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MC Fwd: GWA WORK SESSION 7/19/18 / MEETING MATERIALS

1 message

BENJAMIN CRUZ <speaker@senatorbjcruz.com>
To: 34th Guam Legislature Clerks <clerks@guamlegislature.org>
Cc: Rennae Meno <rennae@guamlegislature.org>

Thu, Jul 19, 2018 at 4:48 PM

07/19/18	07/19/18	Consolidated Commission on Utilities	GWA Work Session July 19, 2018 /Materials.*	34-18-2109

---------- Forwarded message ---------
From: **Bernadette Lou Sablan** <l.sablan@gpagwa.com>
Date: Thu, Jul 19, 2018 at 3:11 PM
Subject: GWA WORK SESSION 7/19/18 / MEETING MATERIALS
To: "Andy Niven (ndynvn@yahoo.com)" <ndynvn@yahoo.com>, Angelica Perez <aperez@amibrokers.com>, Ann Borja - GWA <annborja@guamwaterworks.org>, "Annmarie Muna (amuna@ambrokers.com)" <amuna@ambrokers.com>, Artemio S Perez <aperez@gpagwa.com>, BENJAMIN CRUZ <speaker@senatorbjcruz.com>, "Cameron Mulka (cimiculka@guampdn.com)" <cimiculka@guampdn.com>, "Charlene Calvo (charlene.calvo@ipehq.com)" <charlene.calvo@ipehq.com>, Chilang F Unpingco <cfejeran@gpagwa.com>, "Fred Horecky (horeckylaw@teleguam.net)" <horeckylaw@teleguam.net>, "Gaynor Delano (gdumat-ol@guam.gannett.com)" <gdumat-ol@guam.gannett.com>, Gilda Mafnas <gildam@guamwaterworks.org>, Governor's Office <joy.unpingco@guam.gov>, "Greg P. Cruz" <gpcruz@guamwaterworks.org>, Heidi Ballendorf <heidi@guamwaterworks.org>, "Jams Y Kim (pacguam@gmail.com)" <pacguam@gmail.com>, "Jeff Johnson (jeffcharjohnson@hotmail.com)" <jeffcharjohnson@hotmail.com>, Jennifer G Sablan <jsablan@gpagwa.com>, "Jessica Peterson (webmaster@theguamguide.com)" <webmaster@theguamguide.com>, "Jessy Gogue (ocp.mayor@gmail.com)" <ocp.mayor@gmail.com>, "Joe John Mantanona (joejohnmantanona@gmail.com)" <joejohnmantanona@gmail.com>, "John O'Connor (john@postguam.com)" <john@postguam.com>, "John Reigel (jriegel@brwncald.com)" <jriegel@brwncald.com>, Joyce N Sayama <jsayama@gpagwa.com>, Karla Tydingco <ktydingco@guamwaterworks.org>, "Kevin Kerrigan (kevin@postguam.com)" <kevin@postguam.com>, Kim Garrido <kim.garrido@mec-guam.com>, "Louella Losinio (louella@postguam.com)" <louella@postguam.com>, Manny Apuron <mapuron@guamwaterworks.org>, "Maripaz N. Perez" <mnperez@gpagwa.com>, "Michael White (whitema@cdmsmith.com)" <whitema@cdmsmith.com>, "Nestor Licanto (nestor@kuam.com)" <nestor@kuam.com>, "Patricia L. Diego" <pldiego@gpagwa.com>, "PDN Newsroom (news@guampdn.com)" <news@guampdn.com>, "Peter Montinola (peter@isuguam.com)" <peter@isuguam.com>, Selma HG Blas <sblas@gpagwa.com>, "Telena Nelson (senatortcnelson@gmail.com)" <senatortcnelson@gmail.com>, "Therese Terlaje (senatorterlajeguam@gmail.com)" <senatorterlajeguam@gmail.com>

Hi GWA Stakeholders,

Attached is board books for today's GWA Work Session.

GL#34-18-2109
Speaker Benjamin J.F. Cruz

JUL 19 2018
Time: 448 [ ] AM [ ] PM File No.
Received By

Best,

Lou

B. Lou Sablan

Board Secretary

Consolidated Commission on Utilities

Admin Asst., Legal Counsel, GPA

GLORIA B. NELSON PUBLIC SERVICE BLDG.

3RD Floor, Executive Division

688 Route 15, Mangilao, GU 96913

P.O. Box 2977, Hagatna, GU 96932

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Email: l.sablan@gpagwa.com

Website: http://guamccu.org/

http://guampowerauthority.com/home.html

http://guamwaterworks.org/

2109

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OFFICE OF SPEAKER BENJAMIN J.F. CRUZ

Committee on Appropriations and Adjudication

I Mina'trentai Kuattro na Liheslaturan Guahan

Guam Congress Building | 163 Chalan Santo Papa | Hagatna, GU 96910

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., Thurs., July 19, 2018

AGENDA

1. **ISSUES FOR DECISION**
   - 1.1 **Relative to the Approval of the GPA-GWA SOP for Computer, Software, License, E-Mail, Internet, and Standard of Conduct / GWA Resolution 38-FY2018 & GPA Resolution 2018-14**
   - 1.2 **Relative to the Creation of the Utility Laboratory Technician Series of Positions / Resolution No. 39-FY2018**
   - 1.3 **Relative to Approval of Contracts for the Route 4 Relief Sewer Line Rehabilitation and Replacement Project / Resolution No. 40-FY2018**

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: CCU Meeting: 7/24/18**

6. **ADJOURNMENT**

GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No. GPA 2018-14 & GWA 38-FY2018:

Relative to CCU CYBERSECURITY POLICIES AND PROCEDURES

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

The CCU instituted the Cybersecurity Committee in 2017 to serve as the advisory and oversight group regarding information technology, infrastructure, and cybersecurity. The committee's responsibilities include the Guam Power Authority and Guam Waterworks Authority (GPWA) information technology systems, which includes policies, controls, risk mitigation, and infrastructure asset protection. A network security assessment recommended that GPWA develop common objectives and controls by establishing common policies, procedures, and business processes to manage risks.

The Cybersecurity initiative resulted in the formation of guidelines to ensure consistency and adequate protection and safeguards to GPWA systems, and resulted in the Password Creation and Protection Policy, the Computer, Software, License, E-mail, Internet, and Standard of Conduct policy, and the Network and Data System Access Policy.

Where is it located or covers?

This will cover all GPWA infrastructure, assets and information technology systems.

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

GPA RESOLUTION NO. 2018-14
GWA RESOLUTION NO. 38-FY2018

CCU CYBERSECURITY POLICIES AND PROCEDURES

WHEREAS, the CCU instituted the Cybersecurity Committee in 2017 to serve as the advisory and oversight group regarding information technology, infrastructure, and cybersecurity. The committee's responsibilities include the Guam Power Authority and Guam Waterworks Authority (GPWA) information technology systems, which includes policies, controls, risk mitigation, and infrastructure asset protection; and

WHEREAS, a network security assessment recommended that GPWA develop common objectives and controls by establishing common policies, procedures, and business processes to manage risks; and

WHEREAS, the Cybersecurity initiative resulted in the formation of guidelines to ensure consistency and adequate protection and safeguards to GPWA systems, and resulted in the Password Creation and Protection Policy, the Computer, Software, License, E-mail, Internet, and Standard of Conduct policy, and the Network and Data System Access Policy.

NOW THEREFORE, BE IT RESOLVED, by the Consolidated Commission on Utilities, as follows:

1. The Guam Power Authority and Guam Waterworks Authority General Managers are hereby authorized to implement and update the Cybersecurity policies for GPWA as required.

RESOLVED, that the Chairman of the Commission certifies and the Secretary of the Commission attests the adoption of this Resolution.

DULY and REGULARLY ADOPTED this 24th day of July,2018.

Certified by: **Attested by:**

JOSEPH T. DUENAS
CHAIRMAN

J. GEORGE BAMBA
SECRETARY

I, J. GEORGE BAMBA, Secretary for the Consolidated Commission on Utilities do hereby certify that the foregoing is a full, true, and correct copy of the resolution duly adopted at a regular meeting of the members of Guam's Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: _____

Nays: _____

Absent: _____

Abstain: _____

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Suite 200; Gloria B. Nelson Public Service Building | 688 Route 15, Mangilao, Guam 96913
P.O. Box 3010, Hagatna, Guam 96932
Tel. No. (671) 300-6846 Fax No. (671) 300-6896

Issues for Decision

Resolution No. 39-FY2018
Relative to the Creation of the Utility Laboratory Technician I, Utility Laboratory Technician II, Laboratory Technician Leader and Utility Laboratory Technician Supervisor positions at the Guam Waterworks Authority.

What is the project's objective and is it necessary and urgent?
The Guam Waterworks Authority (GWA) has determined a need to update the job standards for Laboratory Technician series positions to efficiently and effectively perform duties and functions of the GWA's Laboratory section. The creation of these positions is necessary to help direct and manage GWA's wide sampling activities in connection with water and wastewater operations.

The job specifications currently being utilized by GWA was initially created for use at the Government of Guam's line departments and agencies, established in 1980. Furthermore, the existing job standards are inconsistent with the updated and current operating procedures and practices of our laboratory technicians. GWA Laboratory technicians are unique in duties and responsibilities compared to other government of Guam agencies.

GWA laboratory technicians collect samples from shorelines, wastewater treatment plants, rivers, production wells, water treatment facilities and various locations within our distribution system and analyze water samples for various physical and chemical constituents (Calcium and Total Hardness, Chlorides, Alkalinity, Conductivity, pH, Temperature, Turbidity and Bacteria content) which makes it unique from other government of Guam agencies.

Where is the location?
The Utility Laboratory Technician series will be organizationally located within the Compliance and Safety Department, under the direction of the Monitoring Laboratory Services Administrator.

How much will it cost?
There is no cost to create positions. Upon approval of the proposed positions, GWA HR will conduct a classification review of the existing staff to ensure appropriate classification of the positions considered for approval. There will be no impact on the slotting to the updated implementation ranges based on the 10th market percentile (2017 market data) approved by the CCU.

When will it be completed?
Public Law 28-159, Section 7.0.3 (c) requires GPA and GWA to post a petition on their websites for ten (10) days (not including Saturdays, Sundays and government of Guam holidays). After the 10 days posting, the petition can then be forwarded to the CCU for their disposition at any regularly scheduled meeting. GWA has met the posting requirements.

Additionally, Guam law requires notice of such posting to each newspaper of general circulation and broadcasting station which airs regular news programs within Guam.

What is the funding source?
GWA will certify funding for the position available for the filling and retention of its certified, technical and professional newly created position. The funding of this position does not have an impact on the General Fund.

The RFP/BID responses (if applicable): N/A

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

RESOLUTION NO. 39-FY2018

RELATIVE TO THE CREATION OF THE UTILITY LABORATORY TECHNICIAN SERIES OF POSITIONS

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, the GWA General Manager requests the CCU to approve the creation of the Utility Laboratory Technician series of positions; and

WHEREAS, the GWA General Manager requests the CCU to approve the classification standards of the Utility Laboratory Technician series of positions in the classified status; and

WHEREAS, Public Law 28-112 and 4 GCA §6303 (d) authorizes the creation of positions in Autonomous Agencies and Public Corporations; and

WHEREAS, GWA Personnel Rules and Regulations as amended by Public Law 28-159 Section 3 (C) authorizes the CCU to amend, modify or add a position to the list of certified, technical and professional positions;

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities, as the Governing Body of the Guam Waterworks Authority, does hereby approve and authorize the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The creation and the job classification standards for the Utility Laboratory Technician series of positions in the classified status is hereby approved and attached herein as Exhibit A.
3. The Utility Laboratory Technician series of positions is hereby added to the certified, technical and professional list of positions at GWA.

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

DULY AND REGULARLY ADOPTED, this 24th day of July, 2018.

Certified by: Attested by:

_____ _____

JOSEPH T. DUENAS **J. GEORGE BAMBA**
Chairperson Secretary

SECRETARY'S CERTIFICATE

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

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

AYES: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

Exhibit A

UTILITY LABORATORY TECHNICIAN I

NATURE OF WORK:

Utility Laboratory Technician I performs routine technical laboratory duties after initial training and work under closer supervision on a variety of semi complex developmental assignments.

Employees in this class assist in the collection and perform routine analysis of water and wastewater samples for chemical and micro-biological content in accordance with Standard Methods for the Examination of water and wastewater, the Safe Drinking Water Act and the Clean Water Act.

ILLUSTRATIVE EXAMPLES OF WORK: (Any one position may not include all the duties listed, nor do the examples cover all the duties which may be performed)

Provides routine support and assistance to laboratory personnel in processing and field testing of various laboratory duties.

Prepares samples for field testing, sterilizes equipment, basic calibration of equipment as recommended and general cleaning duties.

Conducts routine maintenance work of equipment to ensure working order of equipment and ensures necessary supplies are available to perform field testing.

Performs routine work collecting samples from the distribution lines, deep well and surface water sources.

Performs routine work collecting water samples from customer complaints of dirty water, bad odor, or high chlorine contents.

Assists in disinfecting tankers and new water lines.

Performs routine work testing water for bacteriological contamination and chlorine residual.

Performs routine work collection of samples of off shore, shoreline, wastewater treatment plant influent/effluent and various rivers as well as any discharges into the rivers as required.

Conducts routine field tests on potable water samples for chemical analysis such as: Calcium and Total Hardness, Chlorides, Alkalinity, Conductivity, pH, Temperature, Turbidity and Bacteria content.

Conducts routine field tests on Settleable, Suspended and Total Solids, ph Fecal Coliform, E-Coli, Enterococci and Biochemical Oxygen Demand.

Logs data into assigned logbooks and inputs required information into the LIMS (Laboratory Information Management System) computer program daily, after initial training.

Creates work orders for daily assigned tasks.

Assists in minor repair of laboratory equipment.

Performs related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of laboratory testing procedures, principles, techniques, terminology, protocols and equipment.

Knowledge of basic laboratory equipment maintenance, calibration and troubleshooting and sterilization.

Knowledge of laboratory safety protocols, including, but not limited to, use of personal protective equipment (PPE's), proper laboratory techniques, disposal of bio-hazard, etc.

Knowledge of basic of LIMS (Laboratory Information Management System) computer program.

Ability to learn and apply basic principles of the physical and biological sciences, as applied to particular laboratory assignment.

Ability to operate and conduct basic maintenance of laboratory equipment.

Ability to maintain records and prepare reports.

Ability to work effectively with the public and employees.

Ability to communicate effectively, orally and in writing.

Ability to follow specific procedures and observe and record results accurately.

Ability to work with computer systems and multiple software programs as required, according to company and departmental procedures.

MINIMUM EXPERIENCE AND TRAINING:

A. High School Diploma or successful completion of General Education Development (GED) test or any equivalent education high school program and successful completion of 18 credit hours in biology, chemistry, or closely related field and One (1) year of experience in a laboratory work; or

B) Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

ESTABLISHED: July 2018

PAYGRADE: MINIMUM: F3-A $30,811
MAXIMUM: F4-A $32,062

JOB EVALUATION POINTS: 469

JOSEPH T. DUENAS, CHAIRMAN
CONSOLIDATED COMMISSION ON UTILITIES

2 OF 2 – UTILITY LABORATORY TECHNICIAN I

UTILITY LABORATORY TECHNICIAN II

NATURE OF WORK:

Utility Laboratory Technician II performs semi-complex technical laboratory duties independently after initial training and works under closer supervision on a variety of complex developmental assignments.

Employees in this class collect and perform semi-complex analysis of water and wastewater samples for chemical and micro-biological content in accordance with Standard Methods for the Examination of water and wastewater, the Safe Drinking Water Act and the Clean Water Act.

ILLUSTRATIVE EXAMPLES OF WORK: (Any one position may not include all the duties listed, nor do the examples cover all the duties which may be performed)

Provides semi-complex support and assistance in processing samples for analysis, sterilizes equipment, more intricate calibration of equipment as recommended.

Maintains working order of equipment and supplies necessary to perform analysis of samples to include minor repairs on laboratory equipment when needed.

Performs semi-complex work collecting samples from the distribution lines, deep well and surface water sources.

Collects semi-complex water samples from customer complaints of dirty water, bad odor, or high chlorine contents.

Disinfects tankers and new water lines to include determining the amount of chlorine needed to provide a certain dosage.

Performs semi-complex analysis water for bacteriological contamination and chlorine residue.

Collects semi-complex sample collection for off shore, shoreline, wastewater treatment plant influent/effluent and various rivers as well as any discharges into the rivers as required.

Performs semi-complex analysis of potable water samples and analyzes for chemical analysis such as: Calcium and Total Hardness, Chlorides, Alkalinity, Conductivity, pH, Temperature, Turbidity and Bacteria content.

Performs semi-complex analysis of Settleable, Suspended and Total Solids, ph Fecal Coliform, E-Coli, Enterococci and Biochemical Oxygen Demand.

Performs semi-complex, non-routine chemical, biological or physical test and analysis as required in control operations of water and sewage.

Maintains records of all analytical work according to Laboratory Quality Assurance (QA) and Quality Control (QC) Plans and Standard Operating Procedures. Ensures all data is in compliance with the requirements of pre-schedule intervals.

Maintains various laboratory records and prepares reports. Inputs required information into the LIMS (Laboratory Information Management System) computer program.

Creates work orders for daily assigned tasks.

Repairs laboratory equipment as needed.

Performs related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of laboratory testing procedures, principles, techniques, terminology, protocols and equipment in a water utility.

Knowledge of laboratory equipment maintenance, calibration and troubleshooting and sterilization used in a water utility.

Knowledge of laboratory safety protocols, including, but not limited to, use of personal protective equipment (PPE's), proper laboratory techniques, disposal of bio-hazard, etc. in a water utility.

Knowledge of basic principles of the physical and biological sciences, as applied to particular laboratory assignment in a utility.

Knowledge of computer systems and multiple software programs as required, according to company and departmental procedures used in a water utility.

Knowledge of LIMS (Laboratory Information Mana

gement System) computer program.

Ability to maintain records and prepare reports.

Ability to work effectively with the public and employees.

Ability to communicate effectively, orally and in writing.

Ability to make decisions in accordance with appropriate program guidelines

Ability to follow specific standard operating procedures and observe and record results accurately.

MINIMUM EXPERIENCE AND TRAINING;

A. Graduation from a recognized college or university with an Associate's degree in science or water technology with courses in microbiology, chemistry or related natural science; ***and*** two (2) years of experience as a Utility Laboratory Technician I; or

B) Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

ESTABLISHED: July 2018

PAYGRADE: MINIMUM: I2-D $39,476
MAXIMUM: I3-D $41,079

JOB EVALUATION POINTS: 576

JOSEPH T. DUENAS, CHAIRMAN
CONSOLIDATED COMMISSION ON UTILITIES

UTILITY LABORATORY TECHNICIAN LEADER

NATURE OF WORK:

Utility Laboratory Technician Leader performs complex technical laboratory duties independently.

Employees in this class collect and analyze more complex analysis of water and wastewater samples for chemical and micro-biological content in accordance with Standard Methods for the Examination of water and wastewater, the Safe Drinking Water Act and the Clean Water Act.

Employees often serves as team or group leader over less experienced technical laboratory staff.

ILLUSTRATIVE EXAMPLES OF WORK: (Any one position may not include all the duties listed, nor do the examples cover all the duties which may be performed)

Leads the processing of samples for analysis, sterilizes equipment, more intricate calibration of equipment as recommended and general cleaning duties.

Maintains working order of equipment and supplies necessary to performs analysis for samples to include minor repairs on laboratory equipment when needed.

Schedules the use of equipment, washing of glassware and other instruments and preparation of media, solutions, and other materials.

Leads the collection of samples from the Distribution lines, deep well and surface water source.

Leads the collection of water samples from consumer's complaints of dirty water, bad odor, or high chlorine content.

Maintains inventory, establishes supply levels and orders chemicals, equipment, and supplies.

Assists with research or study involving use of various equipment.

Schedules all required QA/QC and safety checks as required.

Disinfects tankers and new water lines to include determining the amount of chlorine needed to provide a certain dosage.

Analyzes water for bacteriological contamination and chlorine residue.

Leads in the collection of sample for off shore, shoreline, wastewater treatment plant influent/effluent and various rivers as well as any discharges into the rivers as required.

Analyzes potable water samples and analyzes for chemical analysis such as: Calcium and Total Hardness, Chlorides, Alkalinity, Conductivity, pH, Temperature, Turbidity and Bacteria content.

Analyzes oil and grease, Settleable, Suspended and Total Solids, ph Fecal Coliform, E-Coli, Enterococci and Biochemical Oxygen Demand.

Performs complex analysis, non-routine chemical, biological or physical test and analysis as required in control operations of water and sewage.

Leads and conducts training of other lower laboratory technicians.

Maintains records of all analytical work according to the Laboratory Quality Assurance (QA) and Quality Control (QC) Plans and Standard Operating Procedures. Ensures all data is in compliance with the requirements of pre-schedule intervals.

Maintains various laboratory records and prepares reports. Inputs required information into the LIMS (Laboratory Information Management System) computer program.

Creates work orders for daily assigned tasks.

May assist and participate in the budget preparation process.

Leads in the repair of laboratory equipment as needed.

Performs related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of laboratory testing procedures, principles, techniques, terminology, protocols and equipment of a variety of standardized laboratory tests.

Ability to perform difficult laboratory tests requiring some technical judgment in determining and using proper procedures and interpreting results.

Knowledge of laboratory equipment maintenance, calibration and troubleshooting and sterilization.

Knowledge of laboratory safety protocols, including, but not limited to, use of personal protective equipment (PPE's), proper laboratory techniques, disposal of bio-hazard, etc.

Knowledge of principles of the physical and biological sciences, as applied to particular laboratory assignment.

Knowledge of computer systems and various software/application programs as required, according to company and departmental procedures.

Knowledge of LIMS (Laboratory Information Management System) computer program.

Ability to maintain records and prepare reports.

Ability to lead the work of others.

Ability to work effectively with the public and employees.

Ability to communicate effectively, orally and in writing.

Ability to make decisions in accordance with appropriate program guidelines

Ability to follow specific procedures and observe and record results accurately.

MINIMUM EXPERIENCE AND TRAINING:

A. Graduation from a recognized college or university with an Associate's degree in science or water technology with courses in microbiology, chemistry or related natural science; ***and*** two (2) years of experience as a Utility Laboratory Technician II; or

B) Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

ESTABLISHED: July 2018

PAYGRADE: MINIMUM: J5-C $49,327
MAXIMUM: J6-C $51,330

JOB EVALUATION POINTS: 711

JOSEPH T. DUENAS, CHAIRMAN
CONSOLIDATED COMMISSION ON UTILITIES

PROPOSED

UTILITY LABORATORY TECHNICIAN SUPERVISOR

NATURE OF WORK:

Utility Laboratory Technician Supervisor performs supervisory laboratory work in the water and/or wastewater utility.

Employees in this class assesses complex techniques and methodologies in collecting and analyzing water and wastewater samples for chemical and micro-biological content in accordance with Standard Methods for the Examination of water and wastewater, the Safe Drinking Water Act and the Clean Water Act.

Employees in this class supervise a unit performing a variety of complex technical laboratory duties.

ILLUSTRATIVE EXAMPLES OF WORK: (Any one position may not include all the duties listed, nor do the examples cover all the duties which may be performed)

Supervises the laboratory personnel in processing and analysis of various laboratory duties in a water and/or wastewater utility.

Supervises the processing of samples for analysis, sterilizes of equipment and more intricate calibration of equipment and general cleaning duties in a water and/or wastewater utility.

Supervises the maintenance of equipment and supplies necessary to performs analysis for samples to include minor repairs on laboratory equipment when needed.

Supervises the collection of samples from the Distribution lines, deep well and surface water source.

Supervises the collection of samples from consumer complaints of dirty water, bad odor, or high chlorine content, etc.; diagnoses issues and coordinating with other divisions to help determine the cause and solve the problem.

Supervises the disinfection of tankers and new water lines to include determining the amount of chlorine needed to provide cartage dosage in a water and/or wastewater utility.

Supervises the analysis of water for bacteriological contamination and chlorine residue in a water and/or wastewater utility.

Supervises the collection of sample for off shore, shoreline, wastewater treatment plant influent/effluent and various rivers as well as any discharges into the rivers as required in a water and/or wastewater utility.

Supervises the analysis of potable water samples and analyzes for chemical analysis such as: Calcium and Total Hardness, Chlorides, Alkalinity, Conductivity, ph, Temperature, Turbidity and Bacteria content.

Supervises the analysis of Settleable, Suspended and Total Solids, ph Fecal Coliform, E-Coli, Enterococci and Biochemical Oxygen Demand.

Conducts research on new technologies or methods that might be beneficial or cost effective. This may include updating to new equipment and supplies necessary to perform analysis.

Conducts training of other lower level Utility Laboratory Technicians.

Maintains records of all analytical work according to Laboratory Quality Assurance (QA) and Quality Control (QC) Plans and Standard Operating Procedures. Ensures all data is in compliance with the requirements of pre-schedule intervals.

Reviews various laboratory records and reports into the LIMS (Laboratory Information Management System) computer program.

Reviews and validates daily chain of custody for field analysis in LIMS (Laboratory Information Management System) for water and wastewater.

Supervises the processes a number of procedures including samples for analysis, sterilizes equipment, calibration of equipment as recommended and general cleaning duties.

Supervises the schedules use of equipment, washing of glassware and other instruments and preparation of media, solutions, and other materials.

Supervises the work of lower level technicians performing various laboratory maintenance, preparation of media and specimens, and participates in performing standardized analysis.

Supervises the storage areas and dispenses of materials. Supervises the inventory and establishes supply levels and orders chemicals, equipment, and supplies.

Participates and submits recommendations in the section's budget process.

Participates in the research or study involving use of various equipment.

Supervises more complex, non-routine chemical, biological or physical test and analysis as required in control operations of water and sewage.

Performs related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of laboratory testing procedures, principles, techniques, terminology, protocols and equipment of a variety of standardized laboratory tests.

Knowledge of laboratory equipment maintenance, calibration and troubleshooting and sterilization.

Knowledge of laboratory safety protocols, including, but not limited to, use of personal protective equipment (PPE's), proper laboratory techniques, disposal of bio-hazard, etc.

Knowledge of principles of the physical and biological sciences, as applied to particular laboratory assignment.

Extensive Knowledge of LIMS (Laboratory Information Management System) computer program.

Knowledge of computer systems and multiple software programs as required, according to company and departmental procedures.

Knowledge to perform complex laboratory tests requiring technical judgment in determining and using proper procedures and interpreting results.

Ability to maintain records and prepare reports.

Ability to supervise the work of others.

Ability to work effectively with the public and employees.

Ability to communicate effectively, orally and in writing.

Ability to make decisions in accordance with appropriate program guidelines

Ability to follow specific procedures and observe and record results accurately.

MINIMUM EXPERIENCE AND TRAINING:

Graduation from a recognized college or university with a Bachelor's degree in biology, chemistry, microbiology or closely related field; and 4 (four) years as a Utility Laboratory Technician Leader.

ESTABLISHED: July 2018

PAYGRADE: MINIMUM: K5-D $60,283
MAXIMUM: K6-D $62,731

JOB EVALUATION POINTS: 837

JOSEPH T. DUENAS, CHAIRMAN
CONSOLIDATED COMMISSION ON UTILITIES

PROPOSED

GUAM WATERWORKS AUTHORITY
"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-FY2018
Relative to Approval of the Route 4 Relief Sewerline Rehabilitation and Replacement Construction Contract with ProPacific Builder Corporation and Insituform Technologies, LLC.

What is the project's objective and is it necessary and urgent?
The objective of this USEPA SRF project is to improve the sewer collection system, which included repairing and/or replacing sewer manholes and over 4,200 linear feet of gravity sewer line along Route 4 and Route 1 in the village of Hagatna. These sewer infrastructure elements have been identified by GWA, through an SSES investigation, to be subjected to either inactivity due to incomplete construction work or excessive infiltration and inflow (I&I). Successful completion of this project will result in proper maintenance and operation of the sewer collection system and USEPA agree that efforts to rehabilitate, repair or replace the sewer line are necessary.

Where is the project located?
This project is located along Route 4 and Route 1, from the area in front of Vons Chicken in Agana to the Agana Main Pump Station. Construction activities will be limited to the government easements of the sewer infrastructure elements.

How much will it cost?
The Invitation to Re-bid (IFB-04-ENG-2018) for the Route 4 Relief Sewer Line Rehabilitation and Replacement was structured in a manner wherein GWA could potentially acquire two separate construction companies for the necessary work. As such a lowest responsible and responsive bid from ProPacific Builder Corporation for Schedule A was received at a total of Three Million Four Hundred Seven Thousand Eight Hundred Forty-Eight Dollars **(**$3,407,848.00). Furthermore, a lowest responsive and responsible service bid from Insituform Technologies, LLC for Schedule B was received at a total of Three Million Nine Hundred Ninety-Eight Thousand Six Hundred Eighty-Eight Dollars **(**$3,998,688.00). These contract amounts, which is primarily based on unit pricing, includes the furnishing of all labor, tools, equipment and materials, and government agency coordination needed to complete the sewer infrastructure replacement in the aforementioned locations.

GWA management is also seeking a ten percent (10%) contingency of the total contract amount of Three Hundred Forty Thousand Seven Hundred Eighty-Four Dollars and Eighty Cents **(**$340,784.80) for Schedule A and Three Hundred Ninety-Nine Thousand Eight Hundred Sixty-Eight Dollars and Eighty Cents **(**$399,868.80) for Schedule B, which brings the total authorized funding amount to a maximum of Eight Million One Hundred Forty-Seven Thousand One Hundred Eighty-Nine Dollars and Sixty Cents ($8,147,189.60) for the project.

When will it be completed?
The construction contract length of this project is 450 calendar days for Schedule A and 450 calendar days for Schedule B. Estimated completion of construction is end of 2019.

What is the funding source?
The funding for this project will be from USEPA SRF Grant Funds and, if necessary, GWA Bond funds and System Development Charge Fund applicable to the project intent.

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

RESOLUTION NO. 40–FY2018

RELATIVE TO CONTRACTS APPROVAL FOR THE ROUTE 4 RELIEF SEWER LINE REHABILITATION AND REPLACEMENT PROJECT S15-006-EPA

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

WHEREAS, GWA has received a grant from USEPA under the State Revolving Fund program to improve the sewer collection system, which included over 4,200 linear feet of gravity sewer line along Route 4 from the bottom of the hill in Agana to Route 1, and along Route 1 to the Agana Main Pump Station; and

WHEREAS, the gravity sewer line noted above has a section that has been inactive since its original installation due to incomplete construction work, and sections that are in need of repair due to high infiltration and inflow (I/I), and the intent of this project is to rehabilitate, repair or replace these sections along with associated roadway surface improvements; and

WHEREAS, GWA and USEPA agree that efforts to rehabilitate, repair or replace these sewer lines are necessary to provide sufficient capacity, and properly maintain and operate the sewer collection system, and the first step in doing so is through scope of services that includes general civil engineering, geotechnical engineering, and archeological investigation for wastewater collection system evaluation, analysis and design; and

DRAFT

WHEREAS, in July 2015 GWA Management began the procurement process to find a consulting engineering team to design the sewer rehabilitation and replacement, and via Resolution No. 16-FY2016, approved by the CCU in January 2016, GWA Management was authorized to enter into a contract with AECOM to design the sewer rehabilitation and replacement; and

WHEREAS, in February of 2016 GWA Management entered into a contract with AECOM to design the sewer rehabilitation and replacement, and in May of 2017 the final design was completed; and

WHEREAS, on August 25, 2017, GWA advertised the Invitation to Bid (IFB-10-ENG-2017) for the Route 4 Relief Sewer Line Rehabilitation and Replacement soliciting bid proposals from experienced and responsive bidders to repair and/or replace segments of gravity sewer lines and manholes subjected to I&I in the village of Hagatna, but ultimately GWA received no bids at that time; and

WHEREAS, following the initial Invitation to Bid, GWA discussed with contractors the challenges that may have prevented them from bidding, reviewed all the available information, and split the contract into two separate parts, a Schedule A and a Schedule B; and

WHEREAS, on March 23, 2018, GWA advertised another Invitation to Bid (IFB-04-ENG-2018) for the Route 4 Relief Sewer Line Rehabilitation and Replacement soliciting bid proposals from experienced and responsive bidders to repair and/or replace segments of gravity sewer lines and manholes subjected to I&I in the village of Hagatna; and

WHEREAS, this project consists of furnishing all labor, tools, equipment and materials, necessary to install, replace, and repair sewer along Rt.4 and Rt.1, including coordination with GWA Wastewater Operations, GWA Engineering, the Construction Manager, the project Design Engineer, GWA's Program Management Office and the Department of Public Works; and

WHEREAS, IFB packages were obtained by multiple interested parties, from which GWA received bid proposals from three (3) parties (SEE EXHIBIT A – Abstract of Bids) before

the bid proposal deadline, with one (1) party submitting a proposal for only Schedule A, one (1) party submitting a proposal for only Schedule B, and one (1) party submitting a proposal for both Schedule A and B; and

WHEREAS, the project Design Engineer, in conjunction with GWA, analyzed the bid proposals received (SEE EXHIBIT B – Evaluation) on June 8, 2018 and determined that the bid proposal submitted by ProPacific Builder Corporation (PPBC) (SEE EXHIBIT C – ProPacific Bid) for Schedule A, and the bid proposal submitted by Insituform Technologies, LLC (Insituform) (SEE EXHIBIT D – Insituform Bid) for Schedule B, were the lowest responsive and responsible bids and met all the bid requirements set forth by GWA; and

WHEREAS, GWA Management finds both PPBC's bid proposal for Schedule A, and Insituform's bid proposal for Schedule B acceptable; and

WHEREAS, for Schedule A, PPBC's bid proposal in the amount of Three Million Four Hundred Seven Thousand Eight Hundred Forty-Eight Dollars **(**$3,407,848.00), plus a ten percent (10%) contingency of Three Hundred Forty Thousand Seven Hundred Eighty-Four Dollars and Eighty Cents **(**$340,784.80) to bring the authorized funding amount for Schedule A to a total of Three Million Seven Hundred Forty-Eight Thousand Six Hundred Thirty-Two Dollars and Eighty Cents ($3,748,632.80); and

WHEREAS, for Schedule B, Insituform's bid proposal in the amount of Three Million Nine Hundred Ninety-Eight Thousand Six Hundred Eighty-Eight Dollars **(**$3,998,688.00), plus a ten percent (10%) contingency of Three Hundred Ninety-Nine Thousand Eight Hundred Sixty-Eight Dollars and Eighty Cents **(**$399,868.80) to bring the authorized funding amount for Schedule B to a total of Four Million Three Hundred Ninety-Eight Thousand Five Hundred Fifty-Six Dollars and Eighty Cents ($4,398,556.80); and

WHEREAS, GWA Management seeks CCU approval of PPBC's bid proposal plus the 10% contingency for Schedule A of Three Million Seven Hundred Forty-Eight Thousand Six Hundred Thirty-Two Dollars and Eighty Cents ($3,748,632.80), and Insituform's bid proposal plus contingency for Schedule B of Four Million Three Hundred Ninety-Eight Thousand Five

Hundred Fifty-Six Dollars and Eighty Cents ($4,398,556.80), to bring the total authorized funding amount to Eight Million One Hundred Forty-Seven Thousand One Hundred Eighty-Nine Dollars and Sixty Cents ($8,147,189.60); and

WHEREAS, funding for this project will be from the USEPA State Revolving Fund and, if necessary, GWA Bond funds and System Development Charge funds applicable to the project intent; and

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 and conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
3. The CCU hereby authorizes the management of GWA to accept the bid proposals from "ProPacific Builder Corporation" and "Insituform Technologies, LLC." (EXHIBITS C and D)
4. The CCU hereby further authorizes the management of GWA to enter into a contract with "ProPacific Builder Corporation" in the amount of Three Million Four Hundred Seven Thousand Eight Hundred Forty-Eight Dollars **(**$3,407,848.00).
5. The CCU hereby further authorizes the management of GWA to enter into a contract with "Insituform Technologies, LLC" in the amount of Three Million Nine Hundred Ninety-Eight Thousand Six Hundred Eighty-Eight Dollars **(**$3,998,688.00).
6. The CCU hereby further approves the funding total for Schedule A of Three Million Four Hundred Seven Thousand Eight Hundred Forty-Eight Dollars **(**$3,407,848.00), plus a ten percent (10%) contingency of Three Hundred Forty Thousand Seven Hundred Eighty-Four Dollars and Eighty Cents **(**$340,784.80), and for Schedule B of Three Million Nine Hundred Ninety-Eight Thousand Six Hundred Eighty-Eight Dollars ($3,998,688.00), plus a ten percent (10%) contingency of Three Hundred Ninety-Nine Thousand Eight Hundred Sixty-Eight

DRAFT

Dollars and Eighty Cents (**(**$399,868.80), for a total authorized funding amount of Eight Million One Hundred Forty-Seven Thousand One Hundred Eighty-Nine Dollars and Sixty Cents ($8,147,189.60).

7. The CCU hereby further approves the funding for this project will be from the USEPA State Revolving Fund and, if necessary, GWA Bond funds and System Development Charge Funds applicable to the project.
8. In the event funds other than SRF are used and they exceed One Million Dollars ($1,000,000.00), GWA is authorized to petition the PUC for approval.

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

DULY AND REGULARLY ADOPTED, this 24th day of July 2018.

Certified by: Attested by:

_____ _____

JOSEPH T. DUENAS **J. GEORGE BAMBA**
Chairperson Secretary

SECRETARY'S CERTIFICATE

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

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

AYES: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

ORIGINAL

GUAM WATERWORKS AUTHORITY
ABSTRACT OF BIDS

Exhibit A (1 of 1)

Project Name: **ROUTE 4 RELIEF SEWERLINE REHABILITATION AND REPLACEMENT (RE-BID)**

Bid Opening Date: May 29, 2018
Time: 3:00 PM

Project Number: S15-006-EPA IFB NO.: IFB-04-ENG-2018

	Qualified Bidders Name	Section A-5 Bid Bond	CERTIFICATIONS											SCHEDULE A		SCHEDULE B		
										Addendum								
			QS	NCA	EEO	NSF	SOC	WBD	MSA	SIB	1	2	3	4	BASE BID	ADDITIVE BID	BASE BID	ADDITIVE BID NO. 1	ADDITIVE BID NO. 2
1.	PRO PACIFIC BUILDER CORP.	Endurance Assurance Corporation 15% of total bid amount	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	$3,407,848.00	$150,000.00	no bid submitted	no bid submitted	no bid submitted
2.	CANTON CONSTRUCTION CORP.	no bid submitted																	
3.	GIANT CONSTRUCTION CORP.	no bid submitted																	
4.	INSITUFORM	Travelers Casualty & Surety Company 15% of bid amount	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	no bid submitted	no bid submitted	$3,998,088.00	$1,296,780.00 ~~$5,245,388.00~~	$35,000.00 ~~$5,370,388.00~~
5.	GRANITE CONSTRUCTION COMPANY	no bid submitted																	
6.	INFRATECH INT'L. LLC	no bid submitted																	
7.	CHI CONSTRUCTION INC.	no bid submitted																	
8.	HES MICRONESIA	no bid submitted																	
9.	CORE TECH/HDCC GUAM, LLC	Fidelity & Deposit Company of Maryland 15% of bid amount	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	$6,191,463.28	$20,592.67	$7,570,573.71	$799,818.94	$20,583.15
10.	BME & SONS	no bid submitted																	
	GWA Estimate																		

Bids Opened and Read by:
GLORIA O. BENSAN
(Name and Signature)

Tabulated By:
Nicole Quan
(Name and Signature)

GWA Procurement Representative:
Victoria Heacock
(Name and Signature)

Witnesses:
EMPSCO
Fausto Tayag
EMPSCO
PPBC
CHL

AECOM
414 W. Soledad Avenue
Suite 708
Hagåtña, GU 96932
www.aecom.com

671 477 8326/7 tel
671 472 8324 fax

Exhibit B (1 of 1)

June 8, 2018

The Guam Waterworks Authority
Thomas F. Cruz, P.E., Chief Engineer
Engineering Division
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, GU 96913

Subject: Bid Review and Recommendation for the Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-bid) Project, GWA Project No. S15-006-EPA, IFB No. IFB-04-ENG-2018.

Håfa Adai Tom,

The bids for this project were opened on May 29, 2018. Out of 10 bidders who expressed interest in the project, only 3 bid proposals were received and included ProPacific Builder Corporation (ProPacific), Insituform Technologies, LLC (Insituform), and Core Tech/Hawaiian Dredging, LLC (CHL). Pro Pacific submitted a bid for only Schedule A. Insituform submitted a bid for only Schedule B. CHL submitted a bid for both schedules. A summary of the bids prices along with the Engineer's Opinion of Construction Cost Estimate are provided in the table below.

Bid Schedule	Engineer's Estimate	ProPacific	Insituform	CHL
SCHEDULE A - Base Bid	$ 2,701,217.00	$ 3,407,848.00	No Bid	$ 6,191,463.33
SCHEDULE A – Additive Bid No. 1	$ 7,000.00	$ 150,000.00	No Bid	$ 20,592.67
SCHEDULE A – Total	$ 2,708,217.00	$ 3,557,848.00	No Bid	$ 6,212,056.00
SCHEDULE B - Base Bid	$ 2,482,494.00	No Bid	$ 3,998,688.00	$ 7,570,573.65
SCHEDULE B – Additive Bid No. 1	$ 62,880.00	No Bid	$ 1,296,700.00	$ 799,818.94
SCHEDULE B – Additive Bid No. 2	$ 7,000.00	No Bid	$ 35,000.00	$ 20,583.15
SCHEDULE B – Total	$ 2,552,374.00	No Bid	$ 5,330,388.00	$ 8,390,975.74

It is understood that the bids are to be evaluated by each schedule separately and contract(s) awarded using the Base Bid. After contract award, GWA may consider adding items in the additive bids into the contract by change orders. If the bid is within the amount of funds available to finance the construction Contract, then the award will be made to the lowest responsive and responsible bidder. In the event all bids exceed the available budget, GWA may reject bids by individual line items until the individual line items fit within the available budget.

AECOM conducted an evaluation of the bids received and provide recommendations for award to the responsible Bidder submitting the lowest responsive Bid. The following is a brief summary of the bid evaluation:

- Overall, the CHL bid prices appeared to be excessive in comparison with the other bidders and the Engineer's Estimate for both bid schedules evaluated separately.
- For Schedule A – Base Bid, ProPacific's bid price was approximately 26% more than the Engineer's Estimate and is the lowest responsive bid. ProPacific's total bid including the bid additive was approximately 31% more than the Engineer's Estimate.
- For Schedule B – Base Bid, Insituform's bid price was approximately 61% more than the Engineer's Estimate and is the lowest responsive bid. Insituform's total bid including the bid additives was approximately double the Engineer's Estimate.

Based on the bid evaluation conducted, it is recommended that ProPacific be awarded a construction contract for Schedule A – Base Bid and Insituform be awarded a separate construction contract for Schedule B – Base Bid. It is also recommended that if needed, GWA can consider rejecting individual line items to fit within the available budget; particularly for all the bid additives.

Respectfully,

Agapito (Pete) Diaz, PE
Project Manager
671-477-8326/7
pete.diaz@aecom.com

Exhibit C (1 of 15)

GUAM WATERWORKS AUTHORITY

BID INVITATION NO.
IFB-04-ENG-2018
GWA Project No.: S15-006-EPA

Route 4 Relief Sewer Line Rehabilitation and Replacement

BID PROPOSAL

Submitted by:

PROPACIFIC BUILDER CORPORATION
(formerly Guam Yooshin Corporation)
750 Route 8 Suite 202 Hanam Plaza,
Barrigada, Guam 96913
T. 671.477.3109 | F. 671.477.7424 | jgyc@guam.net

Exhibit C (2 of 15)

Procurement Checklist

CHECKLIST OF FORMS AND DOCUMENTS REQUIRED TO BE SUBMITTED IN CONJUNCTION WITH BIDS

A.	Form or document that must be submitted with bid	Initial if Submitted:
1.	Bid Bond Equal to 15% of total amount of bid	
2.	Bidder Qualification Form	
3.	Bid Proposal and Bid Schedule	
4.	Non-Collusion Affidavit	
5.	Certification of Bidder Regarding Equal Employment Opportunity	
6.	Certification Regarding Non-Segregated Facilities	
7.	Sex Offender Certification	
8.	Wage and Benefit Determination	
9.	Major Shareholders Disclosure Affidavit	
10.	Special Instructions to Bidders	
11.	Proof of Licensure to Perform Work Called For by the Bid	
12.	Financial Statements	
13.	Proof of Status as Veteran (if applies)	N/A
14.	Forms or Documents Required by Bid or Bid Amendments not referred to above	

I, Jean Yeon Yu, a duly authorized representative of PPBC, do hereby certify, that the forms list above have in fact been submitted with my firm's bid. I acknowledge that, failure to submit any of the above documents will result in my firm being deemed non-responsive and having my firm's bid rejected.

Signed: _____

Date: 05/29/2018

Exhibit C (3 of 15)

BID FORM

ARTICLE 1 - BID RECIPIENT

1.01 This Bid is submitted to:

Guam Waterworks Authority
Engineering Division, Room 202
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam 96913

1.02 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.

ARTICLE 2 - BIDDER'S ACKNOWLEDGMENTS

2.01 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.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. 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
Addendum No. 1	April 19, 2018
Addendum No. 2	April 26, 2018
Addendum No. 3	May 15, 2018
Addendum No. 4	May 18, 2018

B. 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 observable 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.

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Exhibit C (4 of 15)

C. 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.

D. 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.

E. 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.

F. 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.

ARTICLE 4 - BIDDER'S CERTIFICATIONS

4.01 Bidder certifies that:

A. 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;

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

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

D. 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:

1. "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;

2. "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;

3. "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

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Exhibit C (5 of 15)

4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process.

ARTICLE 5 - BASIS OF BID AND AWARD OF CONTRACTS

5.01 This contract is a multi-award contract through which more than one contract may be awarded through this solicitation. The Bid Schedule contains two schedules, Schedule A and Schedule B. Bidder will furnish the Goods and Special Services in accordance with the Contract Documents for the prices indicated under this article. The Bidder can elect to provide prices under Schedule A or Schedule B or both schedules. Bids must include all items under Schedule A or Schedule B, or both Schedule A and B. Each of Schedules A and B comprise Base Bid items and Additive Bid items. The Bidder shall provide base bid and additive bid(s) prices under each elected schedule.

Bids shall be evaluated by Schedule. Each of Schedules A and B shall be evaluated separately. The lowest responsive and responsible bidder shall be determined for each of Schedule A and Schedule B. Separate contracts will be awarded under Schedule A and Schedule B. One contract will be awarded to the lowest responsive and responsible bidder for Schedule A and one contract will be awarded to the lowest responsive and responsible bidder for Schedule B. If the same contractor is the lowest responsive and responsible bidder for both Schedules A and B, one contract for all the work under Schedules A and B will be awarded.

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Exhibit C (6 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Base Bid

Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				SCHEDULE A – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization	LS	$293,780.00	1	$ 293,780.00
2	Insurance and Bonds	LS	$132,201.00	1	$ 132,201.00
3	Permits	LS	$44,067.00	1	$ 44,067.00
4	12" PVC pipe, installed by open trench, including PVC pipe, fittings, warning/identification tape, cleaning, connections to manholes, adjustment existing channel and bench, testing, and all incidentals, in place complete.	LF	$1,500.00	22	$ 33,000.00
5	18" PVC pipe, installed by open trench, including PVC pipe, fittings, warning/identification tape, cleaning, connections to existing manholes, adjustment existing channel and bench, testing, and all incidentals, in place complete.	LF	$1,800.00	12	$ 21,600.00
6	30" PVC pipe, installed by open trench, including existing pipe removal, pipe, fittings, warning/identification tape, cleaning, manhole connections, testing, and all incidentals, in place complete.	LF	$2,000.00	461	$ 922,000.00
7	Unclassified Trench Excavation and Backfill, including protection of existing utilities if necessary, excavation, installation of sheet piles, cutting and removal of sheet piles, shoring, groundwater cutoff wall, dewatering and dewatering effluent disposal, muck handling and disposal, backfill, pipe bedding, CLSM, temporary erosion control measures, traffic control work, miscellaneous restoration work, and all incidentals required to complete the work.	CY	$600.00	913	$ 547,800.00
8	Precast Sewer Manhole, SMH-6901A and 493A, including reinforced concrete base, precast concrete riser and cone, flexible pipe seals and connectors, grade adjustment ring(s), frame and cover, epoxy-coating, channelized inverts, testing, CLSM, temporary erosion control measures, traffic control work, incidentals, and all necessary labor, materials and equipment, in place complete.	EA	$30,000.00	2	$ 60,000.00

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Exhibit C (7 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Base Bid

Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				SCHEDULE A – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
9	Drop Precast Sewer Manhole, SMH-6908B, including demolition of existing SMH-10312, reinforced concrete base, precast concrete riser and cone, chimney, flexible pipe seals and connectors, grade adjustment ring(s), frame and cover, epoxy-coating, channelized inverts, testing, CLSM, temporary erosion control measures, traffic control work, incidentals, and all necessary labor, materials and equipment, in place complete.	EA	$ 30,000.00	1	$ 30,000.00
10	Rehabilitation of sewer manhole with epoxy coating, including cleaning, surface preparation, cementitious underlayment, concrete channel and bench construction, existing pipe cut & connection, plugging existing pipe, epoxy topcoat, grout injection for leak repair, traffic control work, and all incidentals, in place complete.	EA	$ 22,500.00	14	$ 315,000.00
11	Abandon existing sewer pipes including plugging and filling with CLSM, all incidentals, in place complete.	LF	$ 250.00	280	$ 70,000.00
12	Unplug 21" existing pipe, plug 15" existing SL-9650 and channel & bench reconstruction at SMH-6897	LS	$ 30,000.00	1	$ 30,000.00
13	Sewer Flow Control, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent asphalt concrete (AC) pavement, muck handling and disposal), electrical and standby power/pumps, monitoring, spill containment/mitigation, traffic control work, temporary erosion control measures, all related restoration work, in place complete.	LS	$ 300,000.00	1	$ 300,000.00
14	Removal of existing pavement including all necessary labor, materials and equipment, in place complete	SY	$ 50.00	2,867	$ 143,350.00

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Exhibit C (8 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Base Bid

Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				SCHEDULE A – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
15	AC Pavement Resurfacing, including asphalt concrete base, cold planing, pavement transitions, prime coat, tack coat, traffic striping, miscellaneous restoration, and all necessary labor, materials and equipment, in place complete	SY	$ 150.00	2,867	$ 430,050.00
16	Pavement marking including all necessary labor, materials and equipment, in place complete	LS	$25,000.00	1	$ 25,000.00
17	As-Built drawings	LS	$10,000.00	1	$ 10,000.00
	SCHEDULE A – Base Bid (TOTAL Items 1 through 17, inclusive)				$ 3,407,848.00

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Additive Bid No. 1

Description of Work: Archaeological monitoring.

				SCHEDULE A – Additive Bid No. 1	
1	Archaeological and cultural resource services to add new laydown staging areas outside of the suggested areas or outside of the area of potential effect as defined the Archaeological Monitoring and Data Recovery Plan for the project and resubmit to the Department of Parks and Recreation, Guam Historic Resources Division/State Historic Preservation Office for approval and acceptance.	LS	$ 150,000.00	1	$ 150,000.00
	SCHEDULE A - Additive Bid No. 1 (TOTAL Items 1, inclusive)				$ 150,000.00

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Exhibit C (9 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B –Base Bid

Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				Schedule B – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization	LS	$_____	1	$_____
2	Insurance and Bonds	LS	$_____	1	$_____
3	Permits	LS	$_____	1	$_____
4	Installation of cured in place pipe (CIPP) lining in existing 21" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	$_____	674	$_____
5	Installation of cured in place pipe (CIPP) lining in existing 24" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	$_____	723	$_____

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Exhibit C (10 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B –Base Bid

Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				Schedule B – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
6	Installation of cured in place pipe (CIPP) lining in existing 30" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	$_____	1,590	$_____
7	Installation of cured in place pipe (CIPP) lining in existing 36" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	$_____	798	$_____
8	Sewer Flow Control, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement, muck handling and disposal), electrical and standby power/pumps, monitoring, spill containment/mitigation, traffic control work, temporary erosion control measures, all related restoration work, in place complete.	LS	$_____	1	$_____

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Exhibit C (11 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B –Base Bid

Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				Schedule B – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
	Schedule B – BASE BID (TOTAL Items 1 through 8, inclusive)				$_____

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B – Additive Bid No. 1

Description of Work: CIPP part-liner or chemical grouting to control infiltration/inflow prior to CIPP lining.

				Schedule B – Additive Bid No. 1	
1	CIPP part-liner or grouting to control infiltration on the existing 21" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	$_____	70	$_____
2	CIPP part-liner or grouting to control infiltration on the existing 24" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	$_____	80	$_____
3	CIPP part-liner or grouting to control infiltration on the existing 30" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	$_____	160	$_____
4	CIPP part-liner or grouting to control infiltration on the existing 36" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	$_____	160	$_____
	SCHEDULE B – Additive Bid No. 1 (TOTAL Items 1 through 4, inclusive)				$_____

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Exhibit C (12 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B - Additive Bid No. 2
Description of Work: Archaeological monitoring.

				SCHEDULE B – Additive Bid No. 2	
1	Archaeological and cultural resource services to add new laydown staging areas outside of the suggested areas or outside of the area of potential effect as defined the Archaeological Monitoring and Data Recovery Plan for the project and resubmit to the Department of Parks and Recreation, Guam Historic Resources Division/State Historic Preservation Office for approval and acceptance.	LS	$_____	1	$_____
SCHEDULE B - Additive Bid No. 2 (TOTAL Items 1, inclusive)					$_____

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.

ARTICLE 6 - TIME OF COMPLETION

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

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

ARTICLE 7 - ATTACHMENTS TO THIS BID

7.01 The following documents are attached to and made a condition of this Bid:

A. Required Bid security in the form of Bid Bond.

B. List of Proposed Major Suppliers;

C. Required Bidder Qualification Statement with Supporting Data.

ARTICLE 8 - DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

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Exhibit C (13 of 15)

ARTICLE 9 - BID SUBMITTAL

9.01 This Bid submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____
(Individual's signature)

Doing business as: _____

Business address: _____

_____

Phone: _____ Facsimile: _____

E-mail address: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(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: PROPACIFIC BUILDER CORPORATION

State of Incorporation: GUAM

Type (General Business, Professional, Service, other): General Contractor

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): Jean Yeon Yu

Title: President

(CORPORATE SEAL)

Attest _____
(Signature of Corporate Secretary)

Business address: 750 Route 8 Suite 202 Hanam Plaza, Barrigada, GU 96913

_____

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Exhibit C (14 of 15)

Phone: 671-477-3109 Facsimile: 671-477-7424
E-mail address: jgyc@guam.net

A Limited Liability Company (LLC)

LLC Name: _____
State in which organized: _____

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____
Title: _____
Business address: _____

_____

Phone: _____ Facsimile: _____
E-mail address: _____

A Joint Venture

First Joint Venturer Name: _____ (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____
Title: _____
Business address: _____

_____

Phone: _____ Facsimile: _____
E-mail address: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____
Title: _____
Business address: _____

_____

Phone: _____ Facsimile: _____
E-mail address: _____

Phone and Facsimile Number, and Address for receipt of official communications to Joint Venture:

_____

_____

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Exhibit C (15 of 15)

(Each joint venturer must sign. The manner of signing for each individual, partnership, corporation, and limited liability company that is a party to the joint venture should be in the manner indicated above.)

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Exhibit D (1 of 17)

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SEALED BID FOR: ROUTE 4 RELIEF SEWER LINE REHABILITATION AND REPLACEMENT (RE-BID)

BIDDER: INSITUFORM TECHNOLOGIES, LLC
17988 EDISON AVE
CHESTERFIELD, MO 63005

GWA PROJECT NO. S15-006-EPA

CLOSING DATE AND TIME
~~5/25/2018~~ 5/29/2018
3:00 PM

ATTENTION: GUAM WATERWORKS AUTHORITY
GLORIA B. NELSON PUBLIC SERVICES BUILDING
688 ROUTE 15
MANGILAO, GUAM 96913

Vol. 1 of 2

Exhibit D (2 of 17)

TABLE OF CONTENTS

Article 1 - BID RECIPIENT 2
Article 2 - BIDDER'S ACKNOWLEDGMENTS 2
Article 3 - BIDDER'S REPRESENTATIONS 2
Article 4 - BIDDER'S CERTIFICATIONS 3
Article 5 - BASIS OF BID AND AWARD OF CONTRACTS 4
Article 6 - TIME OF COMPLETION 11
Article 7 - ATTACHMENTS TO THIS BID 11
Article 8 - DEFINED TERMS 11
Article 9 - BID SUBMITTAL 12

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Exhibit D (3 of 17)

BID FORM

ARTICLE 1 - BID RECIPIENT

1.01 This Bid is submitted to:

Guam Waterworks Authority
Engineering Division, Room 202
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam 96913

1.02 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.

ARTICLE 2 - BIDDER'S ACKNOWLEDGMENTS

2.01 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.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. 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
1	April 19, 2018
2	April 24, 2018
3	May 15, 2018
4	May 18, 2018

ED

B. 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 observable 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.

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Exhibit D (4 of 17)

C. 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.

D. 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.

E. 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.

F. 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.

ARTICLE 4 - BIDDER'S CERTIFICATIONS

4.01 Bidder certifies that:

A. 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;

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

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

D. 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:

1. "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;

2. "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;

3. "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

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Exhibit D (5 of 17)

4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process.

ARTICLE 5 - BASIS OF BID AND AWARD OF CONTRACTS

5.01 This contract is a multi-award contract through which more than one contract may be awarded through this solicitation. The Bid Schedule contains two schedules, Schedule A and Schedule B. Bidder will furnish the Goods and Special Services in accordance with the Contract Documents for the prices indicated under this article. The Bidder can elect to provide prices under Schedule A or Schedule B or both schedules. Bids must include all items under Schedule A or Schedule B, or both Schedule A and B. Each of Schedules A and B comprise Base Bid items and Additive Bid items. The Bidder shall provide base bid and additive bid(s) prices under each elected schedule.

Bids shall be evaluated by Schedule. Each of Schedules A and B shall be evaluated separately. The lowest responsive and responsible bidder shall be determined for each of Schedule A and Schedule B. Separate contracts will be awarded under Schedule A and Schedule B. One contract will be awarded to the lowest responsive and responsible bidder for Schedule A and one contract will be awarded to the lowest responsive and responsible bidder for Schedule B. If the same contractor is the lowest responsive and responsible bidder for both Schedules A and B, one contract for all the work under Schedules A and B will be awarded.

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Exhibit D (6 of 17)

No bid on Schedule A

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Base Bid

Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				SCHEDULE A – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization	LS	$_____	1	$_____
2	Insurance and Bonds	LS	$_____	1	$_____
3	Permits	LS	$_____	1	$_____
4	12" PVC pipe, installed by open trench, including PVC pipe, fittings, warning/identification tape, cleaning, connections to manholes, adjustment existing channel and bench, testing, and all incidentals, in place complete.	LF	$_____	22	$_____
5	18" PVC pipe, installed by open trench, including PVC pipe, fittings, warning/identification tape, cleaning, connections to existing manholes, adjustment existing channel and bench, testing, and all incidentals, in place complete.	LF	$_____	12	$_____
6	30" PVC pipe, installed by open trench, including existing pipe removal, pipe, fittings, warning/identification tape, cleaning, manhole connections, testing, and all incidentals, in place complete.	LF	$_____	461	$_____
7	Unclassified Trench Excavation and Backfill, including protection of existing utilities if necessary, excavation, installation of sheet piles, cutting and removal of sheet piles, shoring, groundwater cutoff wall, dewatering and dewatering effluent disposal, muck handling and disposal, backfill, pipe bedding, CLSM, temporary erosion control measures, traffic control work, miscellaneous restoration work, and all incidentals required to complete the work.	CY	$_____	913	$_____
8	Precast Sewer Manhole, SMH-6901A and 493A, including reinforced concrete base, precast concrete riser and cone, flexible pipe seals and connectors, grade adjustment ring(s), frame and cover, epoxy-coating, channelized inverts, testing, CLSM, temporary erosion control measures, traffic control work, incidentals, and all necessary labor, materials and equipment, in place complete.	EA	$_____	2	$_____

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Exhibit D (7 of 17)

No bid on Schedule A

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Base Bid

Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				SCHEDULE A – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
9	Drop Precast Sewer Manhole, SMH-6908B, including demolition of existing SMH-10312, reinforced concrete base, precast concrete riser and cone, chimney, flexible pipe seals and connectors, grade adjustment ring(s), frame and cover, epoxy-coating, channelized inverts, testing, CLSM, temporary erosion control measures, traffic control work, incidentals, and all necessary labor, materials and equipment, in place complete.	EA	$_____	1	$_____
10	Rehabilitation of sewer manhole with epoxy coating, including cleaning, surface preparation, cementitious underlayment, concrete channel and bench construction, existing pipe cut & connection, plugging existing pipe, epoxy topcoat, grout injection for leak repair, traffic control work, and all incidentals, in place complete.	EA	$_____	14	$_____
11	Abandon existing sewer pipes including plugging and filling with CLSM, all incidentals, in place complete.	LF	$_____	280	$_____
12	Unplug 21" existing pipe, plug 15" existing SL-9650 and channel & bench reconstruction at SMH-6897	LS	$_____	1	$_____
13	Sewer Flow Control, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent asphalt concrete (AC) pavement, muck handling and disposal), electrical and standby power/pumps, monitoring, spill containment/mitigation, traffic control work, temporary erosion control measures, all related restoration work, in place complete.	LS	$_____	1	$_____
14	Removal of existing pavement including all necessary labor, materials and equipment, in place complete	SY	$_____	2,867	$_____

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Exhibit D (8 of 17)

No Bid Schedule A

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Base Bid

Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				SCHEDULE A – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
15	AC Pavement Resurfacing, including asphalt concrete base, cold planing, pavement transitions, prime coat, tack coat, traffic striping, miscellaneous restoration, and all necessary labor, materials and equipment, in place complete	SY	$_____	2,867	$_____
16	Pavement marking including all necessary labor, materials and equipment, in place complete	LS		1	
17	As-Built drawings	LS		1	
	SCHEDULE A – Base Bid (TOTAL Items 1 through 17, inclusive)				$_____

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Additive Bid No. 1

Description of Work: Archaeological monitoring.

				SCHEDULE A – Additive Bid No. 1	
1	Archaeological and cultural resource services to add new laydown staging areas outside of the suggested areas or outside of the area of potential effect as defined the Archaeological Monitoring and Data Recovery Plan for the project and resubmit to the Department of Parks and Recreation, Guam Historic Resources Division/State Historic Preservation Office for approval and acceptance.	LS	$_____	1	$_____
	SCHEDULE A - Additive Bid No. 1 (TOTAL Items 1, inclusive)				$_____

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Exhibit D (9 of 17)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B –Base Bid

Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				Schedule B – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization	LS	$800,000	1	$800,000
2	Insurance and Bonds	LS	$100,000	1	$100,000
3	Permits	LS	$34,300	1	$34,300
4	Installation of cured in place pipe (CIPP) lining in existing 21" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	$310.00	674	$208,940
5	Installation of cured in place pipe (CIPP) lining in existing 24" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	$412.00	723	$297 876

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Exhibit D (10 of 17)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B –Base Bid

Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				Schedule B – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
6	Installation of cured in place pipe (CIPP) lining in existing 30" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	$667.00	1,590	$1,060,530
7	Installation of cured in place pipe (CIPP) lining in existing 36" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	$929.00	798	$741,342
8	Sewer Flow Control, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement, muck handling and disposal), electrical and standby power/pumps, monitoring, spill containment/mitigation, traffic control work, temporary erosion control measures, all related restoration work, in place complete.	LS	$755,700	1	$755,700

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Exhibit D (11 of 17)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B –Base Bid

Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

				Schedule B – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
	Schedule B – BASE BID (TOTAL Items 1 through 8, inclusive)				$3,998,688

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B – Additive Bid No. 1

Description of Work: CIPP part-liner or chemical grouting to control infiltration/inflow prior to CIPP lining.

				Schedule B – Additive Bid No. 1	
1	CIPP part-liner or grouting to control infiltration on the existing 21" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	$2330.00	70	$163,100.00
2	CIPP part-liner or grouting to control infiltration on the existing 24" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	$2330.00	80	$186,400.00
3	CIPP part-liner or grouting to control infiltration on the existing 30" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	$2960.00	160	$473,600.00
4	CIPP part-liner or grouting to control infiltration on the existing 36" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	$2960	160	$473,600.00
	SCHEDULE B – Additive Bid No. 1 (TOTAL Items 1 through 4, inclusive)				$5,295,388.00

$1,296,700

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Exhibit D (12 of 17)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B - Additive Bid No. 2
Description of Work: Archaeological monitoring.

					SCHEDULE B – Additive Bid No. 2
1	Archaeological and cultural resource services to add new laydown staging areas outside of the suggested areas or outside of the area of potential effect as defined the Archaeological Monitoring and Data Recovery Plan for the project and resubmit to the Department of Parks and Recreation, Guam Historic Resources Division/State Historic Preservation Office for approval and acceptance.	LS	$35,000	1	$35,000
			SCHEDULE B - Additive Bid No. 2 (TOTAL Items 1, inclusive)		$5,330,388.00

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.

ARTICLE 6 - TIME OF COMPLETION

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

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

ARTICLE 7 - ATTACHMENTS TO THIS BID

7.01 The following documents are attached to and made a condition of this Bid:

A. Required Bid security in the form of bidder's bond.

B. List of Proposed Major Suppliers;

C. Required Bidder Qualification Statement with Supporting Data.

ARTICLE 8 - DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

$35,000

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Exhibit D (13 of 17)

Insituform® Technologies, LLC

World HQ: 17988 Edison Avenue Chesterfield MO 63005 636-530-8000 Fax: 636-530-8701

Local Off: 9654 Titan Court Littleton CO 80125 303-791-7199 Fax: 303-791-7399

GWA Route 4 Releif Sewer Line Rehabilitation and Replacement, Project No. S15-006-EPA

LIST OF SUBCONTRACTORS Selection for Insituform

1. CCTV/CLEARING - MOCON
2. BYPASS - MOCON
3. _____
4. _____
5. _____
6. _____

Exhibit D (14 of 17)



World HQ: 17988 Edison Avenue 636-530-8000
Chesterfield MO 63005 Fax: 636-530-8701

Local Off: 9654 Titan Court 303-791-7199
Littleton CO 80125 Fax: 303-791-7399

GWA Route 4 Releif Sewer Line Rehabilitation and Replacement, Project No. S15-006-EPA

LIST OF Suppliers Selection for Insituform

1. CIPP—Insituform
2. _____
3. _____
4. _____
5. _____

Exhibit D (15 of 17)

ARTICLE 9 - BID SUBMITTAL

9.01 This Bid submitted by:

If Bidder is:

An Individual

Name (typed or printed): N/A

By: _____
(Individual's signature)

Doing business as: _____

Business address: _____

_____

Phone: _____ Facsimile: _____

E-mail address: _____

A Partnership

Partnership Name: N/A (SEAL)

By: _____
(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: N/A

State of Incorporation: _____

Type (General Business, Professional, Service, other): _____

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(CORPORATE SEAL)

Attest _____
(Signature of Corporate Secretary)

Business address: _____

_____

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Exhibit D (16 of 17)

Phone: _____ Facsimile: _____

E-mail address: _____

A Limited Liability Company (LLC)

LLC Name: Insituform Technologies, LLC

State in which organized: Delaware

By: Whittney Schulte

(Signature - attach evidence of authority to sign)

Name (typed or printed): Whittney Schulte

Title: Contracting & Attesting Officer

Business address: 17988 Edison Avenue
Chesterfield, MO 63005

Phone: 636-530-8000 Facsimile: 636-530-8701

E-mail address: WSchulte@Aegion.com

A Joint Venture

First Joint Venturer Name: N/A (SEAL)

By: _____

(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone: _____ Facsimile: _____

E-mail address: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____

(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone: _____ Facsimile: _____

E-mail address: _____

Phone and Facsimile Number, and Address for receipt of official communications to Joint Venture: _____

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Exhibit D (17 of 17)

INSITUFORM TECHNOLOGIES, LLC

PRESIDENT APPOINTMENT OF OFFICERS

Pursuant to the authority set forth in the Limited Liability Company Agreement of Insituform Technologies, LLC (the "Company"), I hereby determine that:

1. Christlanda Adkins, Laura M. Andreski, Janet Hass, Jana Lause, Diane Partridge, Whittney Schulte, and Ursula Youngblood are appointed as Contracting and Attesting Officers of the Company, each with the authority, individually and in the absence of the others, subject to the control of the Board of Managers of the Company, (i) to certify and to attest the signature of any officer of the Company, (ii) to enter into and to bind the Company to perform pipeline rehabilitation activities of the Company and all matters related thereto, including the maintenance of one or more offices and facilities of the Company, (iii) to execute and to deliver documents on behalf of the Company, and (iv) to take such other action as is or may be necessary and appropriate to carry out the project, activities and work of the Company; and

2. All other Contracting and Attesting Officers of the Company appointed by the President of the Company prior to the date of this appointment are hereby removed from office.

Dated: September 20, 2017

Frank R. Firsching
President

GUAM WATERWORKS AUTHORITY

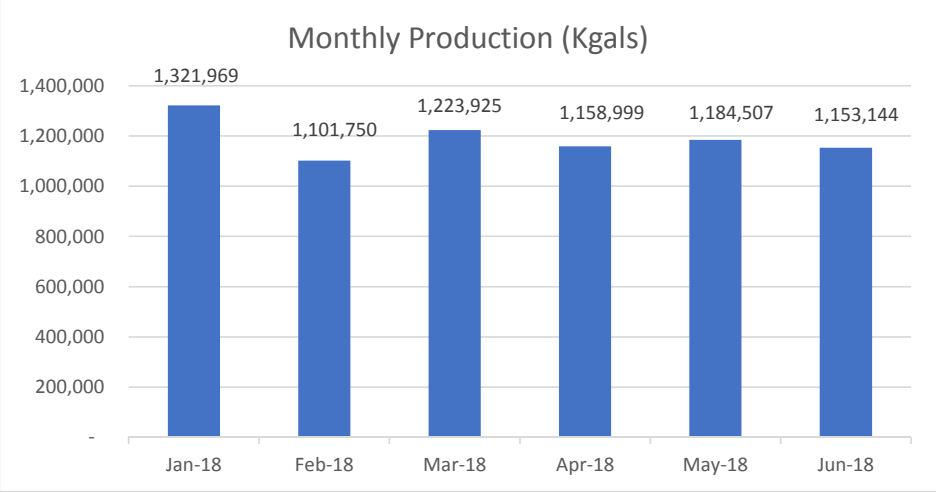
General Manager's Report
GWA Work Session, July 19, 2018

Operations Update

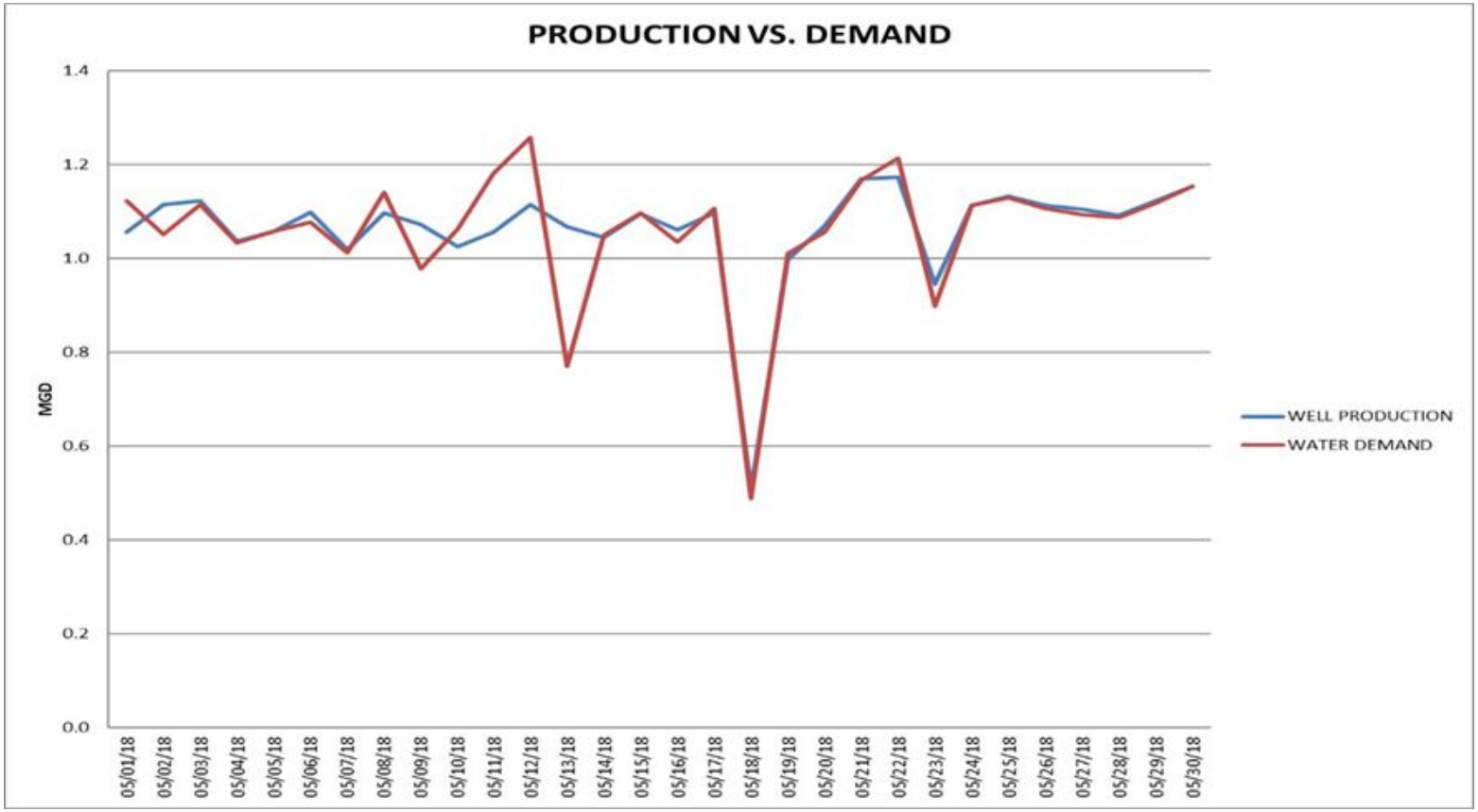
Production

Monthly Production Summary - May 2018					
Deep Wells				35.2	MGD
	Active wells =	95	of 120		
	Avg days in operation =	31.00	days		
	Total Production =	1,089,902	Kgals		
Springs				0.00	MGD
	Avg days in operation =	0	days	*placed on standby	
	Total Production =	0	Kgals		
Ugum Surface Water Plant				2.0	MGD
	Avg days in operation =	31	days		
	Total Production =	61,545	Kgals		
Tumon Maui Well				1.07	MGD
	Avg days in operation =	31	days		
	Total Production =	33,060	Kgals		
		1,184,507	Kgals	38.2	MGD

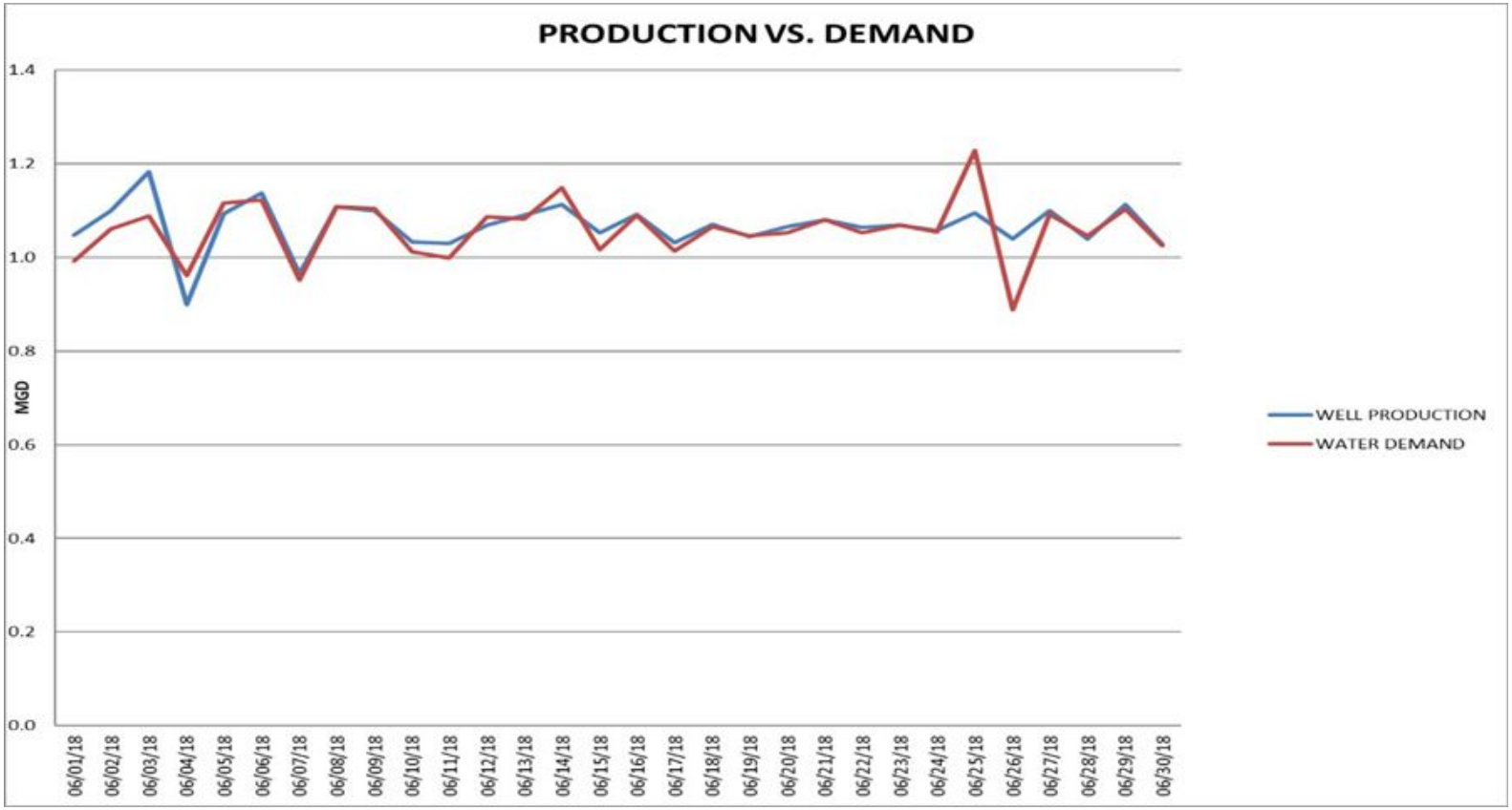
Monthly Production Summary - June 2018					
Deep Wells				35.4	MGD
	Active wells =	94	of 120		
	Avg days in operation =	30.00	days		
	Total Production =	1,062,758	Kgals		
Springs				0.00	MGD
	Avg days in operation =	0	days	*placed on standby	
	Total Production =	0	Kgals		
Ugum Surface Water Plant				1.9	MGD
	Avg days in operation =	30	days		
	Total Production =	58,373	Kgals		
Tumon Maui Well				1.03	MGD
	Avg days in operation =	30	days		
	Total Production =	32,013	Kgals		
		1,153,144	Kgals	38.4	MGD



Tumon Maui Well Production vs. Demand for May 2018



Tumon Maui Well Production vs. Demand for June 2018



Distribution

Monthly Distribution Summary - May 2018

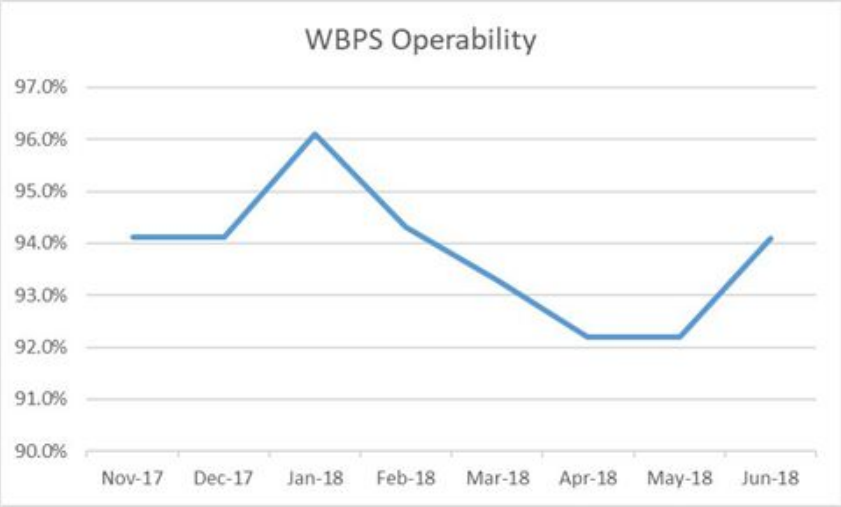
Water Booster Pump Stations

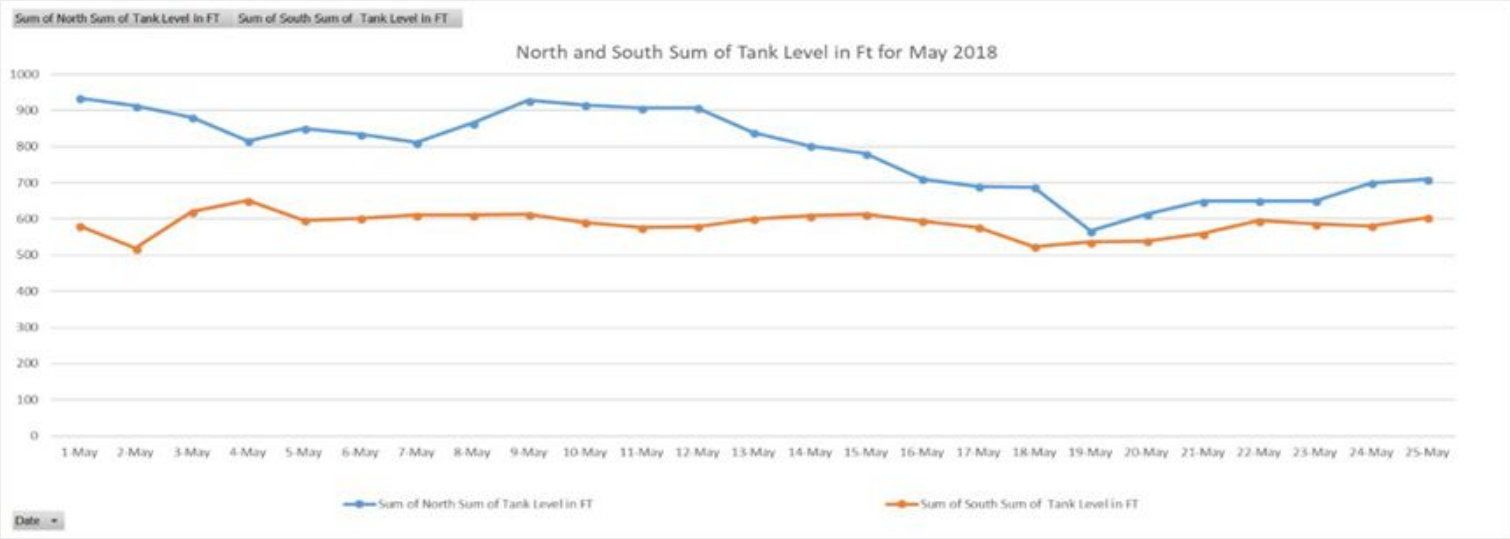
	District	No. of Stations	Total Pumps	Pumps Operating	% Operationa
	Northern	11	21	20	95.2%
	Central	7	15	13	86.7%
	Southern	7	15	14	93.3%
		25	51	47	92.2%

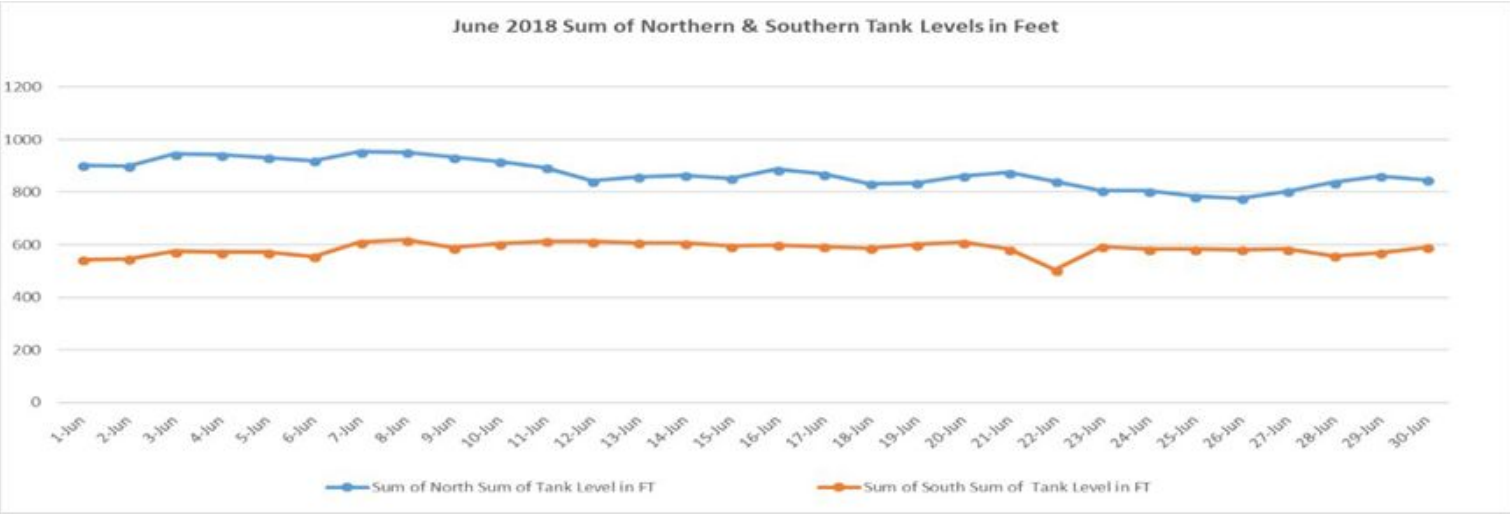
Monthly Distribution Summary - June 2018

Water Booster Pump Stations

	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	11	21	20	95.2%
	Central	7	15	13	86.7%
	Southern	7	15	15	100.0%
		25	51	48	94.1%

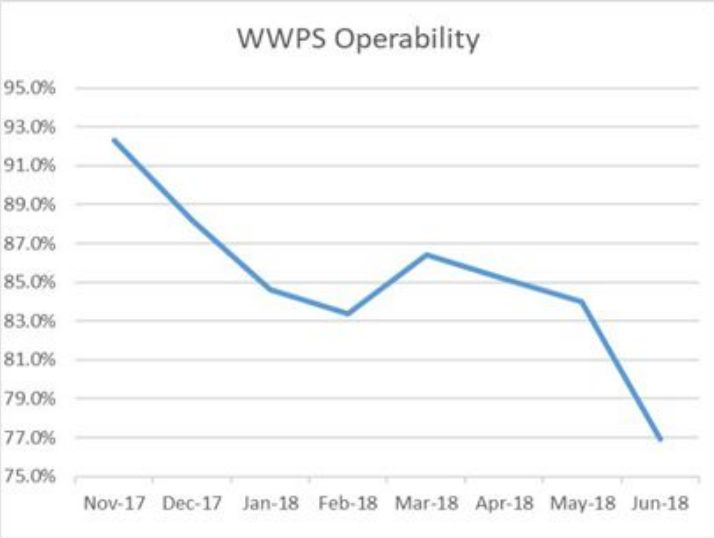


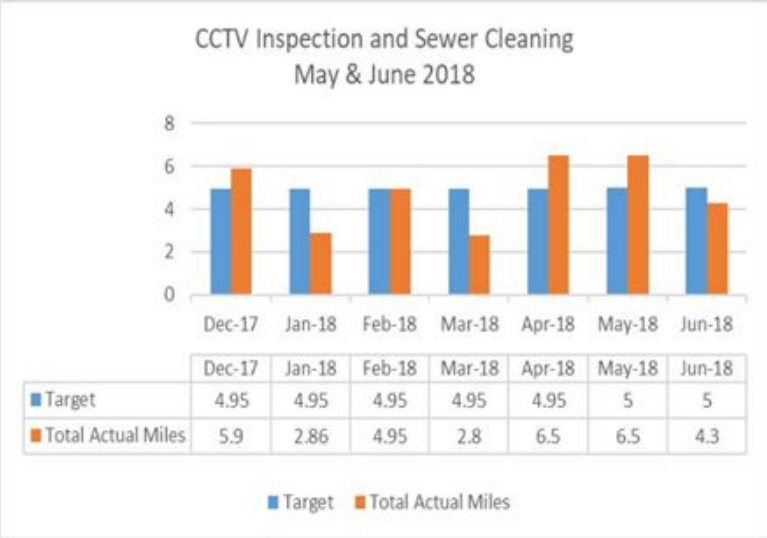

Sum of North Sum of Tank Level in FT
Sum of South Sum of Tank Level in FT
North and South Sum of Tank Level in Ft for May 2018
1000
900
800
700
600
500
400
300
200
100
0
1 May
2 May
3 May
4 May
5 May
6 May
7 May
8 May
9 May
10 May
11 May
12 May
13 May
14 May
15 May
16 May
17 May
18 May
19 May
20 May
21 May
22 May
23 May
24 May
25 May
Sum of North Sum of Tank Level in FT
Sum of South Sum of Tank Level in FT
Date


June 2018 Sum of Northern & Southern Tank Levels in Feet
1200
1000
800
600
400
200
0
1-Jun
2-Jun
3-Jun
4-Jun
5-Jun
6-Jun
7-Jun
8-Jun
9-Jun
10-Jun
11-Jun
12-Jun
13-Jun
14-Jun
15-Jun
16-Jun
17-Jun
18-Jun
19-Jun
20-Jun
21-Jun
22-Jun
23-Jun
24-Jun
25-Jun
26-Jun
27-Jun
28-Jun
29-Jun
30-Jun
Sum of North Sum of Tank Level in FT
Sum of South Sum of Tank Level in FT

Wastewater Collections

Monthly Collections Summary - May 2018						Monthly Collections Summary - June 2018					
Wastewater Pump Stations						Wastewater Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational		District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	45	86.5%		Northern	22	52	44	84.6%
	Central	29	63	54	85.7%		Central	29	63	45	71.4%
	Southern	27	54	43	79.6%		Southern	27	54	41	75.9%
		78	169	142	84.0%			78	169	130	76.9%





Wastewater Treatment

Monthly Wastewater Treatment Summary - May 2018

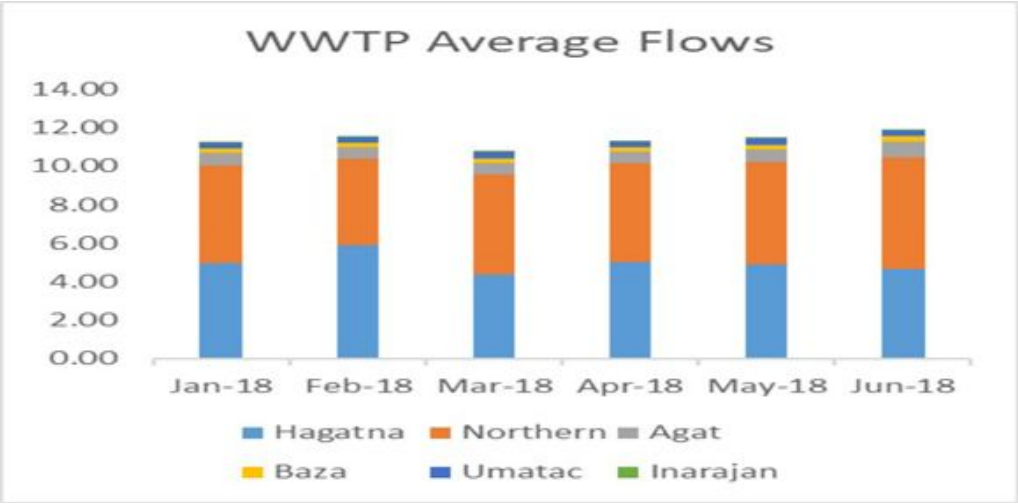
WW Treatment Plants - Flows

	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. ($)
	Hagatna	4.93	583,080	$ 52,477
	Northern	5.32	786,700	$ 70,803
	Agat	0.63		
	Baza	0.25		
	Umatac	0.30		
	Inarajan	0.07		
		11.50	1,369,780	$ 123,280

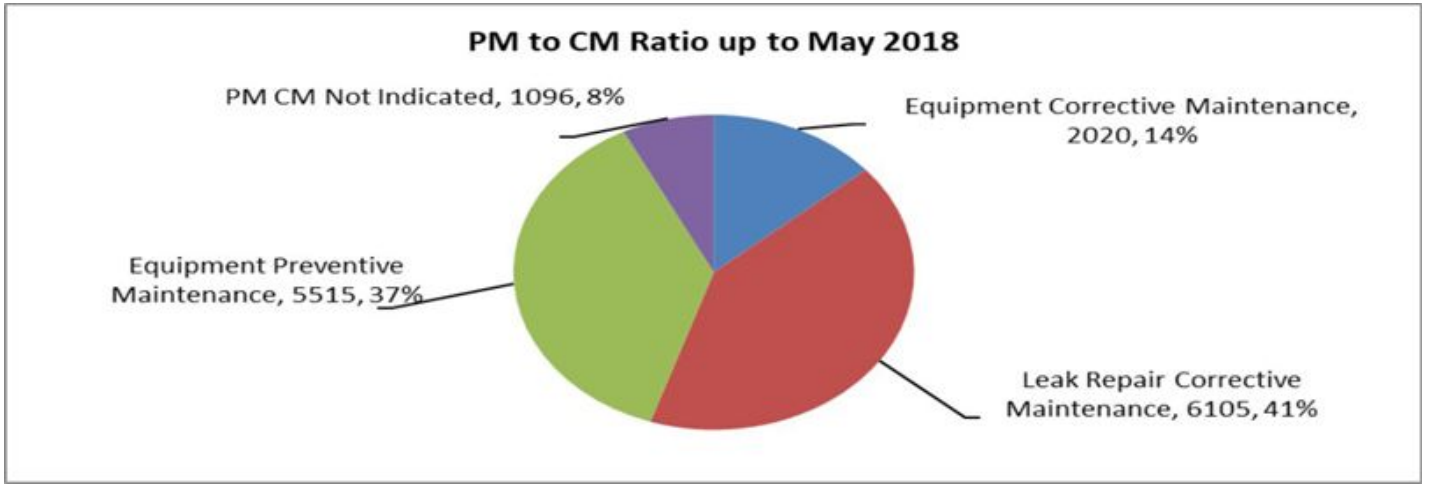
Monthly Wastewater Treatment Summary - June 2018

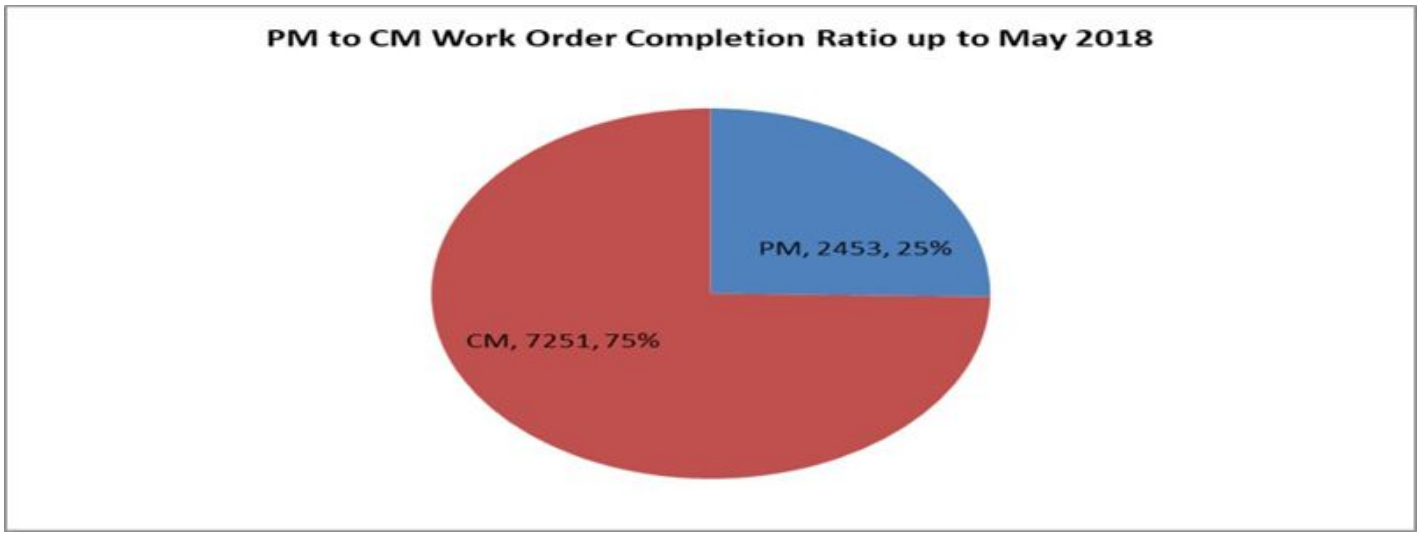
WW Treatment Plants - Flows

	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. ($)
	Hagatna	4.67	717,120	$ 64,541
	Northern	5.78	836,600	$ 75,294
	Agat	0.86		
	Baza	0.25		
	Umatac	0.30		
	Inarajan	0.06		
		11.92	1,553,720	$ 139,835

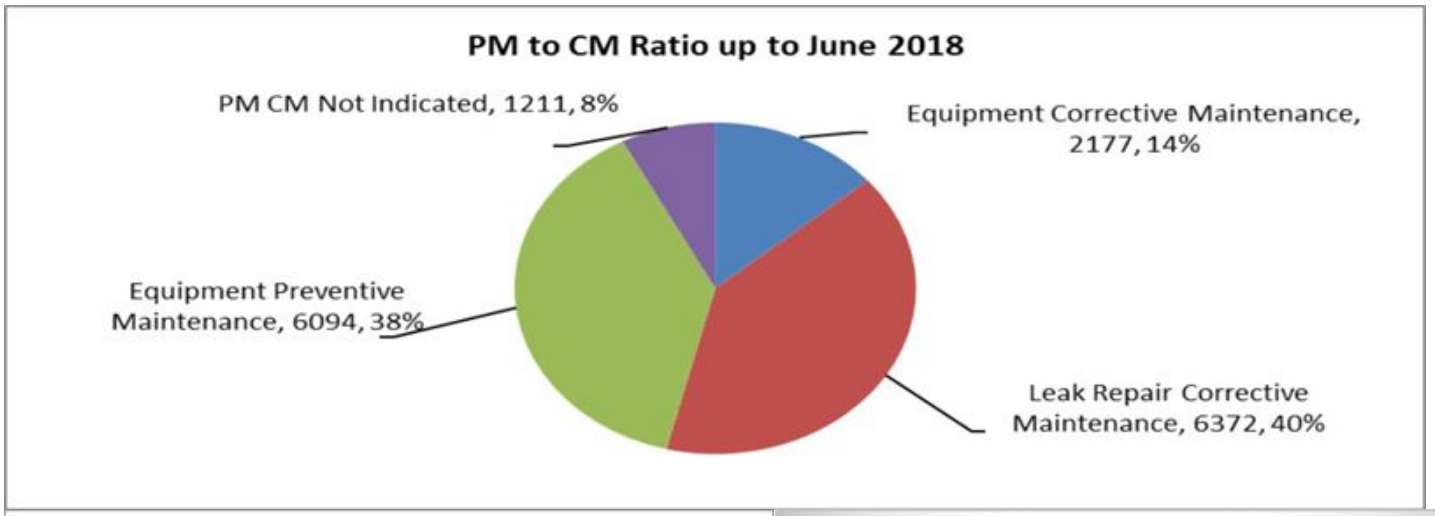


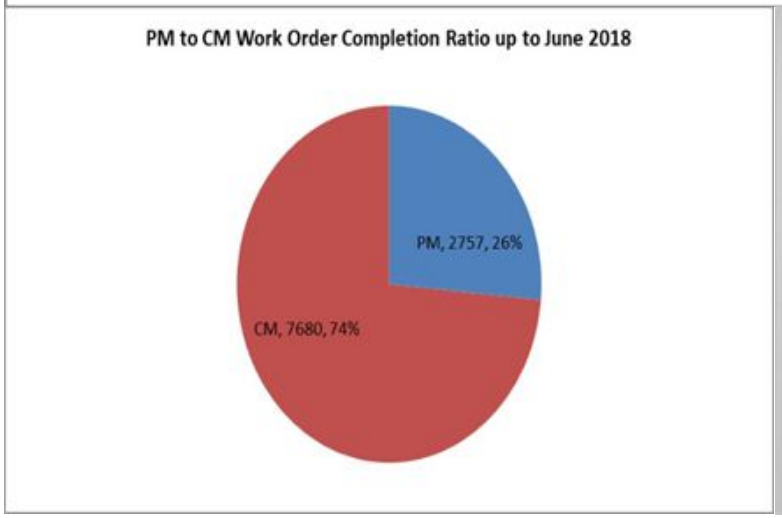
Asset Management for May 2018

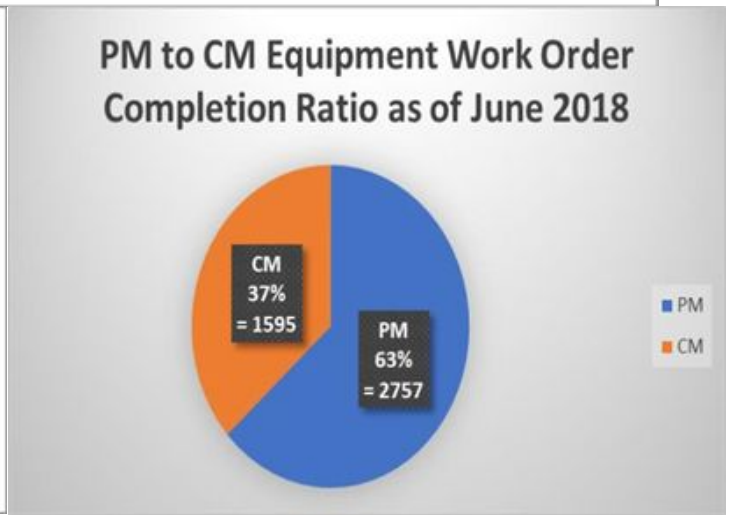




Asset Management for June 2018







Operational Issues

Production & Distribution

- Leak repair
  - Crews maintaining performance - As of June 30th, there were less than 40 pending repairs
    - 88% reduction from 2017-2018 Maximum of 283 pending
    - 80% reduction from 2018 Maximum of 179 pending
  - IFB for advanced remote leak detection services should be advertised next month
- WSCC –
  - SCADA FAT completed
  - Coordination of WSCC – PSCC layout on-going
  - SCADA equipment and installation requirements on-going
- Pump and motor inventories okay; additional orders for recent replacements are being made
- GWA Crane Repair –new cable installation pending; load testing completed.

Wastewater Collection & Treatment

- CCTV & Collections System:
  - Planning department assisting CCTV Crews to revise completed reports to meet appropriate industry standards
  - SSES and CCTV-based repairs to collection lines and SMHs are being conducted by Ops personnel
- Pump stations
  - Facility maintenance efforts have been completed
  - Minimum pump and motor inventory levels being established (similar to effort with deep-wells)
  - Critical spares and replacements procurement is on-going
- Treatment Plants
  - Hagatna WWTP
    - Effluent pumps back up
    - Centrifuges: one operational, repairs to 2nd are almost complete.
  - Northern WWTP
    - Both centrifuges back in operation
  - Agat-Santa Rita WWTP
    - Solids process commissioning (GBTs, Centrifuges) to be completed in the next 2 weeks
    - With that, critical process facilities all operating and substantially complete
  - U-M WWTP
    - Work on-going at the site
    - Significant delays have occurred because of USF&W / EPA permitting issues
  - Baza Gardens
    - Work on-going for all 3 phases
    - Anticipated completion is now Sep 30th
    - Delay letter has been sent to USEPA

Meters for month of May 2018

COMPLETED FIELD ACTIVITY JAN 2017 THRU MAY 2018 (POSTED IN CIS)	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	TOTAL:	COMPLETED FIELD ACTIVITIES (IN PROCESS) TO BE POSTED IN CIS
GWA - Test Meter	30	9	9	371	745	87	393	743	1000	1007	434	378	750	969	1213	1429	84	9651	856
GWA - Meter Exchange	393	179	220	276	482	353	501	807	1526	1039	452	259	239	1086	2120	121	121	10174	0
GWA - Verify Zero Report	30	124	114	94	96	402	261	199	550	89	82	169	356	106	117	69	13	2871	0
GWA - Verify Low Usage	0	0	0	2	37	36	196	488	657	202	127	612	858	1122	1055	463	19	5874	0
TOTAL:	453	312	343	743	1360	878	1351	2237	###	###	1095	1418	###	3283	4505	2082	237	28570	856

# OF METERS TESTED AS PER METER TEST FACILITY REPORTS:	345	350	144	252	305	210	302	397	1013	1130	927	704	721	1041	1347	815	671	10674	
# OF BACKBILLINGS APPLIED AS PER FINANCE REPORTS:	0	0	0	20	122	84	29	111	219	80	77	4	136	23	323	48	75	1351	$ 912,582.81

# OF FIELD CREW PERFORMING CHANGE OUTS:	19	10	13	9	21	21	14	24	35	28	28 *	28 *	5	13	2	2	2
# OF ADMIN STAFF TO CREATE AND POST FIELD ACTIVITIES IN CIS:	7	4	5	6	9	9	10	13	15	15	13	13	8	11	5	4	1
# OF SUPPLY STAFF TO ISSUE MATERIALS AND PROGRAM NEW METERS:	2	2	2	2	2	2	2	2	2	2	2	2	2	4	0	0	0
# OF TEST FACILITY PERSONNEL TESTING METERS:	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	2	2
# OF ACCOUNTANTS CALCULATING BACK BILLS:	0	0	0	2	3	2	2	3	3	2	2	2	2	2	2	2	2
TOTAL:	30	18	22	22	38	37	31	45	58	50	48	48	20	32	11	10	7

*Project overtime on hold Nov 18, 2017 thru Dec 16, 2017. During this period, 4 personnel performed work on this project during the regular work day with a majority of the work completed during Nov and Dec month occuring before and after the OT moratorium.

NOTE: MARCH 18, 2018 - PROJECT ON HOLD PENDING ARRIVAL OF METERS

Project resumed June 04 2018

REMAINING ACTIVE BADGER LP MODELS AS OF MAY 31, 2018: 20936

ACTIVE LP MODELS - PURCHASE YEAR	COUNT	WARRANTY STATUS
2012	8892	13843 METERS WITH EXPIRED WARRANTY
Jan-13	2133	
Feb-13	743	
Mar-13	629	
Apr-13	0	
May-13	1446	
Aug-13	2546	7093 METER WITH AN ACTIVE WARRANTY
Sep-13	1	
Oct-13	0	
Nov-13	1	
Dec-13	0	
Jan-14	1	
Feb-14	646	
Mar-14	0	
Apr-14	2434	
May-14	0	
Jun-14	72	
Jul-14	0	
Aug-14	1392	
TOTAL:	20936	

Meters for month of June 2018

COMPLETED FIELD ACTIVITY JAN 2017 THRU JUNE 2018 (POSTED IN CIS)	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	TOTAL:	COMPLETED FIELD ACTIVITIES (IN PROCESS) TO BE POSTED IN CIS
GWA - Test Meter	30	9	9	371	745	87	393	743	1000	1007	434	378	750	969	1213	1429	84	1299	10950	122
GWA - Meter Exchange	393	179	220	276	482	353	501	807	1526	1039	452	259	239	1086	2120	121	121	1056	11230	284
GWA - Verify Zero Report	30	124	114	94	96	402	261	199	550	89	82	169	356	106	117	69	13	2	2873	0
GWA - Verify Low Usage	0	0	0	2	37	36	196	488	657	202	127	612	858	1122	1055	463	19	5	5879	0
TOTAL:	453	312	343	743	1360	878	1351	2237	###	###	1095	1418	###	3283	4505	2082	237	2362	30932	406

# OF METERS TESTED AS PER METER TEST FACILITY REPORTS:	345	350	144	252	305	210	302	397	1013	1130	927	704	721	1041	1347	815	671	544	11218	
# OF BACKBILLINGS APPLIED AS PER FINANCE REPORTS:	0	0	0	20	122	84	29	111	219	80	77	4	136	23	323	48	75	20	1371	$ 916,550.91

# OF FIELD CREW PERFORMING CHANGE OUTS:	19	10	13	9	21	21	14	24	35	28	28 *	28 *	5	13	2	2	2	28
# OF ADMIN STAFF TO CREATE AND POST FIELD ACTIVITIES IN CIS:	7	4	5	6	9	9	10	13	15	15	13	13	8	11	5	4	1	13
# OF SUPPLY STAFF TO ISSUE MATERIALS AND PROGRAM NEW METERS:	2	2	2	2	2	2	2	2	2	2	2	2	2	4	0	0	0	2
# OF TEST FACILITY PERSONNEL TESTING METERS:	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2
# OF ACCOUNTANTS CALCULATING BACK BILLS:	0	0	0	2	3	2	2	3	3	2	2	2	2	2	2	2	2	2
TOTAL:	30	18	22	22	38	37	31	45	58	50	48	48	20	32	11	10	7	47

*Project overtime on hold Nov 18, 2017 thru Dec 16, 2017. During this period, 4 personnel performed work on this project during the regular work day with a majority of the work completed during Nov and Dec month occuring before and after the OT moratorium.

NOTE: MARCH 18, 2018 - PROJECT ON HOLD PENDING ARRIVAL OF METERS

Project resumed June 04 2018; added 2 hrs per weekday field work on June 18, 2018

REMAINING ACTIVE BADGER LP MODELS AS OF JUNE 30, 2018: 20054

AS OF JUNE 30 2018

ACTIVE LP MODELS - PURCHASE MO & YEAR	COUNT	
2012	8908	WARRANTY EXPIRED
Jan-13	2129	
Feb-13	742	
Mar-13	640	
Apr-13	0	
May-13	1452	
Jun-13	0	
Jul-13	0	
Aug-13	1614	ACTIVE WARRANTY
Sep-13	1	
Oct-13	0	
Nov-13	1	
Dec-13	0	
Jan-14	1	
Feb-14	648	
Mar-14	1	
Apr-14	2445	
May-14	0	
Jun-14	72	
Jul-14	0	
Aug-14	1400	
TOTAL :	20054	
	13871	WARRANTY EXPIRED
	6183	ACTIVE WARRANTY

Marbo (Andy-South) Wells – Status

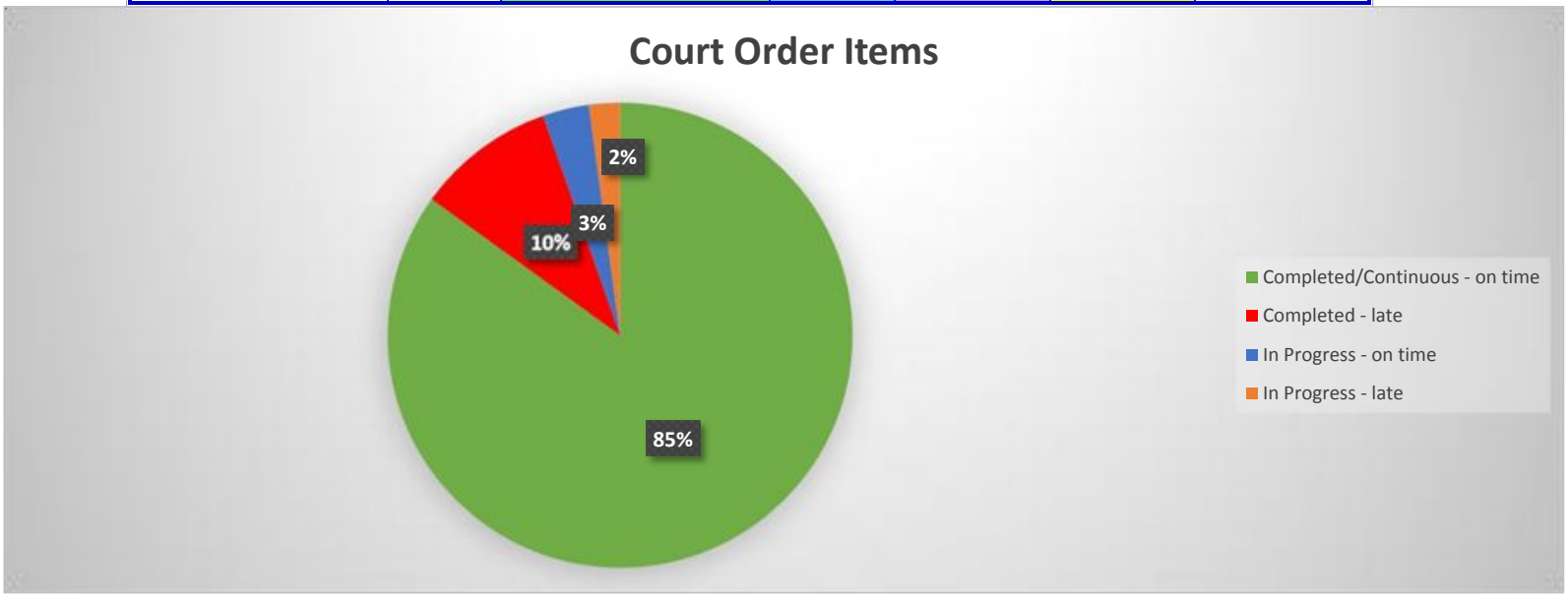
- Involuntary reversion appears imminent; GWA Counsel transmitted draft easement documents to GSA for consideration with DoD
- No updates - Waiting on response from GSA

One Guam Update

- Santa Rosa Tank:
  - GWA and DOD are finalizing the design of the Intertie. All the property maps were completed and submitted to DOD.
  - Once the maps are completed, the letter to General Cox will be finalized for the temporary easement.
  - The After-Action Report format is being reviewed.
  - The Standard Operation Procedure (SOP) and MOU are being reviewed by DOD.
- Agat-Santa Rita WWTP
  - Compensation for the Agat-Santa Rita easement is still under discussion. Waiting on Navy Real Estate
- Date Sharing MOU has been drafted – under review and comment
  - This MOU will outline the standards for GIS, hydraulic and other data to be shared between DOD and GWA.

Court Order

	Items	On-time Items Completed/Continuous	Items Delayed	Completed Late	Items on Schedule	Performance %
Court order total	**93**	**79**	**2**	**9**	**3**	**97.8%**



Status Information

- 2 items delayed
  - Meters
  - Baza Gardens Sewer Line
- Final Date to complete all Court Order items is December 31, 2020.
- Overflow or Bypass events reported to USEPA:
  - 06/18/2018 - Tun Jesus Crisostomo St., Tamuning; MH OF -- FOG
  - 06/25/2018 - BOH Marine Corps Dr., Tamuning; MH OF -- FOG
  - 06/27/2018 - Aga Dr., Santa Rita; sewer overflow -- debris aggravated by FOG
  - 06/27/2018 - Chagamin Lago St., Inarajan; sewer overflow -- Control problems
  - 06/30/2018 - Ypao Rd., Tamuning; manhole over flow -- rocks and misc. debris aggravated by FOG
  - 07/03/2018 - Dairy Pump Station -- Control Problem
  - 07/05/2018 - Vietnam Veterans Highway; ATS failure, generator not running - generator manual start failed (no island power)
  - 07/05/2018 - Mamajanao Pump Station; ATS failure, generator not running (no island power)
  - 07/05/2018 - Alupang Sunset Condo, Tamuning; FOG
  - 07/06/2018 - Sereno Ave., Tamuning; rags and debris
  - 07/05/2018 - Route 1, Marine Corp Drive, Asan; control problems due to storm related issues
  - 07/06/2018 - Route 2, Agat; Sewer main break, Contractor damage to GWA sewer
  - 07/06/2018 - Chagamin Lago, Inarajan; sewer overflow - only one pump in a two-pump station, couldn’t keep up with heavy rain
  - 07/08/2018 - Umatac-Merizo WWTP; Lower Lagoon (Bypass - ongoing) -- Heavy rainfall

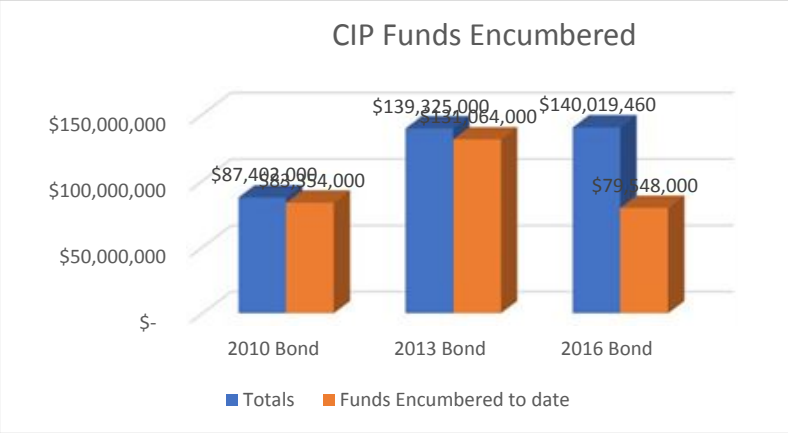
CIP Summary

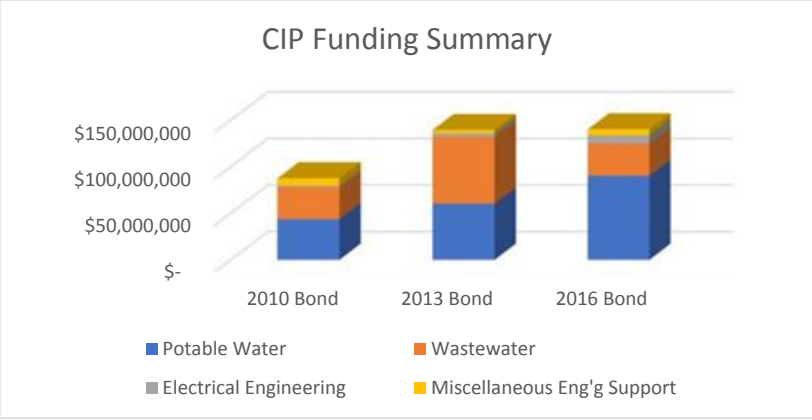
CIP Summary - Project Encumbrance

	2010 Bond		2013 Bond		2016 Bond			
	Funded	Complete	Funded	Complete	Funded	Complete	Total CIP Projects	%
Potable Water	28	17	21	7	20	0	35	49%
Wastewater	16	13	7	3	8	1	22	31%
Electrical Engineering	5	5	6	1	5	0	10	14%
Miscellaneous Eng'g Support	2	0	3	1	4	1	4	6%
Totals	51	35	37	12	37	2	71	100%
% of Total CIP by Fund Source	72%		52%		52%			

CIP Summary - Project Amounts

	2010 Bond		2013 Bond		2016 Bond			
	Funded	%	Funded	%	Funded	%	Total CIP Projects	%
Potable Water	$ 41,903,305	48%	$ 58,317,117	42%	$ 64,647,830	46%	$ 164,868,252	45%
Wastewater	$ 36,009,577	41%	$ 73,837,883	53%	$ 60,227,170	43%	$ 170,074,630	46%
Electrical Engineering	$ 1,748,118	2%	$ 3,395,000	2%	$ 8,750,000	6%	$ 13,893,118	4%
Miscellaneous Eng'g Support	$ 7,741,000	9%	$ 3,775,000	3%	$ 6,394,460	5%	$ 17,910,460	5%
Totals	$ 87,402,000	100%	$ 139,325,000	100%	$ 140,019,460	100%	$ 366,746,460	100%
Funds Encumbered to date	$ 83,354,000	95%	$ 131,064,000	94%	$ 79,548,000	57%		
% of Total CIP Funding	23.8%		38.0%		38.2%			





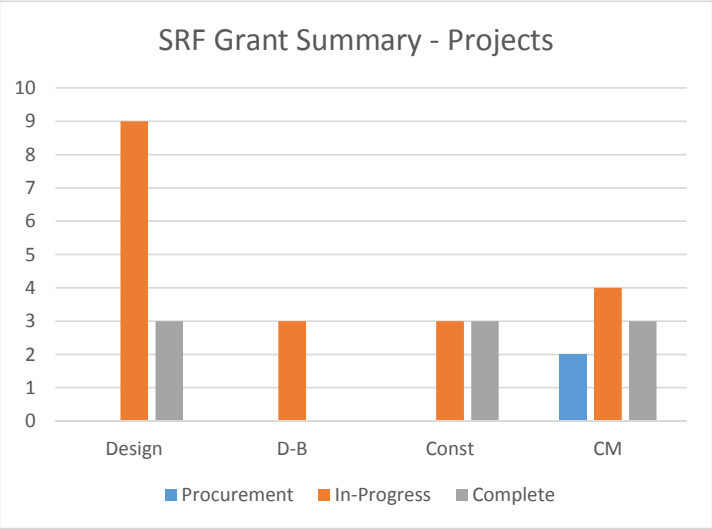
SRF Grant Summary

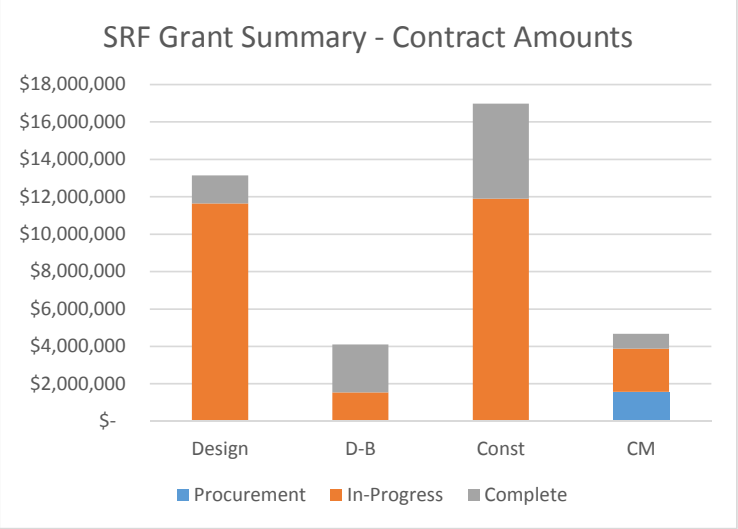
SRF Grant Summary - Projects

	Procurement	In-Progress	Complete	Totals	%
Design	0	9	3	12	40%
D-B	0	3		3	10%
Const	0	3	3	6	20%
CM	2	4	3	9	30%
Totals	2	19	9	30	
%	7%	63%	30%		

SRF Grant Summary - Contract Amounts

	Procurement	In-Progress	Complete	Totals	%
Design	$ -	$ 11,642,195	1,499,418	$ 13,141,613	34%
D-B	$ -	$ 1,542,979	$ 2,565,237	$ 4,108,216	11%
Const		$ 11,902,506	$ 5,086,129	$ 16,988,635	44%
CM	$ 1,572,000	$ 2,303,747	$ 802,243	$ 4,677,990	12%
Totals	$ 1,572,000	$ 27,391,427	$ 9,953,027	$ 38,916,454	
%	4%	70%	26%		





OEA Grant Summary

- NDWWTP Upgrades
  - 60% design submittal scheduled for Sep 24th.
  - Sitework bid package to be issued Sep 12th
  - Vertical bid package planned for issuance Mar 2019

- Outfall Diffuser:
  - Re-bid package under review by GWA
  - To be advertised by end of July
  - Bids expected in September

- Sewer Line Interceptor Design-Build
  - Contract Award / NTP pending insurance requirements
  - Design and prep work is set to start
  - Construction start expected in January

- NGLA Observation wells – Design work completed
  - Bid package drawings and specs under review by GWA
  - Permitting issues being resolved and permits being obtained by PM/CM
  - Bid package to be issued once permits approved – expected in Mar 2019

Action Item	Date (Target)	Date (Actual)	Status	Remarks
Project Funds Available	July-16	AUG-30-16	Completed	
Land Acquisition	Jan-17	Jan-17 (Compensation Pending)	Pending	Survey complete, appraisals complete – under review
Procure PM/CM Firm	Jan-17	Jan-17 (NTP Issued Feb 10th)	Completed	
Procure Design Firm	Jul-17		Completed	Contract issued; kickoff pending
Design -- 30/60/90/Final -- Review	Jun-18	30% - completed May 60% - expected Sep	On-target	Project design schedule has been revised / delayed
NEPA Analysis and Determination	Feb-17	Pending final SHPO concurrence	Delayed	USEPA work on-going; procurement of contractor completed
Procure Construction Firm	Dec-18		On-target	
Construction Complete/Commence Operations	Nov-21		On-target	
Sewer line connection from MCB to GWA infrastructure	Jul-19		On-target	
MCB Initial Operating Capability	Jul-22		On-target	

Land Acquisition Summary

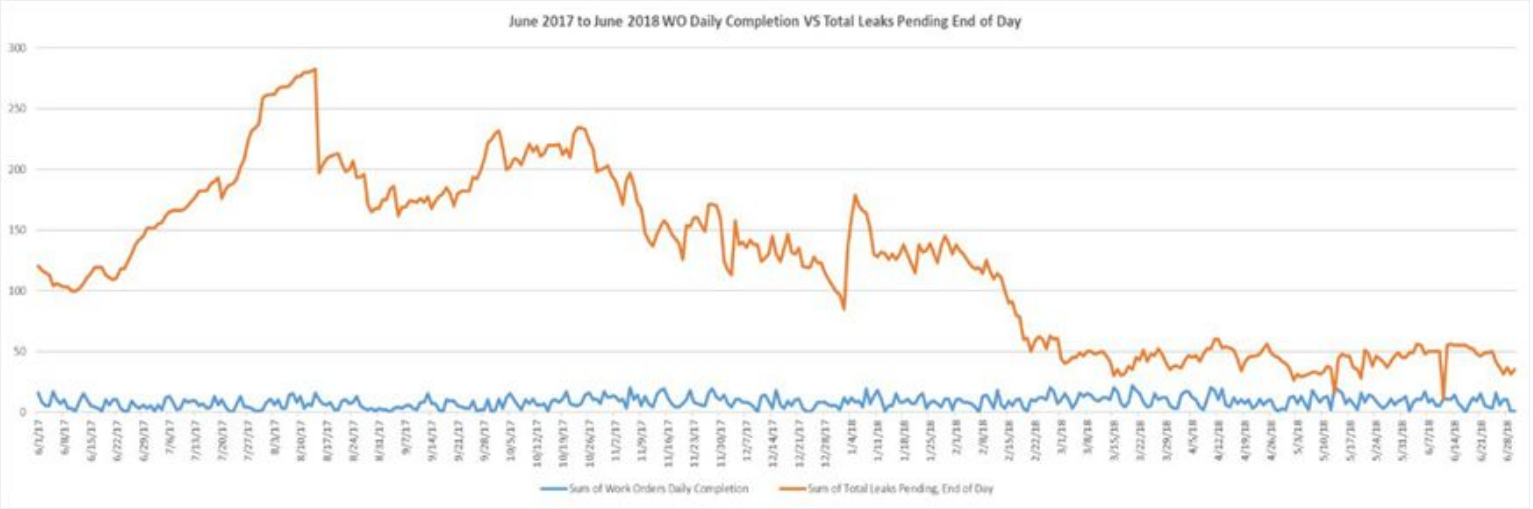
GWA Facility	Location	Gov't./Private/Other	Land Acquisition Status
Tanks	Ugum	Private	Appraisal Services completed 05/09/18.
	Astumbo	Gov't./CLTC	GWA and DoLM working together on Land Registration process. Pending Notification of surrounding lot owner information from DoLM.
	Piti	Private	Preliminary geotechnical investigation and archaeological investigation in the process 05/01/18.
Expansion of the Northern District Wastewater Treatment Plant (NDWWTP)	Dededo	Gov't./GALC	Pending Grant Deed approval from GALC 07/09/18.
Deep Well	A-12	Private	Property ownership vested in GWA 10/16/17.
	AG-12	Dept. of Agriculture/Manhita Farms	Land Registration has been approved by Superior Court of Guam. Pending release and recordation of the Decree Establishing Title at DoLM. DCA will be submitting Retracement Survey Check Print Map to DoLM for review and comments 07/13/18.
	Y-8	Gov't./CLTC	Deed of Dedication approved by legal counsel 07/03/18.
Booster Pump Station	Agfayan	Private	Denial Letter received from private property owner on Lot 61-R2, Inarajan - 06/07/18. Pending response from CLTC on L28, B19, T3734, Inarajan - 07/09/18.
Sewer Pump Stations	Property adjacent to Southern Link	Private	GWA started acquisition process on 12/23/2016. Property ownership vested in GWA 08/11/2017.
Asan Springs	Asan	Gov't./Private	GWA request for land acquisition to be reviewed and approved by GHURA board 06/29/18. LA Bobbie Cruz to send follow-up to GHURA 07/19/2018. Package submitted to DOI for portion of land from Park Service.

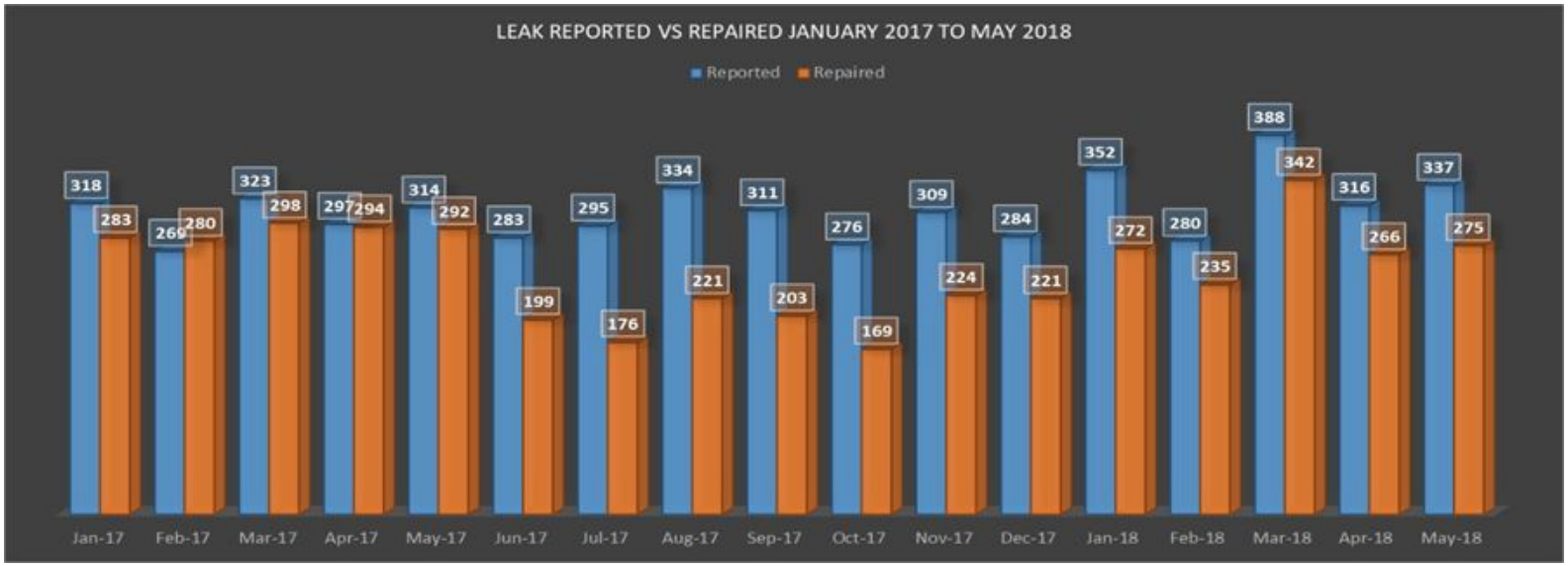
NRW – Update

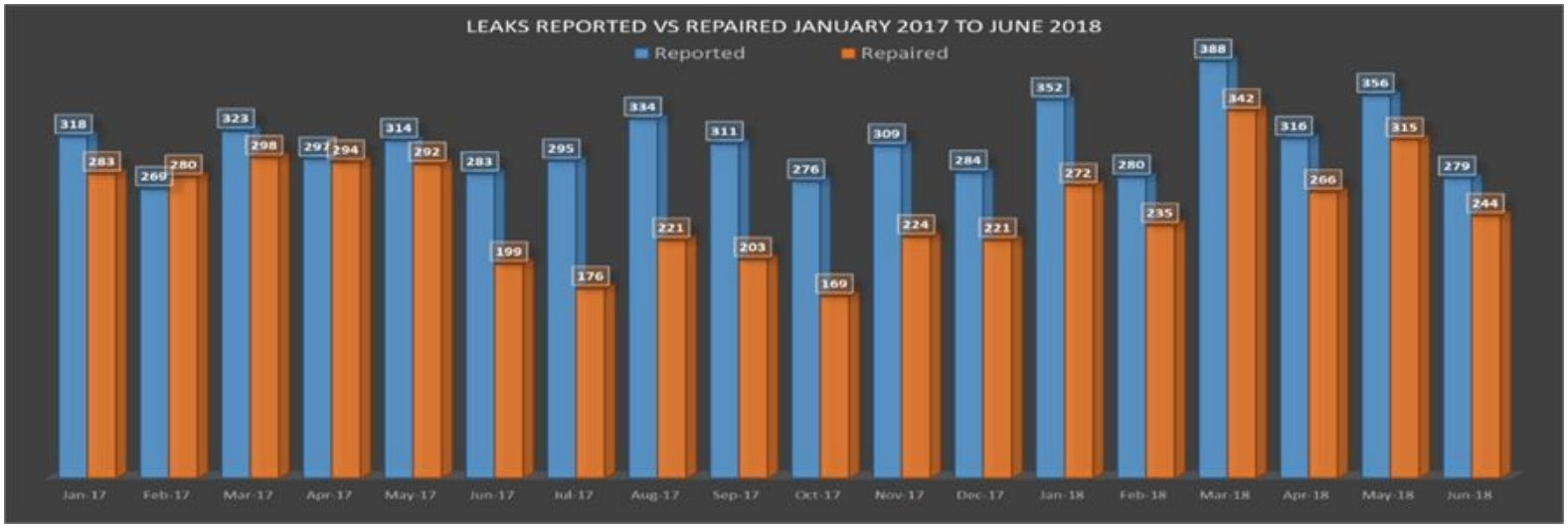
- Water Loss Control Program activities are on-going
    - Latest water audit results reviewed by Technical Consultant under EPA grant. Scope modifications being proposed for Consultant due to GWA's progress on refining audit results
    - Production meter replacement program is under design for 65 well sites. Portable flow meter is being procured to calibrate existing meters.
    - District Metering Areas are currently being developed for pilot project. Locations have been identified. Grant application was submitted for this pilot project
    - DOI Grant application has been approved for training and equipment.

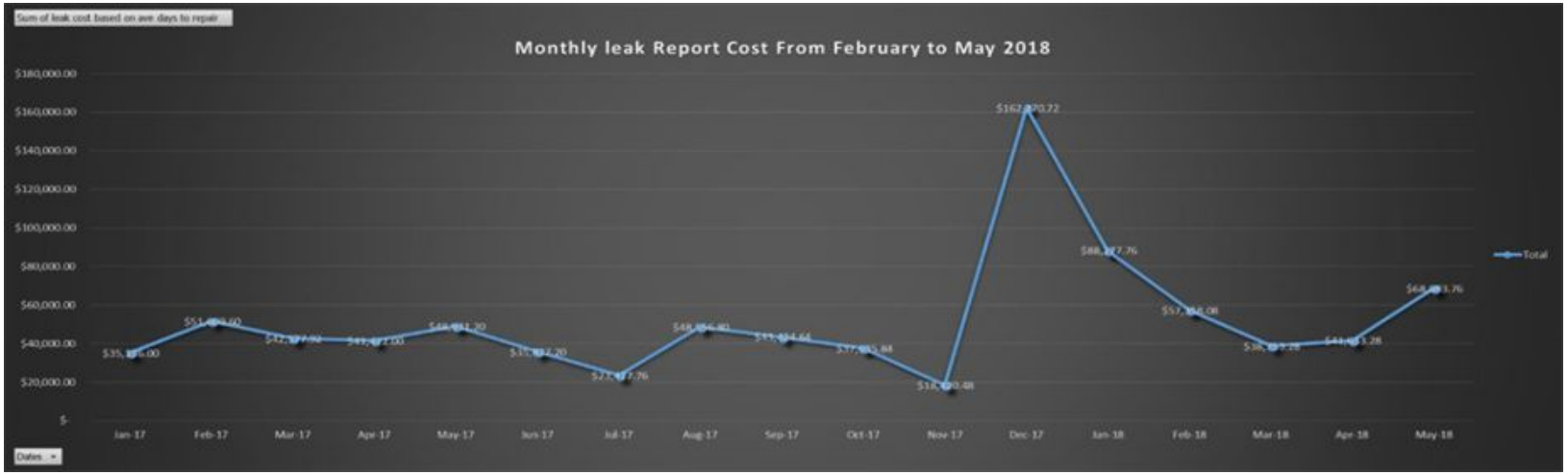
Leak Repair Summary for May and June 2018

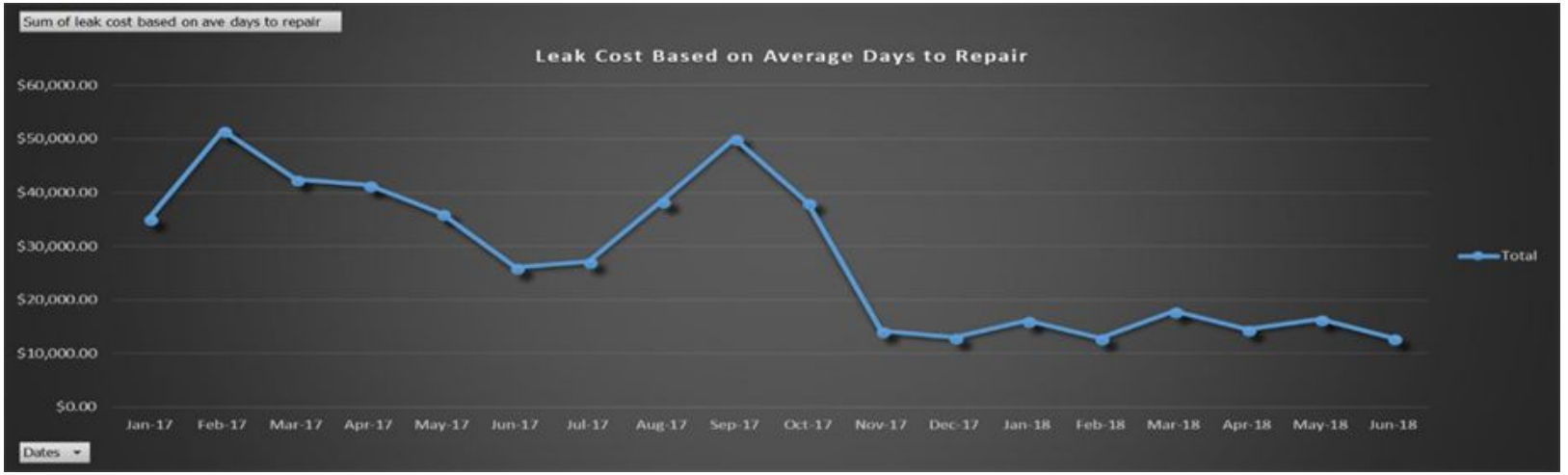





LEAK REPORTED VS REPAIRED JANUARY 2017 TO MAY 2018
Reported
Repaired
318
283
269
280
323
298
297
294
314
292
283
199
295
176
334
221
311
203
276
169
309
224
284
221
352
272
280
235
388
342
316
266
337
275
Jan-17
Feb-17
Mar-17
Apr-17
May-17
Jun-17
Jul-17
Aug-17
Sep-17
Oct-17
Nov-17
Dec-17
Jan-18
Feb-18
Mar-18
Apr-18
May-18


LEAKS REPORTED VS REPAIRED JANUARY 2017 TO JUNE 2018
Reported
Repaired
318
283
269
280
323
298
297
294
314
292
283
199
295
176
334
221
311
203
276
169
309
224
284
221
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272
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Jan-17
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Nov-17
Dec-17
Jan-18
Feb-18
Mar-18
Apr-18
May-18
Jun-18





Assumptions:

1. Leak rate = 4 gpm
2. Cost per kgal = $4.00

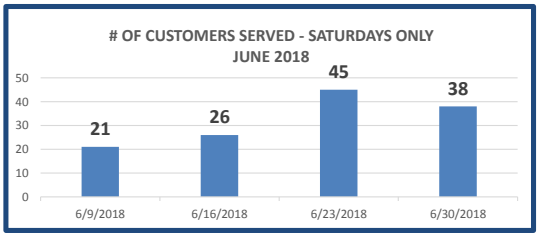
GWA Utility Services Division
Monthly Status Report
Month ending June 30, 2018

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE MAY 2018	MAY 2018 MONTHLY TOTAL	WEEK ENDING: 6/9/2018	WEEK ENDING: 6/16/2018	WEEK ENDING: 6/23/2018	WEEK ENDING: 6/30/2018	WEEKLY AVERAGE JUNE 2018	JUNE 2018 MONTHLY TOTAL
Collections Unit								
I. Number of accounts cut for nonpayment:	107	536	68	44	66	71	62	249
II. Number of accounts restored for nonpayment:	102	510	81	55	47	64	62	247
III. Number of No water reports responded to:	3	13	1	2	3	0	2	6
IV. Number of Secure/Unsecure valve reports responded to:	1	3	2	5	2	2	3	11
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 :	198	989	236	164	204	137	185	741
VII. Number of active pay plans negotiated and ongoing :	1840		1856	2003	2102	2167	2032	
VIII. Number of **inactive** accounts with a payment arrangement:	2		15	15	16	15	15	
IX. Number of broken payment plans:	149	745	122	17	105	72	79	316
Customer Service Unit								
I. Service Delivery Points:								
a. GBN Public Service Building – Fadian								
i. Total Customers Assisted :	296	1478	250	259	248	246	251	1003
ii. Total Abandoned Requests :	22	111	16	18	10	21	16	65
iii. Average Wait Time:	11 minutes		7 minutes	7 minutes	6 minutes	5 minutes	6 minutes	
iv. Average Service Time:	12 minutes		12 minutes	11 minutes	12 minutes	11 minutes	12 minutes	
v. Breakdown by request type:								
1. Apply for water	59	295	60	53	63	59	59	235
2. Restore water cut for non payment	26	129	17	11	13	4	11	45
3. Terminate Water	21	103	12	18	18	28	19	76
4. Copy of Bill	34	170	28	40	35	41	36	144
5. Billing Dispute	68	342	71	67	55	50	61	243
6. Billing Dispute follow up	7	35	8	4	4	3	5	19
7. General Questions & Other	40	202	30	33	37	38	35	138
8. Report a water leak	2	10	2	0	2	1	1	5
9. Report water theft	0	0	0	0	0	0	0	0
10. Payment Arrangement	42	209	29	37	29	27	31	122
b. Julale Satellite Office – Hagatna								
i. Total Customers Assisted :	295	1476	288	241	251	305	271	1085
ii. Total Abandoned Requests :	15	75	8	5	3	11	7	27
iii. Average Wait Time:	9 minutes		7 minutes	4 minutes	5 minutes	13 minutes	7 minutes	
iv. Average Service Time:	13 minutes		9 minutes	9 minutes	10 minutes	10 minutes	10 minutes	
v. Breakdown by request type:								
1. Apply for water	57	284	53	43	58	66	55	220
2. Restore water cut for non payment	12	60	13	6	11	28	15	58
3. Terminate Water	23	114	23	29	19	37	27	108
4. Copy of Bill	61	303	74	51	65	58	62	248
5. Billing Dispute	77	383	61	62	71	71	66	265
6. Billing Dispute follow up	3	17	8	5	0	0	3	13
7. General Questions & Other	33	166	28	36	26	35	31	125
8. Report a water leak	1	7	1	0	0	1	1	2
9. Report water theft	0	0	0	0	0	0	0	0
10. Payment Arrangement	33	165	39	30	19	36	31	124
c. Upper Tumon Satellite Office – Upper Tumon								
i. Total Customers Assisted :	392	1958	383	325	307	352	342	1367
ii. Total Abandoned Requests :	19	94	44	18	12	12	22	86
iii. Average Wait Time:	10 minutes		10 minutes	5 minutes	5 minutes	5 minutes	6 minutes	
iv. Average Service Time:	10 minutes		8 minutes	10 minutes	9 minutes	10 minutes	9 minutes	
v. Breakdown by request type:								
1. Apply for water	76	382	80	83	64	89	79	316
2. Restore water cut for non payment	27	134	21	22	17	9	17	69
3. Terminate Water	32	160	21	19	23	34	24	97
4. Copy of Bill	80	399	82	74	73	72	75	301
5. Billing Dispute	91	453	85	58	76	77	74	296
6. Billing Dispute follow up	5	27	0	5	0	3	2	8
7. General Questions & Other	38	190	48	32	21	31	33	132
8. Report a water leak	3	17	3	1	3	5	3	12
9. Report water theft	0	1	0	0	0	1	0	1
10. Payment Arrangement	44	220	48	32	34	32	37	146

GWA Utility Services Division
Monthly Status Report
Month ending June 30, 2018

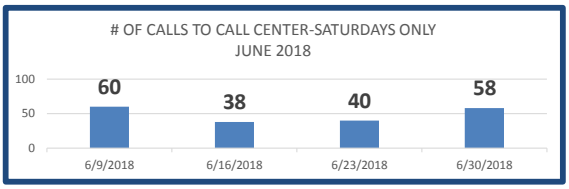
UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE MAY 2018	MAY 2018 MONTHLY TOTAL	WEEK ENDING: 6/9/2018	WEEK ENDING: 6/16/2018	WEEK ENDING: 6/23/2018	WEEK ENDING: 6/30/2018	WEEKLY AVERAGE JUNE 2018	JUNE 2018 MONTHLY TOTAL
d. Customer Call Center								
i. Calls Recieved :	1460	7302	1359	1061	966	852	1060	4238
ii. Calls Immediately Answered :	927	4634	932	797	717	577	756	3023
iii. Calls Abandoned	59	295	49	41	29	40	40	159
iv. Calls Handled by Voice mail:	462	2308	377	222	220	235	264	1054
v. Average duration of calls answered	16 minutes		5 minutes	3 minutes	3 minutes	3 minutes	4 minutes	
vi. Breakdown by request type:								
1. Apply/Terminate info.	31	157	51	42	38	22	38	153
2. Automated Telphone Call	27	137	19	22	16	30	22	87
3. Balance Inquiry	142	709	139	115	147	90	123	491
4. Call Back	39	196	51	86	60	60	64	257
5. Dispatch	46	229	74	47	21	15	39	157
6. Dispute	18	89	12	13	5	6	9	36
7. Follow up	59	296	64	44	35	31	44	174
8. General Questions & Other	113	563	110	132	119	92	113	453
9. GWA Staff	126	632	160	116	124	90	123	490
10. No Water	25	126	41	18	13	19	23	91
11. Online/Phone App Help	25	127	30	22	35	23	28	110
12. Pay by Phone	139	693	139	156	106	92	123	493
13. Pay Plan	75	375	120	93	75	48	84	336
14. Restore Non-payment	58	289	31	22	27	28	27	108
15. Secure/Unsecure Valve	7	35	8	7	19	12	12	46
16. Voice Mail	41	205	28	22	30	16	24	96
17. Water leak	10	49	6	12	11	12	10	41
e. Customer Emails:								
i. Emails Recieved :								
1. customers@guamwaterworks.org	49	247	37	24	33	27	30	121
Breakdown by request type (email):								
a. Apply for water	2	12	3	2	1	1	2	7
b. Terminate Water	3	17	1	0	4	1	2	6
c. Copy of Bill	2	8	1	0	0	0	0	1
d. Billing Dispute & follow up	12	61	7	5	13	11	9	36
e. General Questions & Other	19	95	0	9	0	0	2	9
f. Report a water leak	4	18	25	2	10	12	12	49
g. Report water theft	0	0	0	0	5	2	2	7
h. Online services inquiry	7	36	0	6	0	0	2	6
2. gwaservesme@guamwaterworks.org (realtors and prop m	1	7	8	1	7	5	5	21
ii. Emails Replied (both):	40	200	34	26	43	33	34	136

	AVERAGE		6/9/2018	6/16/2018	6/23/2018	6/30/2018	AVERAGE
f. Saturday Services: 9AM TO 1PM ONLY	35		21	26	45	38	33
i. VISITS: Breakdown by request type:							
1. Apply for water	5		2	4	8	3	4
2. Restore water cut for non payment	1		3	0	1	0	1
3. Terminate Water	2		1	0	3	7	3
4. Copy of Bill	10		3	5	11	10	7
5. Billing Dispute	7		7	10	13	10	10
6. Billing Dispute follow up	0		1	0	0	0	0
7. General Questions & Other	4		1	2	1	3	2
8. Report a water leak	0		0	0	0	0	0
9. Report water theft	0		0	0	0	0	0
10. Payment Arrangement	7		3	5	8	5	5



GWA Utility Services Division
Monthly Status Report
Month ending June 30, 2018

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE MAY 2018	MAY 2018 MONTHLY TOTAL	WEEK ENDING: 6/9/2018	WEEK ENDING: 6/16/2018	WEEK ENDING: 6/23/2018	WEEK ENDING: 6/30/2018	WEEKLY AVERAGE JUNE 2018	JUNE 2018 MONTHLY TOTAL
ii. CALLS TO CALL CENTER (Saturday services only):			6/9/2018	6/16/2018	6/23/2018	6/30/2018		
			60	38	40	**58**		



Dispute Resolution & Document Control

I. Dispute Resolution:			6/9/2018	6/16/2018	6/23/2018	6/30/2018		
a. Number of disputed accounts resolved:	5	25	6	12	12	5	9	35
b. Number of disputed accounts under review:	178	890	178	178	178	178	178	712
II. Document Control:								
a. Number of field activities posted :	263	1314	381	382	515	601	470	1879
b. Number of field activities pending:	480	2398	713	647	760	434	639	2554

Disconnect/Reconnect Unit

I. Number of field activities received:	275	1374	295	247	241	293	269	1076
II. Number of field activities completed:	271	1357	398	279	247	286	303	1210
III.Number of field activities pending field action:	1	7	4	3	2	4	3	13

Meter Reading Unit

I. Number of meters read:			6/9/2018	6/16/2018	6/23/2018	6/30/2018		
a. Electronically Read Meters:	9481	47403	7585	12156	11738	7760	9810	39239
b. Manually Read Meters:	41	205	25	42	44	45	39	156
i. Unread meters (Meters scheduled to be read but not read):	35	173	25	60	36	39	40	160
ii. Number of data logs received:	37	183	39	28	26	25	30	118
iii. Number of data logs retrieved:	33	163	40	19	33	30	31	122
iv. Number of data logs pending field action:	16	80	7	14	12	2	9	35
v. Communication Errors/Reprogramming requests:	1	6	0	5	4	2	3	11
vi. Number of estimated readings (for the week):	20	101	14	34	22	38	27	108
vii. Reasons for Estimations:								
1. Cant locate meter:	4	21	2	6	0	3	3	11
2. Temporary Obstruction	3	15	2	1	1	1	1	5
3. Vicious Dog	1	5	0	0	0	0	0	0
4. Flooded meter	2	11	0	2	0	3	1	5
5. Corrective action requested (database corrections needed)	3	16	0	2	2	3	2	7
6. Possible changed out meter:	8	41	5	6	7	1	5	19
7. Communication/Programming error (code 92's):	4	18	2	5	4	4	4	15
8. Other:	10	51	8	9	5	8	8	30
1. Leaks detected on customer's private line:	1144	5719	925	1472	1356	811	1141	4564
2. Reverse Flow Detected	49	243	84	93	28	73	70	278
3. No Usage Detected	352	1761	262	494	466	337	390	1559
4. Tamper Code	17	87	17	21	22	18	20	78
c. Electronic Read Percentage:	99%		100%	100%	100%	99%	100%	

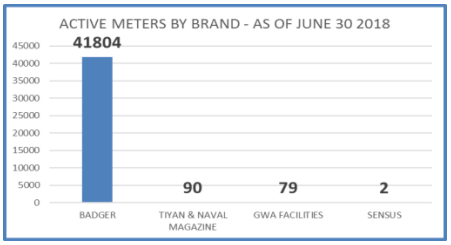
Revenue Protection Unit

I. Number of Inactive Still Consuming Reports rec'd & investigated:	1	3	0	0	0	0	0	0
II.Number of Illegal Connection reports rec'd & investigated:	1	3	1	1	0	1	1	3

III. Meter Replacement Project – Post 2010 Metron Farnier & Sensus Status Report :

METER TYPE	COUNT
SENSUS	2
METRON FARNIER	0
	2

a. Account & Meter Type Count :



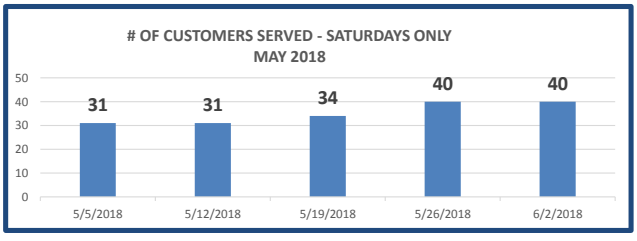
GWA Utility Services Division
Monthly Status Report
Month ending April 28, 2018

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE APRIL 2018	APRIL 2018 MONTHLY TOTAL	WEEK ENDING: 5/5/2018	WEEK ENDING: 5/12/2018	WEEK ENDING: 5/19/2018	WEEK ENDING: 5/26/2018	WEEK ENDING: 6/2/2018	WEEKLY AVERAGE MAY 2018	MAY 2018 MONTHLY TOTAL
Collections Unit									
I. Number of accounts cut for nonpayment:	239	954	126	139	106	117	48	107	536
II. Number of accounts restored for nonpayment:	169	677	129	134	87	84	76	102	510
III. Number of No water reports responded to:	0	0	3	3	4	0	3	3	13
IV. Number of Secure/Unsecure valve reports responded to:	0	0	2	0	0	0	1	1	3
V. Number of Verify reads responded to:	0	0	0	0	0	0	0	0	0
VI. Number of new pay plans negotiated for **active** accounts :	250	1000	245	207	162	210	165	198	989
VII. Number of active pay plans negotiated and ongoing :	2437		1767	1878	1785	1910	1861	1840	
VIII. Number of **inactive** accounts with a payment arrangement:	9		0	0	4	3	3	2	
IX. Number of broken payment plans:	93	371	220	96	255	85	89	149	745
Customer Service Unit									
I. Service Delivery Points:									
a. GBN Public Service Building – Fadian									
i. Total Customers Assisted :	311	1242	415	263	248	294	258	296	1478
ii. Total Abandoned Requests :	32	129	29	29	23	16	14	22	111
iii. Average Wait Time:	10 minutes		12 minutes	10 minutes	8 minutes	11 minutes	12 minutes	11 minutes	
iv. Average Service Time:	12 minutes		14 minutes	12 minutes	12 minutes	13 minutes	11 minutes	12 minutes	
v. Breakdown by request type:									
1. Apply for water	66	264	80	50	48	58	59	59	295
2. Restore water cut for non payment	38	153	35	42	20	17	15	26	129
3. Terminate Water	20	80	31	14	12	19	27	21	103
4. Copy of Bill	33	131	41	31	38	36	24	34	170
5. Billing Dispute	69	276	95	51	55	82	59	68	342
6. Billing Dispute follow up	4	16	7	12	3	7	6	7	35
7. General Questions & Other	45	181	61	31	34	41	35	40	202
8. Report a water leak	1	5	1	2	1	2	4	2	10
9. Report water theft	0	1	0	0	0	0	0	0	0
10. Payment Arrangement	38	151	66	35	40	38	30	42	209
b. Julale Satellite Office – Hagatna									
i. Total Customers Assisted :	327	1306	402	277	284	281	232	295	1476
ii. Total Abandoned Requests :	15	58	15	12	17	21	10	15	75
iii. Average Wait Time:	11 minutes		10 minutes	9 minutes	7 minutes	8 minutes	13 minutes	9 minutes	
iv. Average Service Time:	11 minutes		8 minutes	28 minutes	9 minutes	10 minutes	10 minutes	13 minutes	
v. Breakdown by request type:									
1. Apply for water	51	205	76	56	48	53	51	57	284
2. Restore water cut for non payment	25	98	20	13	10	12	5	12	60
3. Terminate Water	27	107	35	16	19	18	26	23	114
4. Copy of Bill	56	222	84	57	63	49	50	61	303
5. Billing Dispute	74	296	102	79	70	87	45	77	383
6. Billing Dispute follow up	2	8	7	2	2	3	3	3	17
7. General Questions & Other	34	136	38	25	40	28	35	33	166
8. Report a water leak	2	6	2	0	2	3	0	1	7
9. Report water theft	0	1	0	0	0	0	0	0	0
10. Payment Arrangement	40	160	43	33	33	32	24	33	165
c. Upper Tumon Satellite Office – Upper Tumon									
i. Total Customers Assisted :	417	1666	476	347	378	387	370	392	1958
ii. Total Abandoned Requests :	18	70	21	19	20	8	26	19	94
iii. Average Wait Time:	9 minutes		21 minutes	4 minutes	8 minutes	4 minutes	13 minutes	10 minutes	
iv. Average Service Time:	10 minutes		10 minutes	10 minutes	10 minutes	10 minutes	9 minutes	10 minutes	
v. Breakdown by request type:									
1. Apply for water	77	306	97	55	74	66	90	76	382
2. Restore water cut for non payment	60	240	47	34	22	23	8	27	134
3. Terminate Water	33	133	42	21	26	27	44	32	160
4. Copy of Bill	72	289	93	68	76	95	67	80	399
5. Billing Dispute	95	379	111	87	87	93	75	91	453
6. Billing Dispute follow up	4	15	9	4	7	3	4	5	27
7. General Questions & Other	32	128	34	33	44	39	40	38	190
8. Report a water leak	4	15	3	3	2	7	2	3	17
9. Report water theft	0	0	0	0	1	0	0	0	1
10. Payment Arrangement	47	187	46	46	48	38	42	44	220

GWA Utility Services Division
Monthly Status Report
Month ending April 28, 2018

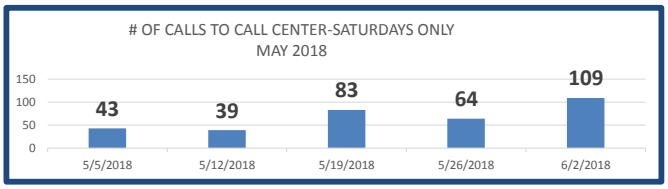
UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE APRIL 2018	APRIL 2018 MONTHLY TOTAL	WEEK ENDING: 5/5/2018	WEEK ENDING: 5/12/2018	WEEK ENDING: 5/19/2018	WEEK ENDING: 5/26/2018	WEEK ENDING: 6/2/2018	WEEKLY AVERAGE MAY 2018	MAY 2018 MONTHLY TOTAL
d. Customer Call Center									
i. Calls Recieved :	1672	6687	1822	1459	1256	1419	1346	1460	7302
ii. Calls Immediately Answered :	969	3875	1064	882	843	961	884	927	4634
iii. Calls Abandoned	71	284	69	58	65	42	61	59	295
iv. Calls Handled by Voice mail:	632	2527	689	518	347	368	386	462	2308
v. Average duration of calls answered	5 minutes		15 minutes	15 minutes	19 minutes	16 minutes	16 minutes	16 minutes	
vi. Breakdown by request type:									
1. Apply/Terminate info.	37	148	38	24	21	37	37	31	157
2. Automated Telphone Call	35	140	34	31	11	37	24	27	137
3. Balance Inquiry	156	625	140	116	188	150	115	142	709
4. Call Back	31	123	43	20	51	39	43	39	196
5. Dispatch	36	145	39	26	53	74	37	46	229
6. Dispute	25	98	14	13	22	21	19	18	89
7. Follow up	84	337	69	67	58	56	46	59	296
8. General Questions & Other	142	567	109	125	91	115	123	113	563
9. GWA Staff	144	576	110	129	112	163	118	126	632
10. No Water	29	117	23	18	26	29	30	25	126
11. Online/Phone App Help	36	145	27	21	26	30	23	25	127
12. Pay by Phone	126	504	148	137	134	132	142	139	693
13. Pay Plan	79	317	83	71	62	93	66	75	375
14. Restore Non-payment	84	337	64	83	54	61	27	58	289
15. Secure/Unsecure Valve	8	32	13	12	3	4	3	7	35
16. Voice Mail	61	244	62	37	46	34	26	41	205
17. Water leak	13	51	6	6	17	14	6	10	49
e. Customer Emails:									
i. Emails Recieved :									
1. customers@guamwaterworks.org	54	217	52	49	51	49	46	49	247
Breakdown by request type (email):									
a. Apply for water	4	16	6	1	2	2	1	2	12
b. Terminate Water	1	4	2	9	2	2	2	3	17
c. Copy of Bill	1	3	2	2	0	4	0	2	8
d. Billing Dispute & follow up	16	64	16	8	12	12	13	12	61
e. General Questions & Other	19	77	19	23	18	20	15	19	95
f. Report a water leak	4	14	1	3	5	5	4	4	18
g. Report water theft	0	0	0	0	0	0	0	0	0
h. Online services inquiry	10	39	6	3	12	4	11	7	36
2. gwaservesme@guamwaterworks.org (realtors and prop m	0	1	0	0	5	2	0	1	7
ii. Emails Replied (both):	33	133	58	34	42	34	32	40	200

	AVERAGE	5/5/2018	5/12/2018	5/19/2018	5/26/2018	6/2/2018	AVERAGE
f. Saturday Services: 9AM TO 1PM ONLY	29	31	31	34	40	40	35
i. VISITS: Breakdown by request type:							
1. Apply for water	4	8	3	1	8	4	5
2. Restore water cut for non payment	3	1	2	1	0	1	1
3. Terminate Water	2	1	0	3	1	3	2
4. Copy of Bill	5	8	6	10	14	11	10
5. Billing Dispute	7	5	7	9	6	9	7
6. Billing Dispute follow up	0	0	0	0	0	0	0
7. General Questions & Other	4	4	6	2	1	6	4
8. Report a water leak	0	0	0	0	0	0	0
9. Report water theft	0	0	0	0	0	0	0
10. Payment Arrangement	5	4	7	8	10	6	7



GWA Utility Services Division
Monthly Status Report
Month ending April 28, 2018

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE APRIL 2018	APRIL 2018 MONTHLY TOTAL	WEEK ENDING: 5/5/2018	WEEK ENDING: 5/12/2018	WEEK ENDING: 5/19/2018	WEEK ENDING: 5/26/2018	WEEK ENDING: 6/2/2018	WEEKLY AVERAGE MAY 2018	MAY 2018 MONTHLY TOTAL
ii. CALLS TO CALL CENTER (Saturday services only):			5/5/2018	5/12/2018	5/19/2018	5/26/2018	6/2/2018		
			43	39	83	64	109		



Dispute Resolution & Document Control

I. Dispute Resolution:			5/5/2018	5/12/2018	5/19/2018	5/26/2018	6/2/2018		
a. Number of disputed accounts resolved:	12	47	12	3	2	4	4	5	25
b. Number of disputed accounts under review:	178	713	178	178	178	178	178	178	890
II. Document Control:									
a. Number of field activities posted :	490	1959	215	214	244	310	331	263	1314
b. Number of field activities pending:	417	1667	314	492	504	516	572	480	2398

Disconnect/Reconnect Unit

I. Number of field activities received:	279	1117	349	249	210	251	315	275	1374
II. Number of field activities completed:	277	1108	345	284	218	248	262	271	1357
III.Number of field activities pending field action:	5	19	2	1	0	3	1	1	7

Meter Reading Unit

I. Number of meters read:			5/5/2018	5/12/2018	5/19/2018	5/26/2018	6/2/2018		
a. Electronically Read Meters:	9819	39274	7261	8466	11721	13314	6641	9481	47403
b. Manually Read Meters:	34	136	44	31	40	50	40	41	205
i. Unread meters (Meters scheduled to be read but not read):	44	175	24	33	26	60	30	35	173
ii. Number of data logs received:	31	122	52	39	37	35	20	37	183
iii. Number of data logs retrieved:	28	111	38	54	15	40	16	33	163
iv. Number of data logs pending field action:	12	49	37	1	18	10	14	16	80
v. Communication Errors/Reprogramming requests:	1	4	1	3	2	0	0	1	6
vi. Number of estimated readings (for the week):	26	103	13	15	8	49	16	20	101
vii. Reasons for Estimations:									
1. Cant locate meter:	6	22	8	2	6	3	2	4	21
2. Temporary Obstruction	2	7	4	3	1	3	4	3	15
3. Vicious Dog	0	1	2	1	1	1	0	1	5
4. Flooded meter	1	5	2	1	2	5	1	2	11
5. Corrective action requested (database corrections needed)	2	7	5	7	1	3	0	3	16
6. Possible changed out meter:	9	36	5	7	24	3	2	8	41
7. Communication/Programming error (code 92's):	5	20	2	2	4	5	5	4	18
8. Other:	8	31	6	8	8	16	13	10	51
1. Leaks detected on customer's private line:	1223	4892	916	1108	1400	1470	825	1144	5719
2. Reverse Flow Detected	38	151	35	53	31	91	33	49	243
3. No Usage Detected	324	1296	257	305	462	486	251	352	1761
4. Tamper Code	15	59	14	16	20	23	14	17	87
c. Electronic Read Percentage:	98%		98%	100%	100%	100%	98%	99%	

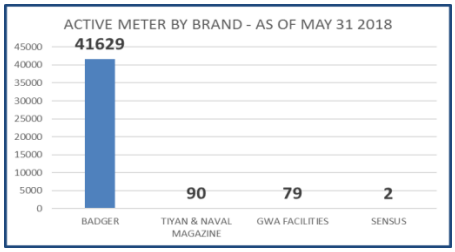
Revenue Protection Unit

I. Number of Inactive Still Consuming Reports rec'd & investigated:	1	3	0	0	1	1	1	1	3
II.Number of Illegal Connection reports rec'd & investigated:	1	5	0	0	0	2	1	1	3

III. Meter Replacement Project – Post 2010 Metron Farnier & Sensus Status Report :

METER TYPE	COUNT
SENSUS	2
METRON FARNIER	0
	2

a. Account & Meter Type Count :



GUAM WATERWORKS AUTHORITY

Engineering Monthly Report
June - July 2018

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

Table of Contents

Section	Description	Page
A	Summary Table of 2010, 2013 and 2016 Bond	3
B	Projects Procurement	5
C	CIP Water Section	8
D	CIP Wastewater Section	12
E	CIP Engineering Support	16
F	GIS Section	16
G	Permits Section	17
H	SRF Project Status Report	18

A. Summary Table of 2010, 2013 and 2016 Bond

Potable Water

CIP #	CIP Description	2010 Bond Allotment	% encumbered	% available	2013 Bond Allotment	% encumbered	% available	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	$ 518,143.96	100.00%	0.00%	$ 400,000.00	92.46%	7.54%	$ -	N/A	N/A
PW 05-06	Water Booster Pump Station	$ 500,000.00	100.00%	0.00%	$ 1,861,000.00	99.09%	0.91%	$ 4,139,000.00	0.00%	100.00%
PW 05-07	Meter Replacement Program	$ 10,300,000.00	99.84%	0.16%	$ 999,000.00	99.75%	0.25%	$ 4,501,000.00	3.33%	96.67%
PW 05-08	Barrigada Tank Repair/Replacement	$ 5,450,000.00	99.92%	0.08%	$ 4,987,000.00	99.32%	0.68%	$ 1,013,000.00	0.00%	100.00%
PW 05-09	Leak Detection	$ 200,000.00	100.06%	-0.06%	$ 20,000.00	84.58%	15.42%	$ 1,180,000.00	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%	$ 2,276,000.00	38.50%	61.50%
PW 05-11	Implement Ground Water Rule	$ 1,700,000.00	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	$ 1,700,000.00	18.03%	81.97%	$ -	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 Dow n Hard	$ 638,252.85	76.11%	23.89%	$ 810,000.00	0.00%	100.00%	$ 1,190,000.00	0.00%	100.00%
PW 05-15	Rehabilitation of Asan Springs	$ 900,000.00	37.87%	62.13%	$ -	N/A	N/A	$ -	N/A	N/A
PW 05-16	Master Meters	$ 1,600,000.00	99.44%	0.56%	$ 784,000.00	99.88%	0.12%	$ 3,616,000.00	4.19%	95.81%
PW 09-01	Ugum Water Treatment Plant Intake	$ 700,000.00	99.47%	0.53%	$ 982,000.00	100.00%	0.00%	$ 18,000.00	0.00%	100.00%
PW 09-02	Water Wells	$ -	N/A	N/A	$ 4,200,000.00	46.77%	53.23%	$ 2,500,000.00	0.00%	100.00%
PW 09-03	Water Distribution System	$ 3,174,748.00	100.00%	0.00%	$ 11,151,000.00	95.15%	4.85%	$ 49,000.00	0.00%	100.00%
PW 09-04	Pressure Zone Realignment	$ -	N/A	N/A	$ 431,000.00	99.95%	0.05%	$ 1,141,000.00	58.58%	41.42%
PW 09-06	Central Water Distribution System 2005	$ 900,000.00	91.67%	8.33%	$ -	N/A	N/A	$ -	N/A	N/A
PW 09-08	Mechanical/Electrical Equipment	$ 1,200,000.00	100.00%	0.00%	$ 430,000.00	99.60%	0.40%	$ 100,000.00	0.00%	100.00%
PW 09-09	Water Reservoir Internal/External	$ 2,000,000.00	73.20%	26.80%	$ -	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	0.00%	100.00%
PW 09-11	Water System Reservoirs 2005 Improvements	$ 1,050,000.00	100.00%	0.00%	$ 13,878,000.00	99.99%	0.01%	$ 28,350,000.00	48.33%	51.67%
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	$ 90,000.00	0.00%	100.00%	$ -	N/A	N/A
PW 12-01	Water Audit Program & Water Loss Control Plan	$ 100,000.00	78.46%	21.54%	$ -	N/A	N/A	$ 1,000,000.00	0.00%	100.00%
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%	$ 3,280,000.00	40.52%	59.48%	$ 1,220,000.00	40.98%	59.02%
PW 12-05	Tank Major Repair Yigo #1, Mangilao #2, Astumbo#1	$ 1,900,000.00	95.16%	4.84%	$ 11,605,000.00	99.99%	0.01%	$ 1,895,000.00	96.15%	3.85%
PW 12-06	Tank Replacement Piti & Hyundai	$ -	N/A	N/A	$ -	N/A	N/A	$ 7,409,830.00	98.52%	1.48%
PW 12-07	Assessment of Maloloj 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	$ 2,000,000.00	0.00%	100.00%
		$ 41,903,304.66			$ 58,317,117.00			$ 64,647,830.00		

Wastewater

CIP #	CIP Description	2010 Bond Allotment	% encumbered	% available	2013 Bond Allotment	% encumbered	% available	2016 Bond Allotment	% encumbered	% available
WW 05-04	Wastew ater System Planning	$ 1,500,000.00	100.00%	0.00%	$ 651,000.00	100.00%	0.00%	$ 349,000.00	89.68%	10.32%
WW 05-05	Wastew ater 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	$ 946,000.00	70.40%	29.60%	$ 2,404,000.00	12.21%	87.79%
WW 09-06	Wastew ater Collection System Repl/ Rehabilitation	$ 1,105,000.00	99.93%	0.07%	$ 780,000.00	97.11%	2.89%	$ 2,920,000.00	19.02%	80.98%
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	$ 1,301,947.00	88.43%	11.57%	$ 3,114,883.00	100.00%	0.00%	$ 29,400,170.00	98.99%	1.01%
WW 11-04	Facilities Plan/Design for Umatac-Merizo WWTP	$ 900,000.00	100.00%	0.00%	$ 473,000.00	100.00%	0.00%	$ 527,000.00	47.84%	52.16%
WW 11-08	Agat/Santa Rita STP Replacement	$ 2,218,000.00	99.91%	0.09%	$ 67,200,000.00	99.43%	0.57%	$ 3,000,000.00	51.50%	48.50%
WW 12-01	Northern District WWTP Primary Treatment Upgrade	$ 11,750,000.00	100.00%	0.00%	$ -	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	$ 11,500,000.00	100.00%	0.00%	$ 673,000.00	100.00%	0.00%	$ 827,000.00	0.00%	100.00%
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	99.06%	0.94%
WW 12-08	Wastew ater System GIS & Mapping	$ -	N/A	N/A	$ -	N/A	N/A	$ -	N/A	N/A
WW 12-09	Wastew ater Facility Back Up Pow er	$ -	N/A	N/A	$ -	N/A	N/A	$ -	N/A	N/A
WW 12-10	Wastew ater System Asset Inventory	$ -	N/A	N/A	$ -	N/A	N/A	$ -	N/A	N/A
WW 17-01	Wastew ater Sew er System Expansion									
WW 17-02	Northern District WWTP Secondary Treatment Upgrade	$ 1,000,000.00	0.00%	100.00%						
		$ 36,009,577.00			$ 73,837,883.00			$ 60,227,170.00		

Electrical Engineering Support

CIP #	CIP Description	2010 Bond Allotment	% encumbered	% available	2013 Bond Allotment	% 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	Wastewater Pumping Station Electrical Upgrade	$ -	N/A	N/A	$ 620,000.00	16.13%	83.87%	$ 100,000.00	0.00%	100.00%
EE 09-02	Electrical Upgrade - Water Wells	$ 354,226.63	100.00%	0.00%	$ 1,500,000.00	100.00%	0.00%	$ 650,000.00	0.00%	100.00%
EE 09-03	Electrical Upgrade - Water Booster	$ -	N/A	N/A	$ 2,000.00	0.00%	100.00%	$ 323,000.00	0.00%	100.00%
EE 09-04	Electrical Upgrade - Water Booster	$ -	N/A	N/A	$ 200,000.00	0.49%	99.51%	$ -	N/A	N/A
EE 09-05	Electrical Upgrade - Other Water	$ -	N/A	N/A	$ 150,000.00	40.47%	59.53%	$ -	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	$ 24,955.71	100.00%	0.00%	$ 923,000.00	78.26%	21.74%	$ 1,177,000.00	52.46%	47.54%
EE 09-09	SCADA Improvements - Phase 4	$ -	N/A	N/A	$ -	N/A	N/A	$ 6,500,000.00	0.00%	100.00%
		$ 1,748,118.34			$ 3,395,000.00			$ 8,750,000.00		

Miscellaneous Engineering Support

CIP #	CIP Description	2010 Bond Allotment	% encumbered	% available	2013 Bond Allotment	% encumbered	% available	2016 Bond Allotment	% encumbered	% available
MC 05-01	Laboratory Modernization	$ -	N/A	N/A	$ 1,173,000.00	100.00%	0.00%	$ 1,127,000.00	100.00%	0.00%
MC 05-02	Land Survey	$ 500,000.00	99.94%	0.06%	$ 2,000.00	0.00%	100.00%	$ 1,998,000.00	63.09%	36.91%
MC 09-01	General Plant Improvements	$ 7,241,000.00	99.58%	0.42%	$ 2,600,000.00	82.00%	18.00%	$ 2,769,460.00	54.11%	45.89%
MC 15-01	Information Technology Intergration Improvements							$ 500,000.00	48.81%	51.19%
		$ 7,741,000.00			$ 3,775,000.00			$ 6,394,460.00		

	2010 Bond Allotment	2013 Bond Allotment	2016 Bond Allotment
CIP Water	$ 41,903,304.66	$ 58,317,117.00	$ 64,647,830.00
CIP Wastewater	$ 36,009,577.00	$ 73,837,883.00	$ 60,227,170.00
CIP Electrical	$ 1,748,118.34	$ 3,395,000.00	$ 8,750,000.00
CIP Miscellaneous	$ 7,741,000.00	$ 3,775,000.00	$ 6,394,460.00
	$ 87,402,000.00	$ 139,325,000.00	$ 140,019,460.00

Bond Fund	Construction Fund Amount ($M)	Estimated # of months fund available for use		Total Funds encumbered to date ($M)	% of fund used	Rate of Spending: ($M) per year
2005	$82.930	82	*	$82.930	100.00%	12.14
2010	$87.402	90	**	$83.354	95.37%	11.11
2013	$139.325	53	**	$132.278	94.94%	29.95
2015	$140.019	23		$82.691	59.06%	43.14
	* - End date November 2013 via CCU Resolution 06-FY2014					
	** - Includes month of May and June 2018					

B. Projects Procurement

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.

BOX KEY FOR PROCUREMENT:

(Type of Procurement) (Relevant CIP NO. or Funding Source)	**(Project Title)**	
(Percentage complete for procurement)	**Activities/Notes:** (see percentage key above)	**Consultant** (listed when selected)
Project Description	Summary of project description	

BID PACKAGE PW 09-02	**New Well Construction**	
<50% Complete	**Activities/Notes:** GWA engineering continuing discussion with Dept. of Agriculture and lessee on options of acquisition of property for well site at AG-12. Internal GWA discussions underway for survey and appraisal services as well as continuing services form Designer.	
Project Description:	The project is to construct three new production wells for GWA as well as installation of a water main to connect the new production wells to the Ysengsong Reservoirs.	

RFP PW 09-02	**New Well Construction (Construction Management)**	
<50% Complete	**Activities/Notes:** SOW being developed	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of up to three (3) new production wells for GWA. GWA plans to increase source water production to improve system redundancy that allows for operating the water production wells more effectively. 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.	

BID PACKAGE PW 14-01	**Fire Hydrant Replacement Phase I**	
<50% Complete	**Activities/Notes:** Bid package being prepared.	
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.	

RFP WW 09-01	**Yigo SPS Flood Protection and Rehabilitation Design**	
98% Complete	**Activities/Notes:** Fee negotiation complete and Engineering service contract being prepared after which the contract will be routed for signatures.	
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.	

BID PACKAGE PW 09-03, PW 09-04 AND PW 09-11	**Northern Tank Phase I (Santa Rosa) Construction**	
<50% Complete	**Activities/Notes:** GWA will issue only a bid for Santa Rosa Tank and off-site improvements first.	
Project Description:	The work performed under this project procurement shall consist of Construction of a 1MG Santa Rosa reservoir and booster pump station. Some piping work off site from the reservoir is also required to ensure the reservoirs function optimally.	

BID PACKAGE EE 09-08, EE 09-09	**SCADA Phase A1 Construction**	
99% Complete	**Activities/Notes:** CCU approval of contract approved. Contract routed for signatures.	
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 he island.	

RFP EE 09-08, EE 09-09	**SCADA Phase A1 Construction Management**	
98% Complete	**Activities/Notes:** Fee negotiation complete and Engineering service contract being prepared after which the contract will be routed for signatures.	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction	

	of all SCADA ready instrumentation at the various facilities through Guam. 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.

RFP PW 09-04, PW 09-11	**Design Services for the Project Pressure Zone Realignment and Tank Repair/Replacement**	
98% Complete	**Activities/Notes:** Scope and fee negotiations completed. Design Contract presented to CCU in June meeting and approved. Contract submitted to design firm for signature.	
Project Description:	The work performed under this project procurement shall consist of design services for the remaining GWA reservoirs that required major repairs or replacement. The design will also address the required pressure zone realignment throughout the island so as to improve the distribution system functionality. .	

BOX KEY FOR PROJECT:

(Type of Project) (Relevant CIP NO.)	**(Project Title) (Contractor or consultant)**	**Start Date:** (month and year)
(Percentage complete for project)	**Activities/Notes:** (brief description of activity)	**Completion Date:** (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 needs to modify design for Toguan BPS. Still working on plan for Kaiser, Windward. Quote for Agat #1 take down with contractor. GWA working to get quotes for by-pass for Malojloj tank.	**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 CIP PW 05-12	**Brigade II BPS Upgrade (EM Chen)**	**Start Date:** April 2012
100% complete (Basis of Design) 80% (Design)	**Activities/Notes:** Design firm working to 90% design submittal.	**Completion Date:** Due to property acquisition issues GWA anticipate May 2018
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 CIP PW 12-05	**Yigo and Astumbo 2MG Tank Design Project (Lyons)**	**Start Date:** September 2013
99% complete	**Activities/Notes:** Design firm to provide RFI support during the construction.	**Completion Date:** January 2016
CO 9 (b)(4)	Engineering design services	
Project Description:	Develop the construction documents for two (2) 2.0 million-gallon (MG) nominal capacity concrete reservoirs in the Yigo service zones and one (1) 2.0 MG reservoir in the Astumbo service area. The design services will consist of preparation of plans, specifications, and estimates (PS&E), including Basis of Design, design calculations, construction	

	schedule, topographical survey, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto CAD (latest version), and relevant permits. Other services will include construction bid support service, meetings, and response to request for interpretation/information during construction. The consultant is required to incorporate and modify existing GWA concrete reservoir specifications to meet the project objective.

DESIGN PW 09-11	**Northern and Southern Guam Reservoir Design** **(TG Engineers)**	**Start Date:** May 2015
60% Complete	**Activities/Notes:** Santa Rosa – 100% design in hand. Santa Rita – 100% design in hand. Inarajan – Land procurement second site related to new BPS's still on-going. Sinifa – 100% design in hand. Ugum – GWA still in discussion with re-evaluation and discussion with property owner of alternative property on-going.	**Completion Date:** Update: Due to property acquisitions issues for Piti and Tumon #1, 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 – Chaot off-site work part of base bid. Chaot Tank work expected to be Change Order in once funding available. Tumon #2 – tank under construction. Hyundai – tank under construction. Piti – GWA still evaluating alternative solutions to storage needs in Piti area. Manenggon –70% design near complete. Tumon #1 – GWA working on land issues.	**Completion Date:** Update: Due to property acquisitions issues for Piti and Tumon #1, 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 Hyundai, Pulantat, Chaot #2, Tumon #2, Piti and Tumon #1.

CONSTRUCTION PW 09-03	**Line Replacement Phase IV (Giant Construction)**	**Start Date:** 02/14/16
85% Complete	**Activities/Notes:** Contractor completed pipe installation at Asumption Drive and Agafa Gumas. Started work along Chalan Koda and Matguac. Issue regarding property and archeological issue with contractor completed. Work related to line replacement at GPA fuel farm on hold.	**Completion Date:** 12/30/18 per Change Order.
	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
80% Complete	**Activities/Notes:** Design firm working to 90% design submittal.	**Completion Date:** Due to delays from the Park Services related to property access the anticipated completion of the design is May 2018.
	Engineering design services	
Project Description:	- Perform site visits and condition assessment for site conditions to determine demolition and rehabilitation requirement, process equipment condition, structural condition, and electrical system. Site condition assessment shall include all disciplines to execute the project. - Review and validate the current property boundary information to confirm the available space for the project development. - Perform an environmental impact study and prepare all required permits as needed. - Perform an archeological and historical resources study to identify potential impact to the project, prepare all required permits as needed. - Coordinate with Guam Historic Resources Division State Historic Preservation Office (SHPO) on historical resources study. Prepare all necessary reports and documents as required by SHPO. - Coordinate with Guam Department of Agriculture, Division of Aquatic and Wildlife Resources (DAWR) on vegetation clearance. Prepare all necessary reports and documents required by DAWR. - Identify the existing and projected service area, period of design. - Identify and recommend conceptual water treatment system. - Perform a Class 4 engineering cost estimate according to the	

	American Association of Cost Engineers (AACE) International Cost Estimate Classification System for construction fee. Cost must include all disciplines, permit, construction and administration that are necessary to execute the project. All costs will be in current dollars and escalated to the estimated midpoint of construction.

CONSTRUCTION PW 09-11, PW 12-05	**Yigo/Astumbo Tank Construction (Pernix)**	**Start Date:** 12/1/16
85% Complete	**Activities/Notes:** Yigo #1: GWA still working to fill for Leak testing and disinfection. Yigo #2: concrete roof complete, filling to commence next week. Yigo pump station: two off-site connection pending. Astumbo #1: disinfection work started	**Completion Date:** 07/31/18
	Construction Services	
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
85% complete	**Activities/Notes:** Processing submittals and on-site inspection	**Completion Date:** July 2018
N/A	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the demolition of existing steel elevate and ground tanks as well as the construction of the 2MG concrete tanks at the Yigo tank location and Astumbo tank location. 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 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
5% complete	**Activities/Notes:** Reviewing submittals from contractor.	**Completion Date:** February 2019
N/A	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:** 02/8/18
5% Complete	**Activities/Notes:** GWA working on issue of asbestos found at Nissan site. Waiting for DPW to issue final permit (permits applied for in Feb 2018).	**Completion Date:** 02/31/19
	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:** Providing constructability review for Santa Rosa Tank.	**Completion Date:** June 2019
N/A	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; 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.	

D. CIP Wastewater Section

DESIGN WW 11-08	**Agat-Santa Rita WWTP Replacement (DCA)**	**Start Date:** October 2014
99% Complete	**Activities/Notes:** Change Order to extend design services during construction executed.	**Completion Date:** Nov. 2015 (design); June 2018 (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 MANAGEMENT WW 11-08	**Agat Santa Rita WWTP CM (GHD)**	**Start Date:** November 2014
100% (PH 1) 100% Complete (PH 2, Part 1)	**Activities/Notes:** Typical CM inspections on-going. Change order required to continue services through April	**Completion Date:** December 2017, projected through

93% Complete (PH 2, Part B)	2018.	April 2018
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- 93% complete	**Activities/Notes:** Contractor still working on headworks, aerobic digester, equalization basin, admin and maintenance buildings.	**Completion Date:** Phase A: 03/15/17 Phase B: 12/31/17 will not be met, August 2018 projected
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:** 02/05/16
99% Complete	**Activities/Notes:** DCA providing engineering services during construction.	**Completion Date:** 04/30/18(this completion date will have to be extended.)
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
99% Complete	**Activities/Notes:** Due to change in design Army Corp of Engineers permit viewed as not necessary. GWA received 100% design and under review. GWA working on Change order to address snail and archeological report that was not part of original scope.	**Completion Date:** Due to issue with ACOE anticipate December 2017 for design only.
	Engineering design services	
Project Description:	The intent of this project for an engineering firm to prepare design	

	drawings and specification to upgrade the Bayside Sewer Pump Station given the facility is in major disrepair and the adjacent river is eroding away the access road to the facility which is causing maintenance challenges.

CONSTRUCTION WW 09-08, WW 11-03	**Baza Gardens Cross Island Road Sewer Conveyance Construction Phase I (BME and Sons)**	**Start Date:** October 2016
82% Complete	**Activities/Notes:** New SPS, force main and gravity line installation along Route 17 on-going.	**Completion Date:** Phase I: 03/01/18 (this completion date will have to be extended. Under negotiations)
	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
70% Complete	**Activities/Notes:** Field inspection, project coordination and invoice review on-gong.	**Completion Date:** April 2018 (this completion date will have to be extended. Under negotiations)
	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
95% Complete	**Activities/Notes:** New SPS, force main and gravity line installation along Route 17 on-going.	**Completion Date:** April 2018 (this completion date will have to be extended. Under negotiations)
	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
35% Complete	**Activities/Notes:** Contractor continuing pipeline and SPS construction work on Route 17 along with work at wet well at Baza Gardens WWTP.	**Completion Date:** Phase III: 03/16/18 (this completion date will have to be extended. Under negotiations)
	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
90% design 10% construction	**Activities/Notes:** • CHL continuing excavation and grading of the North Overland Flow System (OFS). Breaking rock to achieve grade. • FM from effluent pump station to OFS tank being installed. Compaction irregularities being reported and addressed. • Culvert repair work started -- CO done. Culvert under road reported separating. Documenting condition and potential repair/replace method.	**Completion Date:** December 31, 2018
	Construction services	
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 basin will undergo regarding work to ensure appropriate distribution of effluent through the whole basin.	

CONSTRUCTION MANAGEMENT WW 11-04	**Umatac Merizo WWTP Design Build Improvements Project (SSFM Inc)**	**Start Date:** September 7, 2017
15%	**Activities/Notes:** Continuing on-site inspection of field activities.	**Completion Date:** December 31, 2018
	Construction Management services	
Project Description:	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 Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

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) 0% Services during construction	**Activities/Notes:** Final design in hand. AECOM to provide assistance during bidding process.	**Completion Date:** November 2017 - Design January 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.	

F. GIS Section

MAPPING MC 05-02	**Island Wide Survey- (Duenas, Camacho & Ass.)**	**Start Date:** December 2007
99% complete	**Activities/Notes:** Task #13 complete. Task #14 scope negotiating ongoing.	**Completion Date:** New anticipated complete is April 2018.
	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 but the lot is not registered under GWA's name.	

MAPPING MC 05-02	**Island Wide Survey PH II - (Duenas, Camacho & Ass.)**	**Start Date:** August 30, 2017
45% complete	**Activities/Notes:** Surveyor submitted 25 property maps for GM signature. Surveyor continuing additional field work for another 20 parcels.	**Completion Date:** December 2018
	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 2017

	2018						
Description	Jan	Feb	Mar	April	May	Jun/July	
Building Permit	11	9	1	13	11	28	
Occupancy Permit	3	10	18	16	18	32	
New Installation	14	8	7	9	3	18	
Sewer Application	15	14	7	6	3	0	
Sewer Inspection	0	1	3	0	0	1	
Private Utility Acceptance	0	0	0	0	0	0	
Relocation of Water Meter	0	0	0	0	0	0	
Tapping-Water	1	1	0	0	3	1	
Tapping-Sewer	0	1	0	0	0	0	
Clearance-Water	3	2	7	10	20	41	
Clearance-Sewer	3	2	7	10	20	41	
Highway Encroachment	0	4	41	22	25	31	
Verification of Utilities	4	4	5	4	1	7	
Fire Flow Test	0	0	1	0	0	0	
Schedule Water Outage	0	1	0	0	0	0	

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.

	Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount (+) change orders	Contractor	Status as of 07/15/18
1	Northern District SSES & I/I Study	Sanitary sewer system evaluation study (SSES) and inflow and infiltration (I/I) study designed to evaluate high I/I areas within the Northern sewer basin with the goal of identifying projects to eliminate them.	J. Davis	Design	1	10/10/2014	2/29/2016	$ 792,979.97	Stanley	100% Complete.
				Construction				*The project does not involve construction.*		
				Const. Mgmt						
2	Southern SSES Rehabilitation (Agat-Santa Rita-Umatac-Merizo)	Rehabilitation of segments of sewer lines in Umatac, Merizo, Agat, and Santa Rita where the Sanitary Sewer Evaluation Study recommends rehabilitation.	Brown & Caldwell	Design				*The design was previously completed under bond funding.*		
				Construction	1	10/30/2015	2/28/2017	$ 1,170,583.82	Reliable Builders	Warranty work complete .
				Const. Mgmt	1	11/10/2015	3/30/2017	$ 226,980.23	TG Engineers	CM Services complete.
3	Asan-Adelup-Hagatna RT1 Sewer Line Rehabilitation and Replacement	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 some areas have disintegrated crowns.	Brown & Caldwell	Design	2	12/11/2015	3/30/2017 for Design requirements	$ 1,780,210.00	HDR	Route 1 rebid: HDR to provide services during bid process. .
				Construction		10/16/2016	6/30/2019	$5,920,000		Procurement 90%. Bid opening complete and GWA review lowest bid package for responsiveness.
				Const. Mgmt	2	6/30/2017	6/30/2019	$ 870,610.41		Procurement 99%. Resolution passed. Contract routed for signatures.

4	RT2 Agat War in the Pacific Sewer Line Rehabilitation and Replacement	Rehabilitation 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	2	8/31/2017	10/1/2018	$ 4,554,451.00		• PPBC installing MH #5, and exploring area for MH #6; utilities continue to be a constant issues. • PPBC currently discharging/dewatering water to sewer, as needed; GWA metering discharge. PPBC wrapped pump intake with a fine mesh to prevent sand and solids from entering into sewer. • PPBC continuing exploratory excavations as needed; CM/BC working with PPBC to determine the final alignment. • Existing concrete-encased utilities are preventing contractor from installing some manholes per original design. CM coordinating with contractor and BC to recommend new manhole locations as needed. BC/GWA would make the final call. • BC/CM working with PPBC to look at options for diverting sewer flow from existing system to new system around SMH#4/EMH#6; GWA requested to allow for removal of current bypass in front of park.
				Const. Mgmt	3	9/19/2017	10/1/2018	$ 584,725.00		• SSFM requesting additional funds for services during construction. Need to review recent submittal of last invoice. • PCO #1: Contractor agreed to 30 days additional time. Started CO#1; will route to GWA for signature.
5	Brown & Caldwell Project Management	Brown & Caldwell to provide program management services and support.	T. Cruz	Design	4	3/24/2015	2/28/2019	$ 2,640,220.00	B&C	Project underway.
				Construction				*The project does not involve construction.*		
				Const. Mgmt						
6	Wastewater, Water and Source Water System Master Plan Upgrade	Update of the existing water and wastewater master plan while factoring in military integration and secondary treatment plant options.	Brown & Caldwell	Design	5	7/6/2015	01/30/2018 (revised due to financial workshop)	$ 2,623,300.00	B&C	• Target Acceptance date for MP - August CCU meeting. • Currently only providing assistance for Public Meetings. • Public meetings held in Yigo, Tamuning, Agat, GHRA, and before Senate. At this point 4 meetings still scheduled. • Budget is expended - additional work for the public meetings and SFO Presentation ~$57,000. GWA to re-budget from other SRF projects per discussion with BC.
				Construction				*The project does not involve construction.*		
				Const. Mgmt						

7	Groundwater Wells Rehabilitation (F-3, A-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 to be rehabilitated are A-2, A-7, A-12, D-5, & F-3.	Brown & Caldwell	Design	6	5/27/2016	2/28/2018 (for design only)	$ 1,758,247.00	AECOM	• AECOM submitted final design package on 3/19. Approved final design invoice #13. • Project in holding pattern until construction IFB is issued (funding source TBD).
				Construction		9/30/2018	9/30/2019			SRF grant funds specific to project pending FY18 grant approvals and award.
				Const. Mgmt		9/30/2018	9/30/2019			· Draft CM scope submitted to GWA.
8	Tumon Sewer Hot Spots	Investigation, evaluation, and repair of possible solutions, to long plaguing issues where sewer overflows are known to occur in Tumon San Vitores.	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.
				Construction		12/1/2018	12/31/2019			Procurement 70%; bid package advertised 5/15/18, Pre-bid occurred on 6/1/18. Bid opening 6/19/18.
				Const. Mgmt		12/1/2018	12/31/2019			Procurement 70%: RFP package advertised 6//5/18. Proposals received 6/29/18. Proposal evaluation being completed.
9	Critical Sewer Pump Stations (7 stations)	Rehabilitation of various components of 7 pump stations that were identified to by the CDM design team: Macheche, Ypaopao, Astumbo 1, Fujita, Santa Ana, Southern Link, and Route 1.	CDM	Design				*The design will be incorporated into the design/build package.*		
			J. Davis	Design/Build	1	8/8/2016	3/30/2018	$ 1,542,979.01	ProPacific	-Route 16 Pump Stations- Structural Evaluation done. Waiting for the report from the Structural Engineer. Additional cost and time extension is anticipated. Change Order #5 with finance for fund cert. - Fujita Pump Station- all work complete, - Macheche PS- all work complete - Santa Ana PS- all work complete, - Southern Link Pump Station - Pending Change Order for Roll up door. Ypaopao : all work complete - Astumbo : all work complete
				Const. Mgmt	4	9/9/2016	3/30/2018	$ 329,353.52	Stanley	CM work ongoing. GWA working on Change Order proposal to extend contract to match constructions activities.
10	Sewer Pump Station High Water Alarm Systems (20 stations)	This project will design and installed telemetry equipment/SCADA type alarms that will alert when pump station failure occurs.	C. Yam	Design				*The design will be incorporated into the design/build package.*		
				Design	8	8/12/2016	02/30/2017	$ 183,171.00	AECOM	Design complete
				Construction	3	4/5/2017	9/30/2017	$ 1,444,888.00	Pacific Rim	Project complete
				Const. Mgmt	5	02/30/2017	9/30/2017	$ 195,269.00	EMSPCO	CM work complete

11	Sewer Pump Station Backup Power (2 stations)	Construction of the housing and installation of new generators for the Casimero pump station (Mongmong) and the Namo pump station (Yona central).	B. Cruz	Design				*The design will be incorporated into the design/build package.*		
				Design/Build	2	6/24/2016	9/30/2017	$ 362,692.53	ProPacific	Design Build project complete.
				Const. Mgmt				*B. Cruz is the construction manager.*		
12	RT4 Relief Sewer Line Rehabilitation and Replacement	Rehabilitation of sewer lines that are located from Agana McDonalds to Marine Drive that have been known to overflow due to structural issues.	Brown & Caldwell	Design	9	3/1/2016	4/22/2017	$ 794,000.00	AECOM	· AECOM to provided services during bidding process.
				Construction		11/15/2018	12/31/2019			Procurement 95%, · • Rebid contracts for Schedule A, ProPacific ($3.4M), and for Schedule B, Insituform ($4M); resolution/summary to be presented in July CCU. • AECOM routing drawing sets to get a head start on permitting.
				Const. Mgmt	6	11/15/2018	12/31/2019	$ 702,678.13		Procurement 100%, • EMPSCO CM contract ($647K + $56K for two contractors) approved and signed
13	Groundwater Wells Rehabilitation (D-3, D-17, D-18, D-22, M-9)	Rehabilitation of existing deep wells and/or in cases where pipe column needs replacing will be re-drilled. D-3, D-17, D-18, D-22, and M-9.	Brown & Caldwell	Design				*The design was previously completed under bond funding.*		
				Construction	4	8/19/2016	3/30/2018 (completion date under analysis)	$ 6,158,240.67	Pacific Rim	• Substantial Completion Certificates issues for D-17, D-18 and D-22. • Main issues remain - EA/PRC still working on level sensor/sounding tube issues. - Still working with GHD to confirm electrical requirements for the larger drives. - D-03: Working with GWA/EA to figure out path forward. • Contractor is not cooperating and CM has currently recommended terminating PRC. Looking at ways to resolve the issues and get to completion.
				Const. Mgmt	7	3/22/2016	3/30/2018 (completion date under analysis)	$ 1,041,722.56	EA	• CM CO#4 executed. • Processing PRC Invoice #20.

14	Southern SSES Sewer Rehabilitation (Baza Gardens-Talofofo)	Rehabilitation of segments of sewer lines in Windward Hills, Talofofo area where the Sanitary Sewer Evaluation Study recommends rehabilitation.	Brown & Caldwell	Design				*The design was previously completed under bond funding.*		
				Construction	5	8/2/2016	Due to issue related to Santa Rita sewer project completion under analysis.	$ 1,189,815.00	ProPacific	• On 5/16, meeting held with PPBC's bonding agency (Takagi & Associates) and Kelly Clark (and PPBC, GWA, BC, EMPSCO) • PPBC seems amenable to paying for design and construction of pump station and force main. • If PPBC installs a pump station for the project, should we look at what the ultimate capacity could be for other connections? • BC sent draft performance requirements for a design-build project to install pump station and force main to contractor and GWA on 6/14. GWA informed BC, and BC in turn PPBC, that EMPSCO may be the designer of the proposed Lift Station. PPBC initiated preparation of the Lift Station proposal. • PPBC on notice since 12/01/2017 (via formal GWA letter) that continuing delays are unacceptable and grounds for potential default. • Santa Rita Wetland (drawing AG-101): • On 3/15, Contractor notified BC/GWA that progress could not be made on sewer line MH5678 -- MH5679 due to the line filling with rocks. • On 3/30, BC/GWA held site visit with USACE. On 4/3, BC held site visit with GEPA. A third sewage spill into the wetland was observed and reported. Contractor immediately repaired the leak. • Baza Gardens: PPBC using IMS robotic cutter to correct punch list items. CM/BC remarked that the final CCTV revealed deficiencies to correct. Contractor advised same. • Talofofo: Final Inspection held on 5/25 -- all defects were corrected and work is complete.
				Const. Mgmt	8	7/29/2016	5/28/2017	$ 347,945.93	EMPSCO	· PM to work on Change Order to extend contract and amount.
15	Tamuning 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			Procurement 70%; bid package advertised 5/15/18, Pre-bid occurred on 6/1/18. Bid opening 6/19/18.
				Const. Mgmt		12/1/2018	12/31/2019			Procurement 70%: RFP package advertised 6//5/18. Proposals received 6/29/18. Proposal evaluation being completed.
16	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.	J. Davis	Design (for Talofofo and Chalan Pago PS)	11	8/17/2016	11/30/2017	$ 493,818.86	EMPSCO	Talafofo Pump Station design /bid package received. Final Design of Chalan Pago Pump Station project under review by GWA. Change Order related to snails to be executed.
				Construction		12/1/2018	12/31/2019			Procurement 70%; bid package advertised 6/19/18, Bid opening scheduled for 8/3/18.
				Const. Mgmt		12/1/2018	12/31/2019			Procurement 50%; RFP package being prepared.

17	Chalan Pago Sewer Pump Station	Design and construction of sewer lift stations and gravity lines in Scott Laguana, Santa Cruz Street Chalan Pago.	J. Davis	Design		8/17/2016	11/30/2017	*The design will be included with the Talofofo Pump Station design project.*		
				Construction		4/29/2017	4/30/2018			
				Const. Mgmt		4/29/2017	4/30/2018			
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.	Barbara Cruz	Design	12	8/3/2016	3/15/2017	$ 523,268.00	GHD	Design complete.
				Construction		2/1/2017	12/30/2019			Funding for construction project to be from FY18 grant that is still pending.
				Const. Mgmt		2/1/2017	12/30/2019			
19	Macheche Hill Sewer Rehabilitation/ Replacement	Rehabilitation of sewer lines on Macheche road. Segments of this sewer line has collapsed recently and is consider a high priority.	J. Davis	Design-Build	3	8/29/2016	3/30/2018	$ 2,202,545.47	Giant Const.	Construction project complete.
				Const. Mgmt	9	9/16/2016	3/30/2018	$ 379,994.38	Am Orient	CM work complete.
20	Asan-Adelup-Hagatna Rt. 1 Sewer Line Rehabilitation and Replacement Emergency Repairs	Rehabilitation of sewer line in Asan that collapsed and which is current fitted with a temporary pumping system.	Brown & Caldwell	Design				Design cost covered under Project 3 above.		
				Construction	6	3/8/2017	12/30/2017	$ 2,470,658.00		GWA waiting on as-builts.
				Const. Mgmt	10	1/24/2017	12/30/2017	covered under Project 3		CM work complete.
21	Valve Maintenance Equipment Trailer (2 each)	Acquire two sets of valve exercise equipment mounted on trailers to be used to exercise existing valves in the distribution system as a means of maintaining the valves functionality so the valves to not "freeze up" and required replacement	Grants/Operations	Equipment	1			$ 167,814.94		Complete
22	Heavy Duty Trucks to Haul Valve Maintenance Equipment Trailer (2 each)	Acquire two heavy duty trucks with extended to pull the valve exercise equipment trailer	Grants/Operations	Equipment	2			$ 139,790.00	Triple J	Complete
23	Project Advertisement	Each IFB or RFP requires advertising	Engineering/ Procurement	MISC	1			$ 25,172.50	PDN/Post	On-going

DASHBOARD

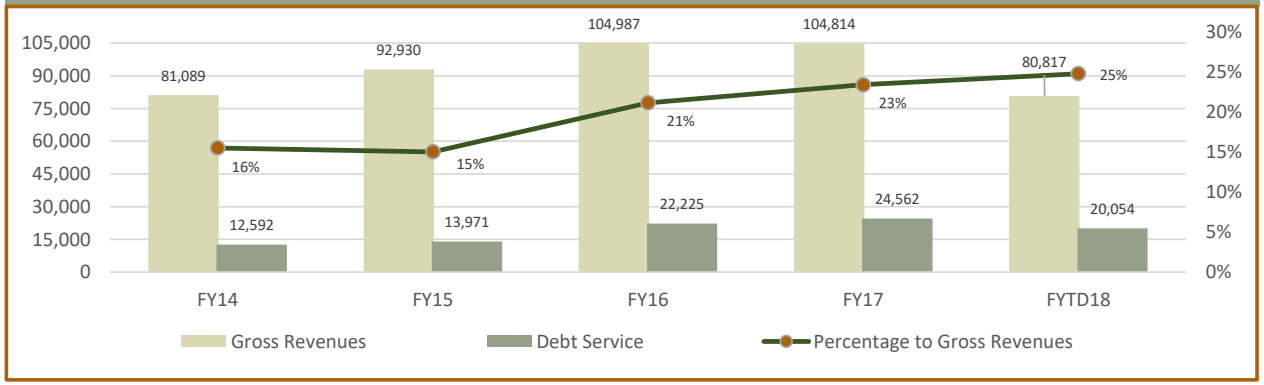
FYTD June 2018 Budget vs Actual ($000)

Category	Description	Budget FYTD18	Actual FYTD18	Variance
Rate Based Revenues	Water	$53,474	$50,921	($2,552)
	Wastewater	29,896	29,557	(339)
	Total	83,370	80,479	(2,891)
Operations & Maintenance	Salaries & Benefits	18,012	14,849	(3,163)
	Power	9,522	10,931	1,409
	Water Purchases	6,490	6,811	321
	A&G	9,070	8,010	(1,061)
	Contractual	3,939	3,402	(537)
	Total	$63,392	$60,345	($3,047)

Key Financial Ratios ($000)

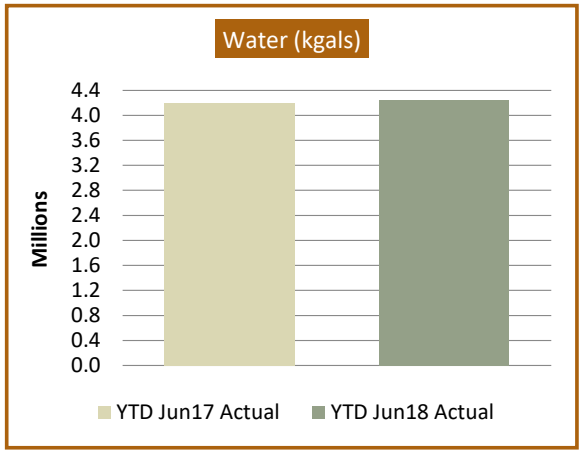
Category	FY18	FY17
Accounts Payable $$/Days	$4,342 / 46 days	$5,390 / 59 days
Accounts Receivable $$/Days	$15,848 / 59 days	$15,451 / 51 days
Days Cash On Hand	156 days	184 days
Annual Debt Service (Revenue Bonds)	$26,739	$24,563
Debt Service Coverage (Bond/PUC)	1.74 / 2.16	1.98 / 2.44

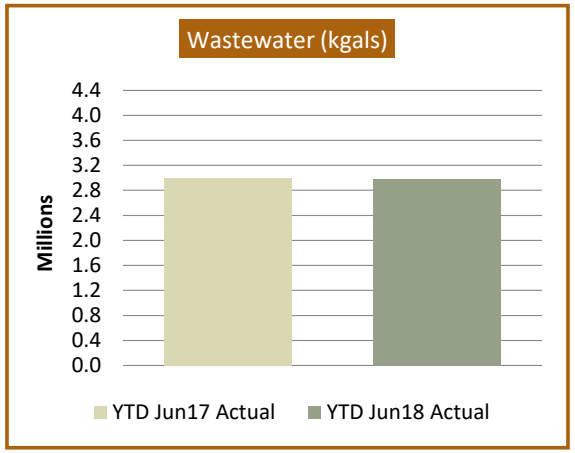
Debt as a Percent to Gross Revenue

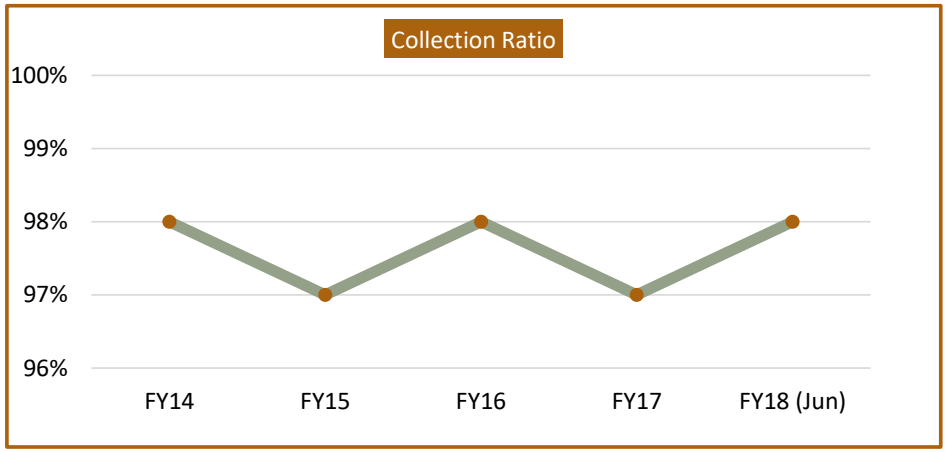


(1) Gross Revenues excludes SDC
(2) Debt Service Includes Cap I

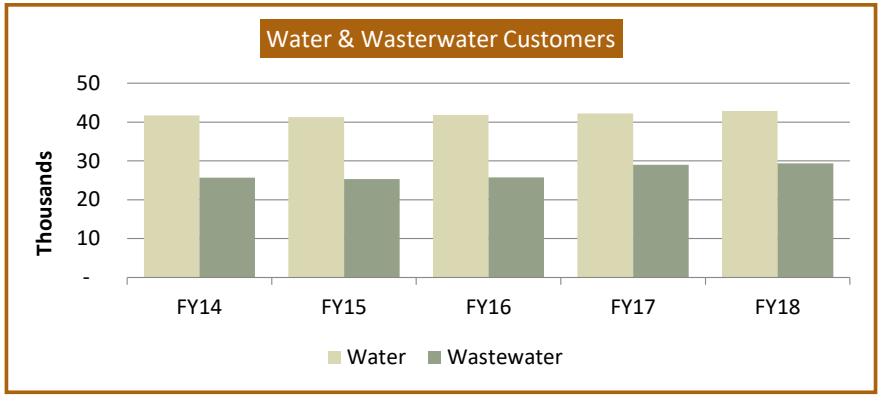
Water & Wastewater Analytics

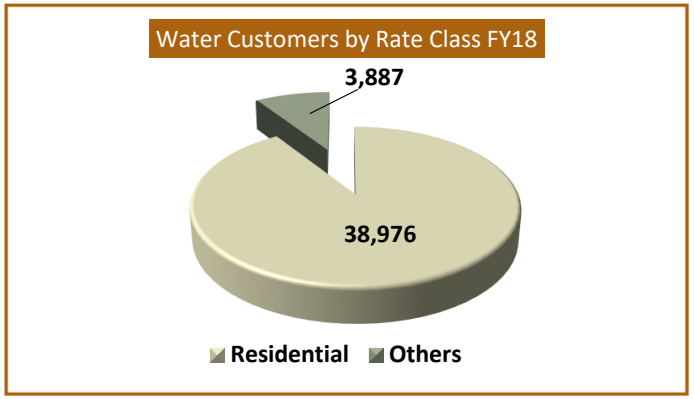


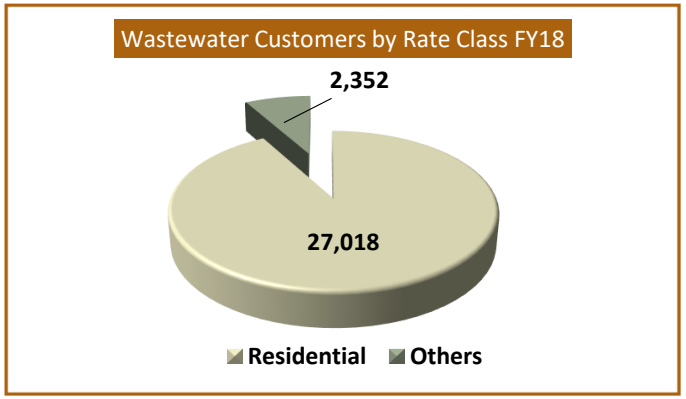


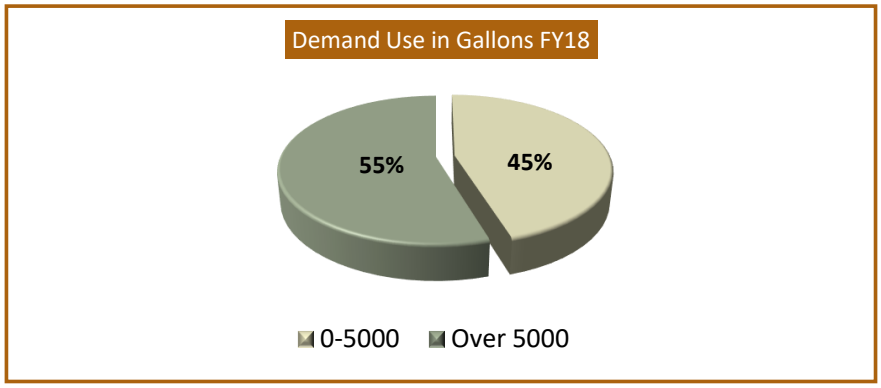


Water & Wastewater Customers





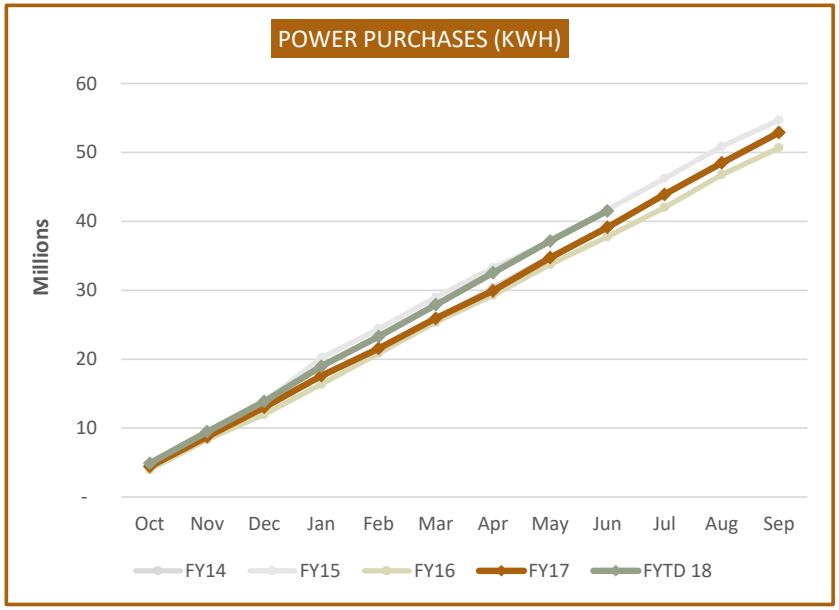


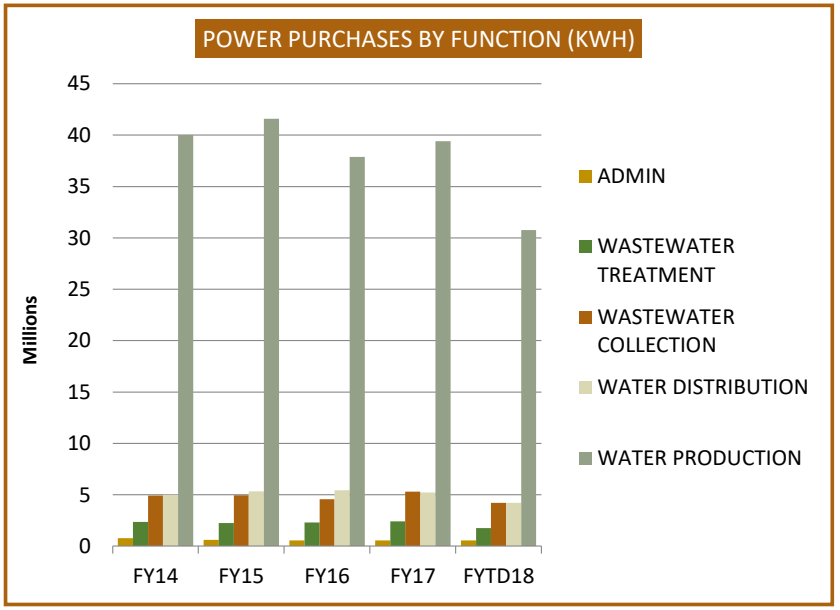


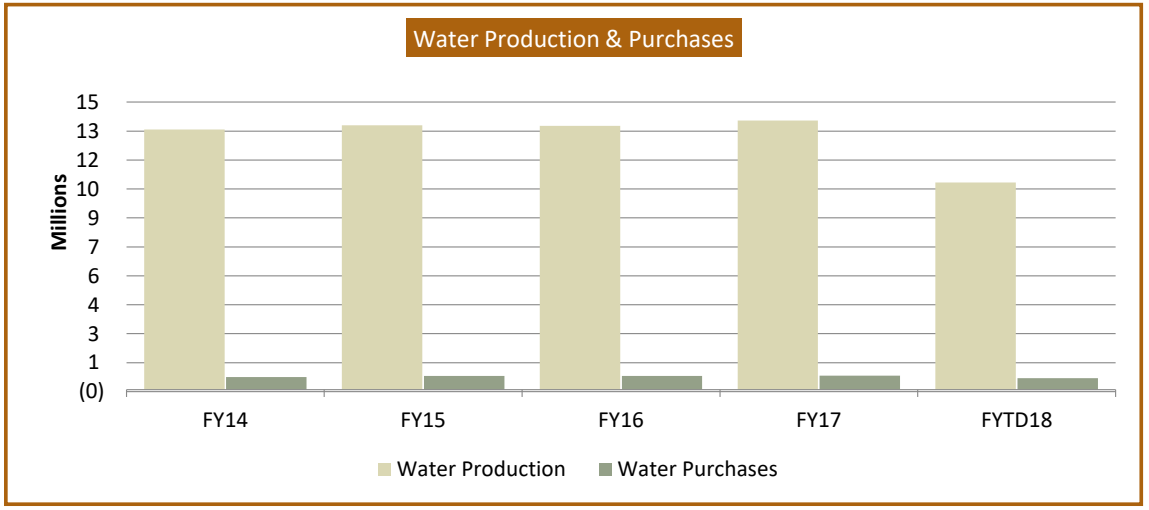
Top Ten Largest Water and Wastewater Customers – June 2018

Water			Wastewater		
Customer Name	FYTD18 Revenues	% of Total	Customer Name	FYTD18 Revenues	% of Total
1) MDI GUAM CORPORATION/LEOPALACE	$985,874	1.94%	1) AIR FORCE DOD	$2,700,025	9.12%
2) PACIFIC ISLANDS CLUB	909,167	1.79%	2) NAVY DOD	1,755,393	5.93%
3) HOTELS OF THE MARIANAS INC	739,619	1.45%	3) HOTELS OF THE MARIANAS INC	790,900	2.67%
4) HYATT	669,134	1.31%	4) HYATT	716,318	2.42%
5) HOTEL NIKKO GUAM	631,022	1.24%	5) HOTEL NIKKO GUAM	674,248	2.28%
6) GUAM REEF HOTEL INC	615,987	1.21%	6) GUAM REEF HOTEL INC	659,228	2.23%
7) SHERATON LAGUNA GUAM RESORT	569,039	1.12%	7) SHERATON LAGUNA GUAM RESORT	608,798	2.06%
8) MDI GUAM CORPORATION/WESTIN	494,833	0.97%	8) MDI GUAM CORPORATION/WESTIN	529,088	1.79%
9) OUTRIGGER GUAM RESORT	478,263	0.94%	9) OUTRIGGER GUAM RESORT	512,420	1.73%
10) GOODWIND DEVELOPMENT CORP	466,501	0.92%	10) GOODWIND DEVELOPMENT CORP	497,524	1.68%
Total	**$6,559,440**	**12.89%**	**Total**	**$9,443,943**	**31.91%**

Power, Water Purchases and Water Production

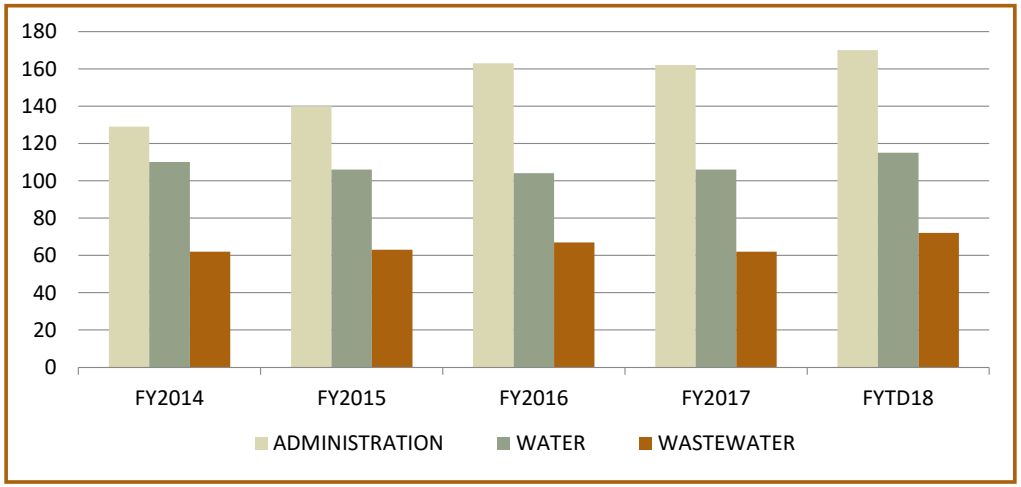




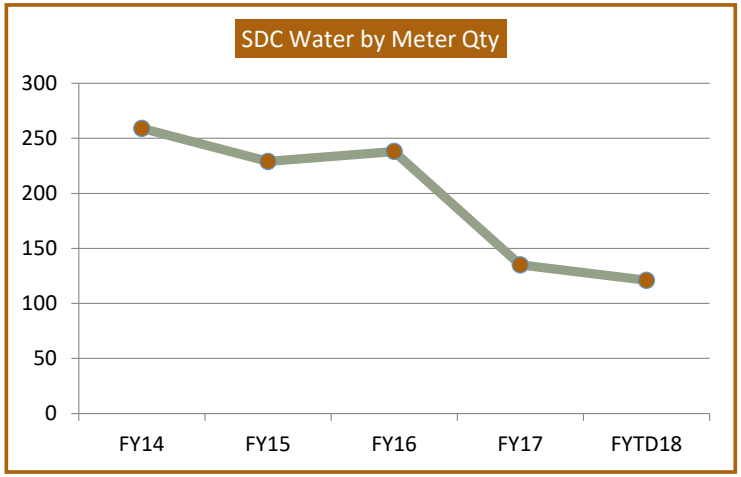


FTE by Major Division

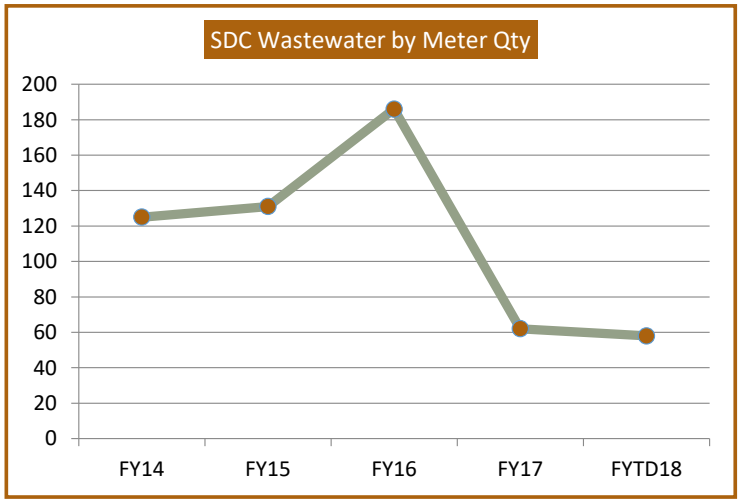
DIVISION	FY2014	FY2015	FY2016	FY2017	FYTD18
ADMINISTRATION	129	140	163	162	170
WATER	110	106	104	106	115
WASTEWATER	62	63	67	62	72
TOTAL NUMBER OF STAFF	**301**	**309**	**334**	**330**	**357**
Gross Salaries & Wages ($000)	15,585	17,590	16,008	16,963	12,488
Water Customers	41,702	41,274	41,858	42,181	42,863
Staff to Customers Ratio	0.72%	0.75%	0.80%	0.78%	0.83%



SDC Water & Wastewater (Meter Quantity)



Actual Meter Sizes (Inches)	FY 2014	FY 2015	FY 2016	FY 2017	FYTD18
5/8 x 3/4	248	220	239	129	113
1	5	5	7	2	1
1 1/2	1	1	1	1	3
2	3	2	4	2	3
3	1	-	1	-	-
4	-	1	-	-	1
6	-	-	-	1	-
8	1	-	-	-	-
10	-	-	-	-	-
Total SDC by Water	259	229	252	135	121



Actual Meter Sizes (Inches)	FY 2014	FY 2015	FY 2016	FY 2017	FYTD18
5/8 x 3/4	115	124	179	58	50
1	4	3	2	-	1
1 1/2	1	1	1	1	3
2	3	2	3	2	3
3	1	-	1	-	-
4	-	1	-	-	1
6	-	-	-	1	-
8	1	-	-	-	-
10	-	-	-	-	-
Total SDC by Wastewater	125	131	186	62	58

GUAM WATERWORKS AUTHORITY
JUNE 30, 2018
FINANCIAL AND RELATED REPORTS
TABLE OF CONTENTS

	SCHEDULES	PAGE
BALANCE SHEET	A	2
INCOME STATEMENT MTD ACTUALS VS MTD BUDGET	B	3
INCOME STATEMENT MTD ACTUALS FY18 VS FY17	C	4
INCOME STATEMENT YTD ACTUALS VS YTD BUDGET	D	5
INCOME STATEMENT YTD ACTUALS FY18 VS FY17	E	6
BOND COMPLIANCE	F	7
SCHEDULE OF CASH RESTRICTED/UNRESTRICTED	G	8
STATEMENT OF CASH FLOWS	H	9
AGING REPORT - GOVERNMENT ACCOUNTS	I	10
SCHEDULE OF SERIES 2013 BOND STATUS	J	11
SCHEDULE OF SERIES 2014 REFUNDED BOND STATUS	K	12
SCHEDULE OF SERIES 2016 BOND STATUS	L	13
SCHEDULE OF SERIES 2017 REFUNDED BOND STATUS	M	14

GUAM WATERWORKS AUTHORITY
Balance Sheet
June 30, 2018

SCHEDULE A

ASSETS	Unaudited June 30, 2018	Audited September 30, 2017	Increase (Decrease)
Current Assets:			
Cash:			
Unrestricted (Schedule G)	1,799,133	4,873,275	(3,074,142)
Restricted Funds (Schedule G)	70,347,742	65,124,400	5,223,342
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of $13,606,332 at Jun 30, 2018 and $12,619,034 at Sep 30, 2017	15,848,312	15,450,733	397,579
Other Receivable	944,691	8,433,446	(7,488,755)
Materials & Supplies Inventory, Net of Allowance for Obsolescence of $457,370 at Jun 30, 2018 and Sep 30, 2017	3,706,640	2,166,557	1,540,083
Total Current Assets	92,646,518	96,048,411	(3,401,893)
Property, Plant and Equipment			
Utility plant in service:			
Water system	328,674,340	327,484,191	1,190,148
Wastewater system	287,213,495	286,394,940	818,556
Non-utility property	19,042,110	18,938,255	103,854
Total property	634,929,945	632,817,387	2,112,558
Less Accumulated Depreciation	(299,786,904)	(286,043,580)	(13,743,324)
Land	1,163,298	1,110,998	52,300
Construction Work in Progress	176,284,494	111,695,887	64,588,607
Property, Plant and Equipment, net	512,590,833	459,580,691	53,010,142
Other noncurrent assets			
Restricted cash (Schedule G)	188,795,816	236,550,002	(47,754,186)
Investments (Schedule G)	53,394,313	41,042,038	12,352,275
Other Prepaid Expenses	714,934	551,128	163,806
Total other noncurrent assets	242,905,064	278,143,169	(35,238,105)
TOTAL ASSETS	848,142,414	833,772,271	14,370,143
Deferred outflows of resources:			
Debt defeasance due to bond refunding	13,443,317	1,695,981	11,747,336
Deferred outflows from pension	4,940,682	4,943,777	(3,095)
Total Assets and Deferred Outflows of Resources	**866,526,412**	**840,412,029**	**26,114,384**
LIABILITIES AND NET ASSETS			
Current Liabilities:			
Current maturities of long-term debt			
-Series 2010 Bond	1,725,000	1,725,000	-
-Series 2014 Refunding	3,475,000	3,475,000	-
-Series 2017 Refunding	295,000	-	295,000
-Notes Payable	3,145,406	3,037,569	107,837
Accounts Payable -Trade	4,342,284	5,390,256	(1,047,972)
Interest Payable	13,083,185	6,656,499	6,426,686
Accrued Payroll and Employee Benefits	1,728,748	2,604,471	(875,724)
Accrued Annual Leave	1,047,784	1,729,291	(681,507)
Current portion of employee annual leave	411,887	567,057	(155,170)
Contractors' Payable	9,094,542	13,950,287	(4,855,745)
Customer and Other Deposits	2,009,799	2,014,435	(4,636)
Other Liabilities	72,817	72,772	45
Total Current Liabilities	40,431,452	41,222,638	(791,186)
Long Term Debt, less current maturities			
Series 2010 Revenue Bond	3,695,000	112,800,000	(109,105,000)
Series 2013 Revenue Bond	172,630,000	172,630,000	-
Series 2014 Refunding	72,520,000	72,520,000	-
Series 2016 Revenue Bond	143,310,000	143,310,000	-
Series 2017 Refunding Bond	107,365,000	-	107,365,000
Unamortized Discount - Bond 2010	-	(1,867,525)	1,867,525
Unamortized Discount - Bond 2013	(1,300,426)	(1,338,751)	38,325
Unamortized Premium - Bond 2014	4,604,734	4,804,694	(199,960)
Unamortized Premium - Bond 2016	16,807,354	17,262,975	(455,621)
Unamortized Premium - Bond 2017	12,956,331	-	12,956,331
Notes Payable	3,157,989	5,533,918	(2,375,930)
Unfunded Ret Liability (GASB 67/68)	49,243,798	49,243,798	-
Employee Annual Leave, Less Current Portion	991,413	783,992	207,421
TOTAL LIABILITIES	626,412,644	616,905,739	9,506,905
Deferred inflows of resources:			
Deferred inflows from pension	268,091	564,514	(296,423)
Total Liabilities and Deferred Inflows of Resources	626,680,735	617,470,253	9,210,482
Net Assets	**239,845,678**	**222,941,776**	**16,903,902**
Total Liabilities, Deferred Inflows of Resources and Net Assets	**866,526,412**	**840,412,029**	**26,114,384**

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited) **SCHEDULE B**
Comparative Budget vs. Actual for the period ending June 30, 2018

	Month to Date		Variance
	Budget June-18	Actual (Unaudited) June-18	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,743,160	5,242,430	(500,730)
Wastewater Revenues	3,228,257	3,119,241	(109,016)
Legislative Surcharge	291,896	255,565	(36,331)
Other Revenues	57,638	32,495	(25,144)
System Development Charge	46,136	32,218	(13,917)
Total Operating Revenues	9,367,087	8,681,948	(685,139)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	721,113	758,606	(37,493)
Power Purchases	1,057,997	1,239,501	(181,504)
Total Utility Costs	1,779,110	1,998,108	(218,998)
Salaries and Wages	1,625,056	1,473,510	151,546
Pension and Benefits	584,558	483,256	101,302
Total Salaries and Benefits	2,209,614	1,956,766	252,848
Capitalized Labor and Benefits	(208,333)	(208,333)	(0)
Net Salaries and Benefits	2,001,281	1,748,433	252,848
Administrative and General Expenses			
Sludge removal	137,014	136,083	931
Chemicals	154,497	153,442	1,055
Materials & Supplies	237,400	283,114	(45,714)
Transportation	91,370	90,766	604
Communications	16,182	13,437	2,745
Claims	17,600	12,196	5,404
Insurance	77,757	77,626	131
Training & Travel	29,314	29,242	72
Advertising	28,910	28,408	502
Regulatory Expense	34,086	32,999	1,087
Bad Debts Provision	110,103	109,723	380
Miscellaneous	82,515	81,981	534
Total Administrative and General Expense	1,016,748	1,049,017	(32,269)
Depreciation Expense	1,528,175	1,528,175	(0)
Contractual Expense			
Audit & Computer Maint.	27,630	27,374	257
Building rental	37,955	36,262	1,693
Equipment rental	59,875	59,417	458
Legal	4,167	600	3,567
Laboratory	10,752	9,925	827
Other	288,363	288,305	58
Total Contractual Expense	428,741	421,883	6,858
Retiree Supp. Annuities and health care costs	240,008	247,607	(7,599)
Contribution to Government of Guam	49,500	49,833	(333)
Total Retiree Benefits	289,508	297,441	(7,932)
Total Operating Expenses	7,043,563	7,043,056	507
Earnings (Loss) from Operations	2,323,524	1,638,892	684,632
Interest Income-2010/13/14/16/17 Series Bond	15,727	287,012	271,285
Interest Income-Other Funds	2,935	52,729	49,794
Interest Income-SDC	2,414	9,767	7,353
Interest Expense- 2010/13/14/16/17 Series Bond	(2,625,587)	(2,180,531)	445,056
Interest Expense- ST BOG	(33,288)	(30,186)	3,102
Federal Expenditures	(51,332)	(69,983)	(18,651)
Loss on Asset Disposal	-	-	-
AFUDC	625,000	625,000	-
Amortization of Discount, Premium and Issuance Costs	(61,861)	(77,542)	(15,681)
Defeasance due to bond refunding	(15,218)	(12,444)	2,775
Deferred outflows from pension	(105,281)	32,592	137,873
Prior Year Adjustment	-	-	-
Total non-operating revenues (expenses)	(2,246,492)	(1,363,585)	882,907
Net Income (Loss) before capital contributions	77,032	275,307	198,275
Capital Contributions			
Grants from US Government	873,108	580,257	(292,851)
Grants from GovGuam & Others	-	-	-
Other Contributions	-	-	-
Total Capital Contributions	873,108	580,257	(292,851)
Change in Net Assets	950,140	855,564	(94,576)
Debt Service Calculation			
Earnings From Operations	2,323,524	1,638,892	
System Development Charge	(46,136)	(32,218)	
Retiree COLA	49,500	49,833	
Interest/Investment Income	2,935	52,729	
Depreciation	1,528,175	1,528,175	
Balance Available for Debt Service per Section 6.12	3,857,998	3,237,411	
Working Capital Reserve Available for Debt Service	932,265	935,321	
Transfer to Working Capital- Debt Service Reserve	(150,000)	-	
Transfer to Working Capital- O&M Reserve	(266,667)	-	
Balance Available for Debt Service inclusive of reserves	4,373,596	4,172,732	
Debt Service			
Principal	433,333	433,333	
Interest	2,063,402	1,794,910	
Total	2,496,736	2,228,243	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.55	1.45	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.75	1.87	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited)
Comparative for the period ending June 30, 2018 and 2017

SCHEDULE C

	Month to Date		Variance
	Actual (Unaudited) June-18	Actual (Audited) June-17	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,242,430	5,331,404	(88,974)
Wastewater Revenues	3,119,241	3,099,528	19,713
Legislative Surcharge	255,565	267,269	(11,704)
Other Revenues	32,495	36,293	(3,798)
System Development Charge	32,218	72,662	(40,444)
Total Operating Revenues	8,681,948	8,807,155	(125,207)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	758,606	609,094	(149,513)
Power Purchases	1,239,501	1,006,355	(233,146)
Total Utility Costs	1,998,108	1,615,449	(382,659)
Salaries and Wages	1,473,510	1,413,608	(59,902)
Pension and Benefits	483,256	490,400	7,144
Total Salaries and Benefits	1,956,766	1,904,009	(52,758)
Capitalized Labor and Benefits	(208,333)	(262,516)	(54,183)
Net Salaries and Benefits	1,748,433	1,641,493	(106,940)
Administrative and General Expenses			
Sludge removal	136,083	140,487	4,404
Chemicals	153,442	174,001	20,559
Materials & Supplies	283,114	128,788	(154,326)
Transportation	90,766	53,744	(37,022)
Communications	13,437	10,884	(2,553)
Claims	12,196	22,151	9,955
Insurance	77,626	90,603	12,977
Training & Travel	29,242	23,055	(6,188)
Advertising	28,408	8,988	(19,420)
Regulatory Expense	32,999	24,134	(8,865)
Bad Debts Provision	109,723	109,700	(23)
Miscellaneous	81,981	71,997	(9,985)
Total Administrative and General Expense	1,049,017	858,530	(190,486)
Depreciation Expense	1,528,175	1,402,038	(126,137)
Contractual Expense			
Audit & Computer Maint.	27,374	76,901	49,527
Building rental	36,262	36,557	295
Equipment rental	59,417	59,374	(43)
Legal	600	414	(186)
Laboratory	9,925	10,627	702
Other	288,305	156,747	(131,558)
Total Contractual Expense	421,883	340,619	(81,264)
Retiree Supp. Annuities and health care costs	247,607	231,895	(15,712)
Contribution to Government of Guam	49,833	49,500	(333)
Total Retiree Benefits	297,441	281,395	(16,045)
Total Operating Expenses	7,043,056	6,139,525	(903,532)
Earnings (Loss) from Operations	1,638,892	2,667,630	(1,028,738)
Interest Income-2010/13/14/16/17 Series Bond	287,012	65,354	221,657
Interest Income-Other Funds	52,729	10,032	42,697
Interest Income-SDC	9,767	1,060	8,708
Interest Expense- 2010/13/14/16/17 Series Bond	(2,180,531)	(2,220,744)	40,213
Interest Expense- ST BOG	(30,186)	(43,736)	13,551
Federal Expenditures	(69,983)	(42,501)	(27,482)
Loss on Asset Disposal	-	(81,105)	81,105
AFUDC	625,000	1,172,241	(547,241)
Amortization of Discount, Premium and Issuance Costs	(77,542)	61,861	(139,403)
Defeasance due to bond refunding	(12,444)	(15,218)	2,775
Deferred outflows from pension	32,592	-	32,592
Prior Year Adjustment	-	(26,756)	26,756
Total non-operating revenues (expenses)	(1,363,585)	(1,119,512)	(244,073)
Net Income (Loss) before capital contributions	275,307	1,548,118	(1,272,811)
Capital Contributions			
Grants from US Government	580,257	1,815,921	(1,235,664)
Grants from GovGuam & Others	-	1,664	(1,664)
Other Contributions	-	-	-
Total Capital Contributions	580,257	1,817,586	(1,237,329)
Change in Net Assets	855,564	3,365,704	(2,510,140)
Debt Service Calculation			
Earnings From Operations	1,638,892	2,667,630	
System Development Charge	(32,218)	(72,662)	
Retiree COLA	49,833	49,500	
Interest/Investment Income	52,729	10,032	
Depreciation	1,528,175	1,402,038	
Balance Available for Debt Service per Section 6.12	3,237,411	4,056,538	
Working Capital Reserve Available for Debt Service	935,321	932,134	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	4,172,732	4,988,672	
Debt Service			
Principal	433,333	420,000	
Interest	1,794,910	1,626,858	
Total	2,228,243	2,046,858	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.98	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.87	2.44	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited)
Comparative Budget vs. Actual for the period ending June 30, 2018

SCHEDULE D

	Year to Date			Variance
	Budget June-18	Encumbered June-18	Actual (Unaudited) June-18	Favorable / (Unfavorable)
OPERATING REVENUES				
Water Revenues	51,688,441		49,186,331	(2,502,110)
Wastewater Revenues	29,054,316		28,772,970	(281,346)
Legislative Surcharge	2,627,064		2,519,484	(107,581)
Other Revenues	518,742		338,107	(180,635)
System Development Charge	415,222		824,645	409,423
Total Operating Revenues	84,303,785		81,641,536	(2,662,249)
OPERATING AND MAINTENANCE EXPENSES				
Water Purchases	6,490,018		6,811,054	(321,036)
Power Purchases	9,521,972		10,931,010	(1,409,038)
Total Utility Costs	16,011,990		17,742,064	(1,730,074)
Salaries and Wages	14,625,503		12,488,306	2,137,197
Pension and Benefits	5,261,025		4,349,365	911,660
Total Salaries and Benefits	19,886,528		16,837,671	3,048,857
Capitalized Labor and Benefits	(1,875,000)		(1,989,280)	114,280
Net Salaries and Benefits	18,011,528		14,848,391	3,163,137
Administrative and General Expenses				
Sludge removal	1,570,626		1,006,993	563,632
Chemicals	1,844,971		1,790,869	54,103
Materials & Supplies	2,061,098	360,675	1,648,010	52,413
Transportation	496,334		494,381	1,953
Communications	145,637		135,398	10,240
Claims	99,900		75,501	24,399
Insurance	942,809		682,859	259,950
Training & Travel	196,328	16,567	118,081	61,680
Advertising	125,190		106,305	18,885
Regulatory Expense	198,777		182,326	16,451
Bad Debts Provision	513,924		987,260	(473,336)
Miscellaneous	874,639		781,726	92,913
Total Administrative and General Expense	9,070,233	377,242	8,009,708	683,283
Depreciation Expense	13,753,572		13,753,575	(3)
Contractual Expense				
Audit & Computer Maint.	722,673	188,385	499,104	35,184
Building rental	341,595		318,119	23,476
Equipment rental	656,371		654,340	2,032
Legal	37,500		5,400	32,100
Laboratory	567,764	147,391	312,148	108,225
Other	1,613,268	-	1,613,010	258
Total Contractual Expense	3,939,171	335,776	3,402,121	201,274
Retiree Supp. Annuities and health care costs	2,160,075		2,140,386	19,689
Contribution to Government of Guam	445,500		448,500	(3,000)
Total Retiree Benefits	2,605,575		2,588,886	16,689
Total Operating Expenses	63,392,070	713,018	60,344,745	2,334,307
Earnings (Loss) from Operations	20,911,716	(713,018)	21,296,792	(327,942)
Interest Income-2010/13/14/16/17 Series Bond	141,539		1,868,579	1,727,040
Interest Income-Other Funds	26,413		313,692	287,279
Interest Income-SDC	21,728		67,119	45,390
Interest Expense- 2010/13/14/16/17 Series Bond	(23,630,285)		(19,716,259)	3,914,026
Interest Expense- ST BOG	(299,594)		(273,483)	26,111
Federal Expenditures	(461,990)		(468,519)	(6,529)
Loss on Asset Disposal	-		-	-
AFUDC	5,625,000		5,625,000	-
Amortization of Discount, Premium and Issuance Costs	(556,747)		(279,669)	277,078
Defeasance due to bond refunding	(136,966)		(111,992)	24,973
Deferred outflows from pension	(947,525)		293,328	1,240,853
Prior Year Adjustment	-		45,808	45,808
Total non-operating revenues (expenses)	(20,218,427)	-	(12,636,397)	7,582,029
Net Income (Loss) before capital contributions	693,289	(713,018)	8,660,394	7,254,087
Capital Contributions				
Grants from US Government	7,857,974		8,243,507	385,533
Grants from GovGuam & Others	-		-	-
Other Contributions	-		-	-
Total Capital Contributions	7,857,974	-	8,243,507	385,533
Change in Net Assets	8,551,263	(713,018)	16,903,901	7,639,621
Debt Service Calculation				
Earnings From Operations	20,911,716		21,296,792	
System Development Charge	(415,222)		(824,645)	
Retiree COLA	445,500		448,500	
Interest/Investment Income	26,413		313,692	
Depreciation	13,753,572		13,753,575	
Balance Available for Debt Service per Section 6.12	34,721,978		34,987,913	
Working Capital Reserve Available for Debt Service	8,390,385		8,389,208	
Transfer to Working Capital- Debt Service Reserve	(1,350,000)		-	
Transfer to Working Capital- O&M Reserve	(2,400,000)		-	
Balance Available for Debt Service inclusive of reserves	39,362,363		43,377,121	
Debt Service				
Principal	3,900,000		3,900,000	
Interest	18,570,620		16,154,190	
Total	22,470,620		20,054,190	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.55		1.74	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.75		2.16	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited)
Comparative for the period ending June 30, 2018 and 2017

SCHEDULE E

	Year to Date ACTUAL (Unaudited) June-18	ACTUAL (Audited) June-17	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	49,186,331	47,982,632	1,203,699
Wastewater Revenues	28,772,970	27,895,749	877,221
Legislative Surcharge	2,519,484	2,405,420	114,064
Other Revenues	338,107	326,636	11,471
System Development Charge	824,645	653,959	170,685
Total Operating Revenues	81,641,536	79,264,396	2,377,141
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	6,811,054	5,481,844	(1,329,210)
Power Purchases	10,931,010	9,057,197	(1,873,813)
Total Utility Costs	17,742,064	14,539,040	(3,203,024)
Salaries and Wages	12,488,306	12,722,476	234,170
Pension and Benefits	4,349,365	4,413,603	64,238
Total Salaries and Benefits	16,837,671	17,136,079	298,408
Capitalized Labor and Benefits	(1,989,280)	(2,362,642)	(373,362)
Net Salaries and Benefits	14,848,391	14,773,437	(74,953)
Administrative and General Expenses			
Sludge removal	1,006,993	1,264,381	257,388
Chemicals	1,790,869	1,566,010	(224,859)
Materials & Supplies	1,648,010	1,159,089	(488,921)
Transportation	494,381	483,699	(10,682)
Communications	135,398	97,954	(37,443)
Claims	75,501	199,359	123,858
Insurance	682,859	815,424	132,566
Training & Travel	118,081	207,491	89,410
Advertising	106,305	80,890	(25,416)
Regulatory Expense	182,326	217,210	34,884
Bad Debts Provision	987,260	987,297	37
Miscellaneous	781,726	647,969	(133,757)
Total Administrative and General Expense	8,009,708	7,726,774	(282,934)
Depreciation Expense	13,753,575	12,618,341	(1,135,234)
Contractual Expense			
Audit & Computer Maint.	499,104	692,109	193,005
Building rental	318,119	329,009	10,890
Equipment rental	654,340	534,365	(119,974)
Legal	5,400	3,726	(1,674)
Laboratory	312,148	95,639	(216,510)
Other	1,613,010	1,410,724	(202,286)
Total Contractual Expense	3,402,121	3,065,572	(336,549)
Retiree Supp. Annuities and health care costs	2,140,386	2,087,059	(53,327)
Contribution to Government of Guam	448,500	445,500	(3,000)
Total Retiree Benefits	2,588,886	2,532,559	(56,327)
Total Operating Expenses	60,344,745	55,255,723	(5,089,022)
Earnings (Loss) from Operations	21,296,792	24,008,673	(2,711,881)
Interest Income-2010/13/14/16/17 Series Bond	1,868,579	588,189	1,280,390
Interest Income-Other Funds	313,692	90,286	223,405
Interest Income-SDC	67,119	9,538	57,581
Interest Expense- 2010/13/14/16/17 Series Bond	(19,716,259)	(19,986,694)	270,434
Interest Expense- ST BOG	(273,483)	(393,626)	120,144
Federal Expenditures	(468,519)	(382,513)	(86,006)
Loss on Asset Disposal	-	(729,941)	729,941
AFUDC	5,625,000	10,550,169	(4,925,169)
Amortization of Discount, Premium and Issuance Costs	(279,669)	556,746	(836,416)
Defeasance due to bond refunding	(111,992)	(136,966)	24,973
Deferred outflows from pension	293,328	-	293,328
Prior Year Adjustment	45,808	(240,801)	286,609
Total non-operating revenues (expenses)	(12,636,397)	(10,075,612)	(2,560,785)
Net Income (Loss) before capital contributions	8,660,394	13,933,060	(5,272,666)
Capital Contributions			
Grants from US Government	8,243,507	16,343,293	(8,099,786)
Grants from GovGuam & Others	-	14,979	(14,979)
Other Contributions	-	-	-
Total Capital Contributions	8,243,507	16,358,273	(8,114,766)
Change in Net Assets	16,903,901	30,291,333	(13,387,432)
Debt Service Calculation			
Earnings From Operations	21,296,792	24,008,673	
System Development Charge	(824,645)	(653,959)	
Retiree COLA	448,500	445,500	
Interest/Investment Income	313,692	90,286	
Depreciation	13,753,575	12,618,341	
Balance Available for Debt Service per Section 6.12	34,987,913	36,508,841	
Working Capital Reserve Available for Debt Service	8,389,208	8,389,208	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	43,377,121	44,898,048	
Debt Service			
Principal	3,900,000	3,780,000	
Interest	16,154,190	14,641,726	
Total	20,054,190	18,421,726	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.74	1.98	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	2.16	2.44	

SCHEDULE F

Bond Compliance

		($$$) Per Indenture	As of 6/30/18 ($$$) Bond 2013/2014/2016/2017
• Operation and Maintenance Fund-BOG	*Equivalent to 55 days of the annual O&M budget less depreciation*	$10.5M	$10.5M
• Bond Reserve Fund - US Bank	*Fully funded- Principal and Interest (Bond Series 2010, 2013, 2014 Refunding and 2016)*	$34.9M	$34.9M
• Operation, Maintenance, Renewal and Replacement Reserve Fund-BOG Trust	*Equivalent to 1/4 of the annual O&M budget & CIP budget to be funded in 5 years ($2M/year)*	$17.4M	$17.4M
• Capital Improvement Fund	*Balance remaining in the Revenue Fund after the foregoing deposits*	$3.9K	$5.6K

GUAM WATERWORKS AUTHORITY
Restricted and Unrestricted Cash Summary
FY 2018

SCHEDULE G

Description	Unaudited June 30, 2018	Audited September 30, 2017	Increase (Decrease)
UNRESTRICTED			
Change Fund	2,000	2,000	-
Petty Cash	5,000	5,000	-
BOG - Deposit Accounts	1,792,133	4,866,275	(3,074,142)
Total Unrestricted	1,799,133	4,873,275	(3,074,142)
RESTRICTED			
Collection Accounts	174,566	163,466	11,100
BOG Deposit Accounts	7,525,543	6,051,064	1,474,479
BP Deposit Accounts	1,005,485	944,282	61,203
BOG Revenue Trust Fund	6,339,869	7,782,227	(1,442,358)
BOG O & M Reserve	13,613,725	13,516,540	97,184
BOG Debt Service Reserve	11,298,491	11,217,733	80,757
BOG CAPEX Fund	19,528,484	15,462,869	4,065,615
	59,486,162	55,138,182	4,347,980
BOG SDC Deposit	2,111,580	1,486,219	625,362
BOG SDC CDs	8,750,000	8,500,000	250,000
Total Restricted	70,347,742	65,124,400	5,223,342
Reserve Funds			
BOG Series 05 OMRRRF Fund	17,423,213	17,423,213	-
BOG Series 13 Construction Fund	42,931,804	74,461,765	(31,529,961)
BOG Series 14 Refunding Construction Fund	739,052	771,281	(32,229)
BOG Series 16 Construction Fund	120,014,245	132,811,449	(12,797,203)
BOG Series 16 Cap Int Fund	-	1,782,982	(1,782,982)
BOG Series 17 Refunding Construction Fund	7,687,502	9,299,311	(1,611,809)
Total Reserves - Held by Trustee	188,795,816	236,550,002	(47,754,186)
USB Series 2013 Debt Service Fund	4,685,886	2,336,754	2,349,132
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Fund	5,345,907	1,796,559	3,549,349
USB Series 2014 Refunding Debt Service Reserve Fund	7,855,490	7,707,602	147,888
USB Series 2016 Debt Service Fund	3,591,204	130	3,591,074
USB Series 2016 Debt Service Reserve Fund	7,594,594	7,582,725	11,869
USB Series 2010 Debt Service Fund	1,861,213	2,020,121	(158,908)
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	2,861,872	-	2,861,872
Total Investments	53,394,313	41,042,038	12,352,275
Total Restricted and Unrestricted Cash	314,337,004	347,589,716	(33,252,711)

SCHEDULE H

Guam Waterworks Authority
Statement of Cash Flows (Unaudited)
FY 2018

	YTD Jun-18
Increase (decrease) in cash	
Cash flows from operating activities:	
Cash received from trade and others	80,698,892
Cash payments to suppliers/contractors for goods and services	(30,713,510)
Cash payments to employees for services	(19,235,584)
Net cash provided by operating activities	30,749,797
Cash flows from capital and related financing activities:	
Contributed capital received (grants)	14,816,957
Acquisition of utility plant	(66,199,445)
Repayment of Long Term Debt	12,761,600
Interest expense	(15,883,673)
Net cash provided by (used in) capital and related financing activities	(54,504,561)
Cash flows from investing activities:	
Transfers from (to) restricted fund	18,431,232
Interest income received	2,249,390
Net cash provided by investing activities	20,680,622
Net increase (decrease) in cash	(3,074,141)
Unrestricted cash at beginning of the period	4,873,275
Unrestricted cash at end of period	1,799,133
Reconciliation of operating loss to net cash provided by operating activities:	
Operating Income (loss)	21,296,792
Adjustments to reconcile to net cash provided by operating activities:	
Depreciation expense	13,753,575
Other Expense/income	693,932
(Increase) decrease in assets:	
Accounts receivable	(938,053)
Materials and supplies inventory	(1,540,083)
Other Assets	(163,806)
Increase (decrease) in liabilities:	
Accounts payable, Contractors, Retention & Escrow Deposit	(842,988)
Accrued payroll	(1,504,980)
Customer deposits	(4,591)
Net cash provided by operating activities	30,749,797

Guam Waterworks Authority
Accounts Receivable - Government
As of June 30, 2018

SCHEDULE I

		AGING				
Customer Name	**No of Accounts**	**Current Balance**	**31-60 days**	**61-90 days**	**91-120 days**	**Over 120 days**	**Outstanding Bal.**
Guam Int'l Airport Authority	4	42,613	19,076	42,341	38,927	149,435	292,391
Guam Memorial Hospital Authority	3	35,244	38,480	36,415	-	-	110,138
Port Authority of Guam	3	43,219	42,051	4,824	-	-	90,094
Guam Community College	1	5,724	4,920	4,590	11,997	27,566	54,798
Guam Power Authority	23	42,013	-	-	-	-	42,013
University of Guam	2	12,983	-	-	-	-	12,983
Guam Housing & Urban Renewal Authority	6	1,556	-	-	-	-	1,556
Guam Housing Corporation	1	31	-	-	-	-	31
AUTONOMOUS AGENCIES	**43**	**183,384**	**104,527**	**88,170**	**50,924**	**177,001**	**604,005**
Department of Parks & Recreation	17	68,584	60,647	41,400	46,439	483,729	700,799
Department of Education	50	196,716	220,515	121,060	10,484	127,532	676,307
Department of Corrections	7	97,867	40,183	39,103	20,316	-	197,470
Department of Public Health & Social Services	5	2,473	1,505	635	2,481	101,190	108,284
Mayors' Council of Guam	44	11,144	7,761	123	-	-	19,028
Guam Fire Department	10	7,565	-	-	-	-	7,565
Department of Youth Affairs	2	78	23	23	650	3,247	4,022
Department of Agriculture	3	2,216	1,398	2	-	-	3,617
Guam Police Department	5	3,456	-	-	-	-	3,456
Sanctuary Inc.	1	2,917	-	-	-	-	2,917
Department of Public Works	11	2,372	-	-	-	-	2,372
Division of Senior Citizens, DPH&SS	2	353	164	159	28	-	703
Department of Mental Health & Substance Abuse	1	341	-	-	-	-	341
Guam Veterans' Affairs Office	2	262	-	-	-	-	262
Guam Public Library	4	229	-	-	-	-	229
The Office of the Dededo Mayor	1	208	-	-	-	-	208
Guam Energy Office	1	75	-	-	-	-	75
Merizo Mayor	1	30	24	-	-	-	54
Guam Solid Waste Authority	1	23	-	-	-	-	23
							-
LINE AGENCIES	**168**	**396,910**	**332,220**	**202,506**	**80,399**	**715,697**	**1,727,732**
TOTAL June 30, 2018	**211**	**580,294**	**436,747**	**290,676**	**131,323**	**892,698**	**2,331,737**
TOTAL September 30, 2017	**253**	**715,578**	**442,522**	**169,120**	**72,476**	**396,347**	**1,796,043**
% INCREASE/ (DECREASE)	**-17%**	**-19%**	**-1%**	**72%**	**81%**	**125%**	**30%**

GUAM WATERWORKS AUTHORITY
2013 Series Bond Project Status
As of June 30, 2018

SCHEDULE J

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 06/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 06/30/18
Santa Rita Springs Booster Pump Rehab Phase II	$ 100,000	$ 100,000	90,163	9,837	$ 100,000	$ -	$ 9,837
"A" Series Well Transmission Line	$ 400,000	$ 400,000	369,846	(0)	$ 369,846	$ 30,154	$ 30,154
Water Booster Pump Station	$ 6,000,000	$ 1,861,000	1,656,428	23,536	$ 1,679,964	$ 181,036	$ 204,572
Meter Replacement Program		$ 999,000	996,532	-	$ 996,532	$ 2,468	$ 2,468
Barrigada Tank Repair/Replacement	$ 6,000,000	$ 4,987,000	4,924,959	62,041	$ 4,987,000	$ 0	$ 62,041
Leak Detection	$ 100,000	$ 20,000	16,916	-	$ 16,916	$ 3,084	$ 3,084
Potable Water System Planning	$ 800,000	$ 624,000	603,390	20,610	$ 624,000	$ -	$ 20,610
Implement Ground Water Rule	$ 1,000,000	$ 1,000,000	1,000,000	-	$ 1,000,000	$ -	$ -
Deep Well Rehabilitation	$ 800,000	$ 200,000	189,930	10,071	$ 200,000	$ (0)	$ 10,070
New Deep Wells at Down Hard	$ 2,000,000	$ 810,000			$ -	$ 810,000	$ 810,000
Master Meters	$ 4,000,000	$ 784,000	531,188	180,872	$ 712,060	$ 71,940	$ 252,812
Ugum Water Treatment Plant Intake	$ 1,000,000	$ 982,000	578,858	280,943	$ 859,801	$ 122,199	$ 403,142
Water Wells	$ 4,200,000	$ 4,200,000	2,284,474	745,555	$ 3,030,029	$ 1,169,971	$ 1,915,527
Water Distribution System	$ 12,000,000	$ 11,151,000	6,924,172	3,988,281	$ 10,912,453	$ 238,547	$ 4,226,828
Pressure Zone Realignment /	$ 1,000,000	$ 431,000	336,036	1,074	$ 337,110	$ 93,890	$ 94,964
Mechanical/Electrical Equipment	$ 430,000	$ 430,000	328,686	98,112	$ 426,798	$ 3,202	$ 101,314
Water Reservoir Internal/External	$ 800,000	$ -			$ -	$ -	$ -
Water System Reservoirs 2005 Improvements	$ 21,000,000	$ 13,878,000	10,897,321	2,980,680	$ 13,878,000	$ (0)	$ 2,980,679
Ugum Water Treatment Plant Reservoir	$ 7,000,000	$ 90,000			$ -	$ 90,000	$ 90,000
Agana Heights & Chaot Tanks	$ 4,500,000	$ 3,280,000	241,603	1,088,684	$ 1,330,287	$ 1,949,713	$ 3,038,397
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 13,500,000	$ 11,605,000	8,464,563	3,140,437	$ 11,605,000	$ 0	$ 3,140,437
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 8,000,000	$ -			$ -	$ -	$ -
Assessment of malojloj Elevetad & Yigo Elevated	$ 500,000	$ 485,117	461,813	23,304	$ 485,117	$ -	$ 23,304
Fire Hydrant Replacement Program	$ -	$ -			$ -	$ -	$ -
Wastewater System Planning	$ 800,000	$ 651,000	550,968	99,933	$ 650,900	$ 100	$ 100,032
Lift Station Upgrades	$ 5,000,000	$ 946,000	562,785	363	$ 563,149	$ 382,852	$ 383,215
Wastewater Collection System Repl/Rehab	$ 6,500,000	$ 780,000	578,438	81,875	$ 660,314	$ 119,687	$ 201,562
Baza Gardens STP Replacement		$ 3,114,883	1,712,862	1,402,007	$ 3,114,869	$ 15	$ 1,402,021
Facilities Plan/Design for Umatac-Merizo WWTP		$ 473,000	341,226	30,473	$ 371,699	$ 101,301	$ 131,774
Agat/Santa Rita STP Replacement	$ 19,000,000	$ 67,200,000	47,621,200	19,262,992	$ 66,884,192	$ 315,808	$ 19,578,800
Agana WWTP Interim Measures		$ 673,000	611,247	61,753	$ 673,000	$ (0)	$ 61,753
Umatac Merizo Replacement	$ 2,000,000	$ -			$ -	$ -	$ -
Wastewater Pump Station Electrical Upgrade	$ 620,000	$ 620,000	91,348	8,513	$ 99,861	$ 520,139	$ 528,652
Electrical Upgrade - Water Wells	$ 1,500,000	$ 1,500,000	1,480,769	19,230	$ 1,500,000	$ 0	$ 19,231
Electrical Upgrade - Water Booster	$ 325,000	$ 2,000			$ -	$ 2,000	$ 2,000
Electrical Upgrade -Water Booster	$ 350,000	$ 200,000	977	-	$ 977	$ 199,023	$ 199,023
Electrical Upgrade - Other Water	$ 250,000	$ 150,000	60,700	-	$ 60,700	$ 89,300	$ 89,300
SCADA Improvements – Phase 3	$ 1,850,000	$ 923,000	445,447	276,912	$ 722,359	$ 200,641	$ 477,553
SCADA Improvements – Phase 4	$ 500,000	$ -			$ -	$ -	$ -
Laboratory Modernization	$ 1,500,000	$ 1,173,000	1,163,037	8,428	$ 1,171,465	$ 1,535	$ 9,963
Land Survey	$ 2,000,000	$ 2,000	1,038	15	$ 1,053	$ 948	$ 963
General Plant Improvements / Water	$ 2,000,000	$ 2,600,000	1,265,043	1,176,695	$ 2,441,737	$ 158,263	$ 1,334,957
Allowance for COI							$ 275,005
Interest Earned							$ 715,759
Total Construction Fund (2013 Series Revenue Bond)	**$ 139,325,000**	**$ 139,325,000**	**$ 97,383,960**	**$ 35,083,227**	**$ 132,467,187**	**$ 6,857,813**	**$ 42,931,804**

PUC's Docket 14-04 dated February 25, 2014

GUAM WATERWORKS AUTHORITY
2014 Series Refunded Bond Project Status
As of June 30, 2018

SCHEDULE K

PROJECT NAME	ORIGINAL APPROVED PROJECT	ADJUSTED PROJECT COST	EXPENDITURES AS OF 06/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	20% PUC AS OF 06/30/18	Construction fund balance AS OF 06/30/18
Agana Treatment Plant	$ 10,475,000	$ 11,065,512	11,065,512	$ -	$ 11,065,512	$ (0)	$ 2,095,000	$ (0)
Agana Outfall	$ 5,030,000	$ 10,127,198	10,127,198	$ -	$ 10,127,198	$ 0	$ 1,006,000	$ 0
Northern District (Outfall)	$ 4,700,000	$ 10,251,423	10,251,423	$ -	$ 10,251,423	$ 0	$ 940,000	$ 0
Northern District WWTP Upgrade		$ 173,681	173,681		$ 173,681	$ -		$ -
Northern Treatment Plant		$ -	-		$ -	$ -		$ -
Baza Gardens Wastewater Treatment Plant Upgrade	$ 500,000	$ 297,177	297,177	$ -	$ 297,177	$ (0)	$ 100,000	$ (0)
Interim Disinfection Facilities	$ 581,000	$ 3,437,311	3,408,599	$ 28,712	$ 3,437,311	$ (0)	$ 116,200	$ 28,712
Electrical Protection	$ 1,000,000	$ 1,512,483	1,512,483.3	$ -	$ 1,512,483	$ (0)	$ 200,000	$ (0)
Well Vulnerability Reduction	$ 600,000	$ 185,522	185,522	$ -	$ 185,522	$ 0	$ 120,000	$ 0
Old Agat Wastewater Collection (I/I Reduction)	$ 2,155,000	$ 1,931,659	1,931,659	$ -	$ 1,931,659	$ (0)	$ 431,000	$ (0)
Chaot WW Pump Station/Collection System	$ 410,000	$ 399,120	399,120	$ -	$ 399,120	$ -	$ 82,000	$ -
Lift Station Upgrades	$ 230,000	$ 149,895	149,895	$ -	$ 149,895	$ 0	$ 46,000	$ 0
Collection Line Upgrades	$ 200,000	$ 62,755	62,755	$ -	$ 62,755	$ 0	$ 40,000	$ 0
"A" Well Transmission Line	$ 2,413,000	$ 3,833,175	3,818,088	$ 15,087	$ 3,833,175	$ (0)	$ 482,600	$ 15,087
Santa Rita Springs - Booster Pump Rehab.	$ 648,000	$ 306,841	306,841	-	$ 306,841	$ (0)	$ 129,600	$ (0)
Fena Bypass Transmission line		$ 160,913	160,913	$ -	$ 160,913	$ (0)	$ -	$ (0)
Storage Additions	$ 950,000	$ -			$ -	$ -	$ 190,000	$ -
Booster Station Upgrades	$ 390,000	$ 66,734	66,734	$ -	$ 66,734	$ -	$ 78,000	$ -
Mangilao Tank Repair	$ 800,000	$ 398,367	397,933	$ 434	$ 398,367	$ (0)	$ 160,000	$ 434
Ugum Tank Replacement	$ 2,500,000	$ -			$ -	$ -	$ 500,000	$ -
Ugum WTPlant Refurbishment ($1.724,970EPA)		$ 6,588,473	6,531,525	$ 56,949	$ 6,588,473	$ (0)		$ 56,948
Barrigada Tank Repair/Replacement	$ 3,000,000	$ 65,019	65,019	$ -	$ 65,019	$ 0	$ 600,000	$ 0
Water Reservoir Condition Assessment		$ 1,250,000	1,249,227.16	$ 772	$ 1,250,000	$ 0	$ -	$ 773
EarthTech Well Buyout	$ 5,000,000	$ 5,975,000	5,975,000	$ -	$ 5,975,000	$ -	$ 1,000,000	$ -
Water Wastewater Master Plan	$ 4,900,000	$ 4,881,308	4,881,308	$ -	$ 4,881,308	$ 0	$ 980,000	$ 0
Laboratory Modernization	$ 800,000	$ 135,055	135,055	$ -	$ 135,055	$ 0	$ 160,000	$ 0
Land Survey	$ 800,000	$ 577,836	576,134	$ 1,702	$ 577,836	$ 0	$ 160,000	$ 1,702
Ground Water Disinfection		$ -				$ -		$ -
GWUDI Study		$ 262,234	260,430	1,804	$ 262,234	$ -		$ 1,804
Contingency	$ 12,276,023	$ 154	-	$ -	$ -	$ -		$ 732
Vehicles	$ 1,100,000	$ 1,280,000	2,130,305	$ (850,305)	$ 1,280,000	$ -	$ 220,000	$ -
Generation Equipment	$ 700,000	$ 880,000	2,712	$ 877,288	$ 880,000	$ 0		$ 27,033
Leak Detection/Line Replacement	$ 8,200,000	$ 5,988,494	5,988,494	$ -	$ 5,988,494	$ -	$ 1,640,000	$ -
Automated Meter Reading	$ 12,572,063	$ 17,468,359	16,870,522	$ 537,157	$ 17,468,359.32	$ 0	$ 2,514,413	$ 597,837
Total Construction Fund (2014 Series Refunded Revenue Bond)	$ 82,930,086	$ 89,711,698	$ 88,981,263	$ 669,600	$ 89,711,543	$ 1	$ 13,990,813	$ 731,063
Interest Earned	$ 6,781,612	$ (0)				$ (0)		$ 7,989
Total Project Cost Funding	**$ 89,711,698**	**$ 89,711,698**	**$ 88,981,263**	**$ 669,600**	**$ 89,711,543**	**$ 1**	**$ 13,990,813**	**$ 739,052**

GUAM WATERWORKS AUTHORITY
2016 Series Bond Project Status
As of June 30, 2018

SCHEDULE L

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 06/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 06/30/18
Water Booster Pump Station	$ 4,139,000	$ 4,139,000			$ -	$ 4,139,000	$ 4,139,000
Meter Replacement Program	$ 4,501,000	$ 4,501,000	64,531	85,469.44	$ 150,000	$ 4,351,000	$ 4,436,469
Barrigada Tank Repair/Replacement	$ 1,013,000	$ 1,013,000		-	$ -	$ 1,013,000	$ 1,013,000
Leak Detection	$ 1,180,000	$ 1,180,000		-	$ -	$ 1,180,000	$ 1,180,000
Potable Water System Planning	$ 2,276,000	$ 2,276,000	260,131	616,163.05	$ 876,294	$ 1,399,706	$ 2,015,869
Deep Well Rehabilitation	$ 250,000	$ 250,000		110,013.00	$ 110,013	$ 139,987	$ 250,000
New Deep Wells at Down Hard	$ 1,190,000	$ 1,190,000			$ -	$ 1,190,000	$ 1,190,000
Master Meters	$ 3,616,000	$ 3,616,000	151,539	-	$ 151,539	$ 3,464,461	$ 3,464,461
Ugum Water Treatment Plant Intake	$ 18,000	$ 18,000			$ -	$ 18,000	$ 18,000
Water Wells	$ 2,500,000	$ 2,500,000			$ -	$ 2,500,000	$ 2,500,000
Water Distribution System	$ 2,049,000	$ 49,000			$ -	$ 49,000	$ 49,000
Pressure Zone Realignment /	$ 1,141,000	$ 1,141,000		668,355.20	$ 668,355	$ 472,645	$ 1,141,000
Mechanical/Electrical Equipment	$ 100,000	$ 100,000			$ -	$ 100,000	$ 100,000
Water Reservoir Internal/External	$ 800,000	$ 800,000			$ -	$ 800,000	$ 800,000
Water System Reservoirs 2005 Improvements	$ 42,350,000	$ 28,350,000	2,008,486	12,741,864.67	$ 14,750,350	$ 13,599,650	$ 26,341,514
Ugum Water Treatment Plant Reservoir	$ 6,410,000	$ -			$ -	$ -	$ -
Water Audit Program & Water Loss Control Plan	$ 1,000,000	$ 1,000,000				$ 1,000,000	$ 1,000,000
Agana Heights & Chaot Tanks	$ 1,220,000	$ 1,220,000		500,000.00	$ 500,000	$ 720,000	$ 1,220,000
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 1,895,000	$ 1,895,000		1,822,132.80	$ 1,822,133	$ 72,867	$ 1,895,000
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 10,500,000	$ 7,409,830		7,300,000.00	$ 7,300,000	$ 109,830	$ 7,409,830
Fire Hydrant Replacement Program	$ 2,000,000	$ 2,000,000			$ -	$ 2,000,000	$ 2,000,000
Wastewater System Planning	$ 349,000	$ 349,000	193,899	119,084.26	$ 312,983	$ 36,017	$ 155,101
Lift Station Upgrades	$ 2,404,000	$ 2,404,000	222,568	42,186.67	$ 264,755	$ 2,139,245	$ 2,181,432
Wastewater Collection System Repl/Rehab	$ 2,920,000	$ 2,920,000	911	554,566.54	$ 555,478	$ 2,364,522	$ 2,919,089
Baza Gardens STP Replacement	$ 16,700,000	$ 29,400,170	11,310,394	17,895,388.58	$ 29,205,782	$ 194,388	$ 18,089,776
Facilities Plan/Design for Umatac-Merizo WWTP	$ 527,000	$ 527,000	239,045	13,060.42	$ 252,105	$ 274,895	$ 287,955
Agat/Santa Rita STP Replacement	$ 3,000,000	$ 3,000,000	1,077,404	467,684.07	$ 1,545,088	$ 1,454,912	$ 1,922,596
Agana WWTP Interim Measures	$ 827,000	$ 827,000			$ -	$ 827,000	$ 827,000
Umatac Merizo Replacement	$ 8,000,000	$ 20,800,000	3,548,815	17,053,439.69	$ 20,602,254	$ 197,746	$ 17,251,185
Wastewater Pump Station Electrical Upgrade	$ 100,000	$ 100,000			$ -	$ 100,000	$ 100,000
Electrical Upgrade - Water Wells	$ 650,000	$ 650,000			$ -	$ 650,000	$ 650,000
Electrical Upgrade - Water Booster	$ 323,000	$ 323,000			$ -	$ 323,000	$ 323,000
SCADA Improvements – Phase 3	$ 1,177,000	$ 1,177,000	18,000	599,496.51	$ 617,497	$ 559,503	$ 1,159,000
SCADA Improvements – Phase 4	$ 6,500,000	$ 6,500,000		2,883,117.85	$ 2,883,118	$ 3,616,882	$ 6,500,000
Laboratory Modernization	$ 1,127,000	$ 1,127,000	1,127,000	-	$ 1,127,000	$ -	$ -
Land Survey	$ 1,998,000	$ 1,998,000	130,370	1,130,153.37	$ 1,260,524	$ 737,476	$ 1,867,630
General Plant Improvements / Water	$ 2,769,463	$ 2,769,463	687,927	855,833.30	$ 1,543,760	$ 1,225,703	$ 2,081,536
Information Technology Integration Improvements	$ 500,000	$ 500,000	244,068	-	$ 244,068	$ 255,932	$ 255,932
Interest Earned		$ -					$ 1,279,868
Total Construction Fund (2016 Series Revenue Bond)	**$ 140,019,463**	**$ 140,019,463**	**$ 21,285,086**	**$ 65,458,009**	**$ 86,743,095**	**$ 53,276,368**	**$ 120,014,245**

GUAM WATERWORKS AUTHORITY
2010 Series Bond Project Status
As of June 30, 2018

SCHEDULE M

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 06/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 06/30/18
Ground Water Disinfection	$ -	$ 500,000	$ 438,141	$ 61,859	$ 500,000	$ 0	$ 61,859
"A" Series Well Transmission Line	$ 600,000	$ 518,144	$ 474,434	$ 1,274	$ 475,709	$ 42,435	$ 43,710
Water Booster Pump Station	$ 500,000	$ 500,000	$ 418,844	$ 81,156	$ 500,000	$ (0)	$ 81,156
Meter Replacement Program	$ 2,500,000	$ 10,300,000	$ 10,255,079	$ 18,549	$ 10,273,628	$ 26,372	$ 44,921
Barrigada Tank Repair/Replacement	$ -	$ 5,450,000	$ 5,442,302	$ 7,698	$ 5,450,000	$ 0	$ 7,698
Leak Detection		$ 200,000	$ -	$ 200,000	$ 200,000	$ -	$ 200,000
Potable Water System Planning	$ 200,000	$ 200,000	$ 180,927	$ 19,073	$ 200,000	$ -	$ 19,073
Implement Ground Water Rule		$ 1,700,000	$ 1,499,464	$ 200,535	$ 1,700,000	$ 1	$ 200,536
Brigade II (Ugum Lift) BPS Upgrade	$ 1,200,000	$ 1,700,000	$ 251,134	$ 86,760	$ 337,895	$ 1,362,105	$ 1,448,866
Deep Well Rehabilitation	$ 548,000	$ 548,000	$ 548,000	$ -	$ 548,000	$ -	$ -
New Deep Wells at Down Hard	$ 3,773,000	$ 638,252	$ 485,743	$ -	$ 485,743	$ 152,509	$ 152,509
Rehabilitation of Asan Springs	$ 900,000	$ 900,000	$ 188,771	$ 152,068	$ 340,838	$ 559,162	$ 711,229
Master Meters	$ 1,600,000	$ 1,600,000	$ 1,421,267	$ 68,690	$ 1,489,957	$ 110,043	$ 178,733
Ugum Water Treatment Plant Intake	$ 3,670,000	$ 700,000	$ 543,615	$ 156,385	$ 700,000	$ -	$ 156,385
Water Wells	$ 2,000,000	$ -	$ -		$ -	$ -	$ -
Water Distribution System	$ 384,000	$ 3,174,748	$ 3,174,748	$ -	$ 3,174,748	$ (0)	$ (0)
Pressure Zone Realignment /	$ 3,550,000	$ -	$ -		$ -	$ -	$ -
Northern System Water Distribution	$ 2,725,000	$ -	$ -	$ -	$ -	$ -	$ -
Central Water Distribution System 2005	$ 1,200,000	$ 900,000	$ 730,182	$ 44,820	$ 775,002	$ 124,998	$ 169,818
Southern Water Distribution System	$ 1,800,000	$ -	$ -		$ -	$ -	$ -
Mechanical/Electrical Equipment	$ 1,360,000	$ 1,200,000	$ 1,079,495	$ 120,505	$ 1,200,000	$ (0)	$ 120,505
Water Reservoir Internal/External	$ 500,000	$ 2,000,000	$ 1,083,817	$ 425,567	$ 1,509,384	$ 490,616	$ 916,183
Water Reservoir Internal/External	$ 2,400,000	$ -	$ -		$ -	$ -	$ -
Water System Reservoirs 2005 Improvements	$ 11,697,000	$ 1,050,000	$ 1,050,000		$ 1,050,000	$ 0	$ 0
Distribution System Upgrades	$ 3,182,000	$ 474,160	$ 456,678	$ 17,481	$ 474,160	$ 0	$ 17,482
Ugum Water Treatment Plant Reservoir	$ 3,672,000	$ -	$ -		$ -	$ -	$ -
Water Audit Program & Water Loss Control Plan		$ 100,000	$ 15,031	$ 63,428	$ 78,459	$ 21,541	$ 84,970
Production Plan / Reduce Navy Purchases		$ 100,000	$ 94,286	$ 5,714	$ 100,000	$ -	$ 5,714
Hydraulic Asessment of Tank		$ 500,000	$ 497,004	$ 2,996	$ 500,000	$ -	$ 2,996
Agana Heights & Chaot Tanks		$ 4,700,000	$ 4,350,014	$ 349,986	$ 4,700,000	$ -	$ 349,986
Tank Major Repair Yigo#1 Mangilao#2 Agat#2		$ 1,900,000	$ 1,750,355	$ 97,659	$ 1,848,013	$ 51,987	$ 149,645
Tank Major Repair Yigo#1 Mangilao#2 Agat#2		$ -			$ -	$ -	$ -
Assessment of malojloj Elevetad & Yigo Elevated		$ 200,000	$ 200,000	$ -	$ 200,000	$ -	$ -
Public Water System Asser Inventory/Condition Assesment		$ 100,000	$ 98,414	$ 1,586	$ 100,000	$ -	$ 1,586
Public Water System GIS & Mapping		$ 50,000	$ 50,000	$ -	$ 50,000	$ -	$ -
Wastewater System Planning	$ 1,500,000	$ 1,500,000	$ 1,468,176	$ 5,824	$ 1,474,000	$ 26,000	$ 31,824
Wastewater Vehicles	$ 235,000	$ 235,000	$ 209,795	$ 25,205	$ 235,000	$ 0	$ 25,205
NDWWTP - Chlorine Tanks	$ 250,000	$ 250,000	$ 250,000		$ 250,000	$ -	$ -
Tumon Bay Sewer Upgrades	$ 100,000	$ -	$ -		$ -	$ -	$ -
Wastewater Collection System Repl/Rehab		$ 1,105,000	$ 723,591	$ 283,287	$ 1,006,878	$ 98,122	$ 381,409
Facilities Plan/Design for Baza Gardens WWTP	$ 1,250,000	$ 1,250,000	$ 1,245,244	$ 4,756	$ 1,250,000	$ -	$ 4,756
Facilities Plan/Design for Agat-Santa Rita WWTP	$ 900,000	$ 899,630	$ 891,702	$ 7,928	$ 899,630	$ -	$ 7,928
Priority 1 Sewer Upgrades – Baza Gardens WWTP	$ 650,000	$ -	$ -		$ -	$ -	$ -
Baza Gardens STP Replacement	$ 3,567,000	$ 1,301,947	$ 1,151,947	$ 314	$ 1,152,261	$ 149,686	$ 150,000
Facilities Plan/Design for Umatac Merizo WWTP		$ 900,000	$ 760,845	$ 93,013	$ 853,858	$ 46,142	$ 139,155
Agat/Santa Rita STP Replacement	$ 2,968,000	$ 2,218,000	$ 2,217,314	$ 387	$ 2,217,701	$ 300	$ 686
Northern District WWTP Primary Treatment Upgrades	$ -	$ 11,750,000	$ 11,532,253	$ 211,261	$ 11,743,514	$ 6,486	$ 217,747
Biosolids Management Plan		$ 200,000	$ 196,414	$ 3,586	$ 200,000	$ -	$ 3,586
Agana WWTP Interim Measures	$ -	$ 11,500,000	$ 11,254,925	$ 45,075	$ 11,300,000	$ 200,000	$ 245,075
I&I SSES Southern		$ 800,000	$ 794,722	$ 5,278	$ 800,000	$ (0)	$ 5,278
I&I SSES Central		$ 850,000	$ 794,325	$ 55,675	$ 850,000	$ -	$ 55,675
I&I SSES Northern		$ -			$ -	$ -	$ -
Umatac Merizo Replacement		$ 250,000	$ 247,431	$ 2,569	$ 250,000	$ -	$ 2,569
Northern District WWTP Secondary Treatment Upgrades		$ 1,000,000	$ -	$ 1,000,000	$ 1,000,000	$ -	$ 1,000,000
Well Electrical Protection	$ 26,000	$ -	$ -		$ -	$ -	$ -
SCADA Pilot Project	$ 300,000	$ 61,950	$ 19,812	$ 42,138	$ 61,950	$ (0)	$ 42,138
Electrical Upgrade - Water Wells	$ 3,000,000	$ 354,227	$ 339,948	$ 14,278	$ 354,227	$ 0	$ 14,279
Electrical Upgrade - Water Booster	$ 325,000	$ -	$ -		$ -	$ -	$ -
Electrical Upgrade -Water Booster	$ 350,000	$ -	$ -		$ -	$ -	$ -
Electrical Upgrade - Other Water	$ 250,000	$ -			$ -	$ -	$ -
SCADA Improvements – Phase 1	$ 250,000	$ 250,000	$ 194,849	$ 55,151	$ 250,000	$ -	$ 55,151
SCADA Improvements – Phase 2	$ 1,100,000	$ 1,056,986	$ 1,028,284	$ 28,702	$ 1,056,986	$ -	$ 28,702
SCADA Improvements – Phase 3	$ 2,500,000	$ 24,956	$ 24,956	$ -	$ 24,956	$ 0	$ 0
SCADA Improvements – Phase 4	$ 850,000	$ -	$ -		$ -	$ -	$ -
Laboratory Modernization	$ 1,200,000	$ -	$ -		$ -	$ -	$ -
Land Survey	$ 1,500,000	$ 500,000	$ 471,450	$ 28,237	$ 499,687	$ 313	$ 28,550
General Plant Improvements / Water	$ 14,370,000	$ 7,241,000	$ 7,241,000	$ 0	$ 7,241,000	$ 0	$ 0
Interest Earned							$ 122,230
Total Construction Fund (2010 Series Revenue Bond)	**$ 87,402,000**	**$ 87,402,000**	**$ 79,836,728**	**$ 4,096,454**	**$ 83,933,182**	**$ 3,468,818**	**$ 7,687,502**

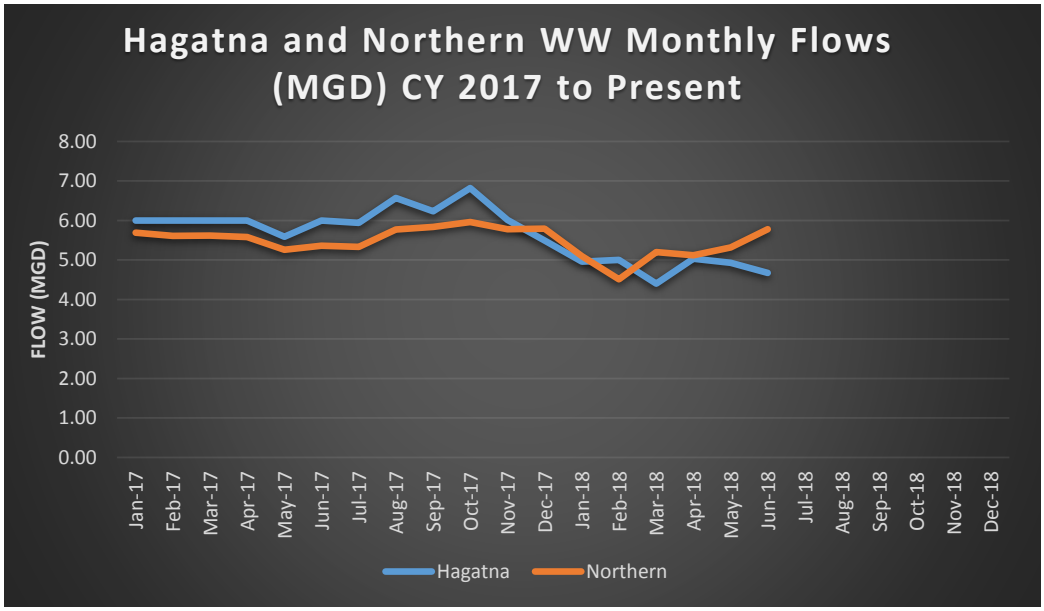
1.) PUC's Docket 11-01 $29,000,000.00 dated
09/19/11authorized GWA for reallocation
2) PUC's Docket 11-01 Reallocation of $23,246,000.00 dated 07/30/12
3) PUC's Dockect Reallocation dated February 2013

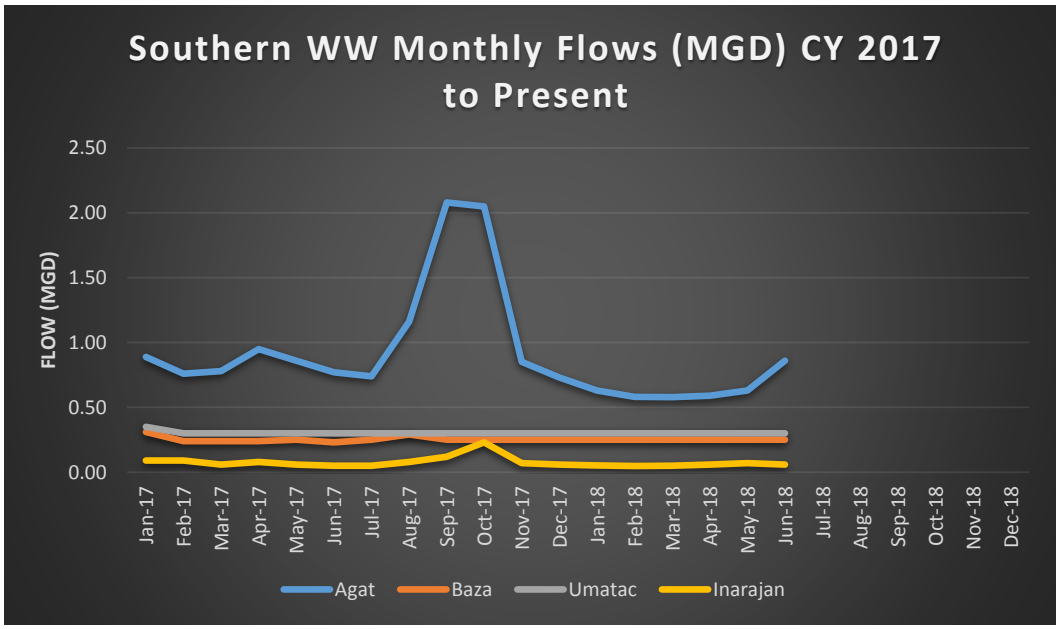
Wastewater Treatment Plant Average Monthy Flows Million Gallons Per Day

2017	Hagatna	Northern	Agat	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	Agat	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						
Aug-18						
Sep-18						
Oct-18						
Nov-18						
Dec-18						
2018 Average MGD	**4.83**	**5.17**	**0.65**	**0.25**	**0.30**	**0.06**
2018 Total MGY	1,764	1,888	235	91	110	21

GWA WWT Flow Report 2013 to Present, prepared by kcog/df, 7/5/2018



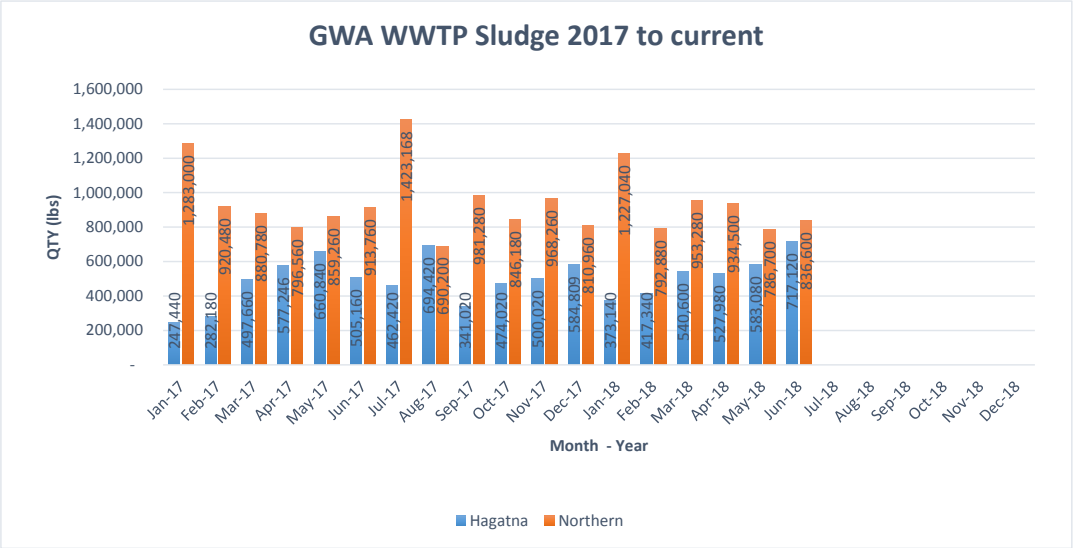


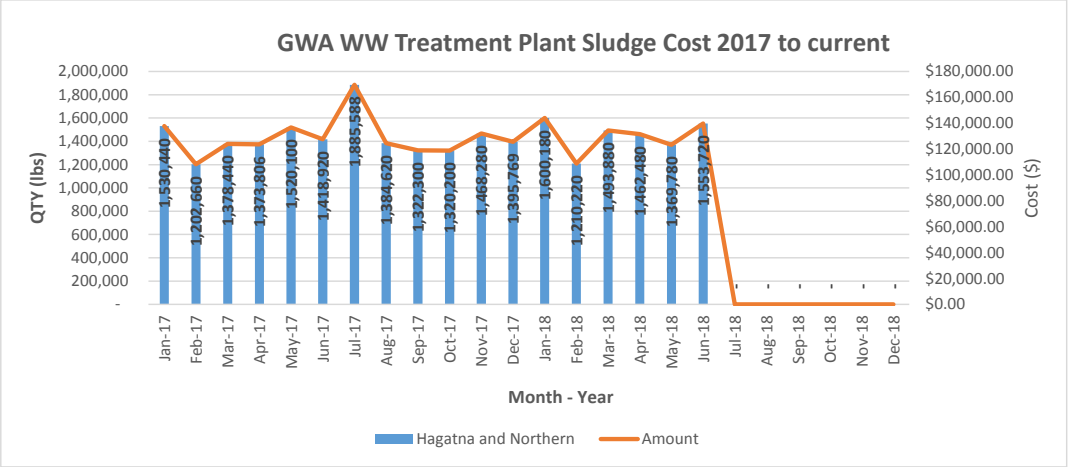
GWA WWT Flow Report 2013 to Present, prepared by kcog/df, 7/5/2018

Sludge Disposal To Landfill Weight and Cost

	Hagatna		Northern		Hagatna and Northern	
2017	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	$	lbs	$	lbs	$
Jan-17	247,440	$22,269.60	1,283,000	$115,470.00	1,530,440	$137,739.60
Feb-17	282,180	$25,396.20	920,480	$82,843.20	1,202,660	$108,239.40
Mar-17	497,660	$44,789.40	880,780	$79,270.20	1,378,440	$124,059.60
Apr-17	577,246	$51,952.14	796,560	$71,690.40	1,373,806	$123,642.54
May-17	660,840	$59,475.60	859,260	$77,333.40	1,520,100	$136,809.00
Jun-17	505,160	$45,464.40	913,760	$82,238.40	1,418,920	$127,702.80
Jul-17	462,420	$41,617.80	1,423,168	$128,085.12	1,885,588	$169,702.92
Aug-17	694,420	$62,497.80	690,200	$62,118.00	1,384,620	$124,615.80
Sep-17	341,020	$30,691.80	981,280	$88,315.20	1,322,300	$119,007.00
Oct-17	474,020	$42,661.80	846,180	$76,156.20	1,320,200	$118,818.00
Nov-17	500,020	$45,001.80	968,260	$87,143.40	1,468,280	$132,145.20
Dec-17	584,809	$52,632.81	810,960	$72,986.40	1,395,769	$125,619.21
Grand Total	5827235	$524,451.15	11373888	$1,023,649.92	17201123	$1,548,101.07

	Hagatna		Northern		Hagatna and Northern	
2018	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	$	lbs	$	lbs	$
Jan-18	373,140	$33,582.60	1,227,040	$110,433.60	1,600,180	$144,016.20
Feb-18	417,340	$37,560.60	792,880	$71,359.20	1,210,220	$108,919.80
Mar-18	540,600	$48,654.00	953,280	$85,795.20	1,493,880	$134,449.20
Apr-18	527,980	$47,518.20	934,500	$84,105.00	1,462,480	$131,623.20
May-18	583,080	$52,477.20	786,700	$70,803.00	1,369,780	$123,280.20
Jun-18	717,120	$64,540.80	836,600	$75,294.00	1,553,720	$139,834.80
Jul-18		$0.00		$0.00	-	$0.00
Aug-18		$0.00		$0.00	-	$0.00
Sep-18		$0.00		$0.00	-	$0.00
Oct-18		$0.00		$0.00	-	$0.00
Nov-18		$0.00		$0.00	-	$0.00
Dec-18		$0.00		$0.00	-	$0.00
Grand Total	3159260	$284,333.40	5531000	$497,790.00	8690260	$782,123.40


GWA WWTP Sludge 2017 to current
QTY (lbs)
Month - Year
Hagatna
Northern


GWA WW Treatment Plant Sludge Cost 2017 to current
QTY (lbs)
Cost ($)
Month - Year
Hagatna and Northern
Amount

GUAM WATERWORKS AUTHORITY

Guam Waterworks Authority

VEHICLE FLEET STATUS

7/12/2018

EQUIPMENT STATUS					SUMMARY						
Description	Number of Equipment	Number of Equipment Available	Number of Equipment Not Available	Percentage	Operational	Operational w/Rprs Pending	In Shop-Accident Repairs	In Shop-Assessment Pending	In Shop-Repairs Pending	In Shop-Vendor Repairs	Recommend Survey
Backhoe	5	2	3	40%	2	0	0	0	1	0	2
Bobcat	1	1	0	100%	1	0	0	0	0	0	0
Boom Truck	2	1	1	50%	1	0	0	0	1	0	0
Crane	2	0	1	0%	0	0	0	0	1	0	1
Dump Truck	3	1	2	33%	1	0	0	0	2	0	0
Flat Bed	1	0	1	0%	0	0	0	0	0	0	1
Forklift	7	6	1	86%	6	0	0	0	0	0	1
Fuel Tanker	1	1	0	100%	1	0	0	0	0	0	0
Heavy Duty	7	4	3	57%	4	0	0	0	0	1	2
Hoist Rig	1	1	0	100%	1	0	0	0	0	0	0
Light	161	110	58	68%	110	1	2	7	9	7	33
Mini Backhoe	4	0	4	0%	0	0	0	0	2	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	4	1	80%	3	1	0	0	1	0	0
Tow	1	0	1	0%	0	0	0	0	0	0	1
Tractor	2	2	0	100%	2	0	0	0	0	0	0
Tractor Mower	1	1	0	100%	1	0	0	0	0	0	0
Trailer	15	13	2	87%	13	0	0	0	0	0	2
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	5	4	1	80%	2	0	0	0	0	2	1

Compressor	1	1	0	100%	1	0	0	0	0	0	0
Total	233	157	84		156	2	2	7	17	14	44

GUAM WATERWORKS AUTHORITY

Guam Waterworks Authority

VEHICLE FLEET STATUS

5/31/2018

EQUIPMENT STATUS				
Description	Number of Equipment	Number of Equipment Available	Number of Equipment Not Available	Percentage
Backhoe	5	1	4	20%
Bobcat	1	1	0	100%
Boom Truck	2	1	1	50%
Crane	2	1	1	50%
Dump Truck	3	1	2	33%
Flat Bed	1	0	1	0%
Forklift	7	6	1	86%
Fuel Tanker	1	1	0	100%
Heavy Duty	4	2	2	50%
Hoist Rig	1	1	0	100%
Light	161	110	56	68%
Mini Backhoe	4	0	4	0%
Pumper Truck	1	1	0	100%
Skidster	1	1	0	100%
Sludge Truck	5	4	1	80%
Tow	1	0	1	0%
Tractor	2	2	0	100%
Tractor Mower	1	1	0	100%
Trailer	15	13	2	87%
Trencher	1	1	0	100%
Vaccon	1	1	0	100%
Vacuum Truck	3	1	2	33%
Water Buffalo	2	2	0	100%
Water Tanker	5	2	3	40%

SUMMARY						
Operational	Operational w/Rprs Pending	In Shop-Accident Repairs	In Shop-Assessment Pending	In Shop-Repairs Pending	In Shop-Vendor Repairs	Recommend Survey
1	0	0	0	1	1	2
1	0	0	0	0	0	0
1	0	0	0	1	0	0
0	1	0	0	0	0	1
1	0	0	0	2	0	0
0	0	0	0	0	0	1
6	0	0	0	0	0	1
1	0	0	0	0	0	0
2	0	0	0	0	1	1
1	0	0	0	0	0	0
110	2	2	6	8	7	33
0	0	0	0	2	2	0
1	0	0	0	0	0	0
1	0	0	0	0	0	0
4	0	0	0	0	1	0
0	0	0	0	0	0	1
2	0	0	0	0	0	0
1	0	0	0	0	0	0
13	0	0	0	0	0	2
1	0	0	0	0	0	0
1	0	0	0	0	0	0
1	0	0	0	0	2	0
2	0	0	0	0	0	0
2	0	0	0	0	2	1

Total	230	156	81		153	3	2	6	14	16	43

GUAM WATERWORKS AUTHORITY

WASTEWATER COLLECTION REPORT

MONTHLY REPORT

JUNE 2018



CCTV INSPECTIONS AND SEWER CLEANING
JUNE 2018

JUN. 01 - JUN. 07	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	1144			1144
	35.02%	0.00%		18%

JUN. 08 – JUN. 14	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	4091			4091
	125%	0%		63%

JUN. 15 – JUN. 21	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	6,201.00			6201
	190%	0%		95%

JUN. 22 – JUN. 28	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	11,216			11216
	343%	0%		172%

JUN. 29 – JUN. 30	Team #1	Team #2	Vendor	Total
Feet Scheduled				
Feet Completed				

	January	February	March	April	May	June
SEWER CLEANING	2.86	6.09	2.81	6.50	6.49	4.29

TOTAL FEET SCHEDULED	26,136
TOTAL FEET COMPLETED	22,652
TOTAL MILES FOR THE MONTH	4.3
TOTAL MILES SCHEDULED	5.0
PERCENTAGE COMPLETED	86%

PUMPING STATION TROUBLE CALLS 2018

June. 01 - 07	CREATED	COMPLETED	PENDING
NORTHERN	4	4	0
CENTRAL	2	2	0
SOUTHERN	2	2	0
TOTAL	8	8	0

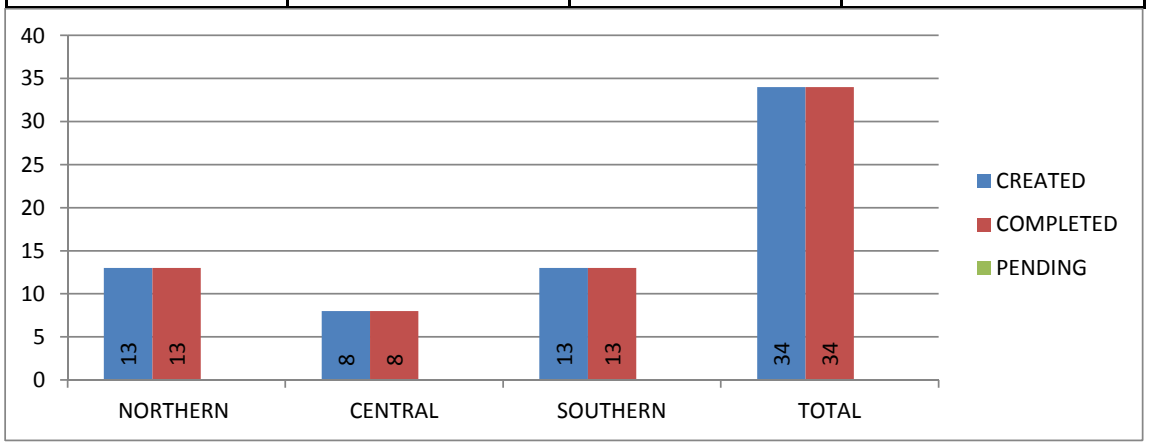
June. 08 – 14	CREATED	COMPLETED	PENDING
NORTHERN	2	2	0
CENTRAL	1	1	0
SOUTHERN	2	2	0
TOTAL	5	5	0

June. 15 – 21	CREATED	COMPLETED	PENDING
NORTHERN	1	1	0
CENTRAL	4	4	0
SOUTHERN	2	2	0
TOTAL	7	7	0

June. 22 – 28	CREATED	COMPLETED	PENDING
NORTHERN	3	3	0
CENTRAL	1	1	0
SOUTHERN	6	6	0
TOTAL	10	10	0

June. 29 – 30	CREATED	COMPLETED	PENDING
NORTHERN	3	3	0
CENTRAL	0	0	0
SOUTHERN	1	1	0
TOTAL	4	4	0

	CREATED	COMPLETED	PENDING
NORTHERN	13	13	0
CENTRAL	8	8	0
SOUTHERN	13	13	0
TOTAL	34	34	0



MAINTENANCE PREVENTIVE AND CORRECTIVE CALL OUTS

06/01/18	PREVENTIVE	CORRECTIVE
NORTHERN	0	0
CENTRAL	0	0
SOUTHERN	0	1
TOTAL	0	1

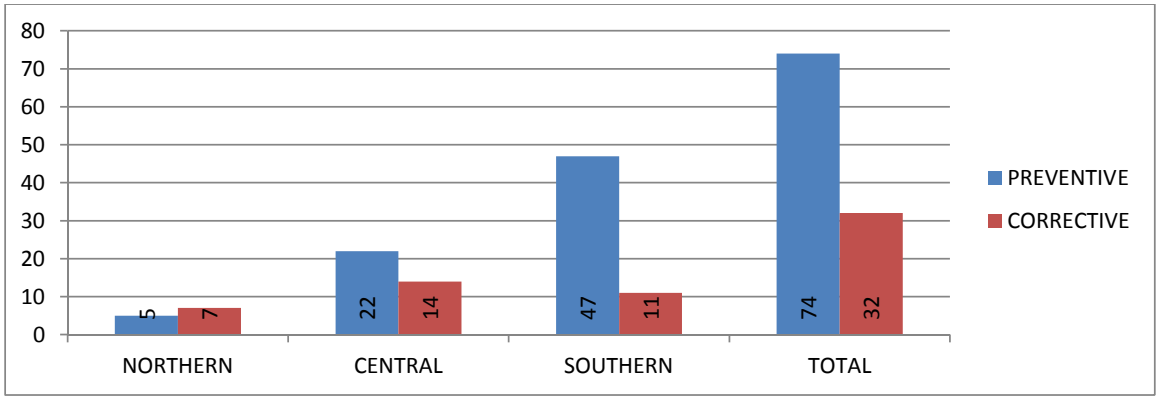
06/04/18 – 06/08/18	PREVENTIVE	CORRECTIVE
NORTHERN	3	5
CENTRAL	4	4
SOUTHERN	8	0
TOTAL	15	9

06/11/18 – 06/15/18	PREVENTIVE	CORRECTIVE
NORTHERN	0	1
CENTRAL	0	1
SOUTHERN	36	5
TOTAL	36	7

06/18/18 – 06/22/18	PREVENTIVE	CORRECTIVE
NORTHERN	0	0
CENTRAL	6	4
SOUTHERN	3	2
TOTAL	9	6

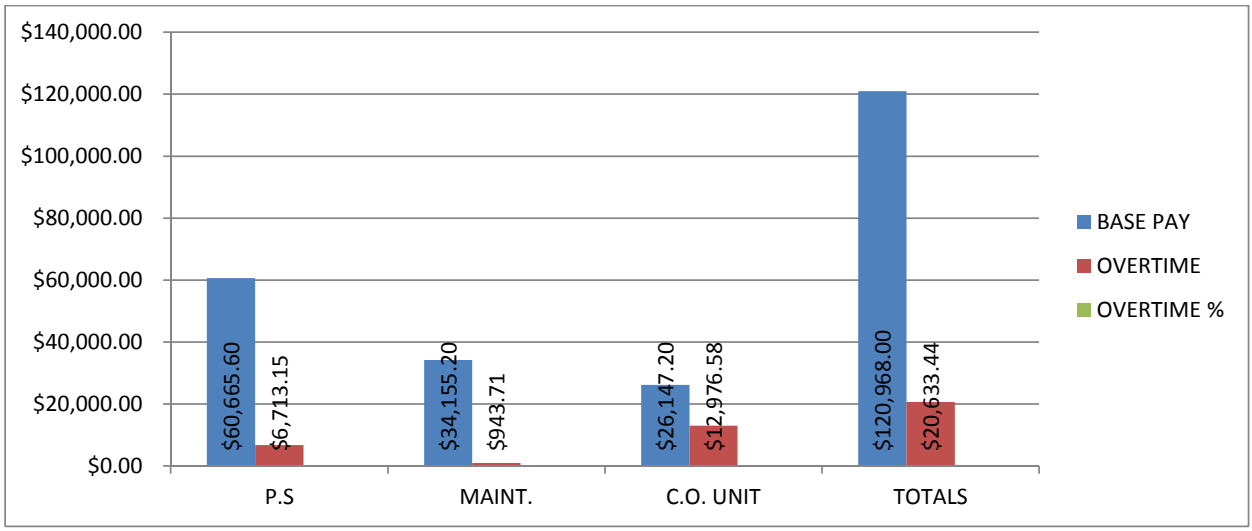
06/25/18 – 06/29/18	PREVENTIVE	CORRECTIVE
NORTHERN	2	1
CENTRAL	12	5
SOUTHERN	8	3
TOTAL	22	9

06/01/18 – 06/30/18	PREVENTIVE	CORRECTIVE
NORTHERN	5	7
CENTRAL	22	14
SOUTHERN	47	11
TOTAL	74	32



BASE PAY VS OVERTIME

	BASE PAY	OVERTIME	OVERTIME %
PUMPING STATION	$60,665.60	$6,713.15	11%
MAINTENANCE	$34,155.20	$943.71	3%
COURT ORDER UNIT	$26,147.20	$12,976.58	50%
TOTALS	$120,968.00	$20,633.44	64%



GUAM WATERWORKS AUTHORITY

WASTEWATER COLLECTION REPORT

MONTHLY REPORT

May 2018



CCTV INSPECTIONS AND SEWER CLEANING
MAY 2018

MAY. 01 - MAY. 07	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	4272			4272
	130.76%	0.00%		65%

MAY. 08 – MAY. 14	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	7283			7283
	223%	0%		111%

MAY. 15 – MAY. 21	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	11297			11297
	346%	0%		173%

MAY. 22 – MAY. 28	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	7490			7490
	229%	0%		115%

MAY. 29 – MAY. 31	Team #1	Team #2	Vendor	Total
Feet Scheduled				
Feet Completed	3934			3934

	January	February	March	April	May	June
SEWER CLEANING	2.86	6.09	2.81	6.50	6.49	0.00

TOTAL FEET SCHEDULED	26,136
TOTAL FEET COMPLETED	34,276
TOTAL MILES FOR THE MONTH	6.5
TOTAL MILES SCHEDULED	5.0
PERCENTAGE COMPLETED	130%

PUMPING STATION TROUBLE CALLS 2018

May. 01 - 07	CREATED	COMPLETED	PENDING
NORTHERN	0	0	0
CENTRAL	2	2	0
SOUTHERN	1	1	0
TOTAL	3	3	0

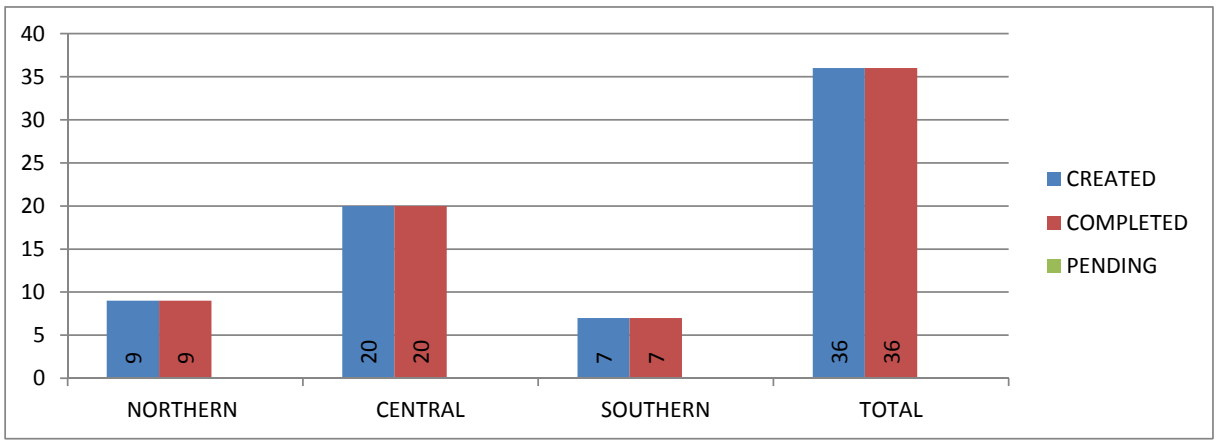
May. 08 – 14	CREATED	COMPLETED	PENDING
NORTHERN	3	3	0
CENTRAL	3	3	0
SOUTHERN	3	3	0
TOTAL	9	9	0

May. 15 – 21	CREATED	COMPLETED	PENDING
NORTHERN	4	4	0
CENTRAL	4	4	0
SOUTHERN	2	2	0
TOTAL	10	10	0

May. 22 – 28	CREATED	COMPLETED	PENDING
NORTHERN	2	2	0
CENTRAL	3	3	0
SOUTHERN	1	1	0
TOTAL	6	6	0

May. 29 – 31	CREATED	COMPLETED	PENDING
NORTHERN	0	0	0
CENTRAL	8	8	0
SOUTHERN	0	0	0
TOTAL	8	8	0

	CREATED	COMPLETED	PENDING
NORTHERN	9	9	0
CENTRAL	20	20	0
SOUTHERN	7	7	0
TOTAL	36	36	0



MAINTENANCE PREVENTIVE AND CORRECTIVE CALL OUTS

04/30/18-05/05/18	PREVENTIVE	CORRECTIVE
NORTHERN	6	7
CENTRAL	8	3
SOUTHERN	0	0
TOTAL	14	10

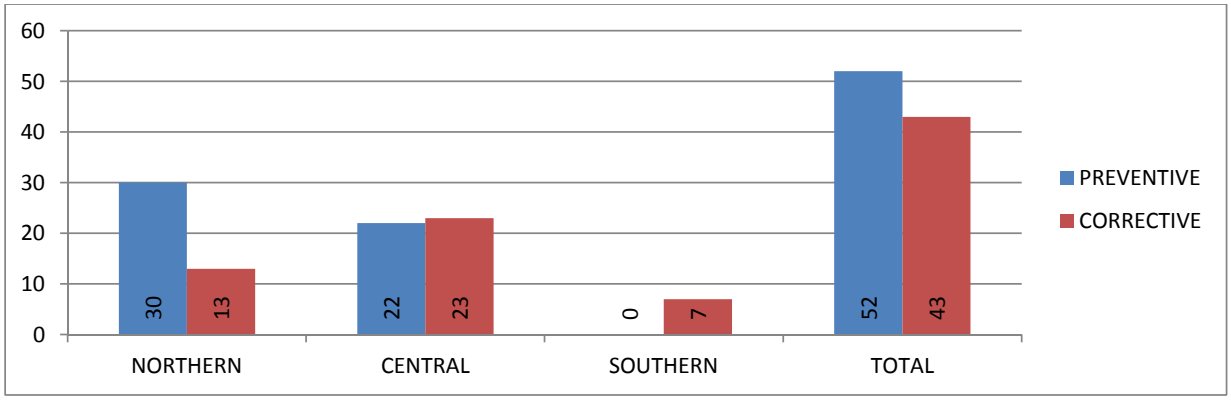
05/06/18-05/12/18	PREVENTIVE	CORRECTIVE
NORTHERN	12	4
CENTRAL	0	4
SOUTHERN	0	0
TOTAL	12	8

05/13/18-05/19/18	PREVENTIVE	CORRECTIVE
NORTHERN	12	1
CENTRAL	0	6
SOUTHERN	0	2
TOTAL	12	9

05/20/18-05/26/18	PREVENTIVE	CORRECTIVE
NORTHERN	0	1
CENTRAL	8	8
SOUTHERN	0	3
TOTAL	8	12

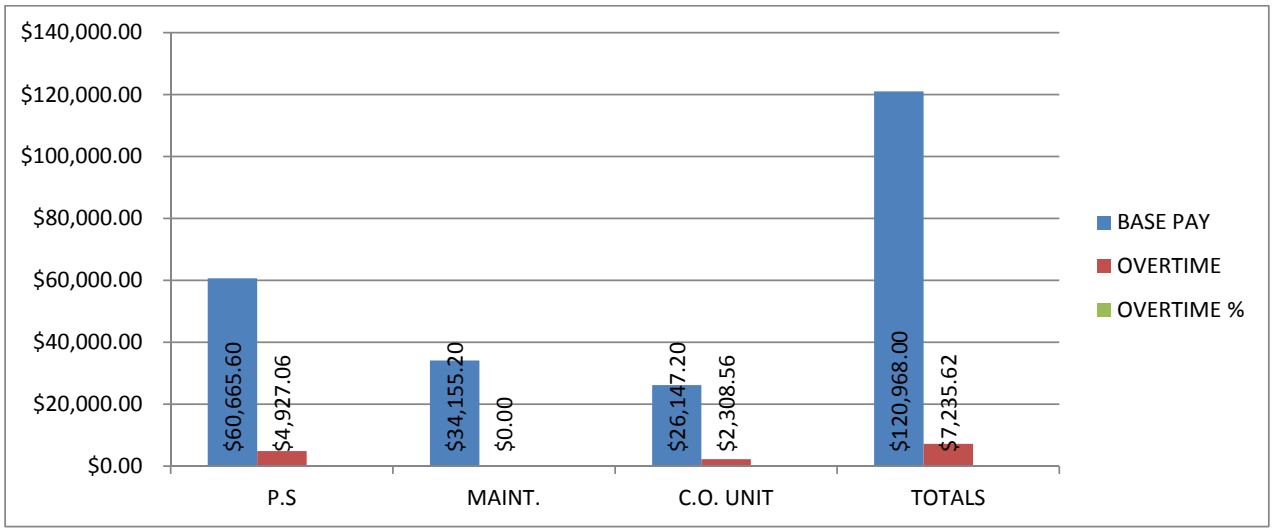
05/27/18-06/01/18	PREVENTIVE	CORRECTIVE
NORTHERN	0	0
CENTRAL	6	2
SOUTHERN	0	2
TOTAL	6	4

04/30/18-06/01/18	PREVENTIVE	CORRECTIVE
NORTHERN	30	13
CENTRAL	22	23
SOUTHERN	0	7
TOTAL	52	43



BASE PAY VS OVERTIME

	BASE PAY	OVERTIME	OVERTIME %
PUMPING STATION	$60,665.60	$4,927.06	8%
MAINTENANCE	$34,155.20	$0.00	0%
COURT ORDER UNIT	$26,147.20	$2,308.56	9%
TOTALS	$120,968.00	$7,235.62	17%



Guam Waterworks Authority	Date: 7/12/2018 Time:

REVIEWS			
TOTAL PUMPS INSTALLED	51	OVERAL AVERAGE	94%
TOTAL PUMPS OPERATIONAL	48	% OF OPERATING PUMPS	94%
TOTAL BOOSTER PUMP STATIONS	25		

GUAM WATERWORKS AUTHORITY

WATER DISTRIBUTION FACILITIES REPORT

Northern District

NO:	FACILITY	PUMP HORSEPOWER	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	A	Pump # 1 requires pump and motor.					
5	Access	60	2	2	100%	OP	A						
6	Chln. Palauan	5	2	2	100%	N/A						CIP required for new unit and electrical for generator	
7	Nimitz Hill	7.5	2	2	100%	N/A						CIP required for new unit and electrical for generator	
8	Adawag	1.5	2	2	100%	N/A						CIP required for new unit and electrical for generator	
9	Pale Kiren	1	1	1	100%	N/A						CIP required for new unit and electrical for generator	
10	Ulloa/Untalan	1	2	2	100%	OP	A						
11	Latte Heights	15	2	2	100%	OP	A						
	TOTAL = 11		**21**	**20**	**95%**								
pump availability =no of operational pumps/no of pumps*100%													

Central District

NO:	FACILITY	PUMP HORSEPOWER	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	Pago	150 / 100	3	2	67%	0P	A	Pump unit #2 grounded during tropical storm Maria				Removed and at vendor 7-5-18 (Rewind)	
2	Brigade	60	3	3	100%	OP	A			Generator inadequate for 2 pump operation			
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	1	50%	N/A		CHECK VALVE P1 NOT OPENING		Unable to secure discharge valve. Need to schedule an outage for area to make repairs		CIP required for new unit and electrical for generator	Need to schedule valve repairs
6	Camacho	1	1	1	100%	N/A						CIP required for new unit and electrical for generator	
7	Tenorio	1.5	1	1	100%	N/A						CIP required for new unit and electrical for generator	
	Total=7		**15**	**13**	**87%**								
pump availability =no of operational pumps/no of pumps*100%													

Southern District

NO:	FACILITY	PUMP HORSEPOWER	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	A	Pump 3 installed by JMI 6-28-18					
2	Geus	25	2	2	100%	OP	A						
3	Pigua	7.5	2	2	100%	N/A						CIP required for new unit and electrical for generator	
4	Toguan	25	2	2	100%	OP	A						
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%**								
pump availability =no of operational pumps/no of pumps*100%													

Guam Waterworks Authority	Date: 5/30/2018 Time:

REVIEWS			
TOTAL PUMPS INSTALLED	51	OVERAL AVERAGE	92%
TOTAL PUMPS OPERATIONAL	47	% OF OPERATING PUMPS	92%
TOTAL BOOSTER PUMP STATIONS	25		

GUAM WATERWORKS AUTHORITY

WATER DISTRIBUTION FACILITIES REPORT

Northern District

NO:	FACILITY	PUMP HORSEPOWER	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	A	Pump # 1 requires pump and motor.					
5	Access	60	2	2	100%	OP	A						
6	Chln. Palauan	5	2	2	100%	N/A						CIP required for new unit and electrical for generator	
7	Nimitz Hill	7.5	2	2	100%	N/A						CIP required for new unit and electrical for generator	
8	Adawag	1.5	2	2	100%	N/A						CIP required for new unit and electrical for generator	
9	Pale Kiren	1	1	1	100%	N/A						CIP required for new unit and electrical for generator	
10	Ulloa/Untalan	1	2	2	100%	OP	A						
11	Latte Heights	15	2	2	100%	OP	A						
	TOTAL = 11		**21**	**20**	**95%**								
pump availability =no of operational pumps/no of pumps*100%													

Central District

NO:	FACILITY	PUMP HORSEPOWER	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	Pago	150 / 100	3	2	67%	0P	A	Pump #3 unit being repaired by JMI. PO issued.				Removed and at vendor 4/25/18 (Rewind)	
2	Brigade	60	3	3	100%	OP	A			Generator inadequate for 2 pump operation			
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	1	50%	N/A		CHECK VALVE P1 NOT OPENING		Unable to secure discharge valve. Need to schedule an outage for area to make repairs		CIP required for new unit and electrical for generator	Need to schedule valve repairs
6	Camacho	1	1	1	100%	N/A						CIP required for new unit and electrical for generator	
7	Tenorio	1.5	1	1	100%	N/A						CIP required for new unit and electrical for generator	
	Total=7		**15**	**13**	**87%**								
pump availability =no of operational pumps/no of pumps*100%													

Southern District

NO:	FACILITY	PUMP HORSEPOWER	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	2	67%	OP	A	Pump #3 unit being repaired by JMI. PO issued.				Removed and at vendor 4/25/18 (Rewind)	PENDING RFQ APPRVAL
2	Geus	25	2	2	100%	OP	A						
3	Pigua	7.5	2	2	100%	N/A						CIP required for new unit and electrical for generator	
4	Toguan	25	2	2	100%	OP	A						
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**	**14**	**93%**								
pump availability =no of operational pumps/no of pumps*100%													