07 to address additional valves needed for Okkodu and Terao sites. In discussion with Contractor on resolution for Terao property issues. Federal government has been notified on Terao vault/control panel being on federal property. Awaiting federal government response.
- Phase 2: 100% design completed 03/23. IFB advertisement date: 02/14/24. IFB due date: 03/31/24. Designer is preparing Revision A to include items, such as fiber connection for SCADA communication.

B-10**Fire Hydrant Replacement Phase 1****W-19-002-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 8/30/2023	Brian W. Hess, P.E.	Sylvia Y. Mercado	Water
Replacement of 72 each existing old dry barrel fire hydrant with new wet barrel type hydrant at locations in several villages around the island.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	GWA In-House	N/A	N/A	N/A
Construction Management	GWA In-House	N/A	N/A	N/A
Construction	IFB-03-ENG-2019	9/30/2019	02/17/2024 (Tentative)	Mega United, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	N/A	N/A	100%
Construction Management	N/A	N/A	
Construction	Bond 2016 PW 14-01	\$1,300,645.92	85%

ACTIVITIES**Scope of Work:**

The Fire Hydrant Replacement Phase 1 was bid under an Owner Furnished Contractor Installed (OFICI) contract. GWA will supply the hydrant body, gasket, bolts and nuts to contractor.

Change Order:

Mega United Change Order No. 05 in the amount of \$78,277.92 was processed and approved on 12/19/23.

Project Status:

Mega United completed the replacement of 72 ea. fire hydrants on 2/17/24. The project was substantially completed on 2/12/24. Correction of the punch list items and the negotiation of the deductive change is on-going. Project acceptance and closure will follow.

B-11 **Tai Rd./ S-13 and Canada-Toto Lp./Blas St.** **M19-001BND**
Waterline Replacement

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
03/11/2024	Brett E. Railey, PE	Jessey A. Mendiola	Water

Replacement of old waterlines and reconnection of all customer service laterals along Tai Rd., S-13 (a short street off of Tai Rd.) Toto Canada Loop, and Blas Street. Replacement/ reconnection of WL on Taison Rd, off of Toto Canada Loop, has also been added into the project as of CO no. 2.

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	Civil/ Structural IDIQ- TO No. 1	1/20/2020	10/2021	HDR Engineering, Inc.
Construction Management	PM/CM Services IDIQ- TO No. 2	5/6/2021	5/2023	Duenas, Camacho & Associates, Inc.
Construction	IFB-02-ENG-2021	5/12/2021	5/22/2023	Giant Construction Corporation

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	Bond 2013 PW 09-03	\$164,310.00	100%
Construction Management	Bond 2020 PW 09-03	\$189,729.00	65%
Construction	Bond 2020 PW 09-03, Bond 2020 MP-PW-Pipe-12, Grant, IFCIP	\$2,966,350.21	86%

ACTIVITIES

Tai Rd.: CO No. 5 approved on 1/13/24 for additional lateral connections. Connections installed, and disinfection testing conducted on 1/25/24- pending results.

Toto Canada Loop: Reconnection of the 2" waterline on the unnamed road to the new 12" line on Toto-Canada Road ongoing.

Taison Rd.: Complete.

Change Order No. 6 pending. Additional street (Okso Ashley Rd.) needs to be connected to the new 12" on Toto-Canada Loop. Awaiting cost estimates from contractor.

B-12**Asan Springs Rehabilitation****W11-003-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
03/11/2024	Brett E. Railey, P.E.	Jessey Mendiola, Ryan Diaz	Water
The work involves designing and modifying the existing spring impoundment, constructing a new chlorination building, installing a new generator and new pumps, and other site improvements.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-11-ENG-2015	8/23/2016	12/2026	HDR

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USDOI Grant, PW 05-15	\$712,263.00	85.8%

ACTIVITIES**Design:**

The office of Congressman Moylan will assist GWA by sending letter to NPS seeking assistance to resolve property issues.

Revised environmental assessment report completed and sent to NPS on 11/15/23. EA re-sent to NPS for review on 1/24/24.

Discussion of design scope modification to include treatment for PFAS ongoing. Awaiting cost from designer.

B-13 Groundwater Wells A-02, A-07, A-12, D-05, and F-03 Rehabilitation (Re-bid No. 3) W16-001-EPA

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
01/04/2024	Brett Railey, P.E.	Ryan Diaz, Garrett Yeoh	Water
The work involves rehabilitating two existing production wells; A-12 and F-03. Existing Wells, A-02 and D-05, are currently not in production, and are included in the work as an additive bid. Other major work involves installing a new standby generator, a new chlorination building, new well equipment, and other site improvements.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-02-ENG-2016	5/26/2016	6/18/2024	AECOM
Construction Management	RFP-06-ENG-2019	12/01/2020	6/18/2024	DCA
Construction	IFB-02-ENG-2023			

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA – SRF	\$1,758,247.00	91%
Construction Management	USEPA – SRF	\$640,248.00	
Construction	USEPA - SRF		

Design: 100% design completed (revision 3) 07/2022.

Construction: IFB-02-ENG-2023 Groundwater Wells A-02, A-07, A-12, D-05, and F-03 Rehabilitation (Re-bid No. 3)

- 11/17/23: IFB issued.
- 02/15/23: No bids received.
- 02/23/23: Post bid surveys sent out to registered bidders. Three firms responded.

Under discussion to re-package bid to include additional wells and well abandonment.

Project on hold until further decision by AGME.

[B-14](#)

ID/IQ - Design and CM Asbestos Concrete Pipe for Waterline Replacement

W22-05-BND

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
03/11/2024	Brett E. Railey, P.E.	Garrett Yeoh, Jacob Miller	Water
The work to be performed consists of design and construction management of asbestos concrete pipe (ACP) waterline replacement island-wide. Work will include development of ACP waterline replacement priority list and water line designs for selected sites. Site prioritization shall be guided by the Water Resource Master Plan, operation and engineering input and data.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-04-ENG-2022			GHD, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA-SRF Grant	\$1,500,000.00	0%

ACTIVITIES
CCU Resolution No. 17-FY2023 approved contract for \$5,427,000.00.
Contract and Task Order No. 1 under processing.

[B-15](#)

ID/IQ - Design and CM for Waterline Replacement and Upgrades

W22-04-BND

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
03/11/2024	Brett E. Railey, P.E.	Garrett Yeoh, Jacob Miller	Water
The work to be performed consist of design and construction management of miscellaneous waterline island-wide. Work will include development of waterline replacement priority list and water line designs for selected sites. Site prioritization shall be guided by the Water Resource Master Plan, operation and engineering input and data.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design/Construction Management	RFP-03-ENG-2022			Duenas, Camacho & Associates, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA-SRF Grant	\$1,500,000.00	0%

ACTIVITIES
CCU Resolution No. 19-FY2023 approved contract for \$5,973,682.00.
A/E finalizing Task Order No. 1.

[B-16](#)

ID/IQ - Design and CM Implementation of District Meter Areas

W22-06-BND

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
03/11/2024	Brett E. Railey, P.E.	Garrett Yeoh, Jacob Miller	Water
The work to be performed consists of design and construction management of District Meter Areas (DMA). Work will include development of DMA priority list and designs for selected sites. Site prioritization shall be guided by the DMA Implementation plan, operation and engineering input and data.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-07-ENG-2022			Duenas, Camacho & Associates, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA-SRF Grant	\$1,500,000.00	0%

ACTIVITIES
CCU Resolution No. 20-FY2023 approved contract for \$3,119,377.00.
A/E finalizing Task Order No. 1.

[B-17](#)

ID/IQ - Design and CM Undersized Waterline Replacement

W22-03-BND

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
03/11/2024	Brett E. Railey, P.E.	Garrett Yeoh, Jacob Miller	Water
The work to be performed consist of design and construction management of undersized waterline replacement island-wide. Work will include development of ACP waterline replacement priority list and water line designs for selected sites. Site prioritization shall be guided by the Water Resource Master Plan, operation and engineering input and data.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-01-ENG-2022			Brown and Caldwell

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA-SRF Grant		0%

ACTIVITIES
CCU resolution approved.
A/E finalizing Task Order No. 1.

B-18

Santa Rita Springs Rehabilitation

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION	
03/11/2024	Brett E. Railey, P.E.	Garrett Yeoh	Water	
The work to be performed consist of design of the Santa Rita Springs Rehabilitation. Work will include increasing the impoundment, new impoundment roof, chlorination system, pump system and all other site upgrades.				
PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design				
Construction Management				
Construction				
PHASE	FUNDING SOURCES		COST	% COMPLETE
Design				
Construction Management				
Construction				
ACTIVITIES				
RFP package is under preparation.				
Revised scope of work includes PFAS treatment, Santa Rita tank relocation evaluation, and addressing sanitary survey issues. Scope completed.				

B-19**Brigade II Booster Pump Station****W11-004-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
03/11/2024	Brett E. Railey, P.E.	Jessey A. Mendiola	Water
Design/ construction of a new booster pump station, to include a new building structure, pump system, electrical system piping instrumentations, SCADA, general site upgrades, and off-site improvements such as new PRV's, valves, and vaults.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-02-ENG-2011	4/5/2012	8/2022	E.M. Chen & Associates
Construction Management	RFP-02-ENG-2022			Duenas, Camacho & Associates, Inc.
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	PW 05-12	\$245,863.20	98%
Construction Management			
Construction			

ACTIVITIES

Design:
100% design completed 8/2022.

Construction:
Pending funding availability. Funding was reallocated to CO projects.

CM:
Pending funding availability. Funding was reallocated to CO projects.

B-20 New Well Construction (AG-10, AG-12, Y-08)

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
01/04/2024	Brett E. Railey, P.E.	Jessey A. Mendiola	Water
Design and construction of three new production wells (AG-10, AG-12, Y-08).			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-01-ENG-2010	5/5/2011		GHD, Inc. (Formerly Winzler Kelly)
Construction Management	PM/CM Services ID/IQ			Duenas, Camacho & Associates, Inc.
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	PW 05-13, PW 05-14, Bond 2016 PW 09-02	\$1,203,308.00	86%
Construction Management			
Construction			

ACTIVITIES

Design: Design in progress to be consistent with Groundwater Wells A-02, A-07, A-12, D-05, and F-05 Rehabilitation (Project B-12). Pending decision on Rehab Well project on next steps for well projects due to no construction bidders.

Pending further decision by the AGME.

B-21 Northern and Southern Guam Reservoirs

W14-007-BND

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
01/04/2024	Brett Railey, P.E.	Garrett Yeoh	Water
The work to be performed consist of designing and constructing new reservoirs, pipes, vaults, instrumentation, electrical, SCADA system, booster pump stations, pressure reducing valves, and general system upgrades. Sites include Santa Rosa No. 2 (SR), Santa Rita (SRI), Sinifa No. 2 (SIN), Inarajan, and Ugum No. 2 Reservoirs, and Santa Rosa, Agfayan, and Inarajan BPS's, and miscellaneous pressure zones pipeline work.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-09-ENG-2014	05/23/2015	06/2024	TG Engineers, P.C.
CM (SR, SRI, SIN)	RFP-06-ENG-2017	04/02/2018	04/2023	GHD, Inc.
CM (Ugum No. 2)	RFP-04-ENG-2023	12/01/2023		GHD, Inc.
Construction (SR, SRI, SIN)	IFB-01-ENG-2019	09/30/2019	12/2023	AIC, International
Construction (Ugum No. 2)	IFB-06-ENG-2023	02/03/2024	07/2025	AIC, International

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	PW 09-11	\$3,992,595.20	79%
CM (SR, SRI, SIN)	PW 09-11	\$6,387,678.96	94%
CM (Ugum No. 2)	PW 09-11		
Construction (SR, SRI, SIN)	PW 09-03, PW 09-04, PW 09-11	\$27,356.044.61	65%
Construction (Ugum No. 2)	PW 09-11, PW 11-02	\$22,834,768.00	

ACTIVITIES

Design:

- Santa Rosa, Santa Rita, Sinifa, and Ugum No. 2 100% design completed. Inarajan and Agfayan BPS design ongoing (pending property acquisition for Agfayan).

Construction:

- Santa Rosa, Sinifa, Santa Rita: Santa Rosa No. 2 and Sinifa No. 2 reservoirs completed and in service. Santa Rita tank work halted due to uncertainty of the slope failure and high cost for slope stabilization and waterline, electrical, earthwork, roadway realignment. Santa Rita storage will move to Sinifa site. Hydraulic report prepared by B&C validated storage requirements. Santa Rosa Reservoir: Contractor is working on the booster pump station and generator building. Sinifa Reservoir: Contractor is finalizing punch list, preparing close out documents for Substantial Completion.
- Santa Rosa No. 1 and Sinifa No. 1 steel tanks inspected. Santa Rosa No. 1 and Sinifa No. 1 repair scope of work and fee are under negotiations with the Contractor. Cost received is \$3M per reservoir. Contractor has submitted a reduced price for the Santa Rosa No. 1 repair. Contractor to submit cost revision for Santa Rosa week of 03/11/2024. Target cost is \$2.5M.
- Ugum No. 2 Reservoir: Full NTP issued on 02/19/2024 for both Contractor and Construction Manager. Permitting phase.

B-22 Tank Repair/Bypass**W19-003-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
03/11/2024	Brett E. Railey, P.E.	Calvin Yam, Garrett Yeoh	Water
The work to be performed consists of installing bypass piping, valves, etc. ahead of tank inspection. The operation of the bypass will allow the API inspectors and structural engineer to determine appropriate repairs after which the contractor will proceed to repair the tanks.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-03-ENG-2008	8/1/2008	12/2023	Duenas, Camacho & Associates, Inc.
Construction Management	RFP-04-ENG-2019	6/17/2019	10/2023	Duenas, Camacho & Associates, Inc.
Construction	IFB-06-ENG-2019	4/21/2020	10/2023	AIC International

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	Bond 2005, Bond 2010	\$1,291,799.91	100%
Construction Management	PW 09-11, MP-PW-Tank-22, MP-PW-Tank-23	\$897,077.00	40%
Construction	PW 09-09, PW 09-11, PW 12-05, SDC	\$14,022,773.57	66.5%

ACTIVITIES

Agat Umatac: 07/18/22 in service.
Yigo No. 3: 08/08/22 in service.
Windward Hills: 05/17/23 in service.
Astumbo No. 1: Interior coating.
Malojloj: Bypass completed. Tank will be taken offline for inspection/repair after Pigua repair.
Umatac Subdivision: Contractor has submitted repair fee. Cost is \$1.5M. AIC to resubmit cost.
Santa Ana: 11/21/2023 in service.
Upper and Lower Nimitz: Lower Nimitz tank foundation preparation.
Pigua: Interior coating. Contractor has found cracks on a lower shell plate. API has inspected and will provide their analysis. Plate may need to be replaced.
Kaiser: Welding bottom plates.

B-23**Asan-Adelup-Hagatna Route 1 Sewer
Rehabilitation and Replacement Phase II****S15-002-EPA**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/5/2024	Mauryn Q. McDonald, P.E.	Brown and Caldwell	Wastewater CIP
The gravity sewer main between Asan and Hagatna had deteriorated and required rehabilitation and replacement. The project involves the rehabilitation, repair, or replacement of approximately 1,700 linear feet of gravity sewer along Route 1 by Adelup and over 6,900 linear feet of gravity sewer in Hagatna. Wherever possible, cured-in-place-pipe was used to avoid trenching, which minimizes impacts to motorists and reduces construction timeframes.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-02-ENG-2015	12/10/2015	12/2023	HDR Inc.
Construction Management	RFP-04-ENG-2017	7/31/2018	12/2023	Duenas, Camacho & Associates, Inc.
Project Management	PM/CM Services ID/IQ - TO No. 3	1/17/2020	12/2023	Brown and Caldwell
Construction	IFB-06-ENG-2020	1/22/2021	12/2022	Core Tech – Hawaiian Dredging, LLC

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	SRF Grant	\$1,999,246.38	100%
Construction Management	SRF Grant, M 96902617-3 & M 96902619	\$1,557,671.45	100%
Project Management	SRF Grant, M 96902619 & M 96902621	\$617,485.00	100%
Construction	SRF Grant, M 96902619	\$8,631,013.16	100%

ACTIVITIES

Construction completed. Project manager to submit final records to GWA.

A draft archaeological report was submitted to SHPO on 11/3/2022. SHPO comments dated 2/9/2024 were received. Project Manager to submit final report and GIS files to SHPO.

B-24 **Southern SSES Sewer Rehabilitation Phase II** **S15-001-EPA**
(Baza Gardens – Santa Rita – Talofotofo)

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/5/2024	Maurn Q. McDonald, P.E.	Brown and Caldwell	Wastewater CIP
Rehab and/or replacement of old sewer lines to resolve I/I issues in the Southern wastewater collections system, in particular in Baza Gardens, Talofotofo, and Santa Rita.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Construction Management	PM/CM Services ID/IQ- TO No. 4	1/17/2020	12/2023	Brown and Caldwell
Construction	IFB-04-ENG-2016	7/29/2016	12/2023	ProPacific

PHASE	FUNDING SOURCES	COST	% COMPLETE
Construction Management	SRF Grant, M 96902619	\$546,618.00	100%
Construction	SRF Grant, M 96902617-3	\$1,189,815.00	100%

ACTIVITIES

Construction completed. Project manager to submit final records.

B-25 Talofoto Sewer Improvement**S16-004-EPA**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/5/2024	Mauryn Q. McDonald, P.E.	Gerald N. Gattoc	Wastewater
Design and Construction of 4 Sewer Lift Stations in the Talofoto village where sewer lines are installed but never completed.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-07-ENG-2016	8/12/2016	5/2020	EMPSCO Engineering Consultants
Construction Management	In-house	n/a	5/2020	GWA
Construction	IFB-07-ENG-2018	12/26/2018	5/2020	Giant Construction Corporation

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	SRF Grant	\$501,092.86	100%
Construction Management	n/a	n/a	100%
Construction	SRF Grant, M 96902617-2	\$2,384,251.28	100%

ACTIVITIES

Construction is complete and the project is closed.

B-26 Tamuning Hot Spots Sewer Line Rehabilitation and Replacement (Base Contract) **S16-003-EPA**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/5/2024	Mauryn Q. McDonald, P.E.	Gerald N. Gattoc	Wastewater
Sewer rehabilitation for lines at Winner Apartments, Segundo Leon Guerrero, and New Plaza Market behind GPO.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-06-ENG-2016	9/8/2016	10/2017	TG Engineers
Construction Management	RFP-04-ENG-2018	2/8/2019	12/2020	AmOrient Engineering
Construction	IFB-06-ENG-2018	1/10/2020	12/2020	Ian Corporation

PHASE	UNDING SOURCES	COST	% COMPLETE
Design	SRF Grant, M 96902611-5	\$663,629.00	90%
Construction Management	SRF Grant, M 96902617-2	\$386,521.80	100%
Construction	SRF Grant, M 96902617-2	\$1,183,786.08	100%

ACTIVITIES

All construction for the base contract has been completed and final invoices have been processed. A design contract change order will be drafted to identify an active funding source (USEPA grant) to cover construction support for the construction additives that were not included in construction contract. A CM change order will be drafted to close the CM contract.

B-27 Bayside Sewer Pump Station Rehabilitation S15-007-BND

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/5/2024	Mauryn Q. McDonald, P.E.	Rylma Nida A. Carino (CM)	Wastewater
The Bayside Sewer Pump station was operating with a single pump in a manhole, no backup power, and no dial-out or SCADA for real-time reporting of pump or power issues. Rehabilitation includes refurbishment of the wet well, two new pumps with soft starters, a new generator, dial-out capability, and fence repairs.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-10-ENG-2016	7/28/2016	12/2023	EMPSCO Engineering Consultants
Construction Management	Internal CM			
Construction	IFB-03-ENG-2020	6/11/2020	12/2023	Sumitomo-Mitsui Construction Co., Ltd.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	WW 09-01	\$241,125.41	92.55%
Construction Management	N/A		
Construction	WW 09-01	\$931,516.74	100.00%

ACTIVITIES

For Construction

- The project completion on 04/06/2022 was extended to 05/19/2023 due to additional work order (CO#3).
- The commissioning of generator was on 01/04/2022.
- Testing and commissioning of the piping system was on 08/17/2022.
- Substantial Completion certificate issued on 10/25/2022.
- Punchlist completed on 6/2023.
- DPW approved the occupancy permit on 10/4/23.
- Final Change Order executed 12/5/2023 and final invoice paid 12/21/2023
- Acceptability of work accepted and was signed.

For Design Services

- On 10/31/2023, GWA submitted a notification letter to SHPO that the project will be closed within 30 days.
- A final Change Order (time extension) was executed on 12/26/2023
- GWA sent a final letter and submittal to SHPO on 2/15/2024, however SHPO's letter dated 12/7/2024 request further clarifications, and advise GWA to resubmit the final deliverables. GWA/EMPSCO and the International Archaeologist working on it for the resubmittal.
- The final invoice paid on 2/28/2024.

B-28

Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation

S18-001-BND

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/7/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater
Evaluate and design flood mitigation and rehab needs for Yigo SPS, and install/construct design per plans and specs.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-01-ENG-2018	07/31/2018	03/2024	AECOM
Construction Management	RFP-04-ENG-2019	07/20/2021	03/2024	Duenas, Camacho & Associates, Inc.
Construction	IFB-01-ENG-2021	04/26/2021	03/2024	IAN Corporation

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	Bond 2016 WW 09-01	\$247,252.63	97%
Construction Management	Bond 2016 WW 09-01	\$96,754.00	70%
Construction	Bond 2020 MP-WW-Pump-01	\$1,128,129.50	85%

ACTIVITIES

CO#1 negotiated time extension (479 days) w/ Contractor's special damages (\$8,360.00) due to delays (110 days). CO#2 for time extension approved (6/20/23).

CO#3 for work and time from Typhoon Mawar (\$14,753.48 and 30 days) signed by Legal (9/7/23) and pending Finance approval. CO#4 to include materials to repair High Level Alarm Panel, which is required for the SCADA. Awaiting the cost of replacing High Level Alarm Panel. SCADA programming will be scheduled when high level alarm panel parts are received (the subcontractor is based in Hawaii). CCU approved the contract cost increase for CO#3 and 4 (11/28/2023). CO#3 signed by GM and forwarded to Contractor (1/17/24).

Considering closing out project after reviewing costs for CO#4. Initial cost for CO#4 came in at \$272K (1/16/24) and discussed with CM (1/17/24) numbers and reasons for cost. Asked contractor to provide a detailed cost breakdown, and JMI estimate came in at \$174,504.00 before any main contractor markup or labor is included (2/20/24). Looking to closeout project with remaining work the Contractor can complete and moving SCADA/Alarm Panel work to a future contract.

Contractor remaining work: Punch list items, float controls, and safety painting of toe-kicks and overhead beams. Note, punch list electrical items will require contractor to replace fixtures that do not meet requirements. The punch list item replacements could possibly delay final closeout if materials are not available.

B-32**Dungca Beach Sewer Line Relocation****S20-001-EPA**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/5/2024	Mauryn Q. McDonald, P.E.	Rylma Nida A. Carino (PM)	Wastewater
The existing 8-inch diameter Asbestos Cement Pipe (ACP) Sewer along Dungca Beach is among the oldest in GWA's wastewater collection system. GWA Operations conducted CCTV investigations on a limited number of existing sewer lines in the Dungca Beach area. CCTV records showed substantial deterioration in the ACP sewer line which may have reached the end of its service life. A new sewer line along the right of way will be installed and customers will be connected to the new line.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-01-ENG-2020	4/26/2021	2/2024	GHD
Construction Management (CM)				AECOM (ID/IQ)
Construction			2/2025	

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA Grant	\$633,625.75	90%
Construction Management			
Construction			

ACTIVITIES

The design services (including engineering support) original completion date of 6/27/2023 was extended to 2/16/2024 under Change Order #1, which also separates the project into Phase I & Phase II.

Phase I- Trankilo Street

- 90% submittal on hold, pending CM contract and task order approval to finalize the constructability review (the contract and task order were forwarded to CM for signature).
- Signature of budget transfer of Task Order (1 on hold, waiting for the approved agreement and Task Order).
- Per GWA modeler the existing wet well of Bayside SPS can accommodate the sewer flows from Agana Bay Condo. GWA waiting for the evaluation from the designer.
- GWA and GHD visited Bayside SPS on 2/7/2024 and evaluate the upcoming change order for:
 - Erosion control along the river,
 - Magnetic Flow meter with recorder, and
 - Time extension due to the delays.

Phase II Lagoon Drive

- 60% design accomplished.
- GWA is pursuing purchase of an easement along Lagoon Drive, which is pending discussions with lot owners.
- GWA is pursuing a lot acquisitions for a new lift station. A Letter of Interest was sent to the Lot Owner and a response was not received. GWA Engineering prepared a follow up letter.

B-33 **Fujita Sewage Pump Station Redundant Force Main** **S20-003-EPA**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/7/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater CIP
Designer to identify redundant force main options for the Fujita SPS and provide design for selected option.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-03-ENG-2020	10/5/2022	12/2024	AECOM
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA Grant Nos. M 96902619 & M96902621	\$1,601,599.29	10%
Construction Management			
Construction			

ACTIVITIES

Designer's force main (FM) assessment expert conducted corrosion assessment on exposed locations of FM (4/25/23) as part of the first step in assessing the existing FM; Draft assessment report submitted to GWA for review (9/15/23) and final FM Assessment report to be submitted (3/10/24).

Geotech to complete 13 borings along FM route in preparation of new FM design. Archeological monitoring required for boring locations submitted to SPHO (2/12/24); SHPO acceptance response received (2/20/24). Boring to be conducted once final permitting completed; estimated to start end of March.

Expanded SOW to include Fujita SPS rehab work to Designer for review (3/27/23). Designer submitted cost proposal for expanded scope (11/9/23). The final scope and fee approved by CCU (11/28/23). CO#1 (expanded SOW) submitted by Designer (12/12/23) and executed on 1/2/2024. SPS Structural and Electrical assessment team arrived on island for SPS assessment on 2/19 – 2/22/24 and completed the initial assessment for structural and electrical; Civil team to be on island week of 3/18/24, with assessment report to follow after.

B-34**Hagatna Main Sewage Pump Station
Redundant Force Main****S20-002-EPA**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/7/2024	Maurn Q. McDonald, P.E.	George J. Watson	Wastewater CIP
Designer to identify redundant force main options for the Hagatna Main SPS and provide design for selected option and pump station rehabilitation.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-02-ENG-2020	4/7/2021	12/2024	GHD
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA Grant No. M 96902619, M96902623-1	\$1,359,089.79	35%
Construction Management			
Construction			

ACTIVITIES

Initial design intention: single redundant force main (FM) design using directional drilling and subsequent assessment/rehabilitation of existing FM. 30% engineer of record (EOR) level 2 cost estimate was \$32M to \$35M, more than \$20M from previous estimates. The General Manager (GM) directed to pivot design to rehabilitate the existing FM, potentially using pipe bursting or lining to reduce costs. 60% design cost estimates for a single FM ranged from \$17.7 to 20.6M.

60% design received (6/19/23) and met with GM to discuss cost and potential alternatives (7/6/23). Met with Designer to discuss and direct pivot to look at rehabilitation methods of current FM (7/7/23) and met again (9/1/23) to further refine expectations. Met with Designer (10/3/23) to discuss revised pivot scope and fee, in addition to SPS scope and fee. Final revised scope and fee received (11/8/23).

GWA Engineering drafting letter to request utility easements through Government properties. GM signed letter to Port Authority (6/30/23).

Submitted expanded scope of work of Hagatna Main SPS rehabilitation work to Designer for cost proposal on 3/27/23 and negotiated costs. Final scope and fee for the FM design pivot and SPS assessment received (11/8/23); CCU approved scope and fee (11/28/23).

CO#1 (revised scope and fee) submitted by Designer (12/12/23), signed by Legal (12/27/23, approved by GM and forwarded to Designer (1/8/24). SPS assessment team arrived on island on week of 2/5/24; completed an initial structural, civil, electrical assessment of SPS, and now working on a report and gathering additional information for design.

B-35**Hagatna Wastewater Treatment Plant
Causeway and Facility Structural Analysis****S20-004-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/7/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater CIP
Analysis and evaluation of Hagatna WWTP causeway bridge and facility structural integrity.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-08-ENG-2021	4/2/2021	12/2024	Duenas, Camacho & Associates, Inc.
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	Bond 2020 MP-Gen-Misc-05	\$114,820.00	30%
Construction Management			
Construction			

ACTIVITIES

- DCA submitted subcontractor cost proposal for \$86K for structural analysis for mechanical, electrical, and architectural assessment (01/06/23); Change Order (CO) 1 signed by DCA and GWA Engineering, and routed for GM signature (3/14/23).
- GM directed to exclude mechanical assessments; DCA resubmitted proposal w/out mechanical (4/26/23) for total cost of \$65.7K.
- Updated CO1 sent to DCA for signature (4/27/23), and received revised CO back from DCA for processing (5/15/23); received comments from Legal (7/24/23), and signed by Legal (7/28/23); in processing with Finance as of 9/5/23.
- Met with DCA on to discuss project path forward on causeway, CO work, and additional scope for to include potential assessment on clarifiers, and bypass mounting on causeway for Hagatna Main SPS. New scope and fee proposal received (2/5/24) at \$150K (not including the abovementioned 65.7K) and will review.
- Additional discussion with DCA on a SCADA assessment and design for the WWTP to help with alarms and alerts, and site visit (2/13/24) to walk with DCA and review current system. DCA submitted draft SOW for SCADA (3/5/24) for review.
- GWA, DCA (Designer), and GHD (Hagatna force main designer) met to discuss causeway and bypass force main design (2/7/24); both designers working on respective designs and DCA working to develop options for bypass FM on causeway.

Considering options for causeway rehabilitation.

B-36**Hagatna Wastewater Treatment Plant
Interim Disinfection****S19-001-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/5/2024	Mauryn Q. McDonald, P.E.		Wastewater CIP
The project is a feasibility and pilot study for the use of an interim disinfection process including development of a proposed feasibility and pilot study work plan, wastewater characterization analysis and effluent quality analysis, dosing and concentration analysis, bench and pilot scale testing, chemical sourcing, transport and storage analysis, and development of detailed technical report documenting the findings and recommendations on the implementation of peracetic acid (PAA) interim disinfection.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-01-ENG-2019	7/25/2019	2/15/2021	Duenas, Camacho & Associates, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	IFCIP	\$736,265.92	75%

ACTIVITIES

Chemical enhanced primary treatment (CEPT) optimization and PAA disinfection bench scale study was completed in 2019 and documented through a 7/12/2019 technical memo (TM). The TM identified repairs necessary to implement a full-scale PAA pilot project.

Contract amendment #1 was to include a life cycle analysis on PAA and UV disinfection options covering a 20-year life cycle cost, repair of flocculation tank mixers, coagulant manifold, influent flow meter, effluent isolation gate, digester, and clarifier. The repairs are needed for full-scale plant bench testing for a 1-week period.

Contract amendment #2 was to include parts for clarifier repairs, as proper clarifier operations were needed for the pilot project.

The full-scale plant bench testing was completed in 2021 and a meeting with GWA and DCA was held on 3/9/2022. GWA was to determine long-term plans for the HWWTP, which includes considerations for climate change impacts. A Water and Environmental Research Institute's 4/30/2022 "Impact of Climate Change on Guam Waterworks Authority Infrastructure" advisory paper projected a 1-foot sea level rise by the year 2050. The long-term plans for the HWWTP will be addressed under a study.

The technical memo for the interim disinfection project will be finalized and the project 1st quarter of 2024.

B-37 Aplacho Drainage and Roadway Improvements

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/5/2024	Mauryn McDonald, P.E.	Rylma Carino	Wastewater
The Aplacho Drainage and Roadway Improvements project will provide subterranean drainage along the crossroad extend the drain to daylight and harden with concrete headwall. The roadway will be rehabilitated due to the seepage of water during the rainy season.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Conceptual Design	N/A	03/2022	08/2022	DPW
Construction Management	N/A			GWA/Internal CM
Construction	IFB -07-ENG-2023	TBD	TBD	GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Conceptual Design			N/A
Construction Management			N/A
Construction	WW 11-03 2016 Bond and MP-WW-Pump-01	\$1,053,819.91	0%

ACTIVITIES

The project is a joint project between GWA and DPW. DPW will provide design services and GWA will be responsible for the construction and construction management of this project. Upon completion of the project, the drainage system will be turned over to DPW.

1. Completed the bid opening on 11/20/2023 with bidders submitted their bids.
2. The Notice of Intent to Award was issued to A & R Pacific on January 2, 2024.
3. The CCU was approved on 1/23/2024
4. The procurement including the contract was forwarded to the AG's office for review and comments based on the legality and form and due on 2/17/2024.
5. Received the Insurance Policy on 2/21/2024 and this is under review.
6. Sent the advance copy of plans on 2/21/2024 to GEPA for permit review.
7. The MOA between DPW and GWA was approved on 2/22/2024.
8. The construction plans were signed by AGME.
9. Budget transfer forwarded to Finance on 3/5/2024 for processing.
10. GWA Engineering will send the Section 106 Review to SHPO this week and if required an Archaeological services will be added to the scope of work of the contractor

B-38 Indefinite Delivery-Indefinite Quantity S22-002-BND
 Islandwide Sewer Collection/Transmission
 System Repair, Rehabilitation, and
 Replacement

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 3/7/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater CIP
IDIQ to provide GWA with ability to design, manage, and address wastewater repairs, rehabilitation, and replacements within our sewer collection/transmission system.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Construction Management	RFP-06-ENG-2022	In Procurement	n/a	
Design/Build Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Construction Management	GWA Bonds, USEPA SRF Grants, SDC	In Procurement	
Design/Build Construction			

ACTIVITIES

- Completed selection of two A/E firms for PM/CM (AECOM and BC) on 11/10/22; completed negotiation with AECOM and BC on respective TO No. 1.
- Submitted AECOM signed contract agreement to Finance (Legal signed on 3/14/23) for approval, along with TO No. 1 (Legal signed 5/10/23) for approved; both currently processing in Finance.
- Submitted BC signed contract agreement to Legal (6/26/23) for approval, with TO No. 1 in review before sending to BC for signature.
- Both IDIQ Contract Agreements were pending approval of E-505 template to replace the current agreement (E-500). New draft E-505 templates were sent to A/E firms, with comments for review.
- TO No. 1 proposal costs with 2024 fees for BC being completed. BC working on updated fees after review meeting (3/5/24); AECOM signed the agreement and TO No.1 on 3/8/24; routed for GWA processing. No CCU approval needed.

GWA Engineering producing ID/IQ RFP for Design-Build (DB) Contractor(s); looking to advertise for ID/IQ DB RFP before end of year, pending execution of ID/IQ PM/CM agreements and supporting task orders.

B-39**Casimiru Waterline Replacement****W20-003-BND**

REPORT	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 9/08/2023	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
The work to be performed consists of replacing 2,560 linear feet of existing 6-inch asbestos cement pipe along Casimiru Street and Duenas Street with 6-inch PVC pipes. The scope includes installation of fire hydrants, reconnection of existing serve laterals from the old to new waterline, pressure testing and disinfection of new waterline, reconnection of existing PRV from old to new waterline, and asphalt pavement restoration.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design-Build (Construction)	IFB-07-ENG-2020	2/13/2021	5/30/2022	Giant Construction Inc./ WB Flores Engineers
Construction Management			6/30/2023	GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design-Build (Construction)	Bond 2013 PW 09-03 Bond 2020 PW 09-03	\$644,480.00	100%
Construction Management	In-house		100%

ACTIVITIES

06/15/2023	Received from Giant as-built drawings both cad file and pdf.
06/28/2023	Received from Giant Invoice No. 5 (Final) for \$35,074.00. Prepared final COP no. 5 and Memo to Acting AGME with information to support approval of final payment. Late submission of acceptable as-built drawings was considered to have little to no impact to the project and commissioning of the waterline replacements.
06/30/2023	Acting AGME signed and submitted the final COP no. 5 to Finance to process payment and project close-out. Construction Project Completed

B-40 Reifsnider Street Waterline

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 9/08/2023	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
The work to be performed includes installation of 760 feet of 2-inch PVC waterline along Reifsnider Street and 160 feet of 6-inch PVC waterline crossing Murray Street and connecting to existing 6-inch waterline along Saltan Street.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design-Build (Construction)			4/2023	GWA
Construction Management			4/2023	GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design-Build (Construction)	Internally Funded CIP	\$45,799.56	100%
Construction Management			100%

ACTIVITIES

02/28/2023	Installation of 6-inch waterline crossing Murray Street was completed, including tie-in to existing 6-inch waterline at Saltan street. Remaining work are 2-inch waterline connection to new 6-inch waterline, pressure testing and disinfection of new waterline, installation of water meter for the complaining resident(s), and asphalt pavement restoration.
03/30/2023	The 2-inch waterline connection to 6-inch waterline and the remaining 2-inch waterline crossing the pavement to location of new water meter were completed. Pressure testing and disinfection of new waterline expected to be completed 4/15/2023.
04/03/2023	Permit section needs to notify Mr. Cruz to apply for water meter connection.
04/15/2023	Disinfection and testing of new waterlines completed.
05/10/2023	Restoration of road a.c. pavement at Reifsnider Street was completed. Restoration road a.c. pavement at Murray Street is still pending.
08/12/2023	Restoration of road a.c. pavement at Murray Street completed. In-house construction completed.

B-41 Temporary Booster Pump Station Consolacion Street, Asan WOP-01-2022

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 02/02/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
This project intends to provide, in the interim, a temporary booster station that will supply adequate water pressure to customers located in the upper elevations of Consolacion Street, Asan. The ongoing CIP projects that will address this water pressure problem will take a couple of years to complete.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design-Build (Construction)			03/29/2024	GWA
Construction (Electrical)			9/30/2023	R&E Builders, LLC
Construction Management			12/31/2023	GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design-Build (Construction)	Internally Funded CIP	\$38,771.89 24,950.00	85% 50%
Construction (Electrical)		\$49,999.00	100%
Construction Management			

ACTIVITIES

Activities leading up to 01/02/2024 are briefly described in prior monthly reports.

- 01/02/2024 Supplier inform GWA that the duplex booster pump system is ready to be shipped from the factory. However, he noticed the influent/effluent piping did not appear correct. Supplier will contact the manufacturer.
- 01/03/2024 Manufacturer made corrections to address the flow orientation issue. GWA Engineer reminded the Supplier to include a 26-gallon tank in the shipment. Supplier acknowledged and will contact the manufacturer to include the tank and dome light accessories. ETA is 4 to 6 weeks or not later than the week of February 19, 2024. Replacement of the temporary booster pump with the new packaged duplex pump system will be performed by GWA. The revised expected completion date is March 29, 2024.
- 01/12/2024 Supplier sent revised schedule, package booster pump will arrive at Supplier's warehouse on February 3, 2024.
- 02/05/2024 Package booster pump was delivered by vendor to GWA Warehouse.
- 02/27/2024 Ops gave tentative schedule of package booster pump installation for first week of March 2024.

B-42**Groundwater Production Meter Replacement****W19-001-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 03/05/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
The project will replace the above-ground discharge piping and meters at 30 existing deep wells located in different parts of the island. An additional 15 deep wells will be added through an executed change order.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	PMO Facility Plan 2016	9/22/2017	10/2018	Brown and Caldwell
Construction Management			3/2023	GWA
Construction	IFB-05-ENG-2019	4/29/2020	3/2023	Giant Construction Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design			100%
Construction Management			100%
Construction	Bond 2013 PW 05-07	\$ 142,053.65	100%
	Bond 2016 PW 05-07	\$1,250,000.00	100%
	Bond 2020 MP-PW-MISC-02	\$ 641,896.46	100%
	SDC	\$ 151,207.27	100%

ACTIVITIES

Activities leading up to December 30, 2023 are briefly described in prior monthly reports.

12/30/2023 Ordered batteries has not arrived as scheduled. Contractor following-up.
 01/31/2024 Contractor advised that ordered batteries arriving 02/03/2024.
 02/16/2024 Contractor checked the following deep wells:
 D-24 – Battery voltage was very low. Found water inside meter housing caused by condensation. After cleaning and replacing the old batteries with new batteries, the meter worked.
 D-19, Battery voltage readings were normal but found water inside the meter housing. After replacing electronic module, the meter worked.
 M-17B – Battery voltage was very low. Batteries, electronic module, and display module were all replaced and the meter worked.
 A-08 – Meter was not working. Battery voltage was normal. After replacing the electronic module, the meter worked.

B-43 Ugum Water Treatment Plant Rehabilitation W22-10-BND

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
As of 03/05/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
The project involves the rehabilitation or upgrades to the raw water pumps at the river intake, settling basins, membranes, pipe gallery, generator room, backwash, neutralization tank, sludge tank, thickening system, operations and chemical building, and administration building to improve plant capacity, treatment performance, and provide reliable operation of the water treatment plant.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Assessment of WTP	Task Order No. 3 IDIQ PM/CM	7/6/2021	4/2022	Duenas, Camacho and Associates, Inc.
Construction Management	Task Order No. 3 IDIQ PM/CM			Duenas, Camacho and Associates, Inc.
Construction	IFB-05-ENG-2023			

PHASE	FUNDING SOURCES	COST	% COMPLETE
Assessment of WTP	MP-PW-SWTP-03	\$173,490.00	100%
Construction Management	MP-PW-SWTP-03	\$ 89,114.00	0%
Construction	2010/2013/2020 PW 09-01 2016 WW 11-03 2020 MP-PW-SWTP-02 2020 MP-PW-SWTP-03 EPA Grant M96902621	766,129.23 1,798,477.47 1,174,000.00 887,396.00 3,847,050.00	0%

ACTIVITIES

Activities leading up to 01/31/2024 are described in prior monthly reports.

- 01/31/2024 Contract was fully executed. Notification of award to be posted to GWA website before issuance of NTP.
- 02/05/2024 Notice to Proceed with 425 calendar days to complete substantial completion.
- 02/08/2024 Pre-construction conference was conducted. Contractor submitted preliminary Construction Schedule for the first 60 days, preliminary Schedule of Submittals, preliminary Schedule of Values, and preliminary Critical path and Sequencing.
- 02/15/2024 Meeting with CM and Contractor. Discussed additional items requested by Operations and Electrical.
- 02/20/2024 Contractor visited the project site to assess the additional items requested by Operations to be included to the project as possible change order.

B-44 **Design-Build of Pago Bay 12-inch Waterline Replacement** **12303**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 03/05/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
The project will complete the conceptual design prepared by GWA Engineering, structural integrity assessment of the bridge wall that will support the replacement waterline, installation of 12-inch ductile iron waterline including pipe supports, pressure testing and disinfection of new waterline, reconnection to existing waterlines, asphalt pavement restoration, disposal of existing damaged 12-inch waterline, and condition assessment of existing 16-inch waterline hanging under the Bridge.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design-Build (Construction)				
Construction Management				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design-Build (Construction)	Bond 2010 PW 11-01	\$25,114.00	
	Bond 2010 PW 09-06	\$62,498.00	
	Bond 2020 MP-PW-Pipe-10	\$200,000.00	
	Bond 2020 MP-PW-Pipe-11	\$200,000.00	
	Bond 2020 MP-PW-Pipe-12	\$12,388.00	
Construction Management			

ACTIVITIES

02/28/2023	Engineering sent a follow-up email to Finance inquiring the status of budget transfer request.
03/15/2023	Received message from Finance that budget certification is under review.
04/06/2023	Funding certification was approved and signed by GM.
04/17/2023	Updated Front End Documents was transmitted to Josephine for transmittal to Legal.
6/30/2023	Updating Front End Documents based on feedback from Legal Office.
08/02/2023	Review and edits of the technical specifications, conceptual plans and front end documents are work in progress.
08/28/2023	Routed the project Front End Documents to Engineering/Planning Section for review.
09/29/2023	Engineering and Legal discussed the front-end documents for a Design-Build solicitation. The documents are with Legal for review.
10/29/2023	Review and apply the EJCDC D-520 Owner-Design Builder Agreement for this design-build project is in progress.
12/30/2023	Review of EJCDC D-520 Owner-Design Builder Agreement still pending.

B-45 Current Balancing Unit for Deep Well A-09

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 01/05/2024	Barbara Ann C. Cruz, P.E.	William F. Esteves	Engineering Support
<p>The project is a pilot project to install and evaluate the effectiveness of a Current Balancing Unit (CBU) for a GWA deep well. Current imbalances on the power supply to a 3-phase electric motor can cause the motor to overheat and shorten its life expectancy. The wells are operated by 3-phase electric motors. In its product literature, the CBU will monitor and automatically adjust the 3-phase currents to minimize the current imbalance to 3% or less. The CBU is also expected to accommodate wide fluctuations of voltages, so that even if the voltages from the utility are shifting up or down, the current stays balanced. There are other factors that can cause motor overheating but current imbalance is a condition that can happen frequently.</p>			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Conceptual Design				GWA
Construction Management				GWA
Design-Build (Construction)				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Conceptual Design			75%
Construction Management			0%
Design-Build (Construction)		\$200,000.00 (estimate)	0%

ACTIVITIES

08/02/2023	Water Production Manager submitted a Memo to request for funds to purchase and install a Current Balancer Unit (CBU) at Well Y-15 in the amount of \$154,048.21. Estimated cost includes electrical and concrete materials, crane rental and CBU installation/commissioning services. Y-15 has an estimated expenditure cost of \$394,677.55 from 2008 to 2023. The purchase and installation of current balancer unit will be expected to reduce motor failures and well pull outs.
08/10/2023	GM requested AGME to prepare and submit a technical memo to document the power issues and reference manufacturer information on power imbalances to be used to discuss with GPA on proposed resolution and possible reimbursement of pump/motor replacement costs.
11/03/2023	AGME submitted the technical memo that covered a comprehensive analysis of the power issues at Y-15.
11/22/2023	AGME signed and forwarded the Memo from Water Production Manager to CFO and GM recommending approval to use bond funds. CFO acknowledged to route the Memo to budget and then to the GM.
01/05/2024	GWA Operations will install and Engineering will perform the study. The revised project site is Well Y-15. Engineering will meet and coordinate with Operations.

B-46 Deep Well Power Line Conditioner Pilot Project

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 11/09/2023	Barbara Ann C. Cruz, P.E.	William F. Esteves	Engineering Support
The project is a pilot project to install and evaluate the effectiveness of a power line conditioner for providing "clean" incoming power for a GWA deep well. Evaluation includes transient and surge protection and suppression, under/over voltage correction and protection, phase imbalance correction and protection, and capital and operation costs/savings.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Conceptual Design				GWA
Construction Management				GWA
Design-Build (Construction)				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Conceptual Design			75%
Construction Management			0%
Design-Build (Construction)	EE -9-02, EE 09-05, MP-PW-WELL-06	\$200,000.00 (estimated)	0%

ACTIVITIES

08/02/2023 This project is on hold. Changing direction to perform a Sustainable Green Energy pilot project for deep wells.

B-47

GWA Upper Tumon Warehouse Renovation

42102

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 03/05/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
The basic bid scope of work involves the design and construction of the replacement of existing warehouse roofing, sidings, exterior metal stairs, metal door, roll-up doors, and installation of ventilation system. The additive bid scope of work involves the demolition and replacement of existing office walls, ceilings, doors and windows, floor paving, painting, and electrical works.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Construction	IFB-03-ENG-2023			
Construction Management				GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Construction	Internally Funded CIP		
Construction Management			

ACTIVITIES

Activities leading up to 01/19/2024 are described in prior monthly reports.

01/19/2024 Meeting with GM, AGME, AGMO, CFO and Engineering staff was held to discuss Design-Build of GWA Upper Tumon Campus Improvements. Design-Build of GWA Upper Tumon Campus Improvements will be comprised of Phase I and Phase II. Phase I includes Upper Tumon Warehouse Rehabilitation and Meter Testing Facility Repair while Phase II will involve Customer Service Center Renovation and Laboratory Equipment Replacement.

02/27/2024 Refer to "Upper Tumon Campus Improvements, Phases 1 and 2".

Note: In future monthly reports, the Upper Tumon Warehouse Renovation project will be replaced by and reported under the "Upper Tumon Campus Improvements, Phase 1".

B-48 Upper Tumon Campus Improvements

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 03/08/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
<p>This project involves the following:</p> <ol style="list-style-type: none"> 1. Phase I - Upper Tumon Warehouse Renovation and Meter Testing Facility Repair 2. Phase II – Upper Tumon Customer Service Center Renovation and Laboratory Equipment Replacement <p>Phase 1: Warehouse renovation involves the replacement of existing warehouse exterior structure, stairs, doors and ventilation system. May include replacement of office walls, ceilings, doors, windows and floors, and electrical rehab. Meter Testing Facility repairs of structural and water damages caused by Super Typhoon Mawar.</p> <p>Phase 2: Renovation of the Upper Tumon Customer Service Center including the Information Technology and Laboratory Office areas. Replacement of Laboratory's dedicated outdoor air units.</p>			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Construction				
Construction Management				GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Construction			
Construction Management			

ACTIVITIES

02/27/2024	CCU approved GWA Resolution No. 10-FY2024, Relative to Requesting Approval to Procure Design-Build of GWA Upper Tumon Campus Improvements. The approved total amount for Phases 1 and 2 is \$8,248,400.00.
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B-49 Rojas Harmon Stormwater Drainage 42306

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 03/08/2023	Prudencio F. Aguon	Vincent Edward T. Laguana	Planning
For design of stormwater infrastructure in Harmon Rojas Street to alleviate flooding issues. Mutually beneficial project for GWA and DPW.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-07-ENG-2023	pending	n/a	n/a

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	SO-98T45501-01	\$1,000,000.00	0%

ACTIVITIES

Advertised 09/22/2023. Due date is 10/22/2023.
 Bid opening was on 10/31/2023. Proposals were evaluated and scored.
 GHD was selected proposer.
 MOU was signed by DPW director and coordination with DPW is forth coming.
 GWA reached an agreement to a scope of work and fee with selected firm.
 Pending contract to be drafted, reviewed, and approved by GWA then sent to firm.



Financial Statement Overview February 2024

Key Financial Indicators

Indicator	Target	December 2023	January 2024	February 2024
DSC YTD				
• Per Section 6.12 of Indenture	1.25	1.57	1.59	1.58
• Per PUC / CCU	1.30	1.57	1.59	1.58
Days – Cash on Hand	120 days	271 days	278 days	290 days
Collection Ratio**				
• Month to Date	99%	88%	98%	99%
• Year to Date	99%	83%	87%	89%
Days Billed	30 days	29 days	30 days	30 days
Account Receivable Days	30 days	39 days	39 days	39 days
Account Payable Days	45 days	40 days	38 days	38 days
Employee Count	400 FTE	359 FTE	357 FTE	351 FTE
Water Demand				
• Month to Date	451,933	431,731	424,459	418,166
• Year to Date	2,259,667	1,263,230	1,687,688	2,105,853
Wastewater Flow				
• Month to Date	317,500	316,817	309,902	298,261
• Year to Date	1,587,500	926,255	1,236,157	1,534,418
Operations & Maintenance Expense*	\$6,567,186	\$5,653,023	\$5,552,981	\$5,537,977
Water Customers	43,978	43,539	43,525	43,529
Wastewater Customers	30,781	31,083	30,879	31,216

*Excludes Depreciation

** Includes SDC Revenue and Collection

Water and Wastewater Consumption

Water consumption is about the same and wastewater flows are 2% less for the month of February compared to last year. Wastewater flows Increases in the Hotel class were not enough to offset decreases in other customer classes. Note that billing days in February were 2 days more than last year, 30 days compared to 28 days.

Year-to-date water consumption as of February 2024 was 2% below prior year and wastewater flows were 1% above prior year. Decreases in water consumption for the Government of Guam and Residential customer classes were the main reasons for the decrease in water consumption. Increases in wastewater flows from the Federal Government and Hotels were the reasons for the increase in overall wastewater flows. Note that many of the public schools remained closed during the initial part of the school year as they worked with Public Health on required inspections.

Year-to-date average daily water consumption (ADC) as of February 2024 of 14,039 kgals is 3% less than the prior year's 14,518 kgals. Decreases in the Government of Guam and residential customer classes largely drove the reduction in ADC. Year-to-date billing days at 150 days is two days more than the prior year.

**Balance Sheet (Schedule A)**

- Total Assets & Deferred Outflows of Resources of \$1.220B in September 2023 increased by \$1.6M or less than 1% to \$1.221B in February 2024. Current Assets increased by \$7.9M primarily due to increases in internally restricted cash and accounts receivable. Property, Plant and Equipment decreased by \$4.8M due to increases in depreciation. Other Noncurrent Assets decreased by \$600.0K.
- Liabilities & Deferred Inflow of Resources of \$886.3M in September 2023 decreased by \$6.5M or 1% to \$879.7M in February 2024 primarily due to decreases in contractors payable and interest payable. Bond interest is paid in January and July of every year.
- Accounts Receivable days in February 2024 and January 2024 were 39 days. Accounts Payable days In February 2024 and January 2024 were 38 days. Schedule I presents Accounts Receivable Aging by Customer Class and Schedule H contains a breakdown of Government Receivables. Schedule J reports Accounts Payable Aging.

Statement of Operations and Retained Earnings (Schedules B-E)

- Total Operating Revenues for February 2024 of \$10.3M is \$527.6K or 5% less than the budget of \$10.8M. February 2024 Total Operating Revenues are 17% or \$1.5M more than February 2023's \$8.8M. Note there was a rate increase of 16.7% effective October 2023.
- Year-to-date Operating Revenues as of February 2024 of \$53.2M were \$918.1K less than budget and \$8.1M or 18% more than Year-to-date Operating Revenues as of February 2023 of \$45.2M.
- Below are the percentages of operating revenues (water and wastewater) contributed by GWA's customer classes for FY2024 and FY2023 as well as the revenue totals:

Customer Class	FY2024		FY2023	
o Residential	\$22,332,643	42.73%	\$19,483,264	43.97%
o Commercial	11,221,249	21.47%	9,974,154	22.51%
o Hotel	9,392,357	17.97%	6,956,066	15.70%
o Government of Guam	5,667,708	10.84%	5,727,311	12.93%
o Federal Government	3,409,617	6.52%	1,982,229	4.47%
o Agriculture, Golf Course, Irrigation	239,492	0.46%	188,212	0.42%
TOTALS	\$52,263,067	100.00%	\$44,311,235	100.00%

- Total Operating Expenses for February 2024 of \$7.94M were \$948.0K or 11% less than budget of \$8.9M. February 2024 Total Operating Expenses were 7% or \$561.4K less than February 2023's \$8.5M.
- Year-to-date Operating Expenses as of February 2024 of \$40.0M were 10% or \$4.4M less than the budget of \$44.4M and 9% or \$3.8M less than February 2023's \$43.7M. Salaries and Benefits, Depreciation, and Retiree Benefits increased year over year while Utilities, Administrative & General Expense, and Contractual Expense decreased.
- Earnings from Operations for February 2024 of \$2.4M were 22% or \$420.4K more than the budget of \$1.9M and \$2.0M more than February 2023's \$323.0K. Change in Net Assets for February 2024 of \$800.1K was 57% or \$1.0M less than the \$1.8M budget and \$951.0K less than February 2023's \$1.8M. The decrease in the Change in Net Assets year over year was mostly due to the elimination of the ARPA funds, reduction in interest income and a loss on disposal of assets.



- Year-to-date Earnings from Operations as of February 2024 of \$13.2M is 36% or \$3.5M more than the budget of \$9.7M and \$11.8M more than prior year's \$1.4M. Year-to-date Change in Net Assets as of February 2024 of \$8.1M is \$1.1M or 11% less than budget of \$9.2M and \$1.1M or 15% more than prior year's \$7.1M
- No Rate Stabilization Funds were used in February 2024. There is a balance of \$950.0K in the RSF at the end of February 2024.

Cash Flow (Schedule F)

- FY2024 cash flows from operating activities were \$19.8M, cash used in capital and financing activities was \$21.3M, and cash used in investing activities was \$527.2K resulting in a decrease in cash of \$2.0M. Days Cash on Hand for February 2024 was calculated at 290 days compared to January 2024's 278 days. Schedule G contains a schedule of restricted and unrestricted cash and investments.

Customer Payments

While only 7% of payments are made in cash, more than a third of payments continue to be made in person. The Upper Tumon drive through continues to remain open.

On April 28, 2020, CCU Resolution 24-FY2020 granted the lifting of credit card limits on payments for non-residential accounts. In FY2024, approximately 53% of payments were made with credit cards. Below is a summary of non-residential credit card payments and related fees.

Month	Customer Count	Amount Paid	Fees	% Of Fees to Payments
May – September 2020	140	\$241,335	\$4,952	2.05%
October 2020–September 2021	526	\$1,119,286	\$22,505	2.01%
October 2021– September 2022	738	\$3,076,971	\$61,588	2.00%
October 2022 -September 2023	783	\$3,420,468	\$66,158	1.93%
October – December 2023	192	\$1,035,322	\$20,816	2.01%
January 2024	80	\$323,378	\$6,502	2.01%
February 2024	80	\$344,642	\$6,929	2.01%

The recent merchant services procurement is currently with the Office of Attorney General for review.

The Upper Tumon office is open for payments on Saturdays. For the four Saturdays in February, 455 payments totaling \$89,126 were made towards GWA billings and 646 payments totaling \$143,530 were made for GPA.

For the month of February, Finance posted \$25,674 in utility payments from the Department of Administration (DOA) for eligible renters as part of the Guam Emergency Rental Assistance Program (GERAP). There were \$10,351 in payments received for eligible homeowners as part of the Guam Homeowners Assistance Fund (GHAFF).



Guam Solid Waste (GSW) Customer Payments

GPWA began to accept GSW payments on June 6, 2022. For the month of February 2024, GWA accepted \$83,811 GSW payments at the Upper Tumon Office. GWA will bill \$1,320 to GSW for processing fees.

CIP Update

Below is a table providing a summary of the various sources of funding available for GWA CIPs. The expenditures are life to date. Note that Department of Interior Grants also include funding for training and the USEPA balances include a grant that expired in September 2023.

Funding Source	Available Funds	Expenditures as of 2/29/2024	Outstanding Encumbrances	Funding Request	Total Expenditures, Encumbrances, & Funding Requests	Unobligated Project Costs 2/29/2024	% Unobligated
B2016	\$ 142,468,797	\$ 118,683,379	\$ 18,669,127	\$ 864,212	\$ 138,216,717	\$ 4,252,079	2.98%
B2017	\$ 87,883,114	\$ 84,213,701	\$ 542,982	\$ 177,272	\$ 84,933,955	\$ 2,949,159	3.36%
B2020A	\$ 130,861,957	\$ 19,056,909	\$ 70,206,026	\$ 5,299,963	\$ 94,562,897	\$ 36,299,059	27.74%
B2020B	\$ 140,450,540	\$ 137,278,571	\$ 1,417,344	\$ 1,468,808	\$ 140,164,724	\$ 285,816	0.20%
Construction Fund	\$ 4,809,380	\$	\$ 1,798,477	\$	\$ 1,798,477	\$ 3,010,902	62.60%
SDC	\$ 18,367,283	\$ 12,185,510	\$ 260,303	\$ 1,094,000	\$ 13,539,814	\$ 4,827,470	26.28%
DOI	\$ 2,133,783	\$ 102,921	\$ 25,000	\$	\$ 127,921	\$ 2,005,863	94.00%
USEPA	\$ 120,828,094	\$ 33,102,377	\$ 10,376,926	\$	\$ 43,479,303	\$ 77,348,791	64.02%
ARPA	\$ 8,879,961	\$ 478,035	\$ 686,287	\$	\$ 1,164,322	\$ 7,715,639	86.89%
IFCIP	\$ 21,807,262	\$ 13,667,413	\$ 1,842,295	\$ 6,561,592	\$ 22,071,300	\$ (264,038)	-1.21%
Totals	\$ 678,490,170	\$ 418,768,815	\$ 105,824,768	\$ 15,465,847	\$ 540,059,430	\$ 138,430,740	20.40%

FY2025-FY2029 Financial Plan

As required by the Rate Payers Bill of Rights (RPBR), a public notice was filed on March 8th in the Pacific Daily News and the Post. Additionally, an advance copy of the rate petition and the Five-Year Financial Plan and Capital Improvement Program for FY2025 through FY2029 was provided to the PUC on the same date, March 8, 2024. GWA has already had one virtual meeting with the PUC consultants on the rate petition.

The PUC tabled the review of the proposed rate design in February to March. The PUC consultant's report, the report prepared by the Administrative Law Judge (ALJ), and draft order has been provided to GWA for review. The ALJ has recommended that the rate design be approved in principle until the PUC fully understands the impact of the rate design on rates.

Refunding Update

Vice Chair Santos, General Manager Bordallo and the CFO were in New York from Friday, February 23 to Friday, March 1 for the 2024AB Bond Refunding and Tender. Also present were representatives from GEDA. The BBMR Director participated virtually as well as GEDA's financial advisors. The team spoke to twelve interested investors to field questions and discuss the tender and refunding. The team received continuous updates from our underwriters, RBC, on the progress of the deals. On Wednesday, February 28, the team reviewed the tender offers and decided which to accept. On Thursday, the team initially priced the bonds, watched the orders for bonds come in, and worked with RBC to determine the final pricing and allocations.

The net present value savings is \$14.5M. Debt service savings is \$900K annually on average over the remaining life of the bonds, i.e., through 2046. The True Interest Cost for the 2024AB bonds is 3.97%. The Series 2024A Bonds will close on March 14 and the Series 2024B Bonds will close on April 2, 2024.

US Department of Labor FLSA Compliance

The US Department of Labor is wrapping up a review to determine whether GWA is in compliance with Fair Labor Standards Act. It was determined that GWA needs to adjust how overtime is paid when hourly employees are working shifts requiring night differential as the night differential rates must be accounted for in the overtime



calculation. Additionally, certain employees claimed they were not given a meal break but deducted for it, were not paid to attend mandatory meetings outside of their assigned shifts or worked before or after their shift without pay. The Internal Auditor assisted with verification of these claims and training of supervisors and staff on FLSA is being developed. The review covered two years, and, in some cases, back wages were paid.

Tourism

Visitor arrivals in January 2024 were 82,670 compared to January 2023 of 56,687, an increase of 45.8%. Fiscal Year to Date arrivals at January FY2024 were 271,352 up 40.6% for January FY2023's 193,013. Visitors from Korea were 57% of arrivals and visitors from Japan were 23%.

**GUAM WATERWORKS AUTHORITY
February 29, 2024
FINANCIAL AND RELATED REPORTS
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GUAM WATERWORKS AUTHORITY
Balance Sheet
February 29, 2024

SCHEDULE A

ASSETS AND DEFERRED OUTFLOWS of RESOURCES	Unaudited February 29, 2024	Unaudited September 30, 2023	Increase (Decrease)
<u>Current Assets</u>			
Cash			
Unrestricted (Schedule G)	48,312,106	50,324,888	(2,012,782)
Restricted Funds (Schedule G)	39,455,242	32,707,733	6,747,510
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of \$9,582,684 at Feb 29, 2024 and \$9,365,376 at Sep 30, 2023	15,000,802	11,484,716	3,516,086
Federal Receivable	1,027,327	2,191,346	(1,164,019)
Other Receivable	5,416,103	4,831,548	584,555
Prepaid Expenses	1,573,639	1,206,948	366,691
Materials & Supplies Inventory, Net of Allowance for Obsolescence of \$122,856 at Feb 29, 2024 and \$122,856 at Sep 30, 2023	4,952,827	5,096,658	(143,830)
Total Current Assets	115,738,047	107,843,836	7,894,210
<u>Property, Plant and Equipment</u>			
Utility plant in service			
Water system	445,352,498	444,848,078	504,420
Wastewater system	683,259,415	679,249,470	4,009,946
Non-utility property	34,167,148	33,683,228	483,920
Total property	1,162,779,061	1,157,780,776	4,998,285
Less: Accumulated Depreciation	(437,153,861)	(425,426,791)	(11,727,070)
Land	5,287,305	5,287,305	-
Construction Work in Progress	76,053,853	74,149,217	1,904,635
Property, Plant and Equipment, net	806,966,358	811,790,507	(4,824,150)
Lease and subscription IT assets	1,112,482	1,112,482	-
<u>Noncurrent assets</u>			
Restricted cash (Schedule G)	147,516,233	150,366,788	(2,850,555)
Investments (Schedule G)	72,490,363	70,239,665	2,250,698
Total other noncurrent assets and deferred charges	220,006,597	220,606,453	(599,856)
Total Assets	1,143,823,483	1,141,353,278	2,470,205
Deferred outflows of resources			
Regulatory assets	2,858,947	2,858,947	-
Debt defeasance due to bond refunding	26,340,486	27,184,464	(843,977)
Deferred outflows from pension	7,405,025	7,405,025	-
Deferred outflows from OPEB	41,247,962	41,247,962	-
Total Assets and Deferred Outflows of Resources	1,221,675,903	1,220,049,676	1,626,228
LIABILITIES, DEFERRED INFLOWS of RESOURCES AND NET ASSETS			
<u>Current Liabilities</u>			
Current maturities of long-term debt			
Series 2013 Revenue Bond	3,315,000	3,315,000	-
Series 2014 Refunding Bond	4,205,000	4,205,000	-
Series 2016 Revenue Bond	875,000	875,000	-
Series 2017 Refunding Bond	2,365,000	2,365,000	-
Lease and subscription IT liabilities	375,103	375,103	-
Accounts Payable -Trade	3,758,711	4,329,683	(570,972)
Accrued and Other Liabilities	14,806,073	14,216,960	589,113
Interest Payable	4,713,678	7,070,516	(2,356,839)
Accrued Payroll and Employee Benefits	1,326,602	1,334,022	(7,420)
Current portion of employee annual leave	729,390	729,390	-
Contractors' Payable	5,151,569	8,565,009	(3,413,440)
Customer and Other Deposits	2,289,709	2,268,968	20,741
Total Current Liabilities	43,910,835	49,649,651	(5,738,817)
<u>Long Term Debt, less current maturities</u>			
Series 2013 Revenue Bond	15,050,000	15,050,000	-
Series 2014 Refunding Bond	55,845,000	55,845,000	-
Series 2016 Revenue Bond	133,265,000	133,265,000	-
Series 2017 Refunding Bond	98,565,000	98,565,000	-
Series 2020A Revenue Bond	134,000,000	134,000,000	-
Series 2020B Refunding Bond	166,075,000	166,075,000	-
Unamortized Bond Premium/Discount	36,505,665	37,287,410	(781,745)
Lease and subscription IT liabilities	192,245	192,245	-
Net pension liability	46,038,335	46,038,335	-
Net OPEB obligation	116,272,057	116,272,057	-
Employee Annual Leave, Less Current Portion	913,289	913,289	-
Employee Sick Leave	1,429,998	1,429,998	-
Total Liabilities	848,062,424	854,582,986	(6,520,562)
Deferred inflows of resources:			
Contribution in Aid of Construction	646,937	646,937	-
Deferred inflows from pension	5,176,746	5,176,746	-
Deferred inflows from OPEB	25,852,937	25,852,937	-
Total Liabilities and Deferred Inflows of Resources	879,739,044	886,259,606	(6,520,562)
Net Assets	341,936,859	333,790,070	8,146,790
Total Liabilities, Deferred Inflows of Resources and Net Assets	1,221,675,903	1,220,049,676	1,626,228

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative Budget vs. Actual for the period ending February 29, 2024

SCHEDULE B

	Actual (Unaudited) February-24	Month to Date Budget February-24	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	6,423,882	6,706,635	(282,752)
Wastewater Revenues	3,509,268	3,652,565	(143,297)
Legislative Surcharge	316,624	327,945	(11,321)
Other Revenues	30,877	39,525	(8,648)
System Development Charge	20,422	102,000	(81,578)
Total Operating Revenues	10,301,074	10,828,670	(527,596)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	452,012	491,667	39,655
Power Purchases	1,778,286	1,935,131	156,844
Total Utility Costs	2,230,298	2,426,797	196,499
Salaries and Wages	1,488,300	1,825,560	337,260
Pension and Benefits	646,459	649,877	3,418
Total Salaries and Benefits	2,134,759	2,475,437	340,678
Capitalized Labor and Benefits	(221,399)	(346,595)	(125,196)
Net Salaries and Benefits	1,913,360	2,128,842	215,483
Administrative and General Expenses			
Sludge removal	95,429	27,993	(67,436)
Chemicals	141,161	159,944	18,784
Materials & Supplies	90,407	207,083	116,676
Transportation	37,973	64,580	26,607
Communications	8,766	13,268	4,501
Claims	-	14,917	14,917
Insurance	148,838	161,333	12,496
Training & Travel	30,369	16,763	(13,606)
Advertising	1,675	11,199	9,524
Miscellaneous	118,218	111,992	(6,226)
Regulatory Expense	17,706	18,250	544
Bad Debts Provision	(3,774)	188,520	192,294
Total Administrative and General Expense	686,766	995,841	309,075
Depreciation Expense	2,401,918	2,401,423	(495)
Contractual Expense			
Audit & Computer Maintenance	111,710	165,771	54,061
Building rental	48,680	50,264	1,583
Equipment rental	44,273	46,774	2,501
Legal	-	125,000	125,000
Laboratory	72,461	43,829	(28,632)
Other	100,974	190,403	89,428
Total Contractual Expense	378,099	622,041	243,942
Retiree Supp. Annuities and health care costs	270,995	252,159	(18,836)
Contribution to Government of Guam	58,458	60,809	2,350
Total Retiree Benefits	329,453	312,968	(16,485)
Total Operating Expenses	7,939,895	8,887,913	948,018
Earnings (Loss) from Operations	2,361,179	1,940,757	420,422
Interest Income - 2010/13/14/16/17/20 Series Bond	286,670	647,004	(360,334)
Interest Income - Other Funds	235,884	22,917	212,967
Interest Income - SDC	25,922	873	25,049
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,356,839)	(2,356,839)	-
Contributions from Local Government	-	-	-
Loss on Asset Disposal	(235,286)	(56,499)	(178,788)
Amortization of Discount, Premium and Issuance Costs	156,349	124,228	32,121
Defeasance due to bond refunding	(168,795)	(170,449)	1,654
Prior Year Adjustment	(2,102)	(7,229)	5,127
Total non-operating revenues (expenses)	(2,058,198)	(1,795,994)	(262,204)
Net Income (Loss) before capital contributions	302,980	144,762	158,218
Capital Contributions			
Grants from US Government	497,125	1,686,437	(1,189,312)
Grants from GovGuam & Others	-	8,937	(8,937)
Total Capital Contributions	497,125	1,695,374	(1,198,249)
Change in Net Assets	800,105	1,840,136	(1,040,031)
Debt Service Calculation			
Earnings From Operations	2,361,179	1,940,757	
System Development Charge	(20,422)	(102,000)	
Retiree COLA	58,458	60,809	
Interest/Investment Income	235,884	22,917	
Depreciation	2,401,918	2,401,423	
Plus withdrawals (deposits) to Rate Stabilization Fund	-	79,167	
ARPA Grant	-	-	
Balance Available for Debt Service per Section 6.12	5,037,017	4,403,072	
Debt Service			
Principal	896,667	896,667	
Interest	2,356,839	2,356,839	
Total	3,253,505	3,253,505	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.55	1.35	
Debt Service Coverage (1.30X) (PUC)	1.55	1.35	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending February 29, 2024 and February 28, 2023

SCHEDULE C

	Month to Date		Variance
	Actual (Unaudited)	Actual (Unaudited)	Increase /
	February-24	February-23	(Decrease)
OPERATING REVENUES			
Water Revenues	6,423,882	5,470,220	953,663
Wastewater Revenues	3,509,268	2,980,497	528,771
Legislative Surcharge	316,624	253,344	63,281
Other Revenues	30,877	44,627	(13,750)
System Development Charge	20,422	75,625	(55,203)
Total Operating Revenues	10,301,074	8,824,313	1,476,761
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	452,012	504,514	(52,502)
Power Purchases	1,778,286	2,246,165	(467,879)
Total Utility Costs	2,230,298	2,750,679	(520,381)
Salaries and Wages	1,488,300	1,422,102	66,198
Pension and Benefits	646,459	565,665	80,794
Total Salaries and Benefits	2,134,759	1,987,767	146,993
Capitalized Labor and Benefits	(221,399)	(254,621)	33,221
Net Salaries and Benefits	1,913,360	1,733,146	180,214
Administrative and General Expenses			
Sludge removal	95,429	74,950	20,479
Chemicals	141,161	151,691	(10,530)
Materials & Supplies	90,407	111,958	(21,551)
Transportation	37,973	40,872	(2,900)
Communications	8,766	11,459	(2,693)
Claims	-	4,542	(4,542)
Insurance	148,838	147,927	911
Training & Travel	30,369	7,000	23,369
Advertising	1,675	3,150	(1,475)
Miscellaneous	118,218	75,208	43,010
Regulatory Expense	17,706	25,545	(7,840)
Bad Debts Provision	(3,774)	174,081	(177,855)
Total Administrative and General Expense	686,766	828,383	(141,617)
Depreciation Expense	2,401,918	2,327,097	74,820
Contractual Expense			
Audit & Computer Maintenance	111,710	232,060	(120,350)
Building rental	48,680	50,661	(1,980)
Equipment rental	44,273	39,716	4,558
Legal	-	75,228	(75,228)
Laboratory	72,461	44,412	28,049
Other	100,974	112,164	(11,190)
Total Contractual Expense	378,099	554,240	(176,140)
Retiree Supp. Annuities and health care costs	270,995	251,643	19,352
Contribution to Government of Guam	58,458	56,100	2,358
Total Retiree Benefits	329,453	307,743	21,711
Total Operating Expenses	7,939,895	8,501,288	(561,394)
Earnings (Loss) from Operations	2,361,179	323,024	2,038,155
Interest Income - 2010/13/14/16/17/20 Series Bond	286,670	841,512	(554,842)
Interest Income - Other Funds	235,884	120,863	115,021
Interest Income - SDC	25,922	7,032	18,889
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,356,839)	(2,400,140)	43,301
Contributions from Local Government	-	1,850,000	(1,850,000)
Loss on Asset Disposal	(235,286)	-	(235,286)
Amortization of Discount, Premium and Issuance Costs	156,349	124,228	32,121
Defeasance due to bond refunding	(168,795)	(170,449)	1,654
Prior Year Adjustment	(2,102)	(81,750)	79,648
Total non-operating revenues (expenses)	(2,058,198)	291,296	(2,349,495)
Net Income (Loss) before capital contributions	302,980	614,321	(311,340)
Capital Contributions			
Grants from US Government	497,125	1,136,849	(639,724)
Total Capital Contributions	497,125	1,136,849	(639,724)
Change in Net Assets	800,105	1,751,170	(951,065)
Debt Service Calculation			
Earnings From Operations	2,361,179	323,024	
System Development Charge	(20,422)	(75,625)	
Retiree COLA	58,458	56,100	
Interest/Investment Income	235,884	120,863	
Depreciation	2,401,918	2,327,097	
Plus withdrawals (deposits) to Rate Stabilization Fund	-	-	
ARPA Grant	-	1,850,000	
Balance Available for Debt Service per Section 6.12	5,037,017	4,601,460	
Debt Service			
Principal	896,667	852,917	
Interest	2,356,839	2,400,140	
Total	3,253,505	3,253,056	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.55	1.41	
Debt Service Coverage (1.30X) (PUC)	1.55	1.41	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative Budget vs. Actual for the period ending February 29, 2024

SCHEDULE D

	Year to Date		Variance
	Actual (Unaudited)	Budget	Favorable /
	February-24	February-24	(Unfavorable)
OPERATING REVENUES			
Water Revenues	32,772,920	33,533,173	(760,253)
Wastewater Revenues	17,835,242	18,262,825	(427,582)
Legislative Surcharge	1,654,905	1,639,725	15,179
Other Revenues	169,228	197,625	(28,397)
System Development Charge	792,913	510,000	282,913
Total Operating Revenues	53,225,207	54,143,348	(918,140)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	2,154,535	2,458,333	303,799
Power Purchases	8,669,952	9,675,653	1,005,701
Total Utility Costs	10,824,487	12,133,987	1,309,500
Salaries and Wages	7,993,565	9,127,802	1,134,237
Pension and Benefits	3,331,909	3,249,384	(82,525)
Total Salaries and Benefits	11,325,474	12,377,186	1,051,712
Capitalized Labor and Benefits	(1,139,187)	(1,732,975)	(593,788)
Net Salaries and Benefits	10,186,287	10,644,211	457,924
Administrative and General Expenses			
Sludge removal	468,482	139,965	(328,517)
Chemicals	591,690	799,721	208,031
Materials & Supplies	487,227	1,035,414	548,187
Transportation	214,766	322,900	108,134
Communications	44,054	66,338	22,284
Claims	-	74,583	74,583
Insurance	744,189	806,667	62,478
Training & Travel	90,097	83,814	(6,283)
Advertising	12,455	55,994	43,539
Miscellaneous	620,831	559,961	(60,870)
Regulatory Expense	68,054	91,250	23,196
Bad Debts Provision	180,335	942,598	762,263
Total Administrative and General Expense	3,522,180	4,979,206	1,457,025
Depreciation Expense	12,018,126	12,007,115	(11,011)
Contractual Expense			
Audit & Computer Maintenance	706,798	828,857	122,059
Building rental	242,961	251,319	8,357
Equipment rental	156,411	233,871	77,460
Legal	96,603	625,000	528,397
Laboratory	182,784	219,146	36,362
Other	430,887	952,013	521,127
Total Contractual Expense	1,816,444	3,110,206	1,293,762
Retiree Supp. Annuities and health care costs	1,359,769	1,260,796	(98,972)
Contribution to Government of Guam	292,292	304,044	11,752
Total Retiree Benefits	1,652,060	1,564,840	(87,220)
Total Operating Expenses	40,019,584	44,439,565	4,419,981
Earnings (Loss) from Operations	13,205,623	9,703,783	3,501,841
Interest Income - 2010/13/14/16/17/20 Series Bond	4,495,498	3,235,020	1,260,478
Interest Income - Other Funds	1,054,624	114,583	940,040
Interest Income - SDC	70,342	4,365	65,977
Interest Expense - 2010/13/14/16/17/20 Series Bond	(11,784,194)	(11,784,194)	-
Contributions from Local Government	-	-	-
Loss on Asset Disposal	(239,497)	(282,494)	42,997
Amortization of Discount, Premium and Issuance Costs	781,745	621,140	160,605
Defeasance due to bond refunding	(843,977)	(852,246)	8,269
Prior Year Adjustment	(50,804)	(36,146)	(14,658)
Total non-operating revenues (expenses)	(6,516,262)	(8,979,971)	2,463,709
Net Income (Loss) before capital contributions	6,689,361	723,811	5,965,550
Capital Contributions			
Grants from US Government	1,457,429	8,432,183	(6,974,754)
Grants from GovGuam & Others	-	44,686	(44,686)
Total Capital Contributions	1,457,429	8,476,869	(7,019,440)
Change in Net Assets	8,146,790	9,200,680	(1,053,891)
Debt Service Calculation			
Earnings From Operations	13,205,623	9,703,783	
System Development Charge	(792,913)	(510,000)	
Retiree COLA	292,292	304,044	
Interest/Investment Income	1,054,624	114,583	
Depreciation	12,018,126	12,007,115	
Plus withdrawals (deposits) to Rate Stabilization Fund	-	395,833	
ARPA Grant	-	-	
Balance Available for Debt Service per Section 6.12	25,777,752	22,015,358	
Debt Service			
Principal	4,483,333	4,483,333	
Interest	11,784,194	11,784,194	
Total	16,267,527	16,267,527	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.58	1.35	
Debt Service Coverage (1.30X) (PUC)	1.58	1.35	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending February 29, 2024 and February 28, 2023

SCHEDULE E

	Year to Date		Variance
	Actual (Unaudited)	Actual (Unaudited)	Increase /
	February-24	February-23	(Decrease)
OPERATING REVENUES			
Water Revenues	32,772,920	28,284,354	4,488,566
Wastewater Revenues	17,835,242	14,738,415	3,096,827
Legislative Surcharge	1,654,905	1,288,466	366,439
Other Revenues	169,228	201,697	(32,469)
System Development Charge	792,913	637,914	154,999
Total Operating Revenues	53,225,207	45,150,846	8,074,361
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	2,154,535	2,646,897	(492,363)
Power Purchases	8,669,952	11,536,535	(2,866,583)
Total Utility Costs	10,824,487	14,183,432	(3,358,945)
Salaries and Wages	7,993,565	7,935,239	58,326
Pension and Benefits	3,331,909	3,105,696	226,213
Total Salaries and Benefits	11,325,474	11,040,934	284,540
Capitalized Labor and Benefits	(1,139,187)	(1,112,121)	(27,066)
Net Salaries and Benefits	10,186,287	9,928,813	257,474
Administrative and General Expenses			
Sludge removal	468,482	248,917	219,565
Chemicals	591,690	596,492	(4,802)
Materials & Supplies	487,227	543,799	(56,571)
Transportation	214,766	203,937	10,828
Communications	44,054	50,135	(6,082)
Claims	-	21,869	(21,869)
Insurance	744,189	739,634	4,555
Training & Travel	90,097	47,678	42,419
Advertising	12,455	17,742	(5,287)
Miscellaneous	620,831	497,295	123,536
Regulatory Expense	68,054	72,868	(4,814)
Bad Debts Provision	180,335	886,225	(705,890)
Total Administrative and General Expense	3,522,180	3,926,593	(404,412)
Depreciation Expense	12,018,126	11,906,118	112,008
Contractual Expense			
Audit & Computer Maintenance	706,798	833,621	(126,823)
Building rental	242,961	240,422	2,539
Equipment rental	156,411	213,344	(56,933)
Legal	96,603	218,997	(122,394)
Laboratory	182,784	147,731	35,053
Other	430,887	723,356	(292,469)
Total Contractual Expense	1,816,444	2,377,471	(561,027)
Retiree Supp. Annuities and health care costs	1,359,769	1,181,988	177,781
Contribution to Government of Guam	292,292	280,500	11,792
Total Retiree Benefits	1,652,060	1,462,488	189,572
Total Operating Expenses	40,019,584	43,784,914	(3,765,330)
Earnings (Loss) from Operations	13,205,623	1,365,932	11,839,691
Interest Income - 2010/13/14/16/17/20 Series Bond	4,495,498	3,429,528	1,065,970
Interest Income - Other Funds	1,054,624	478,171	576,453
Interest Income - SDC	70,342	10,524	59,818
Interest Expense - 2010/13/14/16/17/20 Series Bond	(11,784,194)	(12,000,699)	216,505
Contributions from Local Government	-	6,450,000	(6,450,000)
Loss on Asset Disposal	(239,497)	(225,995)	(13,502)
Amortization of Discount, Premium and Issuance Costs	781,745	621,140	160,605
Defeasance due to bond refunding	(843,977)	(852,246)	8,269
Prior Year Adjustment	(50,804)	(128,211)	77,408
Total non-operating revenues (expenses)	(6,516,262)	(2,217,789)	(4,298,474)
Net Income (Loss) before capital contributions	6,689,361	(851,856)	7,541,217
Capital Contributions			
Grants from US Government	1,457,429	7,882,596	(6,425,167)
Grants from GovGuam & Others	-	35,749	(35,749)
Total Capital Contributions	1,457,429	7,918,344	(6,460,916)
Change in Net Assets	8,146,790	7,066,488	1,080,302
Debt Service Calculation			
Earnings From Operations	13,205,623	1,365,932	
System Development Charge	(792,913)	(637,914)	
Retiree COLA	292,292	280,500	
Interest/Investment Income	1,054,624	478,171	
Depreciation	12,018,126	11,906,118	
Plus withdrawals (deposits) to Rate Stabilization Fund	-	1,300,000	
ARPA Grant	-	6,450,000	
Balance Available for Debt Service per Section 6.12	25,777,752	21,142,806	
Debt Service			
Principal	4,483,333	4,264,583	
Interest	11,784,194	12,000,699	
Total	16,267,527	16,265,282	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.58	1.30	
Debt Service Coverage (1.30X) (PUC)	1.58	1.30	

SCHEDULE F

Guam Waterworks Authority
Statement of Cash Flows (Unaudited)
FY2024

	YTD February 29, 2024	YTD September 30, 2023	Increase (Decrease)
Cash flows from operating activities:			
Cash received from trade and others	48,964,972	109,423,799	(60,458,827)
Cash payments to suppliers/contractors for goods and services	(16,187,496)	(46,036,276)	29,848,780
Cash payments to employees for services	(11,332,894)	(14,198,864)	2,865,970
Cash payments for retiree healthcare costs and other benefits	(1,652,060)	(3,560,495)	1,908,435
Net cash provided by operating activities	19,792,522	45,628,164	(25,835,642)
Cash flows from noncapital financing activities:			
Receipts from the Local Government operating grant	-	12,400,000	(12,400,000)
Proceeds from legal settlement	-	950,000	(950,000)
	-	13,350,000	(13,350,000)
Cash flows from capital and related financing activities:			
Contributed capital received (grants)	2,621,448	9,843,758	(7,222,310)
Acquisition of utility plant	(9,707,726)	(41,331,452)	31,623,726
Repayment of Long Term Debt	62,232	(10,235,000)	10,297,232
Interest expense	(14,254,068)	(28,801,678)	14,547,610
Net cash provided by (used in) capital and related financing activities	(21,278,115)	(70,524,372)	49,246,257
Cash flows from investing activities:			
Transfers from (to) restricted fund	(6,147,653)	11,442,493	(17,590,146)
Interest income received	5,620,464	11,604,779	(5,984,315)
Net cash provided by investing activities	(527,189)	23,047,272	(23,574,461)
Net increase (decrease) in cash	(2,012,782)	11,501,064	(13,513,846)
Unrestricted cash at beginning of the period	50,324,888	38,823,824	11,501,063
Unrestricted cash at end of period	48,312,106	50,324,888	(2,012,783)
Reconciliation of operating loss to net cash provided by operating activities:			
Operating Income (loss)	13,205,623	3,208,386	9,997,237
Adjustments to reconcile to net cash provided by operating activities:			
Depreciation expense	12,018,126	30,911,997	(18,893,871)
Bad debts (recovery)	180,335	421,467	(241,132)
Capitalized labor and benefits	(1,139,187)	(3,075,928)	1,936,741
Recovery of provision for inventory obsolescence	-	-	-
Non-cash pension costs	-	-	-
Other Non-cash adjustments	-	(323,071)	323,071
(Increase) decrease in assets:			
Accounts receivable	(4,280,976)	1,249,367	(5,530,343)
Materials and supplies inventory	143,830	(623,993)	767,823
Prepaid expenses	(366,691)	526,069	(892,760)
Regulatory Assets	-	(62,188)	62,188
Increase (decrease) in liabilities:			
Accounts payable	(570,972)	(177,966)	(393,006)
Accrued payroll and employee benefits	(7,420)	13,098,151	(13,105,571)
Customer deposits	20,741	(6,345)	27,086
Other liabilities	589,113	482,218	106,895
Net cash provided by operating activities	19,792,522	45,628,164	(25,835,642)

GUAM WATERWORKS AUTHORITY
Restricted and Unrestricted Cash Summary
FY2024

SCHEDULE G

Description	Unaudited February 29, 2024	Unaudited September 30, 2023	Increase (Decrease)
UNRESTRICTED			
Change Fund	2,000	2,000	-
Petty Cash	3,930	3,930	-
BOG Deposit Accounts	24,433,834	26,112,801	(1,678,967)
BOG O & M Reserve	14,782,493	14,477,230	305,263
BOG CapEx Fund	8,139,849	8,778,927	(639,078)
BOG Rate Stabilization Fund	950,000	950,000	-
Sub-total Unrestricted	48,312,106	50,324,888	(2,012,782)
RESTRICTED			
Bank Pacific	12,116	6,345	5,770
Bank of Hawaii	194,660	167,390	27,270
Community First FCU	898	2,538	(1,640)
First Hawaiian Bank	85,474	82,921	2,553
Bank Pacific Surcharge	1,571,768	6,863	1,564,905
Bank Pacific Escrow Deposit	958,758	958,711	48
BOG Customer Refunds	2,235,825	2,157,517	78,309
BOG Sewer Hookup Revolving Fund	2,146,668	2,079,769	66,899
BOG Operation and Maintenance Fund	3,083,482	3,083,482	-
BOG Revenue Trust	1,124,337	(137,922)	1,262,259
BOG Revenue Trust Fund	8,055,894	10,471,820	(2,415,926)
BOG Capital Improvement Revenue Fund	13,736,163	8,452,503	5,283,660
	33,206,043	27,331,937	5,874,106
BOG - SDC Deposit	1,249,199	1,125,796	123,404
BOG - SDC CDs	5,000,000	4,250,000	750,000
Total SDC	6,249,199	5,375,796	873,404
Total Restricted	39,455,242	32,707,733	6,747,510
Reserve Funds			
BOG Series 2013 Construction Fund	3,446,974	3,459,448	(12,474)
BOG Series 2016 Construction Fund	23,785,419	27,091,177	(3,305,759)
BOG Series 2017 Refunding Construction Fund	3,669,413	3,648,718	20,695
BOG Series 2020A Construction Fund	111,805,048	111,457,380	347,667
BOG CIF-Construction Fund Transfers	4,809,380	4,710,065	99,315
Total Restricted - Held by Trustee	147,516,233	150,366,788	(2,850,555)
BOG OMRRRF Fund	17,423,213	17,423,213	-
USB Series 2013 Debt Service Fund	2,839,487	1,494,615	1,344,872
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Reserve Fund	11,499,082	10,100,975	1,398,107
USB Series 2016 Debt Service Fund	1,919,382	2,061,782	(142,400)
USB Series 2016 Debt Service Reserve Fund	7,591,999	7,591,999	-
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	2,633,798	2,015,191	618,607
USB Series 2020A Debt Service Fund	1,238,192	1,753,543	(515,351)
USB Series 2020A Debt Service Reserve Fund	6,659,700	6,659,700	-
USB Series 2020B Debt Service Reserve Fund	1,087,362	1,540,498	(453,136)
Total Investments	72,490,363	70,239,665	2,250,698
Total Restricted and Unrestricted Cash	307,773,945	303,639,073	4,134,871

Guam Waterworks Authority
Accounts Receivable - Government (Active)
February 29, 2024

SCHEDULE H

A G I N G							
Customer Name	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total
Autonomous Agencies (Active)							
Guam Int'l Airport Authority	8	103	123	97	117	262,191	262,631
Guam Power Authority	25	33,286	32,392	-	-	-	65,678
Guam Housing & Urban Renewal Authority	10	6,361	-	-	-	-	6,361
Port Authority of Guam	5	2,062	-	-	-	-	2,062
Guam Solid Waste Authority	4	1,353	59	18	-	-	1,430
Guam Housing Corporation	1	46	-	-	-	-	46
Total Autonomous Agencies	53	43,211	32,574	115	117	262,191	338,208
Semi-Autonomous Agencies (Active)							
Guam Memorial Hospital Authority	3	48,598	49,333	44,355	50,317	13,856	206,459
University of Guam	48	118,274	-	-	-	-	118,274
Guam Environmental Protection Agency	2	75	-	-	-	-	75
Total Semi-Autonomous Agencies	53	166,946	49,333	44,355	50,317	13,856	324,807
Line Agencies (Active)							
Department of Education	51	361,008	367,197	318,764	72,125	190,039	1,309,133
Department of Corrections	9	107,051	99,835	5,690	-	-	212,576
Department of Parks & Recreation	13	71,059	29,251	26,698	3,626	-	130,634
Department of Public Works	10	33,794	2,535	8,656	97	74	45,157
Guam Fire Department	11	10,002	9,080	5,044	1,073	-	25,199
Department of Agriculture	7	5,957	4,931	4,876	4,929	2,300	22,993
Department of Public Health & Social Services	9	4,467	4,998	1,537	1,719	3,407	16,128
Guam Police Department	9	7,828	727	263	-	-	8,818
Department of Chamorro Affairs	7	4,069	2,843	321	-	-	7,233
Department of Military Affairs/GUARNG	1	5,739	0	-	-	-	5,739
Guam Homeland Security/Civil Defense	1	1,028	1,297	771	-	-	3,096
Department of Youth Affairs	3	2,404	-	-	-	-	2,404
Department of Mental Health and Substance	4	1,693	572	-	-	-	2,265
Guam Veterans Affairs Office	2	899	787	284	-	-	1,969
Department of Administration	3	1,183	148	154	143	-	1,628
Office of the Governor	2	1,424	-	-	-	-	1,424
Guam Public Library	6	1,341	78	-	-	-	1,419
Guam Visitors Bureau	2	638	-	-	-	-	638
Department of Customs & Quarantine	1	528	-	-	-	-	528
Office of Technology	1	225	-	-	-	-	225
Guam Energy Office	1	206	-	-	-	-	206
Total Line Agencies	153	622,540	524,278	373,059	83,712	195,820	1,799,410
Other Government of Guam Entities (Active)							
Mayors Council of Guam	63	19,267	16,370	16,678	11,960	13,269	77,544
The Office of the Dededo Mayor	1	1,538	806	375	585	348	3,651
Superior Court of Guam	2	1,041	-	-	-	-	1,041
Judiciary of Guam	4	271	-	-	-	-	271
Merizo Mayor	1	126	127	-	-	-	253
Total Other Government of Guam Entities	71	22,242	17,303	17,053	12,544	13,617	82,759
Total as of February 29, 2024 (Active)	330	854,940	623,489	434,581	146,690	485,484	2,545,185

GWA Work Session - March 19, 2024 - GWA GM REPORT

GUAM WATERWORKS AUTHORITY
Accounts Receivable Aging Summary by Rate Class
As of February 29, 2024

SCHEDULE I

ACTIVE AND INACTIVE

Rate Class	A G I N G							
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
Government	441	\$ 3,259,634	\$ 714,829	\$ 471,551	\$ 169,195	\$ 703,743	\$ 5,318,953	22%
Agriculture	417	41,497	10,948	5,616	3,467	27,384	88,913	0%
Commercial I	2,685	1,752,068	77,176	179,420	71,377	533,808	2,613,849	11%
Commercial II	53	299,765	5,546	3,514	185	80,916	389,926	2%
Commercial III	290	722,617	69,135	107,123	50,491	326,608	1,275,974	5%
Golf Course	16	14,933	988	675	650	18,787	36,033	0%
Hotel	55	2,469,534	42,173	49,128	39,572	688,612	3,289,018	13%
Irrigation	32	4,006	460	110	-	1,295	5,872	0%
Residential	47,622	4,364,795	831,912	457,515	344,276	5,566,451	11,564,948	47%
	51,611	12,928,850	1,753,167	1,274,651	679,213	7,947,605	24,583,486	100%
		53%	7%	5%	3%	32%		

Less Allowance for Doubtful Accounts: (9,582,684)
Net Accounts Receivable: **15,000,802**

Days Receivables Outstanding **39**

As of January 31, 2024

Rate Class	A G I N G							
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
Government	442	\$ 1,742,947	\$ 824,632	\$ 646,094	\$ 135,984	\$ 2,415,570	\$ 5,765,227	23%
Agriculture	418	30,728	8,268	4,403	2,155	27,656	73,210	0%
Commercial I	2,690	1,534,286	246,484	94,899	143,454	468,485	2,487,609	10%
Commercial II	38	254,716	31,272	4,049	185	80,916	371,138	2%
Commercial III	289	637,984	133,834	54,910	40,843	316,108	1,183,679	5%
Golf Course	16	15,119	675	650	1,331	18,317	36,093	0%
Hotel	55	2,241,445	116,219	85,334	2,702	695,888	3,141,587	13%
Irrigation	32	2,741	501	446	80	1,295	5,063	0%
Residential	47,527	4,292,814	864,264	522,366	346,624	5,505,064	11,531,133	47%
	51,507	10,752,779	2,226,150	1,413,153	673,360	9,529,299	24,594,740	100%
		44%	9%	6%	3%	39%		

Less Allowance for Doubtful Accounts: (9,582,684)
Net Accounts Receivable: **15,012,056**

Days Receivables Outstanding **39**

ACTIVE ONLY

Rate Class	A G I N G							
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
Government	440	\$ 3,259,634	\$ 714,829	\$ 471,551	\$ 169,195	\$ 701,853	\$ 5,317,063	27%
Agriculture	396	37,627	7,642	3,397	3,144	3,538	55,348	0%
Commercial I	2,548	1,744,191	75,774	176,742	65,797	280,510	2,343,015	12%
Commercial II	38	299,765	5,546	3,514	185	80,916	389,926	2%
Commercial III	275	720,579	68,659	103,684	49,074	290,093	1,232,089	6%
Golf Course	16	14,933	988	675	650	18,787	36,033	0%
Hotel	53	2,469,534	42,173	49,128	39,572	48,090	2,648,496	14%
Irrigation	31	4,006	460	110	-	-	4,577	0%
Residential	40,254	4,271,072	780,973	406,665	282,105	1,596,984	7,337,799	38%
	44,051	12,821,342	1,697,045	1,215,466	609,723	3,020,771	19,364,346	100%
		66%	9%	6%	3%	16%		

Less Allowance for Doubtful Accounts: (9,582,684)
Net Accounts Receivable: **9,781,662**

Rate Class	A G I N G							
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
Government	441	\$ 1,742,947	\$ 824,632	\$ 646,094	\$ 135,984	\$ 2,413,680	\$ 5,763,337	30%
Agriculture	398	30,728	8,268	4,403	1,725	4,115	49,240	0%
Commercial I	2,549	1,530,252	245,253	91,324	138,428	220,228	2,225,484	11%
Commercial II	38	254,716	31,272	4,049	185	80,916	371,138	2%
Commercial III	276	637,931	133,803	54,879	40,809	278,379	1,145,800	6%
Golf Course	16	15,119	675	650	1,331	18,317	36,093	0%
Hotel	53	2,241,445	116,219	85,334	2,702	55,365	2,501,065	13%
Irrigation	31	2,741	501	446	80	-	3,768	0%
Residential	40,209	4,224,884	817,056	466,680	277,436	1,618,967	7,405,021	38%
	44,011	10,680,762	2,177,678	1,353,859	598,682	4,689,967	19,500,947	100%
		55%	11%	7%	3%	24%		

Less Allowance for Doubtful Accounts: (9,582,684)
Net Accounts Receivable: **9,918,264**

GUAM WATERWORKS AUTHORITY
Accounts Payable Aging

SCHEDULE J

<u>As of</u>	<u>AGING</u>								<u>Days Payable Outstanding</u>
	Current	31 - 60 Days	61 - 90 Days	91 - 120 Days	> 120 Days	Total			
February 29, 2024	\$ 2,854,347 76%	\$ 131,602 4%	\$ 54,758 1%	\$ 138,639 4%	\$ 579,365 15%	\$ 3,758,711 100%			38
January 31, 2024	\$ 2,674,753 74%	\$ 174,117 5%	\$ 142,961 4%	\$ 104,700 3%	\$ 508,528 14%	\$ 3,605,059 100%			38
December 31, 2023	\$ 2,681,118 64%	\$ 334,474 8%	\$ 336,958 8%	\$ 374,018 9%	\$ 491,783 12%	\$ 4,218,351 100%			40

GUAM WATERWORKS AUTHORITY
WATER DEMAND BY RATE CLASS
FY2015 - FY2024

SCHEDULE K

CLASS	AUDITED								UNAUDITED	Annualized Based on 5 months	% Inc / (Dec.)
	FY2015 TOTAL CONSUMPTION (kGal)	FY2016 TOTAL CONSUMPTION (kGal)	FY2017 TOTAL CONSUMPTION (kGal)	FY2018 TOTAL CONSUMPTION (kGal)	FY2019 TOTAL CONSUMPTION (kGal)	FY2020 TOTAL CONSUMPTION (kGal)	FY2021 TOTAL CONSUMPTION (kGal)	FY2022 CONSUMPTION (kGal)*	FY2023 TOTAL CONSUMPTION (kGal)	FY2024 TOTAL CONSUMPTION (kGal)	
R Residential	3,415,662	3,429,689	3,206,811	3,313,613	3,359,905	3,712,723	3,622,617	3,450,574	3,185,230	3,079,278	11%
C Commercial	1,020,089	1,022,890	964,639	910,905	906,192	822,029	786,054	818,460	816,393	859,560	-9%
F Federal	1,168	1,180	2,508	1,813	1,602	1,338	2,069	1,389	1,099	1,322	-16%
G Government	515,974	475,366	448,430	450,165	405,980	408,502	404,026	470,581	445,116	424,317	1%
H Hotel	999,116	1,008,087	1,004,525	989,723	1,079,919	714,161	448,034	462,757	554,767	624,227	-34%
G Golf	6,850	6,770	5,252	2,741	2,793	5,835	2,855	3,796	6,415	925	109%
A Agriculture	67,376	78,628	69,482	81,127	90,803	84,492	68,805	65,719	49,748	61,161	-7%
I Irrigation	<u>10,385</u>	<u>11,351</u>	<u>10,143</u>	<u>8,504</u>	<u>7,896</u>	<u>8,654</u>	<u>5,404</u>	<u>4,888</u>	<u>3,242</u>	<u>3,257</u>	10%
GRAND TOTAL	<u>6,036,620</u>	<u>6,033,960</u>	<u>5,711,790</u>	<u>5,758,590</u>	<u>5,855,091</u>	<u>5,757,733</u>	<u>5,339,864</u>	<u>5,278,164</u>	<u>5,062,012</u>	<u>5,054,048</u>	-2%

Guam Waterworks Authority
System Development Charges Project Status
As of February 29, 2024

SCHEDULE L

Funding Summary

Total available project funds	\$ 18,393,152
Total project expenditures and encumbrances	12,445,814
Total unobligated project funds	\$ 5,947,338

Projects Funded

Project Description	Expenditures	Outstanding Encumbrances	Expenditures and Encumbrances
Agat-Santa Rita Wastewater Treatment Plant Replacement	1,202,006	-	1,202,006
Baza Gardens Wastewater Cross Island Pumping & Conveyance	1,151,116	2,854	1,153,971
Central Guam Reservoirs	276,008	4,032	280,040
Line Replacement Phase IV	256,937	-	256,937
Northern District WWTP	7,552,513	-	7,552,513
Northern District WWTP (Land Purchase)	1,000,000	-	1,000,000
Route 4 Relief Sewerline Rehab & Replacement	519,227	-	519,227
South Paulino Heights Waterline Upgrade	84,056	4,714	88,770
Talofofo Sewer Improvement	-	241,142	241,142
Groundwater Well Production Meter Rep.	143,647	7,560	151,207
	\$ 12,185,510	\$ 260,303	\$ 12,445,814

Future planned projects

FY 2024-2025

Water Distribution System Pipe Replacement & Upgrades	500,000
Capacity Enhancement - Well Development and Construction Progr	394,000
Well Repair Program	200,000
	\$ 1,094,000