

CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority | Guam Waterworks Authority P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | guamccu.org

GUAM WATERWORKS AUTHORITY WORK SESSION

CCU Conference Room 4:30 p.m., Tues., August 20 2019

AGENDA

1. ISSUES FOR DECISION

- 1.1 Relative to Approval of the Contract with JMI-Edison for the Purchase of Splicing Gels and Submersible Cables for Islandwide Deepwell Water Production / Resolution No. 40-FY2019
- 1.2 Relative to Approval of the Construction Contract for the Santa Rosa, Santa Rita and Sinifa Reservoir Replacement with AIC International Inc. / Resolution No. 41-FY2019
- 2. GM REPORT
 - 2.1 GM Summary
- 3. ISSUES FOR DISCUSSION
- 4. DIVISION REPORTS
 - 4.1 Communications
 - 4.2 Compliance & Safety
 - 4.3 Customer Service
 - 4.4 Engineering
 - 4.5 Finance
 - 4.6 **Operations**

5. ANNOUNCEMENTS

- 5.1 Next CCU Meetings: GPA WS 8/22/19 4:30 p.m.; GWA CCU Regular Monthly Mtg. 8/27/19 5:30 p.m.; GPA CCU Regular Monthly Mtg. 8/29/19 5:30 p.m.
- 6. ADJOURNMENT



"Better Water, Better Lives."

Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913

Tel: (671) 300-6846

Issues for Decision

Resolution No. 40-FY2019

Relative to the Approval of the Contract with JMI-Edison for the Purchase of Submersible Cables and Splicing Gels for Water Production Division deepwell facilities Island-wide.

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

This approval requested in this resolution will authorize the purchase splicing gels and submersible cables of various sizes utilized for pump and motor maintenance activities at the over 100 existing water wells at various locations island wide. The purchases under this authorization will be used to replenish stock levels of these gels and submersible cables at the warehouse to ensure adequate quantities are available at all times to repair production wells and insure consistent and stable water supply. The project is necessary and urgent to maintain critical inventory levels.

Where is the location?

The materials to be procured under this authorization will be utilized at GWA Deep-well Production Facilities Island-wide.

How much will it cost?

Seven Hundred Fifty-Four Thousand Three Hundred Seventy-One Dollars (\$754,371.00).

| Bid Item No | Description | UOM | Est Qty | Unit Cost | Amount | Notes |
|----------------|--|-------|-----------------------------------|-------------|--------------|------------------|
| 1.0 | Splicing Gel 3M 21.8 oz | case | 5 | \$1,115.00 | \$5,575.00 | 10 pack per case |
| 2.0 | Splicing Gel 3M 10.0 oz | case | 5 | \$630.00 | \$3,150.00 | 10 pack per case |
| 3.0 | Paige Part No. 020076 2 AWG Conductor Size 3 Insulated Conductors 6 AWG Grounding Conductor Size | spool | 4 | \$2,665.00 | \$10,660.00 | 500 ft per spool |
| 4.0 | Paige Part No. 020078 1 AWG Conductor Size 3 Insulated Conductors 6 AWG Grounding Conductor Size | spool | 4 | \$6,082.00 | \$24,328.00 | 500 ft per spool |
| 5.0 | Paige Part No. 020106 3/0 AWG Conductor Size 3 Insulated Conductors 6 AWG Grounding Conductor Size | spool | 4 | \$9,263.00 | \$37,052.00 | 500 ft per spool |
| 6.0 | Paige Part No. 070002 2 AWG Conductor Size 3 Insulated Conductors 5 AWG Grounding Conductor Size | spool | 4 | \$6,160.00 | \$24,640.00 | 500 ft per spool |
| 7.0 | Paige Part No. 070040 4/0 AWG Conductor Size 3 Insulated Conductors 1/0 AWG Grounding Conductor Size | spool | 4 | \$17,020.00 | \$68,080.00 | 500 ft per spool |
| 8.0 | Paige Part No. 070250 250 AWG Conductor Size 3 Insulated Conductors 2/0 AWG Grounding Conductor Size | spool | 4 | \$19,493.00 | \$77,972.00 | 500 ft per spool |
| | | | Annual Estimated Total Cost | | \$251,457.00 | |
| | Three Year Contract | | 3 Year Estimated Total Cost | | \$754,371.00 | |

^{*} Item 1.0 to 8.0 Delivery Date: 10-12 weeks.

^{**} Item 1.0 to 8.0 Warranty; 1 year upon delivery date.

When will it be completed?

The indefinite quantity contract will be in place for an initial term of three (3) years with two (2) one-year options to renew. Purchases will be on an as-needed basis over the contract term.

What is the funding source(s)?

FY2019 / FY2020 GWA Water Production and Treatment Operations and Maintenance Budget (revenue funded).

The RFP / Bid Responses

IFB 2019-18 Submersible Cables and Splicing Gels. Ten (10) bidders registered for the procurement. Of the ten (10) entities, only one (1) submitted a bid: JMI Edison.



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. 40-FY2019

RELATIVE TO APPROVAL OF THE CONTRACT WITH JMI-EDISON FOR THE PURCHASE OF SPLICING GELS AND SUBMERSIBLE CABLES FOR ISLANDWIDE DEEPWELL WATER PRODUCTION

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 advertised an Invitation for Bid (IFB) 2019-18 soliciting bid proposals from experienced and responsive bidders to provide submersible cables of various sizes and splicing gels for GWA deepwell production facilities and to provide adequate stock replenishment as needed to maintain continuity of island wide water services; and

WHEREAS, ten entities registered for the bid procurement, and there was one responsive and responsible bidder who met the bid requirements of IFB 2019-18; and

WHEREAS, the IFB 2019-18 offers were evaluated by GWA's review committee, who determined that the offer for splicing gels and submersible cables made by JMI-Edison is fair and reasonable on the basis of comparison to historical procurement data [EXHIBIT A]; and

WHEREAS, GWA accepted JMI-Edison's indefinite quantity bid proposal Submersible Cables and Splicing Gels [EXHIBIT B] for the quantities estimated for the initial three-year term at an estimated total amount of Seven Hundred Fifty-Four Thousand Three Hundred Seventy-One Dollars (\$ 754,371.00) [EXHIBIT B]; and

 WHEREAS, GWA Management seeks CCU Approval of the estimated three-year Contract amount of Seven Hundred Fifty-Four Thousand Three Hundred Seventy-One Dollars (\$754,371.00) for the purchase of Submersible Cables and Splicing Gels; and

WHEREAS, the source of funding for the Splicing Gels and Submersible Cables will be from FY 2019 / FY 2020 GWA Water Production and Treatment Operations and Maintenance Budget.

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 bid proposal submitted by "JMI-Edison" are fair and reasonable.
- 3. The CCU hereby authorizes the management of GWA to proceed based on the notice of award to "JMI-Edison" attached hereto as EXHIBIT B, and which is incorporated into this Resolution in its entirety.
- 4. The CCU hereby further authorizes the management of GWA to enter into a contract with "JMI Edison", to purchase up to Seven Hundred Fifty-Four Thousand Three Hundred Seventy-One Dollars (\$ 754,371.00) worth of Splicing Gels and Submersible Cables on as needed basis for the contract amount on IFB 2019-18, for the duration of the initial contract term of three (3) years as specified in the IFB 2019-18 "Indefinite Quantity Bid", and two (2) one-year options to renew, subject to availability of funds and agreement between the parties.
- 5. The CCU hereby approves the funding total of Seven Hundred Fifty-Four Thousand Three Hundred Seventy-One Dollars (\$ 754,371.00) [EXHIBIT B];
- GWA Management is hereby authorized to seek PUC approval in the event the contract value exceeds One Million Dollars (\$1,000,000.00) as required by Docket 00-04.

| DULY AND REGULARLY ADOPTED, this 27th day of August, 2019. Certified by: Attested by: JOSEPH T. DUENAS Chairperson SECRETARY'S CERTIFICATE I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilitie 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 reg meeting by the members of the Guam Consolidated Commission on Utilities, duly legally held at a place properly noticed and advertised at which meeting a quorum present and the members who were present voted as follows: AYES: NAYS: ABSTENTIONS: ABSENT: | | RESOLVED, that the Chairman | certified and the Board Secretary attests to the adop |
|---|---------|---|--|
| Certified by: JOSEPH T. DUENAS MICHAEL T. LIMTIACO | of this | Resolution. | |
| JOSEPH T. DUENAS Chairperson SECRETARY'S CERTIFICATE I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilitie 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 reg meeting by the members of the Guam Consolidated Commission on Utilities, duly legally held at a place properly noticed and advertised at which meeting a quorum present and the members who were present voted as follows: AYES: NAYS: ABSTENTIONS: ABSENT: | | DULY AND REGULARLY AD | OPTED , this 27 th day of August, 2019. |
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| NAYS: ABSTENTIONS: ABSENT: | | | |
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EXHIBIT A



GUAM WATERWORKS AUTHORITY

Gloria B. Nelson Public Service Building 688 Route 15, Mangilao GU, 96913

NOTICE OF CONDITIONAL AWARD

Date: JUL 1 9 2019

JMI Edison 125 North Marine Drive P.O. Box 6577 Tamuning, Guam 96931 Phone-#671-646.6400 Fax-#671-649,4835

Re: Invitation for Bid Number: GWA IFB-2019-18

For: Splicing Gels and Submersible Electrical Cables (IDQ)

Hafa Adai Mr. Romeo Oriondo,

The Guam Waterworks Authority ("GWA") has considered the bid submitted by JMI Edison Guam, for the above described reference in response to its Advertisement for Bids dated April 30, 2019 you are hereby notified of your bid offer on all Item Numbers 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0 and 8.0, been accepted by GWA. Please be advised that you must now deliver all other documents required by the bid, including, but not limited to:

- Proof of Insurance: (if applicable/required part of the bid requirements.)
- Performance and Payment Bond: (if applicable/required part of the bid requirements.)

(Which must remain in full force and effect until all performance has ended, which includes all warranty periods).

You are also advised that any obligation incurred by your firm prior to execution of the contract is entirely at your own risk and GWA shall have no obligation to reimburse costs incurred prior to execution of the contract

Please note this Notice of Award is conditional on obtaining the approval of the Guam Consolidated Commission on Utilities for any award over \$750,000 and the approval of the Guam Public Utilities Commission where the total value over the life of the contract could exceed \$1M. Also, award is conditional upon providing proof of business license required to be submitted to GWA under the Bid or Guam law.

You are required to return an acknowledged copy of this Conditional Notice of Award to GWA Procurement Office.

Sincerely,

Miguel C. Bordallo. P.E.

General Manager

ACCEPTANCE OF CONDITIONAL NOTICE OF AWARD

Receipt of the above Notice of Conditional Award for GWA IFB No. GWA 2019-18 is hereby

Title:

acknowledged

Simulation of the state of the

(Diago Drint)

Dated this

_ day of

, 2019

***** END OF CONDITIONAL NOTICE OF AWARD *****



"Better Water. Better Lives." Gloria B. Nelson Public Services Building 688 Route 15, Mangilao, Guam 96913



MEMORANDUM

TO:

General Manager

VIA:

Supply Management Administrator

FROM:

Evaluation Committee Members

SUBJECT: Invitation to Bid No. GWA 2019-18

Ref: Splicing Gels & Submersible Electrical Cables (IDO)

REF:

Recommendation of Award

DATE:

Invitation for Bid No: GWA 2019-18 was officially announced and advertised in the Pacific Daily News, The Guam Daily Post and Guam Waterworks Authority Website on April 30, 2019 and open as scheduled on May 21, 2019 @ 10:00 am. Ten (10) prospective bidders expressed interest, they are as follow:

Bidders Register:

dsdsfas

Indigo Piping Systems

2. bid

7. adada

3. America's Best Electricmart, Inc.

8. Guam Pacific Enterprises, Inc.

4. ajay

9. Engineered Systems Inc.

5. Ab

10. JMI Edison

Of the ten (10) only One (1) submitted a sealed bid, namely:

JMI Edison Guam

An evaluation committee convene on May 28, 2019 @ 2:00 pm, and after clarifying with JMI Edison's Total Cost on Line Item No. 8 and Delivery Date, the committee members recommend to consider and request your approval to waive, authorized by Procurement Law Policy and procedures JMI Edison's Date of Delivery offer of 10-12 weeks ARO a total of 80 calendar days from 60 days Date of Delivery as stated on the bid. Since JMI Edison is the only bidder who submitted a bid package and based on the reason given by JMI ". Lead time is six weeks plus transit

time to Guam. Would it be possible to request for 10-12 weeks delivery to Guam?". Therefore, the committee members respectfully recommend to move forward with the award set forth in the IFB.

I. BID ITEM(s)

| ITEM NO | DESCRIPTION | EST. QTY | UNIT COST | EXTENSION |
|---------|----------------------------|--------------------------|-----------------|------------|
| 1.0 | SPLICING GEL 3M 21.8 OZ | 5 CASE (10 pack/case) | \$1,115.00 | \$5,575.00 |
| 2.0 | SPLICING GEL 3M 10.0 OZ | 5 CASE (10 pack/case) | <u>\$630.00</u> | \$3,150.00 |

BIDDING ON:

MFG: 3M Electric

BRAND: 3M

PLACE OF ORIGIN: U.S.A.

DATE OF DELIVERY: 8 weeks

(AFTER RECEIPT OF PURCHASE ORDER)

| ITEM NO | DESCRIPTION | EST. QTY | UNIT COST | EXTENSION |
|---------|--|----------|-------------------|-------------|
| 3.0 | SUBMERSIBLE ELECTRICAL CABLE (500 ft. per spool) Paige Part No. 020076 2 AWG Conductor Size 3 Insulated Conductors 6 AWG Grounding Conductor Size | 4 EA | <u>\$2,655.00</u> | \$10,660.00 |
| 4.0 | SUBMERSIBLE ELECTRICAL CABLE (500 ft. per spool) Paige Part No. 020078 1 AWG Conductor Size | 4 EA | <u>\$6,082.00</u> | \$24,328.00 |
| | 3 Insulated Conductors 6 AWG Grounding Conductor Size | | | |
| 5.0 | SUBMERSIBLE ELECTRICAL CABLE (500 ft. per spool) Paige Part No. 020106 | 4 EA | \$9,263.00 | \$37,052.00 |

\$6,160.00

\$17,020.00

\$19,493.00

\$24,640.00

\$68,080.00

\$77,972.00

4 EA

4 EA

4 EA

3/0 AWG Conductor Size 3 Insulated Conductors 6 AWG Grounding Conductor Size

6.0 SUBMERSIBLE
ELECTRICAL CABLE
(500 ft. per spool)
Paige Part No. 070002
2 AWG Conductor Size
3 Insulated Conductors

5 AWG Grounding Conductor Size

7.0 SUBMERSIBLE
ELECTRICAL CABLE
(500 ft. per spool)
Paige Part No. 070040
4/0 AWG Conductor Size
3 Insulated Conductors
1/0 AWG Grounding
Conductor Size

8.0 SUBMERSIBLE
ELECTRICAL CABLE
(500 ft. per spool)
Paige Part No. 070250
250 AWG Conductor Size
3 Insulated Conductors
2/0 AWG Grounding
Conductor Size

BIDDING ON:

MFG: Paige Electric

BRAND: Paige

PLACE OF ORIGIN: U.S.A.

DATE OF DELIVED V. 0 TO 10 WEEVE

(AFTER RECEIPT OF PURCHASE ORDER)

CONTRACT TERM:

Initial contract term for three (3) years.

Grand Total: \$251,457.00 (Annually)

Three (3) Year Contract: \$754,371.00

End of Evaluation.

NOTE: Subject for CCU approval.

Concurred and accepted by the committee members:

Your approval is greatly appreciated.

Reviewed by legal:

In consideration of the foregoing, please indicate your approval of this recommendation by your signature below.

CONCURRED [] UNCONCURRED

VINCENT ED. GUERRERO, SMA

[] DISAPPROVED



"Better Water, Better Lives."

Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913

Tel: (671) 300-6846

Issues for Decision

Resolution No. 41-FY2019

Relative to Approving the Construction Contract for the Santa Rosa, Santa Rita, and Sinifa Reservoir Replacement

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

The project is spread across three different water reservoir sites, including a new booster pump station and various control valve and line upgrades. The reservoirs are listed under the U.S. District Court Order. The following describes the project locations and general scope of work.

Santa Rosa Reservoir

Base Bid Items 1 to 6:

- A new Santa Rosa Reservoir (1.0 MG) will be constructed adjacent to the existing steel tank. Work will include the new reservoir, new booster pump station, off-site improvements and various site upgrades.
- The existing booster pump station will be demolished and replaced with a new building structure, piping, pump system, instrumentation, controls, and a SCADA system.
- Once the new reservoir has been constructed, the existing steel reservoir will be taken
 offline for inspection. After the API and structural inspection, the steel tank will be either
 repaired or demolished.
- Work will also occur at several off-site locations (6 locations). The work consists of line interconnections and installation of new valves. The work is in line with the Pressure Zone Realignment plan.

Additive Bid Items 7 and 8:

 The work includes the construction of the Department of Defense inter-tie on GWA and possibly DoD property. Work is separated into two bid items. Additive Bid Item 7 is for work within GWA property, while Additive Bid Item 8 is for work within DoD property.

Additive Bid Item 9:

• The work includes the construction of 4,042 L.F. of 12" waterline on Route No. 1.

Additive Bid Item 10 and 11:

- The work includes the demolition of the existing steel tank and disposal of the oiled sand foundation in accordance with applicable regulations.
- The inclusion of the additive work will be determined after the API and structural inspections have been conducted.

Santa Rita Reservoir

Base Bid Items 1 to 6:

 The existing steel reservoir will be demolished and replaced with a new concrete reservoir (1.0 MG). Work will include the construction of the new reservoir, repair of the existing reservoir driveway entrance, construction of a new control building, and various site upgrades.

Additive Bid Item 7:

- The work includes construction of Pressure Zone Realignment sites 1 to 12. The work consists of:
 - o repairing or replacing PRV vaults, piping and valves
 - o construction of new PRV vaults, piping, and valves
 - o new lines to interconnect existing lines

The work is in line with the Pressure Zone Realignment plan.

Additive Bid Item 8:

 Removal and disposal of existing steel tank foundation oiled sand in accordance with applicable regulations. This will be determined after the new reservoir has been constructed and the existing reservoir taken offline for demolition.

Sinifa Reservoir

Base Bid Items 1 to 5:

- A new Sinifa reservoir (1.0 MG) will be constructed adjacent to the existing steel tank.
 Work include the new reservoir, construction of a new control building, and various site upgrades.
- Once the new reservoir has been constructed, the existing steel reservoir will be taken
 offline for inspection. After the API and structural inspection, the steel tank will be either
 repaired or demolished.

Additive Bid Items 6 and 7:

- The work includes demolition of the existing steel tank and disposal of the oiled sand foundation in accordance with applicable regulations.
- The inclusion of the additive work will be determined after the API and structural inspections have been conducted.

Where is the project located?

- Santa Rosa Reservoir and Booster Pump Station is located in Yigo.
- Santa Rita Reservoir is located in Santa Rita.
- Sinifa Reservoir is located in Santa Rita.

How much will it cost?

The Base bid proposal submitted by AIC International, Inc. is \$26,417,650.00, with a 10% contingency of \$2,641,765.00, the total project funding amount will be \$29,059,415.00.

When will it be completed?

One Notice to Proceed (NTP) shall be issued for the entire project.

Santa Rosa Reservoir

- 1. Santa Rosa Reservoir, Base Bid Substantial Completion: The Contractor shall begin work upon issuance of the Notice to Proceed (NTP) and the base bid work shall be substantially completed as specified no later than 395 calendar days from NTP.
- 2. Santa Rosa Bid Items 7 & 8 (Additive), if awarded, will add thirty (30) calendar days from the NTP to the Santa Rosa Reservoir Base Bid Substantial Completion.
- 3. Santa Rosa Bid Item 9 (Additive), if awarded, will add thirty (30) calendar days from the NTP to the Santa Rosa Reservoir No. 2 Base Bid Substantial Completion.
- 4. Santa Rosa Bid Item 10 (Additive), if awarded, will add thirty (30) calendar days from the NTP to the Santa Rosa Reservoir Base Bid Final Completion.
- 5. Santa Rosa Bid Item 11 (Additive), if awarded, will add zero (0) calendar days from the NTP to the Santa Rosa Reservoir Base Bid Substantial Completion.

Santa Rita Reservoir

- 1. Santa Rita Reservoir Base Bid Substantial Completion: The Contractor shall begin work upon issuance of the Notice to Proceed (NTP) and the base bid work shall be substantially completed as specified no later than 425 calendar days from NTP.
- 2. Santa Rita Bid Item 7 (Additive), if awarded, will add thirty (30) calendar days from the NTP to the Santa Rita Reservoir Base Bid Substantial Completion.
- 3. Santa Rita Bid Item 8 (Additive), if awarded, will add zero (0) calendar days from the NTP to the Santa Rita Reservoir Base Bid Substantial Completion.

Sinifa Reservoir

- 1. Sinifa Reservoir Base Bid Substantial Completion: The Contractor shall begin work upon issuance of the Notice to Proceed (NTP) and the base bid work shall be substantially completed as specified no later than 365 calendar days from NTP.
- 2. Sinifa Bid Item 6 (Additive), if awarded, will add thirty (30) calendar days from the NTP to the Sinifa Reservoir Base Bid Final Completion.
- 3. Sinifa Bid Item 7 (Additive), if awarded, will add zero (0) calendar days from the NTP to the Sinifa Reservoir Base Bid Substantial Completion.

What is the funding source?

The funds for this project will be bond, grant, SDC and/or internally funded CIP funds from the various CIP line items identified below:

- 1. PW 09-11: Water System Reservoirs 2005 Improvements
- 2. PW 05-06: Water Booster Pump Station
- 3. PW 09-03: Water Distribution System Pipe Replacement and upgrades
- 4. PW 09-04: Pressure Zone Realignment/Development 2005 Improvements



GWA RESOLUTION NO. 41-FY2019

RELATIVE TO APPROVING THE CONSTRUCTION CONTRACT FOR THE SANTA ROSA, SANTA RITA, AND SINIFA RESERVOIR REPLACEMENT

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 currently has a number of critical Court Order ("CO") Projects, including the construction (i.e. repair, rehabilitate, replace or relocate) of the Santa Rosa, Santa Rita, and Sinifa Reservoirs, as stated in Paragraph 29 (b) (4), (5), and (6) of the Court Order; and

WHEREAS, in compliance with the Court Order, GWA intends to execute a construction project to address the following:

- 1. The construction of the new Santa Rosa reservoir (1.0 MG) and booster pump station; and
- 2. The construction of the new Santa Rita reservoir (1.0 MG) to replace the existing Santa Rita steel tank; and
- 3. The construction of the new Sinifa reservoir (1.0 MG) to replace the existing Sinifa steel tank; and

WHEREAS, GWA has advertised an Invitation for Bid (IFB) soliciting bid proposal from experienced, responsible, and responsive bidders to construct the Santa Rosa reservoir and booster pump station, Santa Rita reservoir, Sinifa reservoir, and off-site work in the Base Bid, and to construct the Department of Defense (DoD) inter-tie, Route 1 waterline improvements,

construction of Pressure Zone Realignment Sites 1-12, and existing Santa Rosa and Sinifa reservoir demolition and foundation oiled sand disposal in the Additive Bid; and

WHEREAS, the Base Bid work consists of the Contractor furnishing all labor, tools, equipment and materials necessary to complete the construction of the Santa Rosa reservoir and booster pump station, Santa Rita reservoir, and Sinifa reservoir to include, but not limited to foundation, earthwork, pipework, retaining wall, storm water detention basin, Santa Rita roadway repair, off-site PRVs, concrete work, electrical work, fences and gates, protective coatings, SCADA, disinfection, testing and start-up under the provisions of the bid documents and in accordance with applicable GWA standards; and

WHEREAS, IFB packages were picked up by eighteen (18) interested parties, from which GWA received bid proposals from three (3) of the 18 parties before the bid proposal deadline (See Exhibit A – Abstract of Bids); and

WHEREAS, GWA engineering and the construction management team analyzed all bid proposals received on April 30th, 2019 and determined that AIC International, Inc. as being the responsive and responsible bidder and met all the bid requirements set forth by GWA (See Exhibit B – Recommendation Memorandum); and

WHEREAS, GWA Management finds that AIC International, Inc.'s Base Bid proposal of Twenty-Six Million Four Hundred Seventeen Thousand Six Hundred Fifty Dollars (\$26,417,650.00) to be acceptable (See Exhibit C – Bid Form); and

WHEREAS, GWA Management will assess any additional funding availability from the latest Capital Improvements Plan to ascertain if any or all the Additive bid items as part of this IFB can be awarded later through a change order or via a subsequent CCU approval as a means of maximizing system improvements efficiently; and

WHEREAS, GWA Management is seeking approval to enter into contract for the Base Bid work with AIC International, Inc. (IFB-01-ENG-2019) in the amount of Twenty-Six Million Four Hundred Seventeen Thousand Six Hundred Fifty Dollars (\$26,417,650.00), along with a ten

percent (10%) contingency of Two Million Six Hundred Forty-One Thousand Seven Hundred Sixty-Five Dollars (\$2,641,765.00), bringing the total requested funding amount to Twenty-Nine Million Fifty-Nine Thousand Four Hundred Fifteen Dollars (\$29,059,415.00); and

WHEREAS, the funding sourced for the construction project will be from bond, grant, SDC and internally funded CIP funds as detailed in the following CIP line items:

- CIP PW 09-11: Water System Reservoirs 2005 Improvements
- CIP PW 05-06: Water Booster Pump Station
- CIP PW 09-03: Water Distribution System Pipe Replacement and Upgrades
- CIP PW 09-04: Pressure Zone Realignment/Development 2005 Improvements

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU finds that the terms of the bid proposal submitted by AIC International, Inc. are fair and reasonable.
- The CCU hereby authorizes the management of GWA to accept the bid from AIC International, Inc. attached hereto as Exhibit C, and which is also incorporated into this Resolution in its entirety.
- 4. The CCU hereby further authorizes the management to enter into a contract with AIC International, Inc. in the amount of Twenty-Six Million Four Hundred Seventeen Thousand Six Hundred Fifty Dollars (\$26,417,650.00).
- 5. The CCU hereby approves the funding total of Twenty-Six Million Four Hundred Seventeen Thousand Six Hundred Fifty Dollars (\$26,417,650.00), along with a ten percent (10%) contingency of Two Million Six Hundred Forty-One Thousand Seven Hundred Sixty-Five Dollars (\$2,641,765.00), bringing the total requested funding amount to Twenty-Nine Million Fifty-Nine Thousand Four Hundred Fifteen Dollars (\$29,059,415.00)
- 6. The CCU hereby approves the use of funding sources from the following CIP line items:

| 1 | CIP PW 09-11: Water System Reservoirs 2005 Improvements |
|----------|--|
| 2 | CIP PW 05-06: Water Booster Pump Station |
| 3 | CIP PW 09-03: Water Distribution System Pipe Replacement and |
| 4 | Upgrades |
| 5 6 | CIP PW 09-04: Pressure Zone Realignment/Development 2005 Improvements |
| 7 | |
| 8 | RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption |
| 9 | of this Resolution. |
| 10 11 | DULY AND REGULARLY ADOPTED , this 27 th day of August 2019. |
| 12 | |
| 13 | Certified by: Attested by: |
| 14 15 | |
| 16 17 | JOSEPH T. DUENAS Chairperson MICHAEL T. LIMTIACO Secretary |
| 18 | GEODET A DAYS CEDITIEI CATE |
| 19 | SECRETARY'S CERTIFICATE |
| 20 21 | I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows: |
| 22 | The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular |
| 23 | meeting by the members of the Guam Consolidated Commission on Utilities, duly and |
| 24 25 | 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: |
| 26 | AYES: |
| 27 28 | NAYS: |
| 29 | ABSTENTIONS: |
| 30 | ABSENT: |
| 31 | |
| 32 | |
| | |

Exhibit A

ORIGINAL

GUAM WATERWORKS AUTHORITY ABSTRACT OF BIDS

Project Name: SANTA ROSA, SANTA RITA AND SINIFA RESERVOIR REPLACEMENT Project Number: W14-007-BND IFB NO.: IFB-01-ENG-2019

Bid Opening Date: April 30, 2019 Time: 3:00 p.m.

| | | | | į | | | | | | | ı | | | | | | |
|----------|-----------------------------------|--------------------------------------|--------------------|------------|---------------------|---------|----------------|-------------------|--------|-----------------|-----|--|----------------|----------|--|-----------------------------------|--|
| Γ | | | | | | E | CERTIFICATIONS | SNO | | | | Totalo A Base Bid | | T Pid o | Table 0 - Bare Bid Table C - Base Bid | TABLE A+B+C | |
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| | GRANITE CONSTRUCTION COMPANY GUAM | Expect his company 15% of his emount | 、 | | $\overrightarrow{}$ | `, | > | > | • | - | - | 059'019'M # | \$13,625,000 | | \$ 11,699,600 | 4 50,845, 250 4 40,645, 250 | |
| 9 | 10. MCS CONSTRUCTION | No Bib | | | | | | | | | | | | | | | |
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ORIGINAL

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|--------------|--|--|--|---------------------------|--|---|----------------------------------|--|----------|-----|--|--|--|---|
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| ; | | Flasting & Deposit Company of Henyland | Ŀ | ├- | | | | ` | | Š | P. 689, 448.14 | # 8,050,538.46 | \$ 8,414,701.67 | 54,000,142 11 12 10 100,000,538,44,8 8,417,701.67 11 26, 000,100,000,100,000,000,000,000,000,00 |
| ė T | S. BIME & SUNS INC. | 15% of accompanying bob | > | > | > | > | , | • • | | ``` | 11, 027, 560.15 | \$ 8,911,1245.93 | # 9, 401, 894.54 | 11, 027, 560. 15 18 5, 411, 1245. 45 14 41 401, 846. 184 14 24, 540, 103. 57 |
| <u>_</u> : | | A Se OM | | H | _ | | | | | | | | | |
| - | 17. ORION CONSTRUCTION CORP. | | | | | | | | | | , , , , , , , , , , , , , , , , , , , | | | |
| <u> </u> | A CITAL MATERIAL STATES AND A COLUMN STATES AN | No Bit | | \vdash | _ | | | - | | | | | | |
| ģ_ | S. Ars Aleo! Construction, LLC | | | | | | | | | | | | | |
| <u>L</u> | 77 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | _ | | | | | | 1 8,682,775.P | 8,682,775.2 \$3,861,168.38 | # 7,526,072,4 | 18.010,070,134 K 45,070,016.31 |
| | GWA ESTIMATE | | | | | | | | | | 1. 224,440.T | \$ 83,935,249.50 | \$ 1,657,076.21 | 12,224,440.73 #8,435,249.38 横り、657,076.31 異立る, 名は, 765.31 |
| J | | | | | | | | | | | | | | |
| | | | | | | | | 2 | | | , | , |) | |
| | Bids Opened and Read by: | Tabulated By: | GWA Pro | Curemen | it Bepress | GWA Procurement Representative; | | Witnes | # | - | | | | |



Exhibit B



Date: August 15, 2019

Reference No.: GHD/GWA LTR-13

To: Brett Railey

Guam Waterworks Authority

Gloria B. Nelson Public Service Building

688 Route 15

Mangilao, Guam 96913

Project: GWA Project: W14-007-BND

IFB-01-ENG-2019

Northern and Southern Guam Reservoir Replacement

Subject: Recommendation for Award, AIC International

Dear Mr. Railey:

GWA submitted a Request for Information to AIC International (AIC) on August 06, 2019. AIC responded as requested, submitting their response on August 09, 2019. GHD has reviewed the response and detailed our review comments in our August 13, 2019, GHD/GWA LTR-12. To summarize this review, AIC's responses were complete and all items were addressed.

AIC confirmed that:

- AIC confirmed that the reason they did not provide a listing safety citations in the 'Statement of Contractor's 5-year record of OSHA citations or violations' as required by the Bid Documents as these citations had been deleted. Four citations shown on the OSHA website and we asked for further details. AIC provided copies of an email and Informal Settlement Agreement with OSHA showing that these citations had been deleted and therefore they did not need to list them as part of their bid.
- Form 'Appendix G Employment Data' from the Bid was provided.

AIC provided further information and clarifications for:

- AIC extended terms and conditions of the Instruction to Bidders from the 60 calendar days to 120 calendar days
- Confirmed that two bid items that were less than 45% of the engineer's estimate were inclusive of all work in accordance with the plans and specifications.
- Adjusted mobilization bid amount to conform with Specifications that limit bid item amount to 5% of total contract.
- Provided information for review for proposed Commissioning Agent, and Driller of Concrete Piers and Shafts.
- Provided designation of and resumes for AIC's three full time site superintendents, three full time Safety Officers, and one project QC Officer.
- DN Tanks provided more information regarding the number and location of their strand wrapping and automated shotcrete machines.
- Provided list of suppliers and subcontractors, identifying scope of work for each.

GHD, Inc. 865 South Marine Corps Drive Suite 202 Tamuning Guarn 96913 T 1 671 472 6792 F 1 671 477 6229 E guarn@ghd.com W www.ghd.com

- DN Tanks provided resumes for Tanks Superintendents on Guam.
- · Provided updated Contractor's recent license renewal.
- Confirmed that DN Tanks is the only contractor or supplier performing work having a value greater than 10%.
- Provided certificate from their insurance company verifying that AIC continues to have adequate available bonding capacity for this project.

We did request further information from the Commissioning Agent and DN Tanks, but these items that are still in question can be addressed after award. Based on AIC's response, we believe that AIC International has submitted a bid which generally conforms in all material respects to the Invitation for Bids. Based on this, we recommend award of the contract to AIC International.

Regards,

Bryan J. Ryley Project Coordinator

Cc: Nancy Heuman, P.E., Project Manager GHD Garrett Yeoh, GWA, Senior Engineer

Exhibit C

BID FORM

BID RECIPIENT

This Bid is submitted to:

Guam Waterworks Authority

Engineering Division, Room 202

Gloria B. Nelson Public Service Building
688 Route 15

Mangilao, Guam 96913

The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with Buyer in the form included in the Bidding Documents to furnish the Goods and Special Services as specified or indicated in the Bidding Documents, for the prices and within the times indicated in this Bid, and in accordance with the other terms and conditions of the Bidding Documents.

BIDDER'S ACKNOWLEDGMENTS

Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Buyer.

BIDDER'S REPRESENTATIONS

In submitting this Bid, Bidder represents that:

Bidder has examined and carefully studied the Bidding Documents, the related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

| Addendum No. | Addendum Date |
|--------------|------------------|
| 01 | 23 JANUARY 2019 |
| 02 | 22 FEBRUARY 2019 |
| 03 | 29 MARCH 2019 |
| 04 | 25 APRIL 2019 |

Bidder has visited the Point of Destination and site where the Goods are to be installed or Special Services will be provided and become familiar with and is satisfied as to the <u>observable</u> local conditions that may affect cost, progress, or the furnishing of Goods and Special Services, if required to do so by the Bidding Documents, or if, in Bidder's judgment, any local condition may affect cost, progress, or the furnishing of Goods and Special Services.

Bidder is familiar with and is satisfied as to all Laws and Regulations in effect as of the date of the Bid that may affect cost, progress, and the furnishing of Goods and Special Services.

Page 2

Bidder has carefully studied, considered, and correlated the information known to Bidder; information commonly known to sellers of similar goods doing business in the locality of the Point of Destination and the site where the Goods will be installed or where Special Services will be provided; information and observations obtained from Bidder's visits, if any, to the Point of Destination and the site where the Goods will be installed or Special Services will be provided; and any reports and drawings identified in the Bidding Documents regarding the Point of Destination and the site where the Goods will be installed or where Special Services will be provided, with respect to the effect of such information, observations, and documents on the cost, progress, and performance of Seller's obligations under the Bidding Documents.

Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution (if any) thereof by Engineer is acceptable to Bidder.

The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for furnishing the Goods and Special Services for which this Bid is submitted.

BIDDER'S CERTIFICATIONS

Bidder certifies that:

This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;

Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

Bidder has not solicited or induced any individual or entity to refrain from bidding; and

Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:

- "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
- "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Buyer, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Buyer of the benefits of free and open competition;
- "collusive practice" means a scheme or arrangement between two or more Bidders, with
 or without the knowledge of Buyer, a purpose of which is to establish bid prices at
 artificial, non-competitive levels; and
- "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process.

Page 3

BASIS OF BID

Bidder will furnish the Goods and Special Services in accordance with the Contract Documents for the following price(s):

BID SCHEDULE

Interested Bidders must complete Table A, Table B, and Table C. All blanks in the tables must be filled out.

Definitions:

LS = lump sum

| | TABLE A | | | |
|--------------|-----------|-----|------|------|
| SANTA ROSA I | RESERVOIR | BID | SCHE | DINE |

(BASE BID ITEMS NO. 1 - 6, ADDITIVE BID ITEMS 7, 8, 9, 10 & 11)

| item No. | Description | Quantity | Unit | Extended Amount | |
|-------------|---|----------|------|--|---------------------------------------|
| 1. | Mobilization, as specified in the Contract Documents. Item 1 Breakdown: 1.1 Move onto Site 1.2 Field Offices, fit out and utilities 1.3 Project Scheduling 1.4 Assessment of existing reservoir per SP C-4 1.5 Other mobilization items | 1 | LS | \$ 662,743.60 \$ 254,896.00 \$ 171,924.00 \$ 24,349.00 \$ 36,178.00 \$ 175,400.00 | 437,349,00 154,890,00 50,008,00 |
| 2. | Demolition of existing facilities, including the booster pump building and foundation, fuel system and containment, paving, chain link fences and gates, piping, and appurtenances, as shown and specified in the Contract Documents. | 1 | LS | \$_72,398.00- | 87,798.00 |

TABLE A SANTA ROSA RESERVOIR BID SCHEDULE

(BASE BID ITEMS NO. 1 – 6, ADDITIVE BID ITEMS 7, 8, 9, 10 & 11)

| | | | | 1 | - |
|------|--|----------|------|---|---|
| Item | | | | | |
| No. | Description | Quantity | Unit | Extended Amount | ļ |
| 3. | Construction of Santa Rosa Reservoir No. 2, including a 1.0 million gallon (MG) nominal capacity pre-stressed concrete tank, earthwork, yard piping, fences and gates, coatings, electrical, instrumentation and controls, site lighting, disinfection, testing, startup, and all appurtenant work, complete and operable, as shown and specified | | | | |
| | in the Contract Documents. Item 3 Breakdown 3.1 Earthwork 3.2 Tank Foundation 3.3 Tank Piping & Valving 3.4 Pre-stressed Concrete Tank 3.5 Tank Appurtenances 3.6 Tank Coating 3.7 Tank & Piping Disinfection 3.8 Testing & Startup 3.9 Electrical System 3.10 Instrumentation and Control 3.11 Yard Piping & Valving 3.12 Inlet Vault, Meter, Valves & Piping 3.13 Outlet Vault, Meter, Valves and Piping 3.14 Drain Vault, Valves and Piping 3.15 Check Valve Vault, Valves and Piping 3.16 Overflow Manhole, and Piping 3.17 Site Poles & Lighting 3.18 Fencing and Gates 3.19 All other appurtenant work | | | \$ 204,998 30 \$ 122,036 00 \$ 35,801 00 \$ 3,822,348.00 \$ 208,35 6.00 \$ 55,665 00 \$ 21,150 00 \$ 21,150 00 \$ 119,846.00 \$ 274,752.00 \$ 313,015 00 \$ 329,168.00 \$ 54,744.00 \$ 108,460.00 \$ 65,289 00 \$ 61,905 00 \$ 94,313.00 \$ 188,896.00 | 224,988.00 147,099.00 115,801.00 70,065,00 31,150.00 12,219.00 |
| | Subtotal | 1 | LS | \$ _6,265,252.00 | 6,375,252,00 |

Page 6

TABLE A SANTA ROSA RESERVOIR BID SCHEDULE

(BASE BID ITEMS NO. 1 – 6, ADDITIVE BID ITEMS 7, 8, 9, 10 & 11)

| rading and pavement including ing walls, curbs, concrete gutters, valls, sidewalk, stormwater is, stormwater infiltration basin | | | | 1 |
|--|---|---|---|---|
| utlet structures, access road, and | | | | |
| | 1 | LS | \$ -868,792.00 | 928,792.∞ |
| uction of Control/Pump Station | | | | |
| natic tank, electrical and controls, work, and all appurtenant work, ete and operable as shown and | 1 | 15 | 6 -74 250 Ms | 75/ 250 0 |
| ect Documents. em 5 Breakdown | * | , is | \$ 93.234.60 | 756,350,00 |
| Pump System Hydro-pneumatic Tank Electrical | | | \$ 277,301.00 \$ 97,365.00 \$ 143,437.00 | 153,437,00 |
| Controls Piping and Valves All other applicted at work | | | \$ -30,390.00 \$ -0,160.00 \$ 76,455.00 | 40,398.00 |
| 1 2 3 | ed in accordance with the ct Documents. m 5 Breakdown Control/Pump Station Building Pump System Hydro-pneumatic Tank Electrical Controls | ed in accordance with the ct Documents. m 5 Breakdown Control/Pump Station Building Pump System Hydro-pneumatic Tank Electrical Controls Piping and Valves | ed in accordance with the 1 LS ct Documents. m 5 Breakdown Control/Pump Station Building Pump System Hydro-pneumatic Tank Electrical Controls Piping and Valves | ted in accordance with the ct Documents. m 5 Breakdown Control/Pump Station Building Pump System Hydro-pneumatic Tank Electrical Controls Piping and Valves |

TABLE A SANTA ROSA RESERVOIR BID SCHEDULE

(BASE BID ITEMS NO. 1 – 6, ADDITIVE BID ITEMS 7, 8, 9, 10 & 11)

| item No. | Description | Quantity | Unit | Extended Amount |
|-------------|---|----------|------|--|
| 6. | Construction of Pressure Zone Realignment (PZR) Sites 1 through 6, including survey staking, potholing, trenching, pipe connections, piping and fittings, valves and valve boxes, backfill and paving, disinfection, testing, traffic control, and all appurtenant work, complete and operable, as shown and specified in accordance with the | | | |
| | Contract Documents. Item 6 Breakdown 6.1 Site 1 6.2 Site 2 6.3 Site 3 6.4 Site 4 6.5 Site 5 6.6 Site 6 | 1 | LS | \$ 430,470.00 \$ 111,576.00 \$ 66,564.00 \$ 66,060.00 \$ 60,716.00 \$ 56,706.00 \$ 66,844.00 |

TABLE A SANTA ROSA RESERVOIR BID SCHEDULE

(BASE BID ITEMS NO. 1 – 6, ADDITIVE BID ITEMS 7, 8, 9, 10 & 11)

| Item | | | | |
|------|---|----------|------|--|
| No. | Description | Quantity | Unit | Extended Amount |
| 7. | Additive Bid Item: Construction of Department of Defense (DoD) Inter-Tie, within the GWA property, including survey staking, potholing, excavation, trenching, concrete vaults, pipe connections, piping and fittings, operational valves, control valves and adjustments thereto, meter with | | | |
| | remote readouts, instrumentation and conduit, backfill, grading and gravel surfacing, bollard, disinfection, testing, and all appurtenant work, complete and operable, as shown and specified in accordance with the Contract Documents. Item 7 Breakdown 7.1 Concrete Vaults 7.2 Piping and Valves 7.3 Instrumentation 7.4 Electrical 7.5 All other appurtenant work | 1 | LS | \$ 511,174.00 \$ 353,516.00 \$ 34,950.00 \$ 11,020.00 \$ 20,115.00 \$ 91,565.00 |
| 8. | Additive Bid Item: Construction of Department of Defense (DoD) Inter-Tie, within the DoD property, including survey staking, potholing, excavation, trenching, pipe connections, piping and fittings, isolation valve, backfill, grading and reseeding, gate, disinfection, testing, and all appurtenant work, complete and operable, as shown and specified in accordance with the Contract Documents. Item 8 Breakdown: 8.1 Piping and Valves 8.2 All other appurtenant work | 1 | LS | \$ 83,534.00 \$ 23,812,00 \$ 59,722 00 |

Page 9

TABLE A SANTA ROSA RESERVOIR BID SCHEDULE

(BASE BID ITEMS NO. 1 - 6, ADDITIVE BID ITEMS 7, 8, 9, 10 & 11)

| item No. | Description | Quantity | Unit | Extended Amount |
|-------------|---|----------|------|-----------------|
| 9. | Additive Bid Item: Construction of Route 1 12" Waterline, 4,042 L.F., including tie-ins, valves, fittings, pipe jumpers, ARV's, excavation, backfill, resurfacing, testing, disinfection, traffic control, and all appurtenant work, complete and operable, as shown and specified in accordance with the Contract Documents. | -1 | LS. | \$_1,168,617.00 |
| 10. | Additive Bid Item: Demolition and disposal of existing reservoir, including foundation and appurtenances thereto. | 1 | LS | \$ 113,123,00 |
| 11. | Additive Bid Item: Remove and dispose of reservoir foundation oiled sand (6" thick over 6" base course) as hazardous waste. | 1 | LS | \$ 144,716,00 |

Table A Base Bid Subtotal

\$ 9,016,011.00

Table A Base Bid and Additive Bid Subtotal

\$ 11,037,175,00

TABLE B SANTA RITA RESERVOIR BID SCHEDULE (BASE BID ITEMS NO. 1 – 6, ADDITIVE BID ITEMS 7 & 8)

| Item No. | Description | Quantity | Unit | Extended Amount | |
|-------------|---|----------|------|--|----------------------------|
| 1. | Mobilization, as specified in the Contract Documents. Item 1 Breakdown: 1.1 Move onto Site | 1 | LS | \$ <u>-619,994.00</u> \$ <u>-255,262.00</u> | 427, 465,00 155, 262,00 |
| | 1.2 Field Offices, fit out and utilities 1.3 Project Scheduling 1.4 Other mobilization items | | | \$ 126,285.00 \$ 21,549.00 \$ 216,838.00 | 124, 369,00 |
| 2. | Repair Access Road, including removal of debris, grading, installation of two 12" water lines, installation of electrical ductbank, connections to existing water and electrical facilities at ends of repairs, testing, disinfection, and appurtenances, as shown and specified in the contract documents. | 1 | LS | \$ | 525,427, <i>00</i> |
| 3. | Demolition of existing facilities, including the steel reservoir, its foundation and appurtenances thereto, paving, electrical vaults, chain link fences and gates, piping, concrete vaults, concrete swales, concrete curbs, and appurtenances, as shown and specified in the Contract Documents. | 1 | LS | \$ -236,254.60 | 261, 254,00 |

TABLE B SANTA RITA RESERVOIR BID SCHEDULE

(BASE BID ITEMS NO. 1 – 6, ADDITIVE BID ITEMS 7 & 8)

| Item No. | Description | Quantity | Unit | Extended Amount | |
|-------------|--|----------|------|--|---|
| 4. | Construction of Santa Rita Reservoir, including a 1.0 million gallon (MG) nominal capacity pre-stressed concrete tank on pile foundation, earthwork, yard piping, fences and gates, protective coating, electrical, instrumentation and controls, site lighting, disinfection, testing, startup, | | , | | , |
| | and all appurtenant work, complete and operable, as shown and specified in the Contract Documents. . Item 4 Breakdown 4.1 Earthwork 4.2 Foundation Piles and Base 4.3 Tank Piping & Valving 4.4 Pre-stressed Concrete Tank 4.5 Tank Appurtenances 4.6 Tank Coating 4.7 Tank & Piping Disinfection 4.8 Testing & Startup 4.9 Electrical System 4.10 Instrumentation and Control 4.11 Yard Piping & Valving 4.12 Inlet Vault, Meter, Valves and Piping 4.13 Outlet Vault, Meter, Valves and Piping 4.14 Overflow Manhole and Piping 4.15 Site Poles & Lighting 4.16 Fencing and Gates 4.17 All other appurtenant work | | | \$ 233,523,000 \$ 957,304,00 \$ 55,134,00 \$ 3,766,362,00 \$ 207,915,00 \$ 55,005,00 \$ 3,265,00 \$ 3,265,00 \$ 234,000,00 \$ 127,199,00 \$ 127,199,00 \$ 105,667.00 \$ 194,949,00 \$ 43,631.00 | 253,523,00 977,384,00 85,134,00 70,085,00 29,889,00 12,265,00 87,768,00 |
| | Subtotal | 1 | LS | \$ -6,303,706.00 | 6,418,706.00 |

TABLE B SANTA RITA RESERVOIR BID SCHEDULE (BASE BID ITEMS NO. 1 – 6, ADDITIVE BID ITEMS 7 & 8) Item No. Description Quantity Unit **Extended Amount** Site Grading and pavement including curbs, concrete gutters, sidewalks, stormwater swales, storm drainage inlets and piping, headwalls, riprap, and stormwater infiltration basins and outlet structures, access roads and fencing. کا 1 909,347.00 6. Construction of Control Building, complete and operable, as shown and specified in accordance with the Contract Documents. 1 LS \$ _191,603.60-209,132,00

| | | | | ,· · · · · · · · · · · · · · · · · · · |
|----|--|---|--------|---|
| 7. | Additive Bid Item: Construction of Pressure Zone Realignment (PZR) Sites 1 through 12, including survey staking, demolition, potholing, trenching, pipe connections, piping and fittings, valves and vaults, backfill and paving, disinfection, testing, traffic control, and all appurtenant work, complete and operable, as shown and specified in accordance with the Contract Documents. Item 7 Breakdown 7.1 Site 1 7.1a Concrete Vault | 1 | LS | \$ 500,921.00 \$ 63,580.00 |
| | 7.1b Pressure Reducing Valves 7.1c Connections/Piping/Fittings 7.1d Gate Valves | | - - | \$ 15,864.00 \$ 7,932,00 \$ 2,645.00 |
| | 7.2 Site 2 7.2a Concrete Vault 7.2b Pressure Reducing Valves 7.2c Connections/Piping/Fittings 7.2d Gate Valves 7.3 Site 3 7.4 Site 4 7.4a Concrete Vault 7.4b Pressure Reducing Valves 7.4c Connections/Piping/Fittings 7.4d Gate Valves 7.5 Site 5 7.6 Site 6 7.7 Site 7 7.7a Concrete Vault 7.7b Pressure Reducing Valves 7.7c Connections/Piping/Fittings 7.7d Gate Valves 7.8 Site 8 7.8a Concrete Vault 7.8b Pressure Reducing Valves 7.8c Connections/Piping/Fittings 7.8d Gate Valves 7.9 Site 9 7.10 Site 10 7.11 Site 11 7.12 Site 12 | | | \$ 68,263,00 \$ 14,448,00 \$ 7,244,00 \$ 2,416.50 \$ 40,934.00 \$ 15,864.00 \$ 21,389.00 \$ 21,389.00 \$ 21,389.00 \$ 22,937.00 \$ 15,864.00 \$ 7,932.00 \$ 22,937.00 \$ 15,864.00 \$ 7,932.00 \$ 15,864.00 \$ 7,932.00 \$ 15,864.00 \$ 15,864.00 \$ 11,415.00 \$ 11,415.00 \$ 11,415.00 \$ 37,041.00 |

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| 8. | Additive Bid Item: Remove and dispose of reservoir foundation oiled sand (4" thick over 6" base course with oil surfacing) as hazardous | 1 | LS | \$ 144,720.00 |
|----|---|---|----|---------------|
| | waste. | | | |

Table B Base Bid Subtotal

\$ 8,751,331,00

Table B Base Bid and Additive Bid Subtotal

\$<u>9,396,972,0</u>0

| | TA SINIFA RESERV (BASE BID ITEMS NO. 1 ~ | | | | |
|-------------|---|---|----|---|---|
| Item No. | Description | | | | |
| 1. | Mobilization, as specified in the Contract Documents. Item 1 Breakdown: 1.1 Move onto Site 1.2 Field Offices, fit out and utilities 1.3 Project Scheduling 1.4 Grant of Temporary Easement for Construction | 1 | LS | \$ <u>677,450.00</u> \$ <u>254,667.00</u> \$ <u>120,847.00</u> \$ <u>21,552.00</u> \$ <u>19,600.00</u> | 426,591.00 |
| | 1.5 Assessment of existing reservoir per SP C-4 1.6 Other mobilization items | | | \$ <u>24,239.00</u> \$ 228,545.00 | 77,686.00 |
| 2. | Demolition of existing facilities, including the pavement, electrical vaults, chain link fences and gates, piping, concrete vaults, concrete swales, concrete curbs, and appurtenances, as shown and specified in the Contract Documents. | 1 | LS | \$ 40, 876, 00 | 158,876.00 |
| 3. | Construction of Sinifa Reservoir, including a 1.0 million gallon (MG) nominal capacity pre-stressed concrete tank, earthwork, yard piping, fences and gates, coatings, electrical, instrumentation and controls, site lighting, disinfection, testing, startup, and all appurtenant work, complete and operable, as shown and specified | | 3 | | |
| | in the Contract Documents. Item 3 Breakdown 3.1 Earthwork 3.2 Tank Foundation 3.3 Tank Piping & Valving 3.4 Pre-stressed Concrete Tank 3.5 Tank Appurtenances 3.6 Tank Coating 3.7 Tank & Piping Disinfection | 1 | LS | \$ 63,743.00 \$ 92,824.00 \$ 92,824.00 \$ 126,865.00 \$ 4,460,016,00 \$ 207,979,00 \$ 53,011.00 \$ 16,666.00 | 6,567,280,00 87,743,00 122,894,00 151,865.00 71,811.00 31,006,00 |

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| | TA SINIFA RESERV (BASE BID ITEMS NO. 1 – | | | AS 6 & 7) | |
|------|--|----------|-----------|---|-----------|
| Item | | | , · · · - | | |
| No. | Description 3.8 Testing & Startup 3.9 Electrical System 3.10 Instrumentation and Control 3.11 Yard Piping & Valving 3.12 Inlet Vault, Meter, Valves & Piping 3.13 Outlet Vault, Meter, Valves and Piping | Quantity | Unit | \$ 37, 487.00 \$ 65,076.00 \$ 161, 811.00 \$ 143,835.00 \$ 250,180.00 \$ 132,251.00 | 85,076,00 |
| | 3.14 Drain Vault, Valves and Piping 3.15 Check Valve Vault, Valves and Piping 3.16 Overflow Manhole, and Piping 3.17 Site Poles & Lighting 3.18 Fencing and Gates 3.19 Fuel System Improvements 3.20 All other appurtenant work | | | \$ 55,182,00 \$ 127,308,00 \$ 127,725,00 \$ 171,618,00 \$ 75,419,00 \$ 45,716,00 \$ 20,358,00 | |
| 4. | Subtotal Site Grading and pavement including retaining walls, curbs, off-site driveway, concrete gutters, headwalls, sidewalks, stormwater swales, storm drainage structures and piping, infiltration basins, riprap, and access roads. | 1 | LS LS | \$ 6,434,346.ee | |
| 5. | Construction of Control Building, complete and operable, as shown and specified in accordance with the Contract Documents. | 1 | LS | \$ 259,851,60 | 319,770,∞ |

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| | TA SINIFA RESERV (BASE BID ITEMS NO. 1 – | | | MS 6 & 7) |
|-------------|---|----------|------|-----------------|
| Item No. | Description | Quantity | Unit | Extended Amount |
| 6. | Additive Bid Item: Demolition and disposal of existing reservoir, including foundation and appurtenances thereto. | 1 | LS | \$ 113,122,00 |
| 7. | Additive Bid Item: Remove and dispose of reservoir foundation oiled sand (6" thick over 6" base course) as hazardous waste. | 1 | LS | \$ 147,7200 |

Table C Base Bid Subtotal \$ 8,650,368.00
Table C Base Bid and Additive Bid Subtotal \$ 8,911,150.00

Table A, B, and C Base Bid Total \$ 26.417, 650,00

Table A, B, and C Base Bid and Additive Bid Total \$ 29,345, 297,00

TOTAL BASE BID PRICE FOR THE BID SCHEDULE (Table A, B and C)

For the lump sum of: \$ 26,417,650.00 (Price in Figures)

TWENTY SIX MILLION FOUR HUNDRED SEVENTEEN THOUSAND

(Price in Words) SIX HUNDRED FIFTY DOLLARS AND NO CENTS.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents. Bidder also acknowledges that each unit price includes an amount considered by Bidder to be adequate to cover Bidder's overhead and profit for each separately identified item.

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TIME OF COMPLETION

Bidder agrees that the furnishing of Goods and Special Services will conform to the schedule set forth in Article 5 of the Agreement.

Bidder accepts the provisions of the Agreement as to liquidated damages.

| ATT/ | CHE | MENTS | TO: | THIC | DID |
|------|-----|---------|-----|------|------|
| A112 | wni | MEIA 13 | IU | | mii. |

| The following o | locuments are attached to | and made a condition of this Bid: |
|---------------------------|---|--|
| Require | d Bid security in the form | of Bid Bond |
| List of P | roposed Major Suppliers; | |
| Require | d Bidder Qualification Stat | tement with Supporting Data. |
| DEFINED TERMS | | |
| The terms used the Gen | I in this Bid with initial cap eral Conditions, and the Si | ital letters have the meanings stated in the Instructions to Bidders, upplementary Conditions. |
| BID SUBMITTAL | | |
| This Bid submit | ted by: | |
| If Bidde | r is: | |
| An Indiv | <u>ridual</u> | |
| Name (1 | yped or printed): | Not Applicable |
| Ву: | | |
| | (Individual's signature) | |
| Doing b | usiness as: | |
| Busines | s address: | |
| Phone: | | Facsimile: |
| E-mail a | ddress: | |

| A Partnership | |
|---|---------|
| Partnership Name: Not Applicable | _(SEAL) |
| Ву: | |
| (Signature of general partner - attach evidence of authority to sign) | |
| Name (typed or printed): | |
| Business address: | |
| | _ |
| Phone:Facsimile: | |
| E-mail address: | |
| | |
| A Corporation | |
| Corporation Name: AIC International, Inc. | |
| State of Incorporation: Guam | |
| Type (General Business, Professional, Service, other): General Contractor | _ |
| By: | _ |
| Significant evidence of authority to sign) | |
| Name (typed or printed): Henry Stewart | |
| Title: President | |
| (CORPORATE SEAL) | |
| Attest | _ |
| (Signature of Corporate Secretary) | |
| Business address: P.O. Box DR, Hagatña Guam 96932 | |
| | - |
| Phone: (671) 565-9142 Facsimile: (671) 565-9145 | |
| E-mail address: henry@aicconstruction.com | |
| | |
| A Limited Liability Company (LLC) | |
| LLC Name: Not Applicable | |
| State in which organized: | |
| Ву: | =: |
| (Signature - attach evidence of authority to sign) | |
| Name (typed or printed): | |
| Title: | _ |
| Business address: | |
| | - |
| Phone:Facsimile: | |
| E-mail address: | |

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| A Joint Venture | | |
|--------------------------------|--|---------------------------------------|
| First Joint Venturer Name: | Not Applicable | (SEAL) |
| Ву: | | |
| (Signature - attach evi | idence of authority to sign) | |
| Name (typed or printed): | £ | |
| | | |
| | | |
| Phone: | Facsimile: | |
| E-mail address: | | |
| | | (SEAL) |
| Ву: | | |
| (Signature - attach evi | dence of authority to sign) | |
| Name (typed or printed): | | |
| | | |
| Business address: | | |
| Phone: | Facsimile: | |
| E-mail address: | | |
| Phone and Facsimile Number, an | d Address for receipt of official comm | unications to Joint Venture: |
| | he manner of signing for each individu | · · · · · · · · · · · · · · · · · · · |
| above.) | t is a party to the joint venture should | be in the manner indicated |

GWA Utility Services Division Monthly Status Report Month ending July 27, 2019

10. Payment Arrangement

| | WEEKLY | JUNE 2019 | WEEK | WEEK | WEEK | WEEK | WEEKLY | JULY 2019 |
|--|------------|------------|------------|------------|------------|------------|------------|------------|
| UTILITY SERVICES DIVISION ACTIVITIES: | AVERAGE | MONTHLY | ENDING: | ENDING: | ENDING: | ENDING: | AVERAGE | MONTHLY |
| OTIETT SERVICES DIVISION ACTIVITIES: | JUNE 2019 | TOTAL | 7/6/2019 | 7/13/2019 | 7/20/2019 | 7/27/2019 | JULY 2019 | TOTAL |
| Collections Unit | | | | | | | | |
| Number of accounts cut for nonpayment: | 60 | 238 | 40 | 114 | 83 | 55 | 73 | 292 |
| II. Number of accounts restored for nonpayment: | 54 | 216 | 41 | 97 3 | 77 4 | 55 2 | 68 | 270 |
| III. Number of No water reports responded to: IV. Number of Secure/Unsecure valve reports responded to: | 3 | 10 5 | 3 | 2 | 2 | 3 | 3 2 | 12 8 |
| V. Number of Verify reads responded to: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VI. Number of new pay plans negotiated for active accounts : | 188 | 750 | 113 | 197 | 185 | 138 | 158 | 633 |
| VII. Number of active pay plans negotiated and ongoing: | 2046 | | 1779 | 1920 | 2048 | 2123 | 1968 | |
| VIII.Number of inactive accounts with a payment arrangement: | 0 | | 0 | 0 | 0 | 0 | 0 | |
| IX. Number of broken payment plans: | 73 | 291 | 76 | 56 | 57 | 63 | 63 | 252 |
| Customer Service Unit | | | | | | | | |
| I. Service Delivery Points: | | | | | | | | |
| a. GBN Public Service Building – Fadian | | | | | | | | |
| i. Total Customers Assisted : | 264 | 1054 | 273 | 257 | 239 | 206 | 244 | 975 |
| ii. Total Abandoned Requests : | 12 | 48 | 14 | 24 | 22 | 15 | 19 | 75 |
| iii. Average Wait Time: | 7 minutes | | 7 minutes | 7 minutes | 6 minutes | 8 minutes | 7 minutes | |
| iv. Average Service Time:v. Breakdown by request type: | 15 minutes | | 13 minutes | 10 minutes | 10 minutes | 16 minutes | 15 minutes | |
| v. Breakdown by request type: 1. Apply for water | 66 | 265 | 63 | 59 | 57 | 61 | 60 | 240 |
| Restore water cut for non payment | 10 | 40 | 12 | 28 | 20 | 11 | 18 | 71 |
| 3. Terminate Water | 23 | 90 | 26 | 20 | 19 | 19 | 21 | 84 |
| Copy of Bill | 29 | 115 | 40 | 40 | 36 | 26 | 36 | 142 |
| Billing Dispute | 63 | 250 | 57 | 47 | 58 | 50 | 53 | 212 |
| 6. Billing Dispute follow up | 4 | 17 | 3 | 3 | 4 | 3 | 3 | 13 |
| 7. General Questions & Other | 35 | 141 | 46 1 | 32 2 | 27 2 | 17 0 | 31 1 | 122 |
| Report a water leak Report water theft | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 5 0 |
| 10. Payment Arrangement | | | | | | | | |
| b. Julale Satellite Office – Hagatna | 34 | 134 | 26 | 31 | 24 | 27 | 27 | 108 |
| i. Total Customers Assisted : | 278 | 1112 | 244 | 280 | 251 | 224 | 250 | 999 |
| ii. Total Abandoned Requests : | 21 | 82 | 18 | 22 | 17 | 21 | 20 | 78 |
| iii. Average Wait Time: | 5 minutes | | 5 minutes | 14 minutes | 10 minutes | 15 minutes | 5 minutes | |
| iv. Average Service Time: | 7 minutes | | 8 minutes | 12 minutes | 12 minutes | 13 minutes | 7 minutes | |
| v. Breakdown by request type: | | | | | | | | |
| Apply for water | 55 | 221 | 53 | 62 | 50 | 50 | 54 | 215 |
| Restore water cut for non payment Torminate Water | 15 23 | 58 93 | 11 21 | 13 18 | 13 23 | 7 19 | 20 | 44 81 |
| Terminate Water Copy of Bill | 76 | 303 | 59 | 34 | 41 | 32 | 42 | 166 |
| 5. Billing Dispute | 55 | 220 | 58 | 70 | 56 | 57 | 60 | 241 |
| 6. Billing Dispute follow up | 3 | 12 | 2 | 4 | 1 | 3 | 3 | 10 |
| 7. General Questions & Other | 20 | 81 | 14 | 40 | 45 | 25 | 31 | 124 |
| 8. Report a water leak | 2 | 9 | 1 | 0 | 0 | 2 | 1 | 3 |
| Report water theft | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Payment Arrangement Upper Tumon Satellite Office – Upper Tumon | 43 | 170 | 28 | 41 | 24 | 29 | 31 | 122 |
| i. Total Customers Assisted : | 370 | 1479 | 336 | 257 | 308 | 297 | 300 | 1198 |
| ii. Total Abandoned Requests : | 14 | 54 | 7 | 24 | 18 | 237 | 18 | 72 |
| iii. Average Wait Time: | 12 minutes | | 17 minutes | 7 minutes | 17 minutes | 14 minutes | 12 minutes | |
| iv. Average Service Time: | 10 minutes | | 10 minutes | 10 minutes | 13 minutes | 9 minutes | 10 minutes | |
| v. Breakdown by request type: | | | | | | | | |
| Apply for water | 87 | 347 | 84 | 89 | 71 | 59 | 76 | 303 |
| Restore water cut for non payment Torminate Water | 20 | 81 | 14 | 39 | 38 | 26 | 29 | 117 |
| Terminate Water Copy of Bill | 33 77 | 130 306 | 39 52 | 30 83 | 31 69 | 30 49 | 33 63 | 130 253 |
| 5. Billing Dispute | 96 | 385 | 75 | 72 | 84 | 80 | 78 | 311 |
| 6. Billing Dispute follow up | 3 | 13 | 2 | 3 | 0 | 3 | 2 | 8 |
| 7. General Questions & Other | 70 | 280 | 48 | 74 | 52 | 44 | 55 | 218 |
| 8. Report a water leak | 3 | 12 | 4 | 3 | 7 | 2 | 4 | 16 |
| Report water theft | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 2 |
| 10. Downant Assaugament | | | | | | | | |

GWA Utility Services Division Monthly Status Report Month ending July 27, 2019

| UTILITY SERVICES DIVISION ACTIVITIES: | WEEKLY AVERAGE | JUNE 2019 MONTHLY | WEEK ENDING: | WEEK ENDING: | WEEK ENDING: | WEEK ENDING: | WEEKLY AVERAGE | JULY 2019 MONTHLY |
|---|-------------------|----------------------|-----------------|-----------------|-----------------|-----------------|-------------------|----------------------|
| d. Customer Call Center | JUNE 2019 | TOTAL | 7/6/2019 | 7/13/2019 | 7/20/2019 | 7/27/2019 | JULY 2019 | TOTAL |
| i. Calls Recieved : | 1387 | 5546 | 1201 | 1504 | 1638 | 1542 | 1471 | 5885 |
| ii. Calls Immediately Answered : | 742 | 2967 | 575 | 851 | 729 | 478 | 658 | 2633 |
| iii. Calls Abandoned | 40 | 161 | 52 | 62 | 62 | 142 | 80 | 318 |
| iv. Calls Handled by Voice mail: | 597 | 2387 | 574 | 591 | 847 | 995 | 752 | 3007 |
| v. Breakdown by request type: | | 1 | | | | | | |
| Apply/Terminate info. | 29 | 115 | 21 | 35 | 23 | 18 | 24 | 97 |
| Automated Telphone Call Release Inquire | 31 | 122 | 17 | 20 | 13 | 19 | 17 | 69 |
| Balance Inquiry Call Back | 110 25 | 99 | 78 41 | 80 50 | 82 65 | 62 56 | 76 53 | 302 212 |
| 5. Dispatch | 22 | 89 | 13 | 27 | 25 | 16 | 20 | 81 |
| 6. Dispute | 0 | 1 | 0 | 0 | 11 | 4 | 4 | 15 |
| 7. Follow up | 45 | 180 | 48 | 69 | 82 | 63 | 66 | 262 |
| 8. General Questions & Other | 134 | 537 | 147 | 126 | 169 | 131 | 143 | 573 |
| 9. GWA Staff | 75 | 298 | 68 | 104 | 97 | 67 | 84 | 336 |
| 10. No Water | 21 | 83 | 11 | 80 | 31 | 5 | 32 | 127 |
| 11. Online/Phone App Help | 16 | 62 | 0 | 16 | 10 | 11 | 9 | 37 |
| 12. Pay by Phone | 129 | 516 | 133 | 177 | 156 | 72 | 135 | 538 |
| 13. Pay Plan | 69 | 274 | 26 | 58 | 74 | 44 | 51 | 202 |
| 14. Restore Non-payment | 9 | 36 | 8 | 28 | 21 | 14 | 18 | 71 |
| 15. Secure/Unsecure Valve 16. Voice Mail | 10 73 | 40 293 | 7 61 | 12 54 | 13 102 | 5 142 | 9 | 37 359 |
| 17. Water leak | 8 | 32 | 10 | 14 | 9 | 6 | 10 | 39 |
| 17. Water leak | | 32 | 10 | 14 | 3 | 0 | 10 | 33 |
| e. Customer Emails: | | | | | | | | |
| i. Emails Recieved : | | | | | | | | |
| customers@guamwaterworks.org | 38 | 152 | 37 | 42 | 49 | 32 | 40 | 160 |
| Breakdown by request type (email): | 1 | - | 2 | 1 | 4 | 4 | 2 | |
| a. Apply for waterb. Terminate Water | 3 | 5 11 | 3 2 | 2 | 3 | 0 | 2 | 6 7 |
| c. Copy of Bill | 1 | 5 | 5 | 4 | 1 | 1 | 3 | 11 |
| d. Billing Dispute & follow up | 6 | 23 | 7 | 6 | 13 | 14 | 10 | 40 |
| e. General Questions & Other | 18 | 73 | 16 | 22 | 16 | 12 | 17 | 66 |
| f. Report a water leak | 3 | 12 | 1 | 3 | 6 | 3 | 3 | 13 |
| g. Report water theft | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| h. Online services inquiry | 6 | 22 | 3 | 4 | 9 | 1 | 4 | 17 |
| gwaservesme@guamwaterworks.org (realtors and prop m | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ii. Emails Replied (both): | 28 | 110 | 20 | 31 | 42 | 21 | 29 | 114 |
| | AVERAGE | | 7/6/2019 | 7/13/2019 | 7/20/2019 | 7/27/2019 | AVERAGE | |
| f. Saturday Services: 9AM TO 1PM ONLY | 38 | | 29 | 39 | 37 | 53 | 40 | |
| i. VISITS: Breakdown by request type: | | | | | 1 | | | 1 |
| Apply for water | 6 | - | 2 | 7 | 5 | 9 | 6 | |
| Restore water cut for non payment Torminate Water | 2 | - | 1 | 1 | 4 | 0 | 2 | |
| Terminate Water Copy of Bill | 3 10 | | 9 | 9 | 0 8 | 6 5 | 2 8 | |
| Copy of Bill Billing Dispute | 9 | | 8 | 7 | 9 | 17 | 10 | |
| 6. Billing Dispute follow up | 0 | | 1 | 0 | 0 | 0 | 0 | |
| 7. General Questions & Other | 5 | | 0 | 3 | 4 | 11 | 5 | |
| 8. Report a water leak | 0 | | 0 | 1 | 0 | 1 | 1 | |
| Report water theft | 0 | | 0 | 0 | 0 | 0 | 0 | |
| 10. Payment Arrangement | 4 | | 7 | 9 | 7 | 4 | 7 | |
| | | 60 50 | # C | | JULY 2019 | _ | NLY 53 | |
| | | 40 30 20 10 | 7/6/2019 | 7/13/20 | 19 7/20/ | | 7/2019 | |

GWA Utility Services Division Monthly Status Report Month ending July 27, 2019

| | WEEKLY | JUNE 2019 | WEEK | WEEK | WEEK | WEEK | WEEKLY | JULY 2019 |
|---|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|
| LITH ITY CEDY (CEC DIV (ICION) A CTIV (ITIEC. | AVERAGE | MONTHLY | ENDING: | ENDING: | ENDING: | ENDING: | AVERAGE | MONTHLY |
| UTILITY SERVICES DIVISION ACTIVITIES: | JUNE 2019 | TOTAL | 7/6/2019 | 7/13/2019 | 7/20/2019 | 7/27/2019 | JULY 2019 | TOTAL |

1825

525

502

307

7300

2099

2008

1226

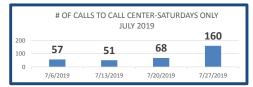
1818

236

329

ii. CALLS TO CALL CENTER (Saturday services only):

| 7/6/2019 | 7/13/2019 | 7/20/2019 | 7/27/2019 |
|----------|-----------|-----------|-----------|
| 57 | 51 | 68 | 160 |



1792

434

281

7/27/2019

472

1116

185

403

906

281

7181

1613

3625

7/6/2019 7/13/2019 7/20/2019

471

684

Dispute Resolution & Document Control

- I. Dispute Resolution:
 - a. Number of disputed accounts resolved:
 - b. Number of disputed accounts under review:
- II. Document Control:
 - a. Number of field activities posted :
 - b. Number of field activities pending:

Disconnect/Reconnect Unit

- I. Number of field activities received:
- II. Number of field activities completed:
- III. Number of field activities pending field action:

Meter Reading Unit

- I. Number of meters read:
 - a. Electronically Read Meters:
 - b. Manually Read Meters:
 - i. Unread meters (Meters scheduled to be read but not read):
 - ii. Number of data logs received:
 - iii. Number of data logs retrieved:
 - iv. Number of data logs pending field action:
 - v. Communication Errors/Reprogramming requests:
 - vi. Number of estimated readings (for the week):
 - vii. Reasons for Estimations:
 - 1. Cant locate meter:
 - 2. Temporary Obstruction
 - 3. Vicious Dog
 - 4. Flooded meter
 - 5. Corrective action requested (database corrections needed)
 - 6. Possible changed out meter:
 - 7. Communication/Programming error (code 92's): 8. Other:

 - 1. Leaks detected on customer's private line: 2. Reverse Flow Detected
 - 3. No Usage Detected

 - 4. Tamper Code
 - c. Electronic Read Percentage:

Revenue Protection Unit

I. Number of Inactive Still Consuming Reports rec'd & investigated: $\label{linear} \mbox{II.Number of Illegal Connection reports rec'd \& investigated:}$

| | | | _ | | | | |
|-------|-------|----------|-----------|-----------|-----------|-------|-------|
| | | 7/6/2019 | 7/13/2019 | 7/20/2019 | 7/27/2019 | | |
| 10509 | 42035 | 7890 | 10736 | 14314 | 6338 | 9820 | 39278 |
| 37 | 149 | 20 | 32 | 34 | 27 | 28 | 113 |
| 7 | 28 | 8 | 8 | 34 | 8 | 15 | 58 |
| 25 | 98 | 34 | 37 | 33 | 22 | 32 | 126 |
| 27 | 106 | 31 | 29 | 30 | 18 | 27 | 108 |
| 0.5 | 2 | 0 | 0 | 0 | 1 | 0.25 | 1 |
| 1.25 | 5 | 1 | 2 | 2 | 2 | 1.75 | 7 |
| 37 | 148 | 1479 | 2249 | 3036 | 1477 | 2060 | 8241 |
| | | | | | | | |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1 | 5 | 0 | 2 | 1 | 3 | 2 | 6 |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1 | 3 | 1 | 0 | 0 | 1 | 1 | 2 |
| 27 | 106 | 25 | 20 | 45 | 23 | 28 | 113 |
| 6 | 23 | 8 | 8 | 32 | 4 | 13 | 52 |
| 2 | 7 | 1 | 2 | 2 | 2 | 2 | 7 |
| 1 | 3 | 1 | 3 | 3 | 0 | 2 | 7 |
| 1500 | 6001 | 1069 | 1704 | 2282 | 789 | 1461 | 5844 |
| 64 | 255 | 70 | 143 | 38 | 297 | 137 | 548 |
| 444 | 1774 | 294 | 355 | 615 | 349 | 403 | 1613 |
| 16 | 64 | 10 | 12 | 16 | 9 | 12 | 47 |
| 99.6% | | 99.8% | 99.7% | 99.8% | 99.6% | 99.6% | |
| | | ı | i | 1 | 1 | 1 | |
| | | | | | | | |
| 1 | 3 | 0 | 0 | 3 | 3 | 2 | 6 |
| 1 | 2 | 0 | 0 | 4 | 0 | 1 | 4 |



Engineering Monthly Report August 2019

Prepared By: Thomas Cruz, P.E. Chief Engineer

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A. Summary Table of 2010, 2013 and 2016 Bond

Potable Water

| | | | % | | | | % | | | % | |
|----------|---|---------------------|------------|---------|----|---------------------|------------|--------|---------------------|------------|-------------|
| CIP# | CIP Description | Bond Allotment | encumbered | | _ | 2013 Bond Allotment | encumbered | | 2016 Bond Allotment | encumbered | % available |
| PW 05-01 | Ground Water Disinfection | \$ 500,000.00 | 100.00% | 0.00% | \$ | - | N/A | N/A | \$ - | N/A | N/A |
| PW 05-03 | Santa Rita Springs Booster Pump Rehab Phase II | \$ - | N/A | N/A | \$ | 100,000.00 | 100.00% | 0.00% | \$ - | N/A | N/A |
| PW-05-05 | "A Series Well Transmission Line | \$ 475,709.00 | 123.13% | -23.13% | \$ | 369,846.00 | 100.00% | 0.00% | \$ - | N/A | N/A |
| PW 05-06 | Water Booster Pump Station | \$ 500,000.00 | 77.87% | 22.13% | \$ | 1,679,964.00 | 99.16% | 0.76% | \$ - | N/A | N/A |
| PW 05-07 | Meter Replacement Program | \$ 10,450,000.00 | 87.42% | 12.58% | \$ | 996,532.00 | 100.00% | 0.00% | \$ 1,400,000.00 | 10.71% | 89.29% |
| PW 05-08 | Barrigada Tank Repair/Replacement | \$ 5,450,000.00 | 99.55% | 0.45% | \$ | 4,987,000.00 | 99.99% | 0.01% | \$ - | N/A | N/A |
| PW 05-09 | Leak Detection | \$ 200,000.00 | 100.06% | -0.06% | \$ | 16,916.00 | 100.00% | 0.00% | \$ 100,000.00 | 0.00% | 100.00% |
| PW 05-10 | Potable Water System Planning | \$ 200,000.00 | 100.00% | 0.00% | \$ | 624,000.00 | 100.00% | 0.00% | \$ 876,294.00 | 100.00% | 0.00% |
| PW 05-11 | Implement Ground Water Rule | \$ 1,699,999.00 | 100.00% | 0.00% | \$ | 1,000,000.00 | 100.00% | 0.00% | \$ - | N/A | N/A |
| PW 05-12 | Brigade II (Ugum Lift) BPS Upgrade | \$ 1,900,000.00 | 18.89% | 81.11% | \$ | | N/A | N/A | \$ - | N/A | N/A |
| PW 05-13 | Deep Well Rehabilitation | \$ 548,000.00 | 100.00% | 0.00% | \$ | 200,000.00 | 100.00% | 0.00% | \$ 250,000.00 | 44.01% | 55.99% |
| PW 05-14 | New Deep Wells at Down Hard | \$ 485,743.00 | 100.00% | 0.00% | \$ | | N/A | N/A | \$ 1,190,000.00 | 0.00% | 100.00% |
| PW 05-15 | Rehabilitation of Asan Springs | \$ 1,100,000.00 | 34.39% | 65.61% | \$ | - | N/A | N/A | \$ - | N/A | N/A |
| PW 05-16 | Master Meters | \$ 1,489,957.00 | 100.00% | 0.00% | \$ | 712,060.00 | 100.00% | 0.00% | \$ 2,151,539.00 | 7.04% | 92.96% |
| PW 09-01 | Ugum Water Treatment Plant Intake | \$ 700,000.00 | 96.06% | 3.94% | \$ | 859,801.00 | 51.77% | 48.23% | \$ - | N/A | N/A |
| PW 09-02 | Water Wells | \$ | N/A | N/A | \$ | 3,030,029.00 | 69.90% | 30.10% | \$ 2,500,000.00 | 6.80% | 93.20% |
| PW 09-03 | Water Distribution System | \$ 3,174,748.00 | 100.03% | -0.03% | \$ | 10,912,453.00 | 97.23% | 2.77% | \$ - | N/A | N/A |
| PW 09-04 | Pressure Zone Realignment | \$ | N/A | N/A | \$ | 337,110.00 | 100.00% | 0.00% | \$ 1,141,000.00 | 64.94% | 35.06% |
| PW 09-06 | Central Water Distribution System 2005 | \$ 775,002.00 | 100.00% | 0.00% | \$ | | N/A | N/A | \$ - | N/A | N/A |
| PW 09-08 | Mechanical/Electrical Equipment | \$ 1,200,000.00 | 96.75% | 3.25% | \$ | 426,799.00 | 98.71% | 1.29% | \$ - | N/A | N/A |
| PW 09-09 | Water Reservoir Internal/External | \$ 2,150,000.00 | 83.72% | 16.28% | \$ | | N/A | N/A | \$ - | N/A | N/A |
| PW 09-10 | Water Reservoir Internal/External | \$ | N/A | N/A | \$ | | N/A | N/A | \$ 800,000.00 | 100.00% | 0.00% |
| PW 09-11 | Water System Reservoirs 2005 Improvements | \$ 1,050,000.00 | 100.00% | 0.00% | \$ | 13,878,000.00 | 100.00% | 0.00% | \$ 58,830,170.00 | 38.38% | 61.62% |
| PW 11-01 | Distribution System Upgrades | \$ 474,159.85 | 100.00% | 0.00% | \$ | - | N/A | N/A | \$ - | N/A | N/A |
| PW 11-02 | Ugum Water Treatment Plant Reservoir | \$ | N/A | N/A | \$ | | N/A | N/A | \$ - | N/A | N/A |
| PW 12-01 | Water Audit Program & Water Loss Control Plan | \$ 78,459.00 | 19.16% | 80.84% | \$ | | N/A | N/A | \$ 550,000.00 | 70.83% | 29.17% |
| PW 12-02 | Production Plan / Reduce Navy Purchases | \$ 100,000.00 | 100.00% | 0.00% | \$ | | N/A | N/A | \$ - | N/A | N/A |
| PW 12-03 | Hydraulic Assessment of Tanks | \$ 500,000.00 | 100.00% | 0.00% | \$ | - | N/A | N/A | \$ - | N/A | N/A |
| PW 12-04 | Agana Heights & Chaot Tanks | \$ 4,700,000.00 | 100.00% | 0.00% | \$ | 1,330,287.00 | 100.00% | 0.00% | \$ 1,220,000.00 | 100.00% | 0.00% |
| PW 12-05 | Tank Major Repair Yigo #1, Mangilao #2, Astumbo#1 | \$ 1,848,013.00 | 97.57% | 2.43% | \$ | 11,605,000.00 | 100.00% | 0.00% | \$ 1,822,133.00 | 91.67% | 8.33% |
| PW 12-06 | Tank Replacement Piti & Hvundai | \$ | N/A | N/A | \$ | | N/A | N/A | \$ 7.300.000.00 | 100.00% | 0.00% |
| PW 12-07 | Assessment of Malojloj Elevated & Yigo Elevated | \$ 200,000.00 | 100.00% | 0.00% | \$ | 485,117.00 | 100.00% | 0.00% | \$ - | N/A | N/A |
| PW 12-08 | Public Water System Asset Inventory/ Condition Assessment | \$ 100,000.00 | 100.00% | 0.00% | \$ | - | N/A | N/A | \$ - | N/A | N/A |
| PW 12-09 | Public Water System GIS & Mapping | \$ 50,000.00 | 100.00% | 0.00% | \$ | - | N/A | N/A | \$ - | N/A | N/A |
| PW 14-01 | Fire Hydrant Replacement Program | \$ - | N/A | N/A | \$ | - | N/A | N/A | \$ 1,200,000.00 | 0.00% | 100.00% |
| | | \$ 42,099,789.85 | | | \$ | 53,550,914.00 | | | \$ 81,331,136.00 | | |
| | | | | | | | ļi | | | • | |

Wastewater

| | | | | % | | | % | | | % | |
|-----------|--|--------|----------------|------------|-------------|---------------------|------------|-------------|---------------------|------------|-------------|
| CIP# | CIP Description | 2010 B | Bond Allotment | encumbered | % available | 2013 Bond Allotment | encumbered | % available | 2016 Bond Allotment | encumbered | % available |
| WW 05-04 | Wastewater System Planning | \$ | 1,474,000.00 | 100.00% | 0.00% | \$ 650,901.00 | 88.51% | 11.49% | \$ 312,983.00 | 100.00% | 0.00% |
| WW 05-05 | Wastewater Vehicles | \$ | 235,000.00 | 100.00% | 0.00% | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 05-07 | NDWWTP - Chlorine Tanks | \$ | 250,000.00 | 100.00% | 0.00% | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 09-01 | Lift station upgrades | \$ | - | N/A | N/A | \$ 563,148.00 | 98.43% | 1.57% | \$ 1,714,755.00 | 27.10% | 72.90% |
| WW 09-06 | Wastewater Collection System Repl/ Rehabilitation | \$ | 1,001,323.00 | 103.40% | -3.40% | \$ 660,313.00 | 103.59% | -3.59% | \$ 1,055,478.00 | 52.63% | 47.37% |
| WW 09-08 | Facilities Plan/Design for Baza Gardens WWTP | \$ | 1,250,000.00 | 100.00% | 0.00% | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 09-10 | Facilities Plan/Design for Agat-Santa Rita WWTP | \$ | 899,630.00 | 100.00% | 0.00% | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 11-03 | Baza Gardens STP Replacement | \$ | 1,488,378.00 | 95.67% | 4.33% | \$ 9,656,874.00 | 99.69% | 0.31% | \$ 22,663,776.00 | 99.72% | 0.62% |
| WW 11-04 | Facilities Plan/Design for Umatac-Merizo WWTP | \$ | 853,858.00 | 105.52% | -5.52% | \$ 371,699.00 | 100.00% | 0.00% | \$ 252,105.00 | 100.00% | 0.00% |
| WW 11-08 | Agat/Santa Rita STP Replacement | \$ | 2,217,700.00 | 100.06% | -0.06% | \$ 67,200,000.00 | 100.00% | 0.00% | \$ 2,002,331.00 | 100.00% | 0.00% |
| WW 12-01 | Northern District WWTP Primary Treatment Upgrade | \$ | 11,743,514.00 | 100.00% | 1.59% | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 12-02 | Biosolids Management Plan | \$ | 200,000.00 | 100.00% | 0.00% | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 12-03 | Agana WWTP Interim Measures | \$ | 11,300,000.00 | 101.77% | 0.00% | \$ 673,000.00 | 100.00% | 0.00% | \$ - | N/A | N/A |
| WW 12-04 | I&I SSES Southern | \$ | 800,000.00 | 100.00% | 0.00% | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 12-05 | I&I SSES Central | \$ | 850,000.00 | 100.00% | 0.00% | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 12-06 | I&I SSES Northern | \$ | - | N/A | N/A | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 12 -07 | Umatac Merizo Replacement | \$ | 250,000.00 | 100.00% | 0.00% | \$ - | N/A | N/A | \$ 20,800,000.00 | 96.16% | 3.56% |
| WW 12-08 | Wastewater System GIS & Mapping | \$ | | N/A | N/A | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 12-09 | Wastewater Facility Back Up Power | \$ | - | N/A | N/A | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 12-10 | Wastewater System Asset Inventory | \$ | - | N/A | N/A | \$ - | N/A | N/A | \$ - | N/A | N/A |
| WW 17-01 | Wastewater Sewer System Expansion | \$ | - | N/A | N/A | | | | | | |
| WW 17-02 | Northern District WWTP Secondary Treatment Upgrade | \$ | 1,000,000.00 | 94.83% | 5.18% | | | | | | |
| | • | \$ | 35,813,403.00 | | | \$ 79,775,935.00 | | | \$ 48,801,428.00 | | |

Electrical Engineering Support

| | | | % | | | % | | | % | |
|----------|--|---------------------|------------|-------------|--------------------|------------|-------------|---------------------|------------|-------------|
| CIP# | CIP Description | 2010 Bond Allotment | encumbered | % available | 2013 Bond Allotmer | encumbered | % available | 2016 Bond Allotment | encumbered | % available |
| EE 05-02 | SCADA Pilot Project | \$ 61,950.00 | 100.00% | 0.00% | \$ | N/A | N/A | \$ - | N/A | N/A |
| EE 09-01 | Wastew ater Pumping Station Electrical Upgrade | \$ - | N/A | N/A | \$ 99,861 | 00 100.00% | 0.00% | \$ - | N/A | N/A |
| EE 09-02 | Bectrical Upgrade - Water Wells | \$ 354,227.00 | 100.00% | 0.00% | \$ 1,500,000 | 00 100.00% | 0.00% | \$ - | N/A | N/A |
| EE 09-03 | Bectrical Upgrade - Water Booster | \$ - | N/A | N/A | \$ | N/A | N/A | \$ - | N/A | N/A |
| EE 09-04 | Electrical Upgrade - Water Booster | \$ - | N/A | N/A | \$ 977. | 00 100.00% | 0.00% | \$ - | N/A | N/A |
| EE 09-05 | Bectrical Upgrade - Other Water | \$ - | N/A | N/A | \$ 60,700 | 00 100.00% | 0.00% | \$ - | N/A | N/A |
| EE 09-06 | SCADA Improvements - Phase I | \$ 250,000.00 | 100.00% | 0.00% | \$ | N/A | N/A | \$ - | N/A | N/A |
| EE 09-07 | SCADA Improvements - Phase 2 | \$ 1,056,986.00 | 100.00% | 0.00% | \$ | N/A | N/A | \$ - | N/A | N/A |
| EE 09-08 | SCADA Improvements - Phase 3 | \$ 24,956.00 | 100.00% | 0.00% | \$ 722,359 | 00 100.00% | 0.00% | \$ 1,077,497.00 | 74.43% | 25.57% |
| EE 09-09 | SCADA Improvements - Phase 4 | \$ - | N/A | N/A | \$ | N/A | N/A | \$ 4,378,118.00 | 72.85% | 27.15% |
| | | \$ 1,748,119.00 | | - | \$ 2,383,897 | 00 | - | \$ 5,455,615.00 | | |

Miscellaneous Engineering Support

| | | | | % | | | | % | | | % | |
|----------|--|--------|----------------|------------|-------------|-----|---------------------|------------|-------------|---------------------|------------|-------------|
| CIP# | CIP Description | 2010 E | Bond Allotment | encumbered | % available | . : | 2013 Bond Allotment | encumbered | % available | 2016 Bond Allotment | encumbered | % available |
| MC 05-01 | Laboratory Modernization | \$ | - | N/A | N/A | \$ | 1,171,465.00 | 99.95% | 0.05% | \$ 1,127,000.00 | 100.00% | 0.00% |
| MC 05-02 | Land Survey | \$ | 499,688.00 | 100.00% | 0.00% | \$ | 1,052.00 | 100.05% | -0.05% | \$ 1,260,524.00 | 94.96% | 5.04% |
| MC 09-01 | General Plant Improvements | \$ | 7,241,000.00 | 100.00% | 0.00% | \$ | 2,441,737.00 | 54.83% | 45.17% | \$ 1,543,760.00 | 96.97% | 3.03% |
| MC 15-01 | Information Technology Intergration Improvements | | | | | | | | | \$ 500,000.00 | 48.81% | 51.19% |
| | | \$ | 7,740,688.00 | | | \$ | 3,614,254,00 | | | \$ 4,431,284,00 | | |

| | 2010 | Bond Allotment |
|-------------------|------|----------------|
| CIP Water | \$ | 42,099,790 |
| CIP Wastewater | \$ | 35,813,403 |
| CIP Electrical | \$ | 1,748,119 |
| CIP Miscellaneous | \$ | 7,740,688 |
| | \$ | 87.402.000 |

| ١ | | |
|---|------|----------------|
| | 2013 | Bond Allotment |
| П | \$ | 53,550,914 |
| П | \$ | 79,775,935 |
| | \$ | 2,383,897 |
| | \$ | 3,614,254 |
| П | \$ | 139 325 000 |

| 20 | 016 Bond Allotment |
|----|--------------------|
| \$ | 81,331,136 |
| \$ | 48,801,428 |
| \$ | 5,455,615 |
| \$ | 4,431,284 |
| \$ | 140,019,463 |

| Bond Fund | Construction Fund Amount (\$M) | Estimated # of mont fund available for us | <u>:</u> | Total Funds encumbered to date (\$M) | % of fund used | Rate of Spending: (\$M) per year |
|--------------|--------------------------------------|---|----------|--|----------------|-------------------------------------|
| 2005 | \$82.930 | 82 | * | \$82.930 | 100.00% | 12.14 |
| 2010 | \$87.402 | 102 | ** | \$83.541 | 95.58% | 9.83 |
| 2013 | \$139.325 | 65 | ** | \$136.483 | 97.96% | 25.20 |
| 2015 | \$140.019 | 35 | | \$90.326 | 64.51% | 30.97 |
| | * - End date Nov | ember 2013 via CCU | JR | esolution 06-FY201 | 4 | |
| | ** Includes mon | th of August 2010 | | | | |

^{** -} Includes month of August 2019

B. Projects Procurement

Percentage Key:

Project Description

| 100% | Approved by GM |
|---------------|--|
| 99% | Signature required from either Accounting/Legal/GM |
| 98% | Processing engineering service or construction contract (with legal) |
| 95% | Request for CCU approval (GM/engineering) |
| 90% | A/E fee negotiation or contractor bid evaluation (engineering) |
| 80% | Selected A/E or Conducted bid opening (engineering) |
| 70% | Advertised RFP/IFB (engineering) |
| 60% | RFP/IFB Package under legal review |
| 50% | RFP/IFB Package completed (engineering) |
| Less than 50% | Project Scope of work development in progress |

Red text anywhere indicates a change from the last report.

Summary of project description

the Ysengsong Reservoirs.

BOX KEY FOR PROCUREMENT: (Type of Procurement) (Relevant CIP NO. or Funding Source) (Percentage complete for procurement) Activities/Notes: (see percentage key above) Consultant (listed when selected)

as installation of a water main to connect the new production wells to

| RFP PW 09-02 | New Well Construction (Construction Management) | |
|----------------------|---|---|
| <50% Complete | Activities/Notes: SOW being developed | |
| Project Description: | The work performed under this project procureme Construction Management and Inspection Service of up to three (3) new production wells for GWA. increase source water production to improve syste allows for operating the water production wells moverall goal of the Construction Manager (CM) is construction process so that the project can be deprofessionally. | es for the construction GWA plans to em redundancy that ore effectively. The to manage the entire |

| BID PACKAGE PW 14-01 | Fire Hydrant Replacement Phase I | |
|-------------------------|--|--|
| 95% Complete | Activities/Notes: Petition to be presented to PUC on August 2019. | |
| Project Description: | The work performed under this project consist of replacing all know dry barrel fire hydrants down to the lateral as well as any defective wet barrel fire hydrant. Where necessary the gate valve for the fire hydrant may also be replaced. | |

| BID PACKAGE PW 09-03, PW 09- 04 AND PW 09-11 | Northern/Southern Tanks (Santa Rita, Santa Rosa and Sinifa) Construction | |
|--|--|--|
| 90% Complete | Activities/Notes: All procurement activities put on hold. | |
| Project Description: | The work performed under this project procurement shall consist of Construction of a 1MG Santa Rosa reservoir and booster pump station, 1MG Santa Rita reservoir and 1MG Sinifa reservoir. Some piping work off site from the reservoir is also required to ensure the reservoirs functions optimally. | |

| BID PACKAGE | Groundwater Well Production Meter |
|----------------------|--|
| PW 05-07 | Replacement Project |
| 50% Complete | Activities/Notes: Design drawings and specification under review by GWA engineering. |
| Project Description: | The work performed under this project procurement shall consist of replacing the production well meter and associated well head piping tree. |

| RFP | Hagatna Wastewater Treatment Plant | | |
|----------------------|--|---|--|
| WW 12-03 | (HWWTP) Interim Disinfection | | |
| 100% Complete | Activities/Notes: | | |
| · | GWA executed a contract on July 2019 with | | |
| | Duenas, Camacho & Associates. | | |
| Project Description: | process using Peracetic Acid (PAA) for our chemi | duct a feasibility and pilot study for the use of an interim disinfection ess using Peracetic Acid (PAA) for our chemically enhanced ary treatment facility at the Hagåtña Wastewater Treatment Plant WTP). | |

| BID PACKAGE OEA GRANT | NDWWTP Upgrade to Secondary Project | |
|--------------------------|---|--|
| 100% Complete | Activities/Notes: GWA executed contract July 9, 2019 with NTP issued July 10, 2019. | |
| Project Description: | The work performed under this project procurement shall consist of constructing new oxidation ditches, clarifier, headworks at the newly acquired property adjacent to the NDWWTP as well as a new disinfection facility within the existing NDWWTP. Some structures at existing NDWWTP will undergo improvements works and a 16-inch watermain will be extended to the entrance of the existing plant. | |

| RFP OPEN PW, WW, EE, MISC. | Indefinite Delivery/Indefinite Quantity for Professional Project/Construction Management | |
|----------------------------------|--|--|
| 100% Complete | Activities/Notes: GWA executed in June 2019 contracts to two consulting firms, Brown & Caldwell and Duenas Camacho and Associates. | |
| Project Description: | | |

| RFP OPEN PW AND WW | Indefinite Delivery/Indefinite Quantity for Professional Design Services – Treatment Process | | |
|-----------------------|--|---|--|
| 100% Complete | Activities/Notes: GWA executed in June 2019 a contract to one consulting firm, Brown & Caldwell. | | |
| Project Description: | various Work Authorizations (WA) to complete rel- water (Ugum WTP) and wastewater treatment (Al The WA's may range from production water or wa | ering firm selected for the ID/IQ contract will be given rk Authorizations (WA) to complete related specifically to m WTP) and wastewater treatment (All WWTP) process. nay range from production water or wastewater process flow ater or wastewater process improvement design, raw water | |

| RFP | Indefinite Delivery/Indefinite Quantity for | |
|----------------------|--|--|
| OPEN PW, WW, | Professional Civil and Structural Design | |
| EE, MISC. | Services | |
| 100% Complete | Activities/Notes: GWA executed in June 2019 a contract to two consulting firms, AECOM and HDR. | |
| Project Description: | The two engineering firms selected for the ID/IQ of various Work Authorizations (WA) to complete. The from project managing a small to medium sized Comproviding limited construction management/inspects small to medium sized CIP project. | he WA's may range IP project for GWA to |

| BID PACKAGE | Bayside Sewer Pump Station | |
|----------------------|--|--|
| WW 09-06 | Improvements Project | |
| 50% Complete | Activities/Notes: | |
| | Design drawings and specification under review by GWA engineering. | |
| Project Description: | The work performed under this project procurement shall consist of converting existing facility to pump station to house two submersible pumps along with improvements to the electrical system and the relocation of a power transformer located near the facility out to the nearest GPA power pole. | |

BOX KEY FOR PROJECT: | Type of Project | (Project Title) (Contractor or consultant) (month and year) (Percentage complete for project) (brief description of activity) (month and year) (Court Order Paragraph No.) (Project type) | Project Description | Project Description Narrative |

C. CIP Water Section

| INSPECTION CIP PW 05-02 | Inspection & Maintenance Repairs to GWA Island-Wide Steel Water Tank Reservoirs Phase 2 (DCA) | Start Date: April 2010 |
|----------------------------|---|---|
| 80% Complete | Activities/Notes: GWA awaiting from A/E the new bid package for by-pass and repairs. Package expected in August. | Completion Date: Anticipate December 2021 |
| CO 38C | Engineering inspection services | |
| Project Description: | The Court Order requires GWA to inspect all active and in some cases inactive water reservoirs. The inspection results will allow GWA to determine if a reservoir requires repair or replacement. | |

| DESIGN | Brigade II BPS Upgrade | Start Date: |
|--|--|--|
| CIP PW 05-12 | (EM Chen) | April 2012 |
| 100% Complete (Basis of Design) 95% (Design) | Activities/Notes: GWA continuing to provide comments to design specification from designer. | Completion Date: Design services during construction December 2020 |
| N/A | Engineering design services | |
| Project Description: | The design project is intended to assess system water supply feed from the north as well as Ugum WTP and the water demands downstream from the Brigade BPS so as to reconfigure the piping into the BPS and resize the pumps to me system head requirements. | |

| DESIGN PW 09-11 | Northern and Southern Guam Reservoir Design (TG Engineers) | Start Date: May 2015 |
|----------------------|--|--|
| 65% Complete | Activities/Notes: Design engineer to provide services during construction for Santa Rosa, Sinifa and Santa Rita bid. Inarajan – Land procurement second site related to new BPS's still on-going. Ugum – Tank design on-going, approximately 35% complete. | Completion Date: Update: Due to property acquisitions issues for Inarajan and Ugum, design completion 6 months after property issue resolved. |
| CO 29 (b)(4) | Engineering design services | |
| Project Description: | The design services will consist of preparation of plans, specifications, and estimates (PS&E), which includes Basis of Design, design | |

| calculations, hydraulic modeling (EPANET), computational fluid dynamic modeling (CFD), construction schedule, topographical survey, property research, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto |
|--|
| CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction. The tank locations are Ugum, Santa Rita, Santa Rosa, Inarajan and Sinifa. |

| DESIGN PW 12-04 | Central Guam Reservoirs Design (GHD Inc.) | Start Date: May 2015 |
|----------------------|---|---|
| 65% Complete | Activities/Notes: Chaot #2 – See Central Tank Phase I Updates. Tumon #2 – See Central Tank Phase I Updates. Hyundai – See Central Tank Phase I Updates. Piti – GWA & designer preparing info for NPS easement/right of way to allow repair of existing Piti tank. Manenggon – 95% design near complete | Completion Date: Update: Due to property acquisitions issues for Piti and Tumon #1, design completion 6 months after property issue resolved. |
| | Tumon #1 – GWA still waiting for GIAA relative to land issues. Design of new tank started. | |
| CO 29 (b)(4) | Engineering design services | |
| Project Description: | The design services will consist of preparation of plans, specifications, and estimates (PS&E), which includes Basis of Design, design calculations, hydraulic modeling (EPANET), computational fluid dynamic modeling (CFD), construction schedule, topographical survey, property research, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction The tank locations are Hyundai, Pulantat, Chaot #2, Tumon #2, Piti & Tumon #1. | |

| CONSTRUCTION PW 09-03 | Line Replacement Phase IV (Giant Construction) | Start Date: February 14, 2016 |
|--------------------------|--|--|
| 92% Complete | Activities/Notes: Contractor work on-going at Famha (Chalan Pago), Hahasu (Dededo), Assumption Drive (Piti). | Completion Date: September 30, 2019 |
| | Construction Services | |
| Project Description: | The project is intended for a contractor to replace existing water lines that have been found by operations to be leaking and/or are causing service delivery to less than what GWA is required to provide. The project will replace water mains and ten known locations throughout the island and there is a component within the bid where line replacement work for unknown locations is accounted for. | |

| DESIGN PW 05-15 | Asan Spring Rehabilitation Design (HDR) | Start Date: August 24, 2016 |
|--------------------|--|-------------------------------------|
| 95% Complete | Activities/Notes: | Completion Date: |
| · | GWA working with National Park Service and designer relative to biological/environmental | Design services during construction |

| | survey. | estimated June 2020 |
|----------------------|--|--|
| | Engineering design services | |
| Project Description: | Perform site visits and condition assessment for determine demolition and rehabilitation require equipment condition, structural condition, and condition assessment shall include all disciplin project. Review and validate the current property bound confirm the available space for the project device. Perform an environmental impact study and propermits as needed. Perform an archeological and historical resource potential impact to the project, prepare all requireded. Coordinate with Guam Historic Resources Divices Preservation Office (SHPO) on historical resources all necessary reports and documents as required by Identify the existing and projected service area Identify and recommend conceptual water treated Hentify and recommend conceptual water treated Perform a Class 4 engineering cost estimate a American Association of Cost Engineers (AAC Estimate Classification System for construction include all disciplines, permit, construction and are necessary to execute the project. All costs dollars and escalated to the estimated midpoint | ment, process electrical system. Site es to execute the dary information to elopment. epare all required ces study to identify irred permits as sion State Historic rces study. Prepare ed by SHPO. Ire, Division of Aquatic clearance. Prepare all DAWR. I, period of design. tment system. ccording to the E) International Cost in fee. Cost must administration that will be in current |

| CONSTRUCTION PW 09-11, PW 12-05 | Yigo/Astumbo Tank Construction (Pernix) | Start Date: December 1, 2016 |
|---------------------------------------|---|--|
| 99% Complete | Activities/Notes: Yigo #1: close out on-going Yigo #2: close out on-going. Astumbo #1 (New Concrete): contractor finalizing remaining punch list items. Construction Services | Completion Date: 10/31/18 (LD are being totaled) |
| Project Description: | This project will involve construction of two (2) 2MG concrete tanks and Booster Pump Station at the Yigo site and a one (1) 2MG concrete tank at the Astumbo site. Work will involve new pipe line, valves, electrical controls, pumps and motors, site drainage, paving, generator for the BPS, SCADA, etc. | |

| CONSTRUCTION MANAGEMENT PW 09-11, PW 12-05 | Yigo/Astumbo Tank Construction Management (GHD) | Start Date: December 2016 |
|---|--|---------------------------------|
| 99% complete | Activities/Notes: Working to complete project close out requirements but due to additional time required by contractor the CM services required as well. GWA executed Change Order after CCU | Completion Date: August 2019 |

| | approval. | |
|----------------------|---|---|
| N/A | Construction Management services | |
| Project Description: | The work performed under this project procureme Construction Management and Inspection Service existing steel elevate and ground tanks as well as the 2MG concrete tanks at the Yigo tank location location. The overall goal of the Construction Marmanage the entire construction process so that the delivered efficiently and professionally. | es for the demolition of the construction of and Astumbo tank nager (CM) is to |

| CONSTRUCTION MANAGEMENT PW 12-04-11, PW 12-06 AND PW 09-11 | Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction Management (TG Engineers, PC) | Start Date: December 2017 |
|--|---|---|
| 30% complete | Activities/Notes: Conducting field inspection, reviewing submittals from contractor. | Completion Date: Due to changes with AIC contractor CM services to extend to 04/31/20 |
| NA | Construction Management services | |
| Project Description: | The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of three water reservoirs; 0.5MG Chaot #2, 1MG Tumon #2 (Nissan) and 1MG Hyundai. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally. | |

| CONSTRUCTION PW 12-04, PW 12- 06 AND PW 09-11 | Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction (AIC) | Start Date: February 8, 2018 |
|---|--|------------------------------------|
| 30% Complete | Activities/Notes: Nissan tank site: off-site piping investigation completed. Hyundai tank site: Demo of existing steel tank completed. Foundation work for new tank ongoing. Chaot #2 tank: Foundation work for new tank on-going. | Completion Date: April 30, 2020 |
| | Construction Services | |
| Project Description: | The work performed under this project procurement shall consist of Construction of three water reservoirs; 0.5MG Chaot #2, 1MG Tumon #2 (Nissan) and 1MG Hyundai. Some piping work off site from the reservoir is also required to ensure the reservoirs function optimally. | |

| CONSTRUCTION MANAGEMENT PW 09-11 | Northern and Southern Tank Phase I (Santa Rosa, Sinifa, Santa Rita) Construction Management (GHD) | Start Date: April 2018 |
|--|---|---------------------------|
| 0% Complete | Activities/Notes: | Completion Date: |
| 10% Complete | Activities/Notes: | Completion Date: |
| 0% Complete | CM is assisting with bid evaluation. | August 2019 |

| Project Description: | The work performed under this project procurement shall consist of |
|----------------------|--|
| , , | Construction Management and Inspection Services for the construction |
| | of three water reservoirs; 1MG Santa Rosa, 1MG Sinifa and 1MG Santa |
| | Rita. The overall goal of the Construction Manager (CM) is to manage |
| | the entire construction process so that the project can be delivered |
| | efficiently and professionally. |

| DESIGN CIP PW 05-12 | Pressure Zone Realignment and Tank Repair-Replacement (GHD) | Start Date: August 2018 |
|--|---|--|
| 10% Complete Design will be done in Phases. Phase 1 - 90% (Design) | Activities/Notes: Design on-going. GWA anticipating receiving 100% plans and specification for Phase I on 8/15/19. | Completion Date: Due to property acquisition issues GWA anticipate December 2020 |
| N/A | Engineering design services | |
| Project Description: | The design project is intended to assess current and recommended pressure zones, and design and install control valves (PRVs, PRSVs) to properly control and measure system flow between zones. Scope also includes setting up pilot DMAs; and design for new or repaired water tanks needed to complete the court order tank requirements. | |

D. CIP Wastewater Section

| DESIGN WW 11-08 | Agat-Santa Rita WWTP Replacement (DCA) | Start Date: October 2014 |
|----------------------|---|--|
| 100% Design | Activities/Notes: CCU approved funding increase for design services with Change Order No. 4 executed 012819. Design services during construction work on-going. | Completion Date: Nov. 2015 (design); June 2019 (design services during construction) |
| CO 11 | Engineering design services | |
| Project Description: | The engineering design consultant is required to design a new wastewater treatment facility that will meet secondary treatment limits. The new facilities will incorporate provisions for redundancy to improve reliability and facilitate operations and maintenance activities at the existing facility | |

| CONSTRUCTION | Agat Santa Rita WWTP CM (GHD) | Start Date: |
|--|---|--|
| MANAGEMENT | | End of June 2019 |
| WW 11-08 | | |
| 100% (PH 1) 100% Complete (PH 2, Part 1) 99% Complete (PH 2, Part B) | Activities/Notes: CM working with contractor regarding the remaining CCR's to be processed and confirm substantial completion. | Completion Date: Completion date to coincide with construction completion. |
| CO 11 | Construction Management services | |
| Project Description: | The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction | |

| of the Agat Santa Rita WWTP Phase II project. GWA plans to replace the existing wastewater treatment plant for a new plant that can meets permit limits. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be |
|---|
| delivered efficiently and professionally. |

| CONSTRUCTION WW 11-08 | Agat Santa Rita WWTP Phase II (Sumitomo Construction) | Start Date: January 2016 |
|---|---|--|
| Part 1 of Phase II- 100% Complete Part 2 of Phase II- 95% complete | Activities/Notes: Contractor working on punch list items. | Completion Date: Part 2 of Phase II - End of July 2019 |
| CO 11 | Construction services | |
| Project Description: | This project includes construction of the head works, clarifier, oxidation ditches and UV disinfection and administration facilities. Rehabilitation work at the existing WWTP will also occur to ensure the wastewater can be pumped to the new plant. The new plant will also tie into the Tipalao SPS. | |

| DESIGN WW 09-08, WW11-03 | Baza Gardens Cross Island Sewer Design (DCA) | Start Date: February 5, 2016 |
|---------------------------------------|--|---|
| 100% Design 95% Construction Services | Activities/Notes: DCA providing engineering services during construction. Phase I & II are 99% complete and Phase III is 95% completed. | Completion Date: Delayed, August 2019 projected |
| CO 11 | Engineering design services | |
| Project Description: | The intent of this project for an engineering firm to prepare design drawings and specification for a sewer conveyance from the Baza Garden WWTP to the new Agat Santa-Rite WWTP. The design will take into account growth in the Baza Gardens/Talofofo areas as wells as new connection along the Route 17 route. | |

| DESIGN WW 09-06 | Bayside SPS Improvements Design (EMPSCO) | Start Date: July 29, 2016 |
|--|--|--|
| 100% Design 0% Construction Services | Activities/Notes: Design services during bidding necessary, GWA working to advertise bid asap. | Completion Date: Due to issue with ACOE anticipate December 2017 for |
| | GWA secure separate bids for the two separate projects and execute award of both projects under a single contract. This include the Pump Station Rehabilitation and Underground Power Cable. | design only. |
| | Due to concerns regarding RC 2019-0143 stating that Underground Power Cable is a Section 106 undertaking, GWA set a meeting to SHPO to discuss Section 106. | |
| | Engineering design services | |
| Project Description: | The intent of this project for an engineering firm to drawings and specification to upgrade the Bayside | |

| challenges. |
|-------------|
|-------------|

| CONSTRUCTION | Baza Gardens Cross Island Road Sewer | Start Date: |
|----------------------|--|----------------------------------|
| WW 09-08, | Conveyance Construction Phase I | October 2016 |
| WW 11-03 | (BME and Sons) | |
| 99% Complete | Activities/Notes: | Completion Date: |
| | Project close out on-going. | Final completion expected August |
| | Mandrel test of pipe on-going. | 2019 |
| | Tropos Routers connected to Aplacho Pump | |
| | Stations were already installed. GPA to | |
| | configure the Tropos Router and do the testing. | |
| | Construction services | |
| Project Description: | The work performed under this project consist of construction of 14,714' | |
| | of gravity main, 2,767' of force main and sewer pump station #3 next to | |
| | the Aplacho River in Santa Rita. | |

| CONSTRUCTION MANAGEMENT WW 09-08 WW 11-03 | Baza Gardens Cross Island Road Sewer Conveyance (Construction Management) (SSFM) | Start Date: December 5, 2016 |
|---|---|---|
| 95% Complete | Activities/Notes: Continuous monitoring of Phase III completion, and added features for Phases I and II. Project close out documentation underway | Completion Date: September 2019 (Completion date to coincide with Phase III Construction completion) |
| | Construction Management services | |
| Project Description: | The work performed under this project shall consist of Construction Management and Inspection Services for the construction of gravity main, force mains and sewer pump station as well as an equalization basin at the Baza Garden WWTP. | |

| CONSTRUCTION WW 09-08, WW 11-03 | Baza Gardens Cross Island Road Sewer Conveyance Construction Phase II (BME and Sons) | Start Date: March 2017 |
|---------------------------------------|--|---|
| 99% Complete | Activities/Notes: Project close out on-going. | Completion Date: Final completion expected August |
| | Mandrel test of pipe on-going. Tropos Routers connected to Windward Pump Stations were already installed. GPA to configure the Tropos Router and do the testing. | 2019 |
| | Construction services | |
| Project Description: | The work performed under this project consist of construction of 1,767' of gravity main, 14,400' of force mains and sewer pump station #2 along Route 17. | |

| CONSTRUCTION WW 09-08, WW 11-03 | Baza Gardens Cross Island Road Sewer Conveyance Construction Phase III (Sumitomo Construction) | Start Date: June 2017 |
|---------------------------------------|---|--|
| 95% Complete | Activities/Notes: Contractor/GWA working Change Order Proposal which would move forward close-out of project. SCADA installation and coordination with GPA regarding the installation and connection of the Tropos Routers at Baza PS to the power system is underway. | Completion Date: End of September 2019 |
| | Construction services | |
| Project Description: | The work performed under this project consist of construction of, but not limited to, 10,481' of force mains and sewer pump station at existing WWTP, equalization tanks, stand-by generator, improved headworks, grit removal system, and associated equipment. | |

| CONSTRUCTION WW 11-04 | Umatac Merizo WWTP Design Build Improvements Project (CoreTech) | Start Date: June 2017 |
|---------------------------------|---|----------------------------------|
| 100% Design 90% Construction | Activities/Notes: Headworks gates installed. Rotating drum screens installed. DN Tank completed the equalization tank. Tank being filled for leakage test. UV structure walls and roof poured. Slide gates being installed. Northern terrace completed, receiving effluent to irrigate planted grasses. Southern terrace nearing completion. Run-off collection ditch under construction. Change Proposals: Compensation request for multiple weather delays anticipated. Executed Change Orders through #9. Processing Change Orders for Archaeological Plan and Monitoring; Placement of Lean Concrete. Proposed Change Order for extending the lagoon concrete apron being reviewed. | Completion Date: October 2019 |
| | | |
| Project Description: | The project is intended to improve the aeration basin, construct a new sewer pump station, regrade the overland field, construct a new effluent storage tank and disinfection facility. The overland percolation terraces are being regraded to ensure appropriate distribution of effluent through the entire terrace. | |

| CONSTRUCTION MANAGEMENT WW 11-04 | Umatac Merizo WWTP Design Build Improvements Project (SSFM Inc) | Start Date: September 7, 2017 |
|--|--|----------------------------------|
| 85% | Activities/Notes: Continuing on-site inspection of field activities. | Completion Date: October 2019 |
| Project Description: | Construction Management services The work performed under this project procurement shall consist of Construction Management and Inspection Services for the improvements works at the aeration basin, new sewer pump station, overland field improvements, effluent storage tank. The overall goal of the On-Site Representative is to ensure materials are installed and installation conforms to the contract plans and specifications and that all required testing is performed and passes. | |

| DESIGN | Yigo SPS Flood Protection and | Start Date: |
|----------------------|---|------------------|
| WW 09-01 | Rehabilitation Design (AECOM) | August 2, 2018 |
| 100% Complete | Activities/Notes: | Completion Date: |
| - | Design is completed July 31, 2019. | July 31, 2019 |
| | Engineering design services | |
| Project Description: | The work performed under this project procurement shall consist of a design services to implement storm water mitigation measures to protect the facility during extreme weather as well as rehabilitate the facility to provide better redundancy and operate efficiently. | |

E. CIP Engineering Support

| DESIGN EE 09-08 | SCADA System for Water and Wastewater Facilities Phase A-1 (AECOM) | Start Date: June 2015 |
|---|---|--|
| 100% Complete (design) 30% Services during construction | Activities/Notes: AECOM to provide assistance during bidding process. | Completion Date: November 2017 - Design December 2019 - (Bid and Construction Support) |
| N/A | Engineering design services | |
| Project Description: | The A/E firm will design an integrated, robust and secure Supervisory Control and Data Acquisition (SCADA) system for GWA's water and wastewater systems, and to provide support services during bid and construction. The 22 sites will consist of a combination of water facilities such as production wells, reservoirs, booster pump station and wastewater sites include sewer treatment plants and sewer pump stations. Executed by approved change orders, number of sites in original design scope has changed from 22 sites to 19 sites and design of High Water Alarm for 20 critical sewer pump stations has been added. Scope also includes bid and construction support of the design-build project of GPWA SCADA EMS project. | |

| CONSTRUCTION EE 09-08, EE 09-09 | SCADA Phase A1 Construction (G4S Security) | Start Date: July 13, 2018 |
|------------------------------------|---|--------------------------------|
| 12% Construction | Activities/Notes: Contractor work on-going at several facilities. | Completion Date: December 2019 |
| | Construction services | |
| Project Description: | The work performed under this project procurement shall consist of Construction of SCADA ready instrumentation at several water and waste water facilities throughout the island. | |

| CONSTRUCTION MANAGEMENT EE 09-08, EE 09-09 | SCADA Phase A1 Construction Management (GHD) | Start Date: August 29, 2018 |
|--|--|-----------------------------------|
| 45% Complete | Activities/Notes: | Completion Date: December 2019 |
| | Inspection on-going at various facilities. Construction Management services | December 2019 |
| Project Description: | The work performed under this project procurement shall consist of Construction Management and Inspection Services for the installation SCADA ready instrumentation at several water and waste water facilities throughout the island. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally. | |

F. GIS Section

| MAPPING MC 05-02 | Island Wide Survey- (Duenas, Camacho & Ass.) | Start Date: December 2007 |
|----------------------|--|--------------------------------|
| 99% complete | Activities/Notes: Map regarding Airport Tank easement boundary is pending easement agreement with GIAA and final parceling map. A final map has been prepared for AG-12 and is awaiting the signature of the CLTC Director, Mr. Hattig. | Completion Date: April 2019 |
| | Survey services | |
| Project Description: | The contracted land surveyor is required to conduct title research, property valuation and mapping of property boundaries where GWA facilities are located, including the lots which are not registered under GWA's name. | |

| MAPPING | Island Wide Survey PH II - | Start Date: |
|--------------|---|--------------------------------|
| MC 05-02 | (Duenas, Camacho & Ass.) | August 30, 2017 |
| 75% complete | Activities/Notes: First set (25): All maps completed. Second set (20): All maps completed. Third set (20): 20 maps submitted to GWA for review and comment. | Completion Date: December 2019 |
| | Survey services | |

| Project Description: | The work performed under this project procurement shall consist of a professional land surveyor conducting field work to mark corners of existing government properties as a means of severing out portions of |
|----------------------|--|
| | the larger property to be deeded to GWA. Surveyor shall also prepare all necessary maps and documents for recording at DLM |

G. Permits Section

PERMITS MONTHLY REPORT 2019

| | 2018/2019 | 2019 | | | | | |
|----------------------------|-----------|------|-------|-------|-----|------|------|
| Description | Dec/Jan | Feb | March | April | May | June | July |
| Building Permit | 36 | 2 | 52 | 3 | 22 | 13 | 21 |
| Occupancy Permit | 1 | 13 | 0 | 17 | 4 | 4 | 6 |
| New Installation | 20 | 4 | 28 | 0 | 8 | 8 | 9 |
| Sewer Application | 0 | 3 | 3 | 1 | 0 | 1 | 0 |
| Sewer Inspection | 1 | 1 | 3 | 0 | 0 | 1 | 1 |
| Private Utility Acceptance | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Relocation of Water Meter | 2 | 1 | 7 | 0 | 0 | 2 | 0 |
| Tapping-Water | 13 | 1 | 11 | 0 | 0 | 1 | 3 |
| Tapping-Sewer | 1 | 1 | 9 | 0 | 1 | 3 | 1 |
| Clearance-Water | 27 | 11 | 53 | 12 | 11 | 18 | 250* |
| Clearance-Sewer | 27 | 11 | 53 | 12 | 11 | 1 | 2 |
| Highway Encroachment | 1 | 9 | 1 | 3 | 0 | 0 | 0 |
| Verification of Utilities | 19 | 3 | 24 | 8 | 1 | 10 | 11 |
| Fire Flow Test | 4 | 1 | 0 | 1 | 0 | 1 | 0 |
| Schedule Water Outage | 1 | 0 | 2 | 0 | 0 | 1 | 0 |

^{*} Includes Work Orders that were completed prior to July 2019, but not closed in JDE until July 2019.

H. SRF Project Status Report

Projects listed below that are noted to be in the procurement phase will follow the "Percentage Key" below.

Percentage Key: 100% Approved by GM 99% Signature required from either Accounting/Legal/GM 98% Processing engineering service or construction contract (with legal) 95% Request for CCU approval (GM/engineering) 90% A/E fee negotiation or contractor bid evaluation (engineering) 80% Selected A/E or Conducted bid opening (engineering) 70% Advertised RFP/IFB (engineering) 60% RFP/IFB Package under legal review 50% RFP/IFB Package completed (engineering) Less than 50% Project Scope of work development in progress

- Red text anywhere indicates a change from the last report.
- Cells highlighted in green indicate contract amount certified and project active.

NOTE: Table below only reflects SRF projects that are still active. All other projects previously shown are on prior reports.

| Proj | ject | Project Description | Project Manager | Phase | | Start Date (NTP Issued) | Anticipated Completion Date | Contract Amount (+) change orders | Contractor | Status as of 8/12/19 | |
|--------------------|--|---|--|---------------------------------------|---|---|---|--|---|---|--|
| Hagatna Line Re | n-Adelup- ia RT1 Sewer ehabilitation eplacement | Rehabilitation of sewer lines from the War in the Pacific Asan Park to the Governor's Complex in Adelup. This line is asbestos concrete that is dilapidated and | Brown & Caldwell | 3/30/2017 Design 2 12/11/2015 Design | | 3/30/2017 for Design requirements | \$ 1,780,210.00 | HDR | Route 1 rebid: HDR providing services and submittal reviews during construction | | |
| | | some areas have disintegrated crowns. | | Construction | 2 | 11/9/2018 | 3/8/2020 | \$6,275,782.88 | InfraTech | 1. Subcontractor continuing to clean and CCTV sewer lines; process has been slow due to a large amount of debris in the sewer lines. 2. Contractor continuing work on excavation across Asan Beach Park on spot repair due to missing crown of pipe; process slowed due to communications utilities directly over sewer. 3. Contractor continuing to work through submittals with CM. | |
| | | | | Const. Mgmt | 2 | 8/3/2017 | 3/8/2020 | \$ 870,610.41 | DCA | CM working with contractor on submittals. CM working with designer on review of CCTV and responding to contractor's claim on differing site conditions due to the difficulty of cleaning the sewer lines and the amount of debris being encountered. | |
| Pacific Rehabi | at War in the Sewer Line ilitation and lacement | ehabilitation of a large segment of sewer line fronting the War in the Pacific Park in Agat that has collapsed. | Brown & Caldwell | Design | 3 | 11/17/2015 | 3/30/2017 for Design requirements | \$ 316,681.00 | SSFM | SSFM providing services during bidding process as well as construction phase. | |
| | | | | Construction | 3 8/31/2017 (Contractor in LD Period) \$ 4,646,11 | | \$ 4,646,115.30 | ProPacific | PPBC working on internal coating of manholes. PPBC cleaning and CCTV of sewer lines for inspection and acceptance. PPBC completing manhole hydrostatic tests. Contractor working on COs for additional time (47 days) and costs associated with additional time for SEARCH; CM assisting. Contractor continues to face delays and accumulate LDs, and time to completion extended to end of August; SEACH issue still ongoing and not paid. | | |
| | | | | Const. Mgmt | 3 | 9/19/2017 | 10/1/2018 | \$ 584,725.00 | TG Engineers | Working with contractor on COs for additional time and costs. Processing Contractor Invoice #17. S. Still waiting on cost proposal from CM for time extension and associated costs. | |
| | & Caldwell Project | Brown & Caldwell to provide program management services | T. Cruz | Design | 4 | 3/24/2015 | 2/28/2019 | \$ 2,640,220.00 | B&C | Project underway. | |
| Man | nagement | and support. | | Construction | | | | The project does no | ot involve const | ruction. | |
| | | | | Const. Mgmt | | | | | | | |
| Reha (F-3, A- | dwater Wells abilitation -2, A-7, A-12, D-5) | Rehabilitation of existing deep wells and/or in cases where pipe column needs replacing, wells will be re-drilled. The deep wells | s and/or in cases where pipe umn needs replacing, wells Design 6 5/27/2016 design of d | | 2/28/2018 (for design only) | \$ 1,758,247.00 | AECOM | AECOM working on minor changes on plans and specifications. - Subconsultants have been changed and plans will need their signatures. - Some revisions on plan sheets | | | |
| | | to be rehabilitated are A-2, A-7, A- 12, D-5, & F-3. | B. Railey | Construction | | 8/15/2019 | 8/30/2020 | | | Project assigned to Ryan Diaz who is working with Gloria Bensan to advertise IFB by August 2019. | |
| | | | | Const. Mgmt | | 8/15/2019 | 8/15/2019 8/30/2020 | | | RFP was issued 7/30/19. Proposal deadline is 8/16/19. | |

| 8 | Tumon Sewer Hot Spots | Investigation, evaluation, and repair of possible solutions, to long plaguing issues where sewer overflows are known to | Brown & Caldwell | Design | 7 | 6/24/2016 | 10/30/2017 for design only | \$ 572,089.00 | TG Engineers | TGE to provide engineering services during bid process. |
|----|--|---|--|--------------|----------------|------------|---|--------------------|------------------|---|
| | | occur in Tumon San Vitores. | | Construction | | 12/1/2018 | 12/31/2019 | | | Given GWA only received bids for the Tamuning Hotspots and they came in much higher than the engineers cost estimates, GWA will re-issue the IFB. On August 9, 2019, GWA issued an IFB for the Tumon and Tamuning Hot Spots Sewer Line Rehabilitation and Replacement (re-bid). |
| | | | | Const. Mgmt | See Project 15 | 5/31/2019 | Procurement 100%: Contract fully executed. CM services to be on hold until bidding restarted. | | | |
| 12 | RT4 Relief Sewer Line Rehabilitation and Replacement | Rehabilitation of sewer lines that are located from Agana McDonalds to Marine Drive that | Brown & Caldwell | Design | 9 | 3/1/2016 | 4/22/2017 | \$ 794,000.00 | AECOM | AECOM to provided services during construtcion. |
| | | have been known to overflow due to structural issues. | | Construction | 5 | 9/3/2018 | 6/30/2020 | \$ 3,998,688.00 | Insituform | Contractor received permit from DPW. Contractor working on updated schedule and submittals. Contractor mobilizing equipment and traffic control. |
| | | | | Construction | 6 | 9/25/2018 | 6/30/2020 | \$ 3,407,848.00 | ProPacific | Contractor received permit from DPW. Contractor working on updated schedule and submittals. Contractor mobilizing equipment and traffic control. Contractor posting traffic signage and notifying public of upcoming work. |
| | | | | Const. Mgmt | 6 | 11/15/2018 | 12/31/2019 | \$ 702,678.13 | EMPSCO | Planning and coordination on-going to ensure project site managed accordingly. Working with the contractors on schedules, submittals, and public notifications. Working with contractors on COs mainly due to the delay from permitting and the hour restrictions being enforced. |
| 13 | Groundwater Wells Rehabilitation | Rehabilitation of existing deep wells and/or in cases where pipe | Brown & Caldwell | Design | | | | The design was pre | eviously complet | ed under bond funding. |
| | (D-3, D-17, D-18, D- 22, M-9) | column needs replacing will be re-drilled. D-3, D-17, D-18, D-22, and M-9. | nn needs replacing will be lled. D-3, D-17, D-18, D-22, | Construction | 7 | 8/19/2016 | 3/30/2018 (completion date under analysis) | \$ 6,158,240.67 | Pacific Rim | Main issues remaining: - Project close out on-going All work completed for D-3. |
| | | | | Const. Mgmt | 7 | 3/22/2016 | 3/30/2018 (completion date under analysis) | \$ 1,041,722.56 | EA | CM working on close out documentation. |

| Ī | .4 | Southern SSES Sewer | Rehabilitation of segments of sewer lines in Windward Hills, | Brown & Caldwell | Design | | | | The design was previously completed under bond funding. | | | | | | | | |
|---|------|---|--|------------------|--|----|------------|---|---|--------------|--|--|--|--|--|--|--|
| | | Rehabilitation (Baza Gardens- Talofofo) | Talofofo area where the Sanitary Sewer Evaluation Study recommends rehabilitation. | | Construction 8 | | 8/2/2016 | 7/1/2020 | \$ 1,189,815.00 | ProPacific | 1. Invoice a) Partial retainage for completed and accepted work in the Baza Garden and Talofofo area paid to contractor (as discussed in lift station change order) 2. Lift Station Design/Construction a) No cost change order for the deisgn and construction of Hyundai Lift Station exectued on July 17, 2019. b) PPBC authorized to begin design of lift station, biological assessment, and property survey. PPBC has until October 2019 to complete these three tasks. 3. Lift Station Force Main Permits a) GEPA 401c- To be submitted to GEPA week of Aug. 12 b) Federal Consistency - waiting until Biological Assessment is complete before submitting. Anticipated week of Aug. 19. c) NationWide Permit 12 - Drafted and ready to submit to USEPA for submission after Biological Assessment is received 4. Property Ownership for Lift Station and Force Main Easement a) Property owner and GWA agreed to a new sewer easement that aligns with the lift station's forcemain. b) Project contractor currently using surveyor to develop a property map showing new easement 5. Baza Gardens a) CIPP Status: Only one CIPP installation pending acceptance due to lateral connection defect. Potential change order to resolve this issue. | | | | | | |
| | | | | | Const. Mgmt | 8 | 7/29/2016 | Pending acceptance of final CIPP installation | \$ 425,756.09 | EMPSCO | Due to contractor's continued delays, Change Order No. 6 was executed in the amount of \$6,067.66 for EMPSCO to perform project closeout services and documentation in the Baza Gardens and Talofofo areas only. Construction contractor has acknolwedged their responbility and will pay for the additional costs. EMPSCO's closeout services (e.g., compile record drawings, correspondence, submittals, etc.) for the Baza Gardens and Talofofo areas will begin after project. | | | | | | |
| | .5 1 | Famuning Sewer Hot Spots | Sewer rehabilitation for lines at Winner Apartments, Segund Leon Guerrero, and behind Guam Premium Outlets. | Brown & Caldwell | Design | 10 | 9/9/2016 | 10/31/2017 (for design only) | \$ 663,629.00 | TG Engineers | TGE to provide engineering services during bid process. | | | | | | |
| | | | | | Construction | | 12/1/2018 | 12/31/2019 | | | Given GWA only received bids for the Tamuning Hotspots and they came in much higher than the engineers cost estimates, GWA will re-issue the IFB. On August 9, 2019, GWA issued an IFB for the Tumon and Tamuning Hot Spots Sewer Line Rehabilitation and Replacement (re-bid). | | | | | | |
| | | | | | Const. Mgmt | 9 | 3/31/2019 | 3/31/2020 | \$531,000.75 | Am Orient | CM services to be on hold until bidding restarted. | | | | | | |
| | .6 | Talofofo Sewer Pump Stations (4 stations) | Design and construction of 4 sewer lift stations in the Talofofo village where sewer lines are installed but never completed. | T. Cruz | Design (for Talofofo and Chalan Pago PS) | 11 | 8/17/2016 | 11/30/2017 | \$ 493,818.86 | EMPSCO | Design services during construction on-going. GWA design plan review of Chalan Pago SPS on-going. | | | | | | |
| | | | | | Construction | 9 | 12/27/2018 | 5/29/2020 | \$ 2,411,418.00 | Giant Const. | 1. Contractor received building permit. 2. Wetwell installation and Excavation work on-going. 3. All forcemain and sewer manhole installations done. 4. Two Wet Well Precast done. 5. Time extension Change Order approved. | | | | | | |
| | | | | | Const. Mgmt | | 12/1/2018 | 12/31/2019 | | | GWA Engineering will management construction management tasks. | | | | | | |

| 17 | Chalan Pago Sewer Pump Station | Design and construction of sewer lift stations and gravity lines in Scott Laguana, Santa Cruz Street Chalan Pago. | T. Cruz | Design | | 8/17/2016 | 11/30/2017 | The design will be included with the Talofofo Pump Station design project. | | | | | |
|----|---|--|-----------------------------|--------------|----|-----------|------------|--|----------|--|--|--|--|
| | | | | Construction | | 5/15/2019 | 3/30/2020 | | | Issue related to outdated Biological Report requires GWA to fund updated report per request from USF&W. | | | |
| | | | | Const. Mgmt | | 5/15/2019 | 3/30/2020 | | | GWA Engineering will be providing construction management. | | | |
| 18 | Water Hydraulic Model (SCADA ready instruments to update Model) | Design and construction of instrumentation at key water sites in the Barrigada service area necessary to update GWA Water hydraulic model. | B. Cruz | Design | 12 | 8/3/2016 | 3/15/2017 | \$ 523,268.00 | GHD | Design complete. | | | |
| | | | | Construction | | 6/15/2019 | 6/30/2020 | | | The scope of work for the project is being incorportaed into the Pressure zone realignmnet project due to the similaity work and same design engineer. Anticipate advertising construction August 2019. | | | |
| | | | | Const. Mgmt | | 6/15/2019 | 6/30/2020 | | | USEPA Grant Funding FY18 in hand. Anticipate advertising CM April 2019. | | | |
| 23 | Project Advertisement | Each IFB or RFP requires advertising | Engineering/ Procurement | MISC | 1 | | | \$ 25,172.50 | PDN/Post | On-going | | | |

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GUAM WATERWORKS AUTHORITY Balance Sheet July 31, 2019

SCHEDULE A

| July 31, 2019 | | | |
|---|-------------------------|---|---------------------------------------|
| | Unaudited | Audited | Increase/ |
| ASSETS AND DEFERRED OUTFLOWS of RESOURCES | July 31, 2019 | September 30, 2018 | (Decrease) |
| Current Assets | | | |
| Cash | 0.404.770 | 0.004.070 | 0.040.000 |
| Unrestricted (Schedule F) Restricted Funds (Schedule F) | 6,434,778 85,163,641 | 3,094,379 84,228,994 | 3,340,399 934,646 |
| Accounts Receivable Trade, Net of Allowance for Doubtful Receivables | 13,989,289 | 16,610,663 | (2,621,374 |
| of \$7,350,407 at Jul 31, 2019 and \$5,516,077 at Sep 30, 2018 | 13,303,203 | 10,010,003 | (2,021,37 |
| Federal Receivable | 514,564 | 3,837,148 | (3,322,583 |
| Other Receivable | 1,832,288.30 | 1,330,798 | 501,491 |
| Materials & Supplies Inventory, Net of Allowance for Obsolescence | 2,866,419 | 3,342,557 | (476,138 |
| of \$64,131 at Jul 31, 2019 and \$64,131 at Sep 30, 2018 | | | • |
| Total Current Assets | 110,800,979 | 112,444,540 | (1,643,560 |
| Property, Plant and Equipment | | | |
| Utility plant in service | | | |
| Water system | 369.153.475 | 348,812,303 | 20,341,171 |
| Wastewater system | 300,407,082 | 300,053,427 | 353,655 |
| Non-utility property | 22,080,853 | 21,720,023 | 360,830 |
| Total property | 691,641,409 | 670,585,753 | 21,055,656 |
| Less Accumulated Depreciation | (320,518,942) | (303,019,447) | (17,499,495 |
| Land | 3,914,815 | 3,681,120 | 233,695 |
| Construction Work in Progress | 223,898,113 | 178,443,926 | 45,454,187 |
| Property, Plant and Equipment, net | 598,935,395 | 549,691,352 | 49,244,042 |
| Other noncurrent assets | | | |
| Restricted cash (Schedule F) | 117,346,734 | 159,753,667 | (42,406,933 |
| Investments (Schedule F) | 38,001,295 | 43,097,913 | (5,096,618 |
| Other Prepaid Expenses | 954,555 | 677,828 | 276,727 |
| Total other noncurrent assets | 156,302,584 | 203,529,408 | (47,226,823 |
| | | | |
| Total Assets | 866,038,958 | 865,665,299 | 373,659 |
| Deferred outflows of resources | | | |
| Debt defeasance due to bond refunding | 12,115,448 | 12,810,787 | (695,339 |
| Deferred outflows from pension | 4,220,075 | 4,220,075 | C |
| Deferred outflows from OPEB | 9,070,814 | 9,070,814 | (0 |
| otal Assets and Deferred Outflows of Resources | 891,445,295 | 891,766,975 | (321,680 |
| Series 2010 Bond Series 2013 Bond | 1,895,000 2,695,000 | 1,800,000 | 95,000 2,695,000 |
| Series 2013 Bond Series 2014 Refunding | 3,760,000 | 3,620,000 | 140,000 |
| Series 2016 | 420,000 | - | 420,000 |
| Series 2017 Refunding | - | 295,000 | (295,000 |
| Notes Payable | 2,866,745 | 3,203,870 | (337,125 |
| Accounts Payable -Trade | 2,832,866 | 4,467,102 | (1,634,237 |
| Accrued and Other Liabilities | 1,220,094 | 1,081,895 | 138,200 |
| Interest Payable | 2,117,099 | 6,427,669 | (4,310,570 |
| Accrued Payroll and Employee Benefits | 1,149,892 | 1,608,219 | (458,327 |
| Accrued Annual Leave | 1,059,161 | 1,059,161 | - |
| Current portion of employee annual leave | 607,382 | 607,382 | - |
| Contractors' Payable | 10,868,977 | 25,680,792 | (14,811,815 |
| Customer and Other Deposits | 2,353,445 | 2,131,242 | 222,203 |
| Total Current Liabilities | 33,845,661 | 51,982,331 | (18,136,670 |
| ong Term Debt, less current maturities | | | |
| Series 2010 Revenue Bond | - | 1,895,000 | (1,895,000 |
| Series 2013 Revenue Bond | 169,935,000 | 172,630,000 | (2,695,000 |
| Series 2014 Refunding Bond | 65,140,000 | 68,900,000 | (3,760,000 |
| Series 2016 Revenue Bond | 142,890,000 | 143,310,000 | (420,000 |
| Series 2017 Refunding Bond | 107,365,000 | 107,365,000 | - |
| Unamortized Bond Premium/Discount | 32,103,530 | 33,300,619 | (1,197,089 |
| Notes Payable | - | 2,325,154 | (2,325,154 |
| Net pension liability | 45,451,352 | 45,451,352 | - |
| Net OPEB obligation Employee Appual Leave Less Current Portion | 88,950,661 822,821 | 88,950,661 822,821 | - |
| Employee Annual Leave, Less Current Portion | 822,821 | 822,821 | - |
| otal Liabilities | 686,504,025 | 716,932,938 | (30,428,913 |
| Deferred inflows of resources: | | | |
| | 1,857,164 | 1,857,164 | _ |
| Deferred inflows from pension | | 8,741,900 | (0 |
| Deferred inflows from pension Deferred inflows from OPEB | 8,741,900 | | , |
| Deferred inflows from OPEB | | 727 532 002 | (30 428 044 |
| Deferred inflows from OPEB Total Liabilities and Deferred Inflows of Resources | 697,103,088 | 727,532,002 | (30,428,914 |
| Deferred inflows from OPEB | | 727,532,002 164,234,973 891,766,975 | (30,428,914 30,107,234 (321,680 |

GUAM WATERWORKS AUTHORITY Statement of Operations and Retained Earnings Comparative Budget vs. Actual for the period ending July 31, 2019

SCHEDULE B

| | Month to Budget | Date Actual (Unaudited) | Variance Favorable/ | | |
|--|------------------------|----------------------------|------------------------|--|--|
| | July-19 | July-19 | (Unfavorable) | | |
| OPERATING REVENUES | | | | | |
| Water Revenues | 5,813,246 | 5,903,203 | 89,956 | | |
| Wastewater Revenues Legislative Surcharge | 3,247,265 294,667 | 3,614,959 313,711 | 367,694 19,044 | | |
| Other Revenues | 38,254 | 40,290 | 2,036 | | |
| System Development Charge | 97,773 | 98,196 | 424 | | |
| Total Operating Revenues | 9,491,205 | 9,970,360 | 479,155 | | |
| OPERATING AND MAINTENANCE EXPENSES Water Purchases | 592,577 | 501,096 | 91,481 | | |
| Power Purchases | 1,326,315 | 1,322,496 | 3,819 | | |
| Total Utility Costs | 1,918,892 | 1,823,592 | 95,300 | | |
| | | | | | |
| Salaries and Wages Pension and Benefits | 1,782,365 562,238 | 1,461,055 458,157 | 321,310 104,081 | | |
| Total Salaries and Benefits | 2,344,603 | 1,919,212 | 425,391 | | |
| Capitalized Labor and Benefits | (308,333) | (280,661) | (27,672) | | |
| Net Salaries and Benefits | 2,036,269 | 1,638,551 | 397,719 | | |
| Administrative and General Expenses | 440.774 | 440.400 | 4.070 | | |
| Sludge removal Chemicals | 143,771 179,801 | 142,100 179,005 | 1,672 796 | | |
| Materials & Supplies | 130,606 | 130,329 | 277 | | |
| Transportation | 75,648 | 75,393 | 255 | | |
| Communications | 25,054 | 24,935 | 120 | | |
| Claims Insurance | 8,417 | 5,469 | 2,948 | | |
| Training & Travel | 79,461 15,417 | 77,860 14,971 | 1,601 446 | | |
| Advertising | 2,500 | 1,637 | 863 | | |
| Miscellaneous | 80,632 | 79,716 | 916 | | |
| Regulatory Expense | 31,029 | 30,960 | 69 | | |
| Bad Debts Provision Total Administrative and General Expense | 202,148 974.483 | 201,719 964,094 | 429 10,389 | | |
| Depreciation Expense | 1,759,065 | 1,667,910 | 91,155 | | |
| Contractual Expense | 1,100,000 | 1,001,010 | 01,100 | | |
| Audit & Computer Maint. | 90,783 | 89,019 | 1,764 | | |
| Building rental | 38,361 | 35,412 | 2,949 | | |
| Equipment rental Legal | 79,980 512 | 72,872 | 7,108 512 | | |
| Laboratory | 34,862 | 27,188 | 7,674 | | |
| Other | 181,458 | 164,930 | 16,527 | | |
| Total Contractual Expense | 425,956 | 389,421 | 36,535 | | |
| Retiree Supp. Annuities and health care costs | 249,871 | 238,872 | 10,999 | | |
| Contribution to Government of Guam Total Retiree Benefits | 51,975 301,846 | 50,000 288,872 | 1,975 12,974 | | |
| Total Operating Expenses | 7,416,512 | 6,772,440 | 644,072 | | |
| Earnings (Loss) from Operations | 2,074,693 | 3,197,920 | 1,123,227 | | |
| Interest Income-2010/13/14/16/17 Series Bond | 84,943 | 319,552 | 234,609 | | |
| Interest Income-Other Funds Interest Income-SDC | 13,856 2,072 | 70,010 14,294 | 56,154 12,222 | | |
| Interest Expense- 2010/13/14/16/17 Series Bond | (2,387,785) | (2,117,099) | 270,686 | | |
| Interest Expense- ST BOG | (19,762) | (13,991) | 5,771 | | |
| Federal Expenditures | - | - | - | | |
| Loss on Asset Disposal | - | - | - | | |
| AFUDC Amortization of Discount, Premium and Issuance Costs | 1,157,306 (17,798) | 1,157,306 119,709 | 0 137,507 | | |
| Defeasance due to bond refunding | (16,201) | (69,534) | (53,333) | | |
| Deferred outflows from pension | - | - | - | | |
| Prior Year Adjustment | | (31,680) | (31,680) | | |
| Total non-operating revenues (expenses) Net Income (Loss) before capital contributions | (1,183,369) | (551,432) | 631,936 | | |
| Capital Contributions | 891,324 | 2,646,487 | 1,755,163 | | |
| Grants from US Government | 5,533,205 | 1,714,737 | (3,818,468) | | |
| Grants from GovGuam & Others | | 2,500 | 2,500 | | |
| Total Capital Contributions | 5,533,205 | 1,717,237 | (3,815,968) | | |
| Change in Net Assets | 6,424,529 | 4,363,725 | (2,060,805) | | |
| Dobt Comice Coloulation | | | | | |
| Debt Service Calculation Earnings From Operations | 2,074,693 | 3,197,920 | | | |
| System Development Charge | (97,773) | (98,196) | | | |
| Retiree COLA | 51,975 | 50,000 | | | |
| Interest/Investment Income | 13,856 | 70,010 | | | |
| Depreciation Balance Available for Debt Service per Section 6.12 | 1,759,065 | 1,667,910 | | | |
| Balance Available for Debt Service per Section 6.12 Working Capital Reserve Available for Debt Service | 3,801,817 934,811 | 4,887,644 960,540 | | | |
| Transfer to Working Capital- Debt Service Reserve | 334,011 - | - | | | |
| Transfer to Working Capital- O&M Reserve | | | | | |
| Balance Available for Debt Service inclusive of reserves | 4,736,628 | 5,848,184 | | | |
| Debt Service | | | | | |
| Principal Interest | 476,250 2 137 785 | 476,250 2 137 785 | | | |
| Total | 2,137,785 2,614,035 | 2,137,785 2,614,035 | | | |
| Debt Service Coverage (1.25X)- per Section 6.12 (Indenture) | 1.45 | 1.87 | | | |
| Debt Service Coverage (1.75X) inclusive of reserves (PUC) | 1.81 | 2.24 | | | |

GUAM WATERWORKS AUTHORITY Statement of Operations and Retained Earnings Comparative for the period ending July 31, 2019 and 2018

SCHEDULE C

| | Month to E | Nata | Variance | | |
|---|----------------------------|--------------------------|-------------------------|--|--|
| | Actual (Unaudited) July-19 | Actual (Audited) July-18 | Increase/ (Decrease) | | |
| OPERATING REVENUES | July-13 | oury-10 | (Decrease) | | |
| Water Revenues | 5,903,203 | 5,531,297 | 371,906 | | |
| Wastewater Revenues | 3,614,959 | 3,191,784 | 423,176 24,502 | | |
| Legislative Surcharge Other Revenues | 313,711 40,290 | 289,209 43,294 | (3,004) | | |
| System Development Charge | 98,196 | 89,249 | 8,947 | | |
| Total Operating Revenues | 9,970,360 | 9,144,833 | 825,527 | | |
| OPERATING AND MAINTENANCE EXPENSES | | | | | |
| Water Purchases Power Purchases | 501,096 1,322,496 | 723,748 1,223,874 | (222,652) 98,622 | | |
| Total Utility Costs | 1,823,592 | 1,947,622 | (124,030) | | |
| · | | | | | |
| Salaries and Wages | 1,461,055 | 1,464,423 | (3,368) | | |
| Pension and Benefits Total Salaries and Benefits | 458,157 1,919,212 | 376,266 1,840,689 | 81,891 78,523 | | |
| Capitalized Labor and Benefits | (280,661) | (296,147) | 15,486 | | |
| Net Salaries and Benefits | 1,638,551 | 1,544,542 | 94,009 | | |
| Administrative and General Expenses | 449.499 | 405.000 | 40.400 | | |
| Sludge removal Chemicals | 142,100 179,005 | 125,638 182,625 | 16,462 (3,620) | | |
| Materials & Supplies | 130,329 | 180,995 | (50,666) | | |
| Transportation | 75,393 | 64,001 | 11,392 | | |
| Communications | 24,935 | 14,756 | 10,179 | | |
| Claims | 5,469 | 10,803 | (5,334) | | |
| Insurance Training & Travel | 77,860 14,971 | 76,005 22,652 | 1,855 (7,681) | | |
| Advertising | 1,637 | 14,226 | (12,589) | | |
| Miscellaneous | 79,716 | 84,564 | (4,848) | | |
| Regulatory Expense | 30,960 | 22,121 | 8,839 | | |
| Bad Debts Provision Total Administrative and General Expense | 201,719 964,094 | 180,246 978,632 | 21,473 | | |
| Depreciation Expense | 1,667,910 | 1,606,687 | (14,538) 61,223 | | |
| Contractual Expense | 1,001,010 | 1,000,001 | 01,220 | | |
| Audit & Computer Maint. | 89,019 | 58,815 | 30,204 | | |
| Building rental | 35,412 | 36,603 | (1,191) | | |
| Equipment rental | 72,872 | 89,207 | (16,335) | | |
| Legal Laboratory | - 27,188 | 34,441 | (7,253) | | |
| Other | 164,930 | 200,655 | (35,725) | | |
| Total Contractual Expense | 389,421 | 419,721 | (30,300) | | |
| Retiree Supp. Annuities and health care costs | 238,872 | 662,581 | (423,709) | | |
| Contribution to Government of Guam Total Retiree Benefits | 50,000 288,872 | 49,833 712,414 | (423,542) | | |
| Total Operating Expenses | 6,772,440 | 7,209,618 | (437,178) | | |
| Earnings (Loss) from Operations | 3,197,920 | 1,935,214 | 1,262,706 | | |
| Interest Income-2010/13/14/16/17 Series Bond | 319,552 | 255,374 | 64,178 | | |
| Interest Income-Other Funds | 70,010 | 45,645 | 24,365 | | |
| Interest Income-SDC Interest Expense- 2010/13/14/16/17 Series Bond | 14,294 (2,117,099) | 13,852 (2,177,468) | 442 60,369 | | |
| Interest Expense- ST BOG | (13,991) | (30,702) | 16,711 | | |
| Federal Expenditures | - | (62,220) | 62,220 | | |
| Loss on Asset Disposal | - | (162,136) | 162,136 | | |
| AFUDC | 1,157,306 | 1,041,766 | 115,540 | | |
| Amortization of Discount, Premium and Issuance Costs | 119,709 | (42,691) | 162,400 | | |
| Defeasance due to bond refunding Deferred outflows from pension | (69,534) | (62,043) 32,592 | (7,490) (32,592) | | |
| Prior Year Adjustment | (31,680) | 13,219 | (44,899) | | |
| Total non-operating revenues (expenses) | (551,432) | (1,134,813) | 583,380 | | |
| Net Income (Loss) before capital contributions | 2,646,487 | 800,402 | 1,846,086 | | |
| Capital Contributions | | | | | |
| Grants from US Government Grants from GovGuam & Others | 1,714,737 | 1,244,712 | 470,025 | | |
| Total Capital Contributions | 2,500 1,717,237 | 22,681 1,267,392 | (20,181) 449,845 | | |
| Change in Net Assets | 4,363,725 | 2,067,794 | 2,295,931 | | |
| | | | | | |
| Debt Service Calculation | | | | | |
| Earnings From Operations | 3,197,920 | 1,935,214 | | | |
| System Development Charge Retiree COLA | (98,196) 50,000 | (89,249) 49,833 | | | |
| Interest/Investment Income | 70,010 | 49,833 45,645 | | | |
| Depreciation | 1,667,910 | 1,606,687 | | | |
| Balance Available for Debt Service per Section 6.12 | 4,887,644 | 3,548,131 | | | |
| Working Capital Reserve Available for Debt Service | 960,540 | 945,164 | | | |
| Transfer to Working Capital - Debt Service Reserve | - | - | | | |
| Transfer to Working Capital- O&M Reserve Balance Available for Debt Service inclusive of reserves | 5,848,184 | 4,493,295 | | | |
| Debt Service | | τ,τ⊍∪,∠⊍∪ | | | |
| Principal | 476,250 | 433,333 | | | |
| Interest | 2,137,785 | 1,794,910 | | | |
| Total | 2,614,035 | 2,228,243 | | | |
| Debt Service Coverage (1.25X)- per Section 6.12 (Indenture) Debt Service Coverage (1.75X) inclusive of reserves (PUC) | 1.87 | 1.59 | | | |
| Dept Service Coverage (1.75A) inclusive of reserves (PUC) | 2.24 | 2.02 | | | |

GUAM WATERWORKS AUTHORITY Statement of Operations and Retained Earnings Comparative Budget vs. Actual for the period ending July 31, 2019

SCHEDULE D

| · - | Year to D | ate | Variance | | |
|--|---------------------------|------------------------------|-----------------------------|--|--|
| | | ctual (Unaudited) July-19 | Favorable/ (Unfavorable) | | |
| OPERATING REVENUES | July-13 | July-13 | (Olliavolable) | | |
| Water Revenues | 58,132,464 | 56,188,056 | (1,944,408) | | |
| Wastewater Revenues | 32,472,650 | 32,582,906 | 110,255 | | |
| Legislative Surcharge Other Revenues | 2,946,668 382,538 | 2,940,443 561,508 | (6,225) 178,970 | | |
| System Development Charge | 977,725 | 753,705 | (224,020) | | |
| Total Operating Revenues | 94,912,046 | 93,026,618 | (1,885,428) | | |
| OPERATING AND MAINTENANCE EXPENSES | | | | | |
| Water Purchases | 5,955,772 | 5,110,179 | 845,593 | | |
| Power Purchases Total Utility Costs | 13,233,151 19,188,923 | 13,224,957 18,335,136 | 8,194 853,787 | | |
| · | | -,, | | | |
| Salaries and Wages | 17,823,651 | 16,019,541 | 1,804,109 | | |
| Pension and Benefits Total Salaries and Benefits | 5,622,377 23,446,028 | 5,092,893 21,112,434 | 529,484 2,333,594 | | |
| Capitalized Labor and Benefits | (3,083,333) | (2,660,368) | (422,965) | | |
| Net Salaries and Benefits | 20,362,695 | 18,452,066 | 1,910,628 | | |
| Administrative and General Expenses | | | | | |
| Sludge removal | 1,257,713 | 1,246,801 | 10,912 | | |
| Chemicals Materials & Supplies | 1,723,014 1,886,056 | 1,722,415 1,844,862 | 599 41,193 | | |
| Transportation | 531,475 | 531,167 | 308 | | |
| Communications | 150,541 | 136,793 | 13,748 | | |
| Claims | 74,167 | 49,901 | 24,265 | | |
| Insurance Training & Travel | 794,608 274,166 | 759,705 | 34,903 | | |
| Advertising | 125,000 | 238,992 102,441 | 35,175 22,559 | | |
| Miscellaneous | 838,317 | 837,059 | 1,258 | | |
| Regulatory Expense | 250,290 | 168,810 | 81,480 | | |
| Bad Debts Provision | 1,839,483 | 1,834,228 | 5,254 | | |
| Total Administrative and General Expense Depreciation Expense | 9,744,831 17,590,650 | 9,473,177 17.499.495 | 271,654 91,154 | | |
| Contractual Expense | 17,590,050 | 17,499,493 | 31,134 | | |
| Audit & Computer Maint. | 602,833 | 599,128 | 3,706 | | |
| Building rental | 377,610 | 352,309 | 25,301 | | |
| Equipment rental | 950,796 | 946,851 | 3,945 | | |
| Legal | 11,121 | 10,754 | 367 528 | | |
| Laboratory Other | 227,624 2,089,580 | 227,096 2,036,140 | 53,440 | | |
| Total Contractual Expense | 4,259,564 | 4,172,279 | 87,286 | | |
| Retiree Supp. Annuities and health care costs | 2,498,708 | 2,376,257 | 122,451 | | |
| Contribution to Government of Guam | 519,750 | 500,000 | 19,750 | | |
| Total Retiree Benefits Total Operating Expenses | 3,018,458 74,165,121 | 2,876,257 70,808,410 | 142,201 3,356,710 | | |
| Earnings (Loss) from Operations | 20,746,925 | 22,218,208 | 1,471,282 | | |
| Interest Income-2010/13/14/16/17 Series Bond | 849,430 | 3,410,842 | 2,561,412 | | |
| Interest Income-Other Funds | 138,562 | 698,586 | 560,024 | | |
| Interest Income-SDC | 20,718 | 145,239 | 124,521 | | |
| Interest Expense- 2010/13/14/16/17 Series Bond Interest Expense- ST BOG | (23,877,846) (197,620) | (21,357,160) (173,406) | 2,520,686 24,213 | | |
| Federal Expenditures | (101,020) | (170,400) | - | | |
| Loss on Asset Disposal | - | - | - | | |
| AFUDC | 11,573,060 | 11,573,060 | (0) | | |
| Amortization of Discount, Premium and Issuance Costs Defeasance due to bond refunding | (177,979) | 1,197,089 | 1,375,068 | | |
| Deferred outflows from pension | (162,010) | (695,339) | (533,329) | | |
| Prior Year Adjustment | - | (311,072) | (311,072) | | |
| Total non-operating revenues (expenses) | (11,833,684) | (5,512,162) | 6,321,522 | | |
| Net Income (Loss) before capital contributions | 8,913,241 | 16,706,046 | 7,792,805 | | |
| Capital Contributions | FF 000 0F4 | 40.040.000 | (40.040.444) | | |
| Grants from US Government Grants from GovGuam & Others | 55,332,051 | 13,319,909 81,279 | (42,012,141) 81,279 | | |
| Total Capital Contributions | 55,332,051 | 13,401,188 | (41,930,863) | | |
| Change in Net Assets | 64,245,292 | 30,107,234 | (34,138,058) | | |
| | | | | | |
| Debt Service Calculation | | | | | |
| Earnings From Operations | 20,746,925 | 22,218,208 | | | |
| System Development Charge Retiree COLA | (977,725) 519,750 | (753,705) 500,000 | | | |
| Interest/Investment Income | 138,562 | 698,586 | | | |
| Depreciation | 17,590,650 | 17,499,495 | | | |
| Balance Available for Debt Service per Section 6.12 | 38,018,162 | 40,162,584 | | | |
| Working Capital Reserve Available for Debt Service | 9,348,111 | 9,605,396 | | | |
| Transfer to Working Capital - Debt Service Reserve | - | - | | | |
| Transfer to Working Capital- O&M Reserve Balance Available for Debt Service inclusive of reserves | 47,366,273 | 49,767,980 | | | |
| Debt Service | 71,000,210 | 40,101,000 | | | |
| Principal | 4,762,500 | 4,762,500 | | | |
| Interest | 21,377,846 | 21,377,846 | | | |
| Total Poht Service Coverage (4.35V) per Section 6.12 (Indenture) | 26,140,346 | 26,140,346 | | | |
| Debt Service Coverage (1.25X)- per Section 6.12 (Indenture) Debt Service Coverage (1.75X) inclusive of reserves (PUC) | 1.45 | 1.54 | | | |
| Committee of the Control of the Cont | 1.81 | 1.90 | | | |

GUAM WATERWORKS AUTHORITY Statement of Operations and Retained Earnings Comparative for the period ending July 31, 2019 and 2018

SCHEDULE E

| Comparative for the period ending 3 | Year to Da | Variance | |
|--|--------------------------|--------------------------|------------------------|
| | Actual (Unaudited) | Actual (Audited) | Increase/ |
| ODED ATING DEVENUES | July-19 | July-18 | (Decrease) |
| OPERATING REVENUES Water Revenues | 56,188,056 | 55,312,970 | 875,086 |
| Wastewater Revenues | 32,582,906 | 31,917,838 | 665,068 |
| Legislative Surcharge | 2,940,443 | 2,892,090 | 48,353 |
| Other Revenues | 561,508 | 432,941 | 128,568 |
| System Development Charge | 753,705 | 892,488 | (138,782) |
| Total Operating Revenues OPERATING AND MAINTENANCE EXPENSES | 93,026,618 | 91,448,325 | 1,578,293 |
| Water Purchases | 5,110,179 | 7,237,478 | (2,127,299 |
| Power Purchases | 13,224,957 | 12,238,739 | 986,218 |
| Total Utility Costs | 18,335,136 | 19,476,217 | (1,141,081) |
| Calarias and Marsa | 16 010 541 | 14 644 222 | 1 275 200 |
| Salaries and Wages Pension and Benefits | 16,019,541 5,092,893 | 14,644,233 3,762,660 | 1,375,308 1,330,233 |
| Total Salaries and Benefits | 21,112,434 | 18,406,893 | 2,705,541 |
| Capitalized Labor and Benefits | (2,660,368) | (2,961,470) | 301,102 |
| Net Salaries and Benefits | 18,452,066 | 15,445,423 | 3,006,643 |
| Administrative and General Expenses | | | |
| Sludge removal | 1,246,801 | 1,256,378 | (9,577 |
| Chemicals | 1,722,415 | 1,826,255 | (103,839 |
| Materials & Supplies Transportation | 1,844,862 531,167 | 1,809,948 640,008 | 34,914 (108,841) |
| Communications | 136,793 | 147,555 | (10,762 |
| Claims | 49,901 | 108,034 | (58,133 |
| Insurance | 759,705 | 760,050 | (345 |
| Training & Travel | 238,992 | 226,521 | 12,470 |
| Advertising | 102,441 | 142,257 | (39,816 |
| Miscellaneous | 837,059 | 845,641 | (8,582 |
| Regulatory Expense Bad Debts Provision | 168,810 1,834,228 | 221,212 1,802,458 | (52,402 31,770 |
| Total Administrative and General Expense | 9,473,177 | 9,786,319 | (313,142 |
| Depreciation Expense | 17,499,495 | 16,066,874 | 1,432,621 |
| Contractual Expense | | -,,- | , - , - |
| Audit & Computer Maint. | 599,128 | 588,150 | 10,978 |
| Building rental | 352,309 | 366,030 | (13,721 |
| Equipment rental | 946,851 | 892,068 | 54,783 |
| Legal | 10,754 | 244 442 | 10,754 |
| Laboratory Other | 227,096 2,036,140 | 344,413 2,006,548 | (117,317 29,592 |
| Total Contractual Expense | 4,172,279 | 4,197,209 | (24,931 |
| Retiree Supp. Annuities and health care costs | 2,376,257 | 6,625,806 | (4,249,548 |
| Contribution to Government of Guam | 500,000 | 498,333 | 1,667 |
| Total Retiree Benefits | 2,876,257 | 7,124,139 | (4,247,882 |
| Total Operating Expenses | 70,808,410 | 72,096,182 | (1,287,772 |
| Earnings (Loss) from Operations Interest Income-2010/13/14/16/17 Series Bond | 22,218,208 | 19,352,143 | 2,866,064 |
| Interest Income-2010/13/14/16/17 Series Bond Interest Income-Other Funds | 3,410,842 698,586 | 2,553,742 456,448 | 857,101 242,137 |
| Interest Income-SDC | 145,239 | 138,518 | 6,722 |
| Interest Expense- 2010/13/14/16/17 Series Bond | (21,357,160) | (21,774,678) | 417,518 |
| Interest Expense- ST BOG | (173,406) | (307,022) | 133,616 |
| Federal Expenditures | - | (622,203) | 622,203 |
| Loss on Asset Disposal | - | (1,621,358) | 1,621,358 |
| AFUDC | 11,573,060 | 10,417,664 | 1,155,396 |
| Amortization of Discount, Premium and Issuance Costs | 1,197,089 | (426,912) (620,435) | 1,624,001 (74,905 |
| Defeasance due to bond refunding Deferred outflows from pension | (695,339) | (620,435) 325,920 | (325,920 |
| Prior Year Adjustment | (311,072) | 132,190 | (443,263 |
| Total non-operating revenues (expenses) | (5,512,162) | (11,348,127) | 5,835,966 |
| let Income (Loss) before capital contributions | 16,706,046 | 8,004,016 | 8,702,030 |
| Capital Contributions | | | |
| Grants from US Government | 13,319,909 | 12,447,118 | 872,791 |
| Grants from GovGuam & Others | 81,279 | 226,805 | (145,526 |
| Total Capital Contributions Change in Net Assets | 13,401,188 30,107,234 | 12,673,923 20,677,939 | 727,265 9,429,295 |
| mango in itel nootio | 30,107,234 | 20,011,555 | 3,423,293 |
| Pebt Service Calculation | | | |
| Earnings From Operations | 22,218,208 | 19,352,143 | |
| System Development Charge | (753,705) | (892,488) | |
| Retiree COLA | 500,000 | 498,333 | |
| Interest/Investment Income Depreciation | 698,586 17,499,495 | 456,448 16,066,874 | |
| Balance Available for Debt Service per Section 6.12 | 40,162,584 | 35,481,312 | |
| Working Capital Reserve Available for Debt Service | 9,605,396 | 9,451,639 | |
| Transfer to Working Capital- Debt Service Reserve | - | -,, | |
| Transfer to Working Capital- O&M Reserve | | | |
| Balance Available for Debt Service inclusive of reserves | 49,767,980 | 44,932,951 | |
| Debt Service | . =. | | |
| Principal | 4,762,500 | 4,333,333 | |
| Interest Fotal | 21,377,846 26,140,346 | 17,949,100 22,282,433 | |
| | | | |
| Debt Service Coverage (1.25X)- per Section 6.12 (Indenture) | 1.54 | 1.59 | |

GUAM WATERWORKS AUTHORITY Restricted and Unrestricted Cash Summary FY2019

SCHEDULE F

| Post the | Unaudited | Audited | Variance Increase/ |
|---|--------------------|--------------------|---------------------------------------|
| Description UNRESTRICTED | July 31, 2019 | September 30, 2018 | (Decrease) |
| Change Fund | 2.000 | 2,000 | |
| Petty Cash | 2,000 4,450 | 5,000 | (550) |
| BOG Deposit Accounts | 6,428,328 | 3,087,379 | 3,340,949 |
| Sub-total Unrestricted | 6,434,778 | 3,094,379 | 3,340,399 |
| • | , , | , , | · · · · · · |
| RESTRICTED | | | |
| Bank Pacific | 11,153 | 11,864 | (711) |
| Bank of Hawaii | 161,470 | 189,144 | (27,674) |
| Community First FCU | 2,854 | 4,392 | (1,538) |
| First Hawaiian Bank | 12,674 | 22,105 | (9,431) |
| Bank Pacific Surcharge | 763,090 | 298,898 | 464,192 |
| Bank Pacific Escrow Deposit | 836,212 | 660,254 | 175,958 |
| BOG Customer Refunds BOG Emergency Reserve Fund | 1,868,380 6,235 | 1,860,120 6,229 | 8,259 6 |
| BOG Sewer Hookup Revolving Fund | 66.615 | 65,499 | 1.116 |
| BOG Sewer Hookup Revolving Fund | 859,233 | 859,233 | 1,110 |
| BOG Operation and Maintenance Fund | 3,083,482 | 3,083,482 | _ |
| BOG OMRRRF Fund | 17,423,213 | 17,423,213 | _ |
| BOG Revenue Trust | 251,510 | 360,569 | (109,059) |
| BOG Revenue Trust Fund | 8,141,147 | 6,535,779 | 1,605,368 |
| BOG Capital Improvement Revenue Fund | 6,386,311 | 1,582,278 | 4,804,033 |
| BOG O & M Reserve | 13,888,427 | 13,666,109 | 222,318 |
| BOG Debt Service Reserve | 11,526,476 | 11,341,967 | 184,509 |
| BOG CapEx Fund | 9,762,777 | 16,073,011 | (6,310,233) |
| | 75,051,260 | 74,044,147 | 1,007,114 |
| | | | , |
| BOG - SDC Deposit | 2,362,380 | 2,934,848 | (572,467) |
| BOG - SDC CDs | 7,750,000 | 7,250,000 | 500,000 |
| Total SDC | 10,112,380 | 10,184,848 | (72,467) |
| Total Restricted | 85,163,641 | 84,228,994 | 934,646 |
| Reserve Funds | | | |
| BOG Series 13 Construction Fund | 15,697,276 | 36,222,062 | (20,524,787) |
| BOG Series 14 Refunding Construction Fund | 322,911 | 741,895 | (418,984) |
| BOG Series 16 Construction Fund | 94,540,641 | 116,036,000 | (21,495,359) |
| BOG Series 17 Refunding Construction Fund | 6,785,906 | 6,753,709 | 32,197 |
| Total Restricted - Held by Trustee | 117,346,734 | 159,753,667 | (42,406,933) |
| | | | |
| USB Series 2013 Debt Service Fund | 1,073,736 | 2,360,451 | (1,286,715) |
| USB Series 2013 Debt Service Reserve Fund | 12,031,688 | 12,031,688 | (1,200,713) |
| USB Series 2014 Refunding Debt Service Fund | 682,279 | 1,833,235 | (1,150,956) |
| USB Series 2014 Refunding Debt Service Reserve Fund | 7,698,328 | 7,972,243 | (273,915) |
| USB Series 2016 Debt Service Fund | 679,976 | 1,805,556 | (1,125,579) |
| USB Series 2016 Debt Service Reserve Fund | 7,591,999 | 7,594,603 | (2,603) |
| USB Series 2010 Debt Service Fund | 191,023 | 503,751 | (312,728) |
| USB Series 2017 Refunding Debt Service Reserve Fund | 7,566,460 | 7,566,460 | (012,720) |
| USB Series 2017 Debt Service Fund | 485,804 | 1,429,927 | (944,122) |
| Total Investments | 38,001,295 | 43,097,913 | (5,096,618) |
| • | | | |
| Total Restricted and Unrestricted Cash | 246,946,447 | 290,174,953 | (43,228,506) |
| • | | | · · · · · · · · · · · · · · · · · · · |

Guam Waterworks Authority Accounts Receivable - Government (Active) July 31, 2019

SCHEDULE G

| July 31, 2019 A G I N G | | | | | | | | | | | | | |
|--|-----------------------|----|--------------|----|------------|----|------------|----|------------|----|--------------|----|------------------|
| Customer Name | No of Accounts | C | ırrent | | 31-60 days | | 61-90 days | • | 1-120 days | _ | ver 120 days | | Total |
| Guam Int'l Airport Authority | | \$ | 49,959 | \$ | 55,668 | | 30,728 | | 8,828 | \$ | 224,298 | • | 369,480 |
| Guam Int i Airport Authority Guam Power Authority | 8 ¹ 24 | Ф | 125,090 | Ф | 00,000 | ф | 30,728 | Ф | 0,020 | Ф | 224,296 | Ф | |
| | | | | | | | 0.444 | | - | | - | | 125,090 9,204 |
| Guam Community College | 3 | | 3,269 | | 3,524 | | 2,411 | | - | | - | | 9,204 4,518 |
| Guam Memorial Hospital Authority | | | 2,463 | | 2,054 | | - | | - | | - | | |
| Port Authority of Guam | 5 | | 1,257 613 | | - | | - | | - | | - | | 1,257 613 |
| Guam Housing & Urban Renewal Authority Total Autonomous Agencies | <u>9</u> 52 | \$ | 182,652 | \$ | 61,246 | \$ | 33,139 | \$ | 8,828 | \$ | 224,298 | \$ | 510,163 |
| • | | | | | | | | | | | | | |
| Department of Education | 53 | \$ | 194,880 | \$ | 213,552 | \$ | 204,516 | \$ | 163,091 | \$ | 6,834 | \$ | 782,873 |
| Mayors Council of Guam | 60 | | 23,098 | | 5,947 | | 3,577 | | 21,841 | | 38,877 | | 93,341 |
| Department of Public Health & Social Services | 8 | | 1,500 | | 1,132 | | 531 | | 479 | | 86,184 | | 89,827 |
| Department of Corrections | 8 | | 69,787 | | 107 | | - | | - | | - | | 69,894 |
| Department of Parks & Recreation | 17 | | 36,408 | | 4,439 | | 1,302 | | 733 | | - | | 42,881 |
| Office of the Governor | 2 | | 12,731 | | 9,634 | | 2,076 | | - | | - | | 24,442 |
| University of Guam | 44 | | 14,000 | | - | | - | | - | | - | | 14,000 |
| Guam Fire Department | 11 | | 12,204 | | - | | - | | - | | - | | 12,204 |
| Guam Waterworks Authority | 71 | | 12,045 | | 47 | | - | | - | | - | | 12,093 |
| Sanctuary Inc | 1 | | 3,364 | | - | | - | | - | | - | | 3,364 |
| Department of Military Affairs/GUARNG | 1 | | 2,795 | | - | | - | | - | | - | | 2,795 |
| Department of Agriculture | 6 | | 2,162 | | - | | - | | - | | - | | 2,162 |
| Department of Public Works | 11 | | 1,563 | | - | | - | | - | | - | | 1,563 |
| Guam Police Department | 7 | | 1,042 | | - | | - | | - | | - | | 1,042 |
| Division of Senior Citizens, DPH&SS | 2 | | 581 | | 181 | | 170 | | - | | - | | 932 |
| Department of Chamorro Affairs | 7 | | 868 | | - | | - | | - | | - | | 868 |
| Office of Civil Defense | 2 | | 444 | | 75 | | - | | - | | - | | 519 |
| Guam Public Library | 6 | | 465 | | - | | - | | - | | - | | 465 |
| Department of Administration | 2 | | 415 | | - | | - | | - | | - | | 415 |
| Guam Veterans Affairs Office | 2 | | 405 | | - | | - | | - | | - | | 405 |
| The Office of The Dededo Mayor | 1 | | 166 | | - | | - | | - | | - | | 166 |
| Merizo Mayor | 1 | | 52 | | - | | - | | - | | - | | 52 |
| Vietnam Veteran of America | 1 | | 29 | | - | | - | | - | | - | | 29 |
| Guam Housing Corporation | 1 | | 29 | | - | | - | | - | | - | | 29 |
| Total Line Agencies | 325 | \$ | 391,034 | \$ | 235,115 | \$ | 212,171 | \$ | 186,144 | \$ | 131,895 | \$ | 1,156,360 |
| Total as of July 31, 2019 | 377 | \$ | 573,686 | \$ | 296,361 | \$ | 245,310 | \$ | 194,973 | \$ | 356,193 | \$ | 1,666,523 |
| Total as of September 30, 2018 | 326 | \$ | 793,948 | \$ | 424,797 | \$ | 324,413 | \$ | 190,444 | \$ | 975,977 | \$ | 2,709,580 |

-28%

-30%

-24%

2%

-64%

-38%

16%

Guam Waterworks Authority System Development Charges Project Status As of July 31, 2019

SCHEDULE H

| PROJECT NAME | Pr | Available oject Funds | Total Expenditures | otal Outstanding Encumbrances | Total xpenditures and Encumbrances | ı | Total Jnobligated Funds |
|--|----|--------------------------|--|--|--|----|-------------------------------|
| SDC - Water Central Guam Reservoirs Line Replacement Phase IV South Paulino Heights Waterline Upgrade Northern District Wastewater Treatment Plant | | | - - 60,372 | 280,040 256,937 3,263 3,936,874 | 280,040 256,937 63,635 3,936,874 | | |
| | \$ | 6,003,416 | \$ 60,372 | \$ 4,477,114 | \$ 4,537,486 | \$ | 1,465,930 |
| SDC - Wastewater Agat-Santa Rita Wastewater Treatment Plant Replacement Baza Gardens Wastewater Cross Island Pumping & Conveyance Route 4 Relief Sewerline Rehab & Replacement Northern WWTP (Land Purchase) Talofofo Sewer Improvement Northern District Wastewater Treatment Plant | | | 671,691 944,975 - 1,000,000 - - | 948,351 196,301 399,869 - 241,142 1,485,725 | 1,620,043 1,141,276 399,869 1,000,000 241,142 1,485,725 | | |
| | \$ | 6,150,440 | \$ 2,616,667 | \$ 3,271,387 | \$ 5,888,054 | \$ | 262,386 |
| Grand Totals | \$ | 12,153,856 | \$ 2,677,039 | \$ 7,748,502 | \$ 10,425,540 | \$ | 1,728,315 |

| Future planned projects | 2019 |
|--|-----------------|
| Water Wells | \$ 1,850,000 |
| Water Dist Sys Pipe Replacement & Upgrades | 1,850,000 |
| WWTP Priority 1 Upgrades | 1,000,000 |
| Umatac Merizo STP Replacement | 1,000,000 |
| Wastewater Sewer System Expansion | 1,000,000 |
| | \$ 6,700,000 |



Guam Waterworks Authority

VEHICLE FLEET STATUS 8/13/2019

| | EQUII | PMENT ST | TATUS | | | | | SUMMARY | | | |
|---------------|------------------------|-------------------------------------|---|------------|-------------|-------------------------------|---|---|--------------------------------------|-------------------------------------|------------------|
| Description | Number of Equipment | Number of Equipment Available | Number of Equipment Not Available | Percentage | Operational | Operational w/Rprs Pending | Not in Operation- Accident (Docs Pending) | Not in Operation- Assessment Pending | Not in Operation- Repairs Pending | Not in Operation- Vendor Repairs | Recommend Survey |
| Backhoe | 4 | 1 | 3 | 25% | 1 | 0 | 0 | 0 | 0 | 2 | 1 |
| Bobcat | 1 | 0 | 1 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Boom Truck | 2 | 1 | 1 | 50% | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Crane | 1 | 1 | 0 | 100% | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Dump Truck | 3 | 1 | 2 | 33% | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| Flat Bed | 0 | 0 | 0 | #DIV/0! | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forklift | 6 | 6 | 0 | 100% | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fuel Tanker | 1 | 1 | 0 | 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heavy Duty | 8 | 6 | 2 | 75% | 6 | 0 | 0 | 0 | 1 | 0 | 1 |
| Hoist Rig | 1 | 0 | 1 | 0% | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Light | 155 | 114 | 41 | 74% | 105 | 9 | 1 | 2 | 6 | 6 | 26 |
| Mini Backhoe | 4 | 2 | 2 | 50% | 2 | 0 | 0 | 0 | 0 | 2 | 0 |
| Pumper Truck | 1 | 1 | 0 | 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skidster | 1 | 1 | 0 | 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sludge Truck | 5 | 3 | 2 | 60% | 2 | 1 | 0 | 0 | 0 | 2 | 0 |
| Tow | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tractor | 2 | 2 | 0 | 100% | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Tractor Mower | 1 | 1 | 0 | 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Trailer | 15 | 11 | 4 | 73% | 11 | 0 | 0 | 0 | 3 | 0 | 1 |
| Trencher | 1 | 1 | 0 | 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vaccon | 1 | 1 | 0 | 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vacuum Truck | 3 | 1 | 2 | 33% | 1 | 0 | 0 | 0 | 0 | 2 | 0 |
| Water Buffalo | 2 | 2 | 0 | 100% | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Tanker | 4 | 4 | 0 | 100% | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Compressor | 1 | 1 | 0 | 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 252 | 176 | 61 | | 176 | 12 | 1 | 3 | 10 | 14 | 33 |

| Guam Waterworks | Date: | 7/31/2019 | | | | | | | | |
|-----------------------------|-------|----------------------|-----|--|--|--|--|--|--|--|
| dualii watei work. | Time: | | | | | | | | | |
| REVIEWS | | | | | | | | | | |
| TOTAL PUMPS INSTALLED | 50 | OVERAL AVERAGE | 97% | | | | | | | |
| TOTAL PUMPS OPERATIONAL | 48 | % OF OPERATING PUMPS | 96% | | | | | | | |
| TOTAL BOOSTER PUMP STATIONS | 25 | | | | | | | | | |



| No | rthern Distri | ict | | | | | | | | | | | |
|-----|--------------------|------------------------|-----------------------------|-------------------------------|------------------------|-----------------------------------|--------------------|---|----------------------|---|-------------------|---|-----------------------------|
| NO: | FACILITY | PUMP HORSEPOWE R | NO OF INSTALLED PUMPS | NO OF OPERATIONAL PUMPS | PUMP AVAILABILITY % | GENERATOR OPERATIONAL FAULT | ATS MANUAL/AUTO | PUMP UNIT REMARKS | WORK ORDER NO: | VALVES, ELECTRICAL,STRUCTURAL REMARKS | WORK ORDER NO: | ESTIMATED REPAIR DATE | PUMP AND MOTOR INVENTORY |
| 1 | Gayinero | 20 | 2 | 2 | 100% | OP | A | | | | | | |
| 2 | Mataguac | 25 | 2 | 2 | 100% | OP | A | | | | | | |
| 3 | Santa Rosa | 15 | 2 | 2 | 100% | OP | A | | | | | | |
| 4 | Hyundai | 40 | 2 | 1 | 50% | OP | А | Pump # 1 requires pump and motor. Station undergoing renovation with new pumps installed. | | | | Estimate completion for pump station renovation September 2019. New pumps will be installed. | |
| 5 | Access | 60 | 2 | 2 | 100% | OP | A | | | | | | |
| 6 | Chin. Palauan | 5 | 2 | 1 | 50% | N/A | | Pump # 2 offline, replacement required. Motor in stock, additional piping work required. | | | | | |
| 7 | Nimitz Hill | 7.5 | 2 | 2 | 100% | N/A | | | | | | | |
| 8 | Adawag | 1.5 | 1 | 1 | 100% | N/A | | | | | | | |
| 9 | Pale Kiren | 1 | 1 | 1 | 100% | N/A | | | | | | | |
| | Ulloa/Untalan | 1 | 2 | 2 | 100% | OP | A | | | | | | |
| | Latte Heights | 15 | 2 | 2 | 100% | OP | A | | | | | | |
| | TOTAL = 11 | | 20 | 18 | 90% | | | | | | | | |
| | | | | | | | | | | ` | | | · · |
| pum | availability =no o | f operational pur | mps/no of pumps | *100% | | | ı | 1 | | | | | |

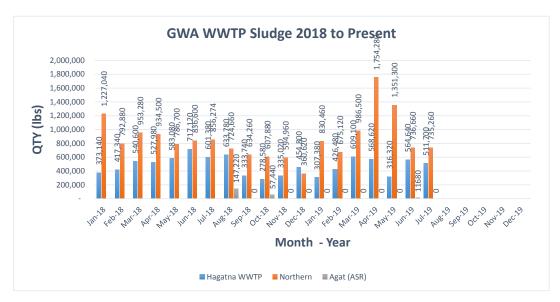
| Ce | Central District | | | | | | | | | | | | |
|-----|---|------------------------|-----------------------------|-------------------------------|------------------------|-----------------------------------|--------------------|------------------------------------|----------------------|--|-------------------|---|---------|
| NO | : FACILITY | PUMP HORSEPOWE R | NO OF INSTALLED PUMPS | NO OF OPERATIONAL PUMPS | PUMP AVAILABILITY % | GENERATOR OPERATIONAL FAULT | ATS MANUAL/AUTO | PUMP UNIT REMARKS | WORK ORDER NO: | VALVES, ELECTRICAL,STRUCTURAL REMARKS | WORK ORDER NO: | ESTIMATED REPAIR DATE | UPDATES |
| 1 | 1 Pago 150/100 3 3 100% OP A | | | | | | | | | | | | |
| 2 | 2 Brigade 60 3 3 100% OP A | | | | | | | | | | | | |
| 3 | Windward Hills | 200 / 75 | 3 | 3 | 100% | OP | A | | | | | | |
| 4 | Santa Rita Spring | 40 | 2 | 2 | 100% | OP | A | | | | | | |
| 5 | Santa Ana (Lower) | 25 | 2 | 2 | 100% | N/A | | Pump # 1 is operational on manual. | | Check vavle for pump #1 not working properly. | | Estimated completion for valve replacement is Mid June. | |
| 6 | Camacho | 1 | 1 | 1 | 100% | N/A | | | | | | | |
| 7 | Tenorio | 1.5 | 1 | 1 | 100% | N/A | | | | | | | |
| | Total=7 | | 15 | 15 | 100% | | | | | | | | |
| pun | mp availability =no of operational pumps/no of pumps*100% | | | | | | | | | | | | |

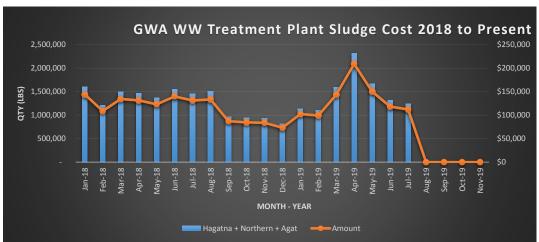
| So | uthern Distri | ict | | | | | | | | | | | |
|-----|--|------------------------|-----------------------------|-------------------------------|------------------------|-----------------------------------|--------------------|---|----------------------|---|-------------------|--------------------------------------|---------|
| NO: | FACILITY | PUMP HORSEPOWE R | NO OF INSTALLED PUMPS | NO OF OPERATIONAL PUMPS | PUMP AVAILABILITY % | GENERATOR OPERATIONAL FAULT | ATS MANUAL/AUTO | PUMP UNIT REMARKS | WORK ORDER NO: | VALVES, ELECTRICAL,STRUCTURAL REMARKS | WORK ORDER NO: | ESTIMATED REPAIR DATE | UPDATES |
| 1 | Malojloj Line | 125 / 50 | 3 | 3 | 100% | OP | Α | | | | | | |
| 2 | Geus | 25 | 2 | 2 | 100% | OP | A | | | Replaced timer for electrical. | | | |
| 3 | Pigua | 7.5 | 2 | 2 | 100% | N/A | | | | | | | |
| 4 | Toguan | 25 | 2 | 2 | 100% | OP | A | Pump #1 barings starting to make unusual noise. Need to make assessments | | | | Pending purchase order for bearings. | |
| 5 | WBP-2 | 25 | 2 | 2 | 100% | OP | A | | | | | | |
| 6 | WBP-1 | 5 | 2 | 2 | 100% | OP | A | | | | | | |
| 7 | Malojloj Elevated | 15 | 2 | 2 | 100% | OP | A | | | | | | |
| | Total=7 | | 15 | 15 | 100% | | | | | | | | |
| | | | | | | | | | | | | | |
| pum | p availability =no of operational pumps/no of pumps*100% | | | | | | | | | | | | |

| | Hagatna WWTP | | North | ern | Hagatna and Northern | | |
|-------------|--------------|-----------|-----------|---------------|----------------------|-------------|--|
| 2017 | Qty | Amount | Qty | Amount | Qty | Amount | |
| Month- Yr | lbs | \$ | lbs | \$ | lbs | \$ | |
| Jan-17 | 247,440 | \$22,270 | 1,283,000 | \$115,470.0 | 1,530,440 | \$137,740 | |
| Feb-17 | 282,180 | \$25,396 | 920,480 | \$82,843.2 | 1,202,660 | \$108,239 | |
| Mar-17 | 497,660 | \$44,789 | 880,780 | \$79,270.2 | 1,378,440 | \$124,060 | |
| Apr-17 | 577,246 | \$51,952 | 796,560 | \$71,690.4 | 1,373,806 | \$123,643 | |
| May-17 | 660,840 | \$59,476 | 859,260 | \$77,333.4 | 1,520,100 | \$136,809 | |
| Jun-17 | 505,160 | \$45,464 | 913,760 | \$82,238.4 | 1,418,920 | \$127,703 | |
| Jul-17 | 462,420 | \$41,618 | 1,423,168 | \$128,085.1 | 1,885,588 | \$169,703 | |
| Aug-17 | 694,420 | \$62,498 | 690,200 | \$62,118.0 | 1,384,620 | \$124,616 | |
| Sep-17 | 341,020 | \$30,692 | 981,280 | \$88,315.2 | 1,322,300 | \$119,007 | |
| Oct-17 | 474,020 | \$42,662 | 846,180 | \$76,156.2 | 1,320,200 | \$118,818 | |
| Nov-17 | 500,020 | \$45,002 | 968,260 | \$87,143.4 | 1,468,280 | \$132,145 | |
| Dec-17 | 584,809 | \$52,633 | 810,960 | \$72,986.4 | 1,395,769 | \$125,619 | |
| Grand Total | 5827235 | \$524,451 | 11373888 | \$1,023,649.9 | 17201123 | \$1,548,101 | |

| | Hagatna WWTP | | North | nern | Agat (| (ASR) | Hagatna + Northern + Agat | | |
|-------------|--------------|-----------|-----------|-----------|---------|----------|---------------------------|-------------|--|
| 2018 | Qty | Amount | Qty | Amount | Qty | Amount | Qty | Amount | |
| Month- Yr | lbs | \$ | lbs | \$ | lbs | \$ | lbs | \$ | |
| Jan-18 | 373,140 | \$33,583 | 1,227,040 | \$110,434 | | | 1,600,180 | \$144,016 | |
| Feb-18 | 417,340 | \$37,561 | 792,880 | \$71,359 | | | 1,210,220 | \$108,920 | |
| Mar-18 | 540,600 | \$48,654 | 953,280 | \$85,795 | | | 1,493,880 | \$134,449 | |
| Apr-18 | 527,980 | \$47,518 | 934,500 | \$84,105 | | | 1,462,480 | \$131,623 | |
| May-18 | 583,080 | \$52,477 | 786,700 | \$70,803 | | | 1,369,780 | \$123,280 | |
| Jun-18 | 717,120 | \$64,541 | 836,600 | \$75,294 | | | 1,553,720 | \$139,835 | |
| Jul-18 | 601,380 | \$54,124 | 856,274 | \$77,065 | | | 1,457,654 | \$131,189 | |
| Aug-18 | 633,780 | \$57,040 | 724,660 | \$63,469 | 147,220 | \$12,894 | 1,505,660 | \$133,404 | |
| Sep-18 | 333,740 | \$30,037 | 634,260 | \$57,083 | 0 | \$0 | 968,000 | \$87,120 | |
| Oct-18 | 278,580 | \$25,072 | 607,880 | \$54,709 | 57,440 | \$4,993 | 943,900 | \$84,774 | |
| Nov-18 | 335,020 | \$30,152 | 594,960 | \$53,546 | 0 | \$0 | 929,980 | \$83,698 | |
| Dec-18 | 454,800 | \$40,932 | 360,620 | \$32,456 | 0 | \$0 | 815,420 | \$73,388 | |
| Grand Total | 5,796,560 | \$521,690 | 9,309,654 | \$836,119 | 204,660 | \$17,887 | 15310874 | \$1,375,696 | |

| | Hagatr | na WWTP | North | nern | Agat (| ASR) | Hagatna + | Northern + Agat |
|--------------------|-----------|-----------|-----------|-------------|--------|---------|-----------|-----------------|
| 2019 | Qty | Amount | Qty | Amount | Qty | Amount | Qty | Amount |
| Month- Yr | lbs | \$ | lbs | \$ | lbs | \$ | lbs | \$ |
| Jan-19 | 307,380 | \$27,664 | 830,460 | \$74,741.4 | 0 | \$0 | 1,137,840 | \$102,406 |
| Feb-19 | 426,480 | \$38,383 | 675,120 | \$60,760.8 | 0 | \$0 | 1,101,600 | \$99,144 |
| Mar-19 | 609,100 | \$54,819 | 986,500 | \$88,785.0 | 0 | \$0 | 1,595,600 | \$143,604 |
| Apr-19 | 568,620 | \$51,176 | 1,754,280 | \$157,885.2 | 0 | \$0 | 2,322,900 | \$209,061 |
| May-19 | 316,320 | \$28,469 | 1,351,300 | \$121,617.0 | 0 | \$0 | 1,667,620 | \$150,086 |
| Jun-19 | 564,640 | \$50,818 | 736,660 | \$66,299.4 | 11680 | \$1,051 | 1,312,980 | \$118,168 |
| Jul-19 | 511,700 | \$46,053 | 735,260 | \$66,173.4 | 0 | \$0 | 1,246,960 | \$112,226 |
| Aug-19 | | \$0 | | \$0.0 | | \$0 | - | \$0 |
| Sep-19 | | \$0 | | \$0.0 | | \$0 | - | \$0 |
| Oct-19 | | \$0 | | \$0.0 | | \$0 | - | \$0 |
| Nov-19 | | \$0 | | \$0.0 | | \$0 | - | \$0 |
| Dec-19 | | \$0 | · | \$0.0 | | \$0 | - | \$0 |
| Grand Total | 3,304,240 | \$297,382 | 7,069,580 | \$636,262.2 | 11,680 | \$1,051 | 10385500 | \$934,695 |





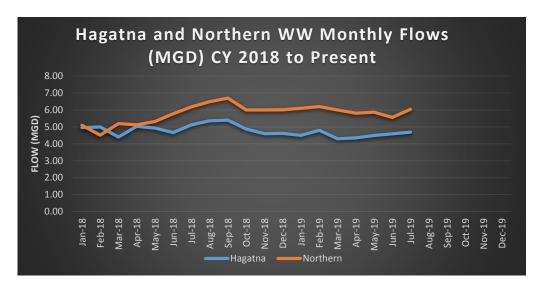
Wastewater Treatment Plant Average Monthy Flows Million Gallons Per Day

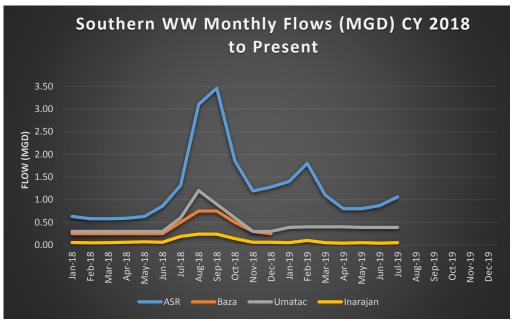
| 2017 | Hagatna | Northern | ASR | Baza | Umatac | Inarajan |
|------------------|---------|----------|------|------|--------|----------|
| Jan-17 | 6.00 | 5.69 | 0.89 | 0.31 | 0.35 | 0.09 |
| Feb-17 | 6.00 | 5.61 | 0.76 | 0.24 | 0.30 | 0.09 |
| Mar-17 | 6.00 | 5.62 | 0.78 | 0.24 | 0.30 | 0.06 |
| Apr-17 | 6.00 | 5.58 | 0.95 | 0.24 | 0.30 | 0.08 |
| May-17 | 5.59 | 5.26 | 0.86 | 0.25 | 0.30 | 0.06 |
| Jun-17 | 6.00 | 5.36 | 0.77 | 0.23 | 0.30 | 0.05 |
| Jul-17 | 5.94 | 5.33 | 0.74 | 0.25 | 0.30 | 0.05 |
| Aug-17 | 6.57 | 5.77 | 1.16 | 0.29 | 0.30 | 0.08 |
| Sep-17 | 6.23 | 5.84 | 2.08 | 0.25 | 0.30 | 0.12 |
| Oct-17 | 6.82 | 5.96 | 2.05 | 0.25 | 0.30 | 0.23 |
| Nov-17 | 6.01 | 5.78 | 0.85 | 0.25 | 0.30 | 0.07 |
| Dec-17 | 5.49 | 5.79 | 0.73 | 0.25 | 0.30 | 0.06 |
| 2017 Average MGD | 6.05 | 5.63 | 1.05 | 0.25 | 0.30 | 0.09 |
| 2017 Total MGY | 2,210 | 2,056 | 384 | 93 | 111 | 32 |

| 2018 | Hagatna | Northern | ASR | Baza | Umatac | Inarajan |
|------------------|---------|----------|------|------|--------|----------|
| Jan-18 | 4.96 | 5.10 | 0.63 | 0.25 | 0.30 | 0.05 |
| Feb-18 | 5.00 | 4.51 | 0.58 | 0.25 | 0.30 | 0.05 |
| Mar-18 | 4.40 | 5.20 | 0.58 | 0.25 | 0.30 | 0.05 |
| Apr-18 | 5.03 | 5.12 | 0.59 | 0.25 | 0.30 | 0.06 |
| May-18 | 4.93 | 5.32 | 0.63 | 0.25 | 0.30 | 0.07 |
| Jun-18 | 4.67 | 5.78 | 0.86 | 0.25 | 0.30 | 0.06 |
| Jul-18 | 5.12 | 6.18 | 1.31 | 0.50 | 0.60 | 0.19 |
| Aug-18 | 5.36 | 6.49 | 3.10 | 0.75 | 1.20 | 0.24 |
| Sep-18 | 5.40 | 6.70 | 3.46 | 0.75 | 0.90 | 0.24 |
| Oct-18 | 4.87 | 6.00 | 1.86 | 0.50 | 0.60 | 0.14 |
| Nov-18 | 4.60 | 6.00 | 1.19 | 0.30 | 0.30 | 0.06 |
| Dec-18 | 4.62 | 6.01 | 1.28 | 0.25 | 0.30 | 0.06 |
| 2018 Average MGD | 4.91 | 5.70 | 1.34 | 0.38 | 0.48 | 0.11 |
| 2018 Total MGY | 1,793 | 2,081 | 489 | 138 | 173 | 39 |

| 2019 | Hagatna | Northern | ASR | Baza | Umatac | Inarajan |
|------------------|---------|----------|------|------|--------|----------|
| Jan-19 | 4.50 | 6.10 | 1.40 | | 0.39 | 0.05 |
| Feb-19 | 4.80 | 6.20 | 1.80 | | 0.40 | 0.10 |
| Mar-19 | 4.30 | 6.00 | 1.10 | | 0.40 | 0.05 |
| Apr-19 | 4.35 | 5.81 | 0.80 | | 0.40 | 0.04 |
| May-19 | 4.49 | 5.87 | 0.80 | | 0.39 | 0.05 |
| Jun-19 | 4.59 | 5.56 | 0.87 | | 0.39 | 0.04 |
| Jul-19 | 4.69 | 6.04 | 1.06 | | 0.39 | 0.05 |
| Aug-19 | | | | | | |
| Sep-19 | | | | | | |
| Oct-19 | | | | | | |
| Nov-19 | | | | | | |
| Dec-19 | | | | | | |
| 2018 Average MGD | 4.53 | 5.94 | 1.12 | | 0.39 | 0.05 |
| 2018 Total MGY | 1,654 | 2,168 | 408 | - | 144 | 20 |

GWA Work Session - August 20, 2019 - DIVISION REPORTS





GWA Work Session - August 20, 2019 - DIVISION REPORTS