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BENJAMIN CRUZ <speaker@senatorbjcruz.com>

MC Fwd: GWA WORK SESSION 4/17/18 / MEETING MATEIRALS

1 message

BENJAMIN CRUZ <speaker@senatorbjcruz.com> Tue, Apr 17, 2018 at 1:39 PM
To: 34th Guam Legislature Clerks <clerks@guamlegislature.org>
Cc: Rennae Meno <rennae@guamlegislature.org>

04/17/18	04/17/18	Consolidated Commission on Utilities	GWA Work Session April 17, 2018 /Materials.*	34-18-1754

---------- Forwarded message ----------
From: **Bernadette Lou Sablan** <l.sablan@gpagwa.com>
Date: Tue, Apr 17, 2018 at 1:18 PM
Subject: GWA WORK SESSION 4/17/18 / MEETING MATEIRALS
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>

To: GWA Stakeholders,

Attached is pdf file for materials related to today's GWA Work Session.

GCH 34-18-1754
Speaker Benjamin J.F. Cruz

APR 17 2018
Time: 1:35 [ ] 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

Tel: (671) 648-3002

Fax: (671) 648-3290

Email: l.sablan@gpagwa.com

Website: http://guamccu.org/

http://guampowerauthority.com/home.html

http://guamwaterworks.org/

1754

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OFFICE OF SPEAKER BENJAMIN J.F. CRUZ

Committee on Appropriations and Adjudication

I Mina'trentai Kuatro 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., April 17, 2018

AGENDA

1. **ISSUES FOR DECISION**
   - **1.1 Relative to Approval of Change Order Work and Increase in Project Funding for Construction Management Services for the Rehabilitation of GWA Wells (D-03, D-17, D-18, D-22, M-09) Project W11-008-BDN / Resolution No. 26-FY2018**

2. **GM REPORT**
   - **2.1 Updates**

3. **ISSUES FOR DISCUSSION**

4. **DIVISION REPORTS**
   - **4.1 Communications**
   - **4.2 Compliance & Safety**
   - **4.3 Customer Service**
   - **4.4 Engineering**
   - **4.5 Finance**
   - **4.6 Operations**

5. **ANNOUNCEMENTS**
   - **5.1 Next CCU Meetings: GPA Work Session: 4/19/18; CCU Meeting: 4/20/18**

6. **ADJOURNMENT**

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. 26-FY2018
Relative to Approval of Change Order No. 4 Work and an Increase in Project Funding for Construction Management Services for the Rehabilitation of GWA Wells (D-03, D-17, D-18, D-22, and M-09) Project W11-008-BDN

What are the project's objectives of the proposed changes and are they necessary and urgent? The objective of Change Order No. 4, is to extend the duration of the Construction Management (CM) services. There have been unexpected issues during well commissioning with respect to the developed well pump capacity, drive and control issues and equipment repairs that have extended the completion of the Contractor's work. The CM's input is necessary to monitor the contractor's work until the project is complete. Additional funding is needed for Change Order No. 4 to manage the construction, on a time and materials basis.

Where is the project located?
This project is located at Groundwater Wells D-03, D-17, D-18, D-22, and M-09 within the villages of Dededo and Mangilao. Construction activities will be limited to the property boundaries of the well sites.

How much will it cost?
The original funding authorization for the CM Services was Seven Hundred Forty-Nine Thousand One Hundred Eighty-Four Dollars ($749,184.00), plus a ten percent (10%) contingency of Seventy-Four Thousand Nine Hundred Eighteen Dollars and Forty Cents ($74,918.40). GWA management executed two change orders via the 10% contingency in the amount of Seventy-Four Thousand Seven Hundred Ninety-Six Dollars and Thirty-Two Cents ($74,796.32) and further sought CCU approval for Change Order No. 3 in the amount of One Hundred Nineteen Thousand Three Hundred Eighty-One Dollars ($119,381.00). The proposed Change Order No. 4 is in the amount of Ninety-Eight Thousand Two Hundred Twenty-Two and Zero cents ($98,222.00) which will to bring the total authorized funding amount to a maximum of One Million Forty-One Thousand Five Hundred Eighty-Three dollars and Thirty-Two cents ($1,041,583.32).

When will it be completed?
The project is scheduled to be substantially completed for four of the wells by end of May 2018 with final project completion by August 2018.

What is the funding source?
The funding for this project will be from USEPA Grant and, if necessary, GWA Bond Funds with a maximum project budget of One Million Forty-One Thousand Five Hundred Eighty-Three Dollars and Thirty-Two Cents ($1,041,583.32).

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

RESOLUTION NO. 26–FY2018

RELATIVE TO APPROVAL OF CHANGE ORDER NO. 4 WORK AND AN INCREASE IN PROJECT FUNDING FOR CONSTRUCTION MANAGEMENT SERVICES FOR THE REHABILITATION OF GWA WELLS (D-03, D-17, D-18, D-22, AND M-09) PROJECT W11-008-BDN

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

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

WHEREAS, GWA has received a grant from the United States Environmental Protection Agency ("USEPA") under the State Revolving Fund ("SRF") program to repair and rehabilitate the water and wastewater system infrastructure; and

WHEREAS, GWA has a number of important USEPA SRF projects including the rehabilitation, repair, or replacement of groundwater wells D-03, D-17, D-18, D-22, and M-09, which have been inoperable for a significant amount of time; and

WHEREAS, on December 30, 2015, GWA entered into a contract with EA Engineering, Science and Technology, Inc., PBC (EA) to perform the Construction Management (CM) Services for the Rehabilitation of GWA Wells D-03, D-17, D-18, D-22, and M-09 project; and

WHEREAS, on August 22, 2016, GWA awarded the construction contract for the Island-wide Well Site Rehabilitation (D-03, D-17, D-18, D-22, and M-09) to Pacific Rim Corporation with a completion date of August 22, 2017, but extended the completion date to

November 25, 2017 due to capacity issues with some initial wells that required re-drilling and changes that were required for the electrical systems; and

WHEREAS, on November 25, 2017, GWA extended the construction contract for the Island-wide Well Site Rehabilitation (D-03, D-17, D-18, D-22, and M-09) to January 19, 2018, to allow extra time for the completion of the associated wells due to revised permits, additional GPA requirements, and issues associated with isolation of and connection to the watermain; and

WHEREAS, since January 19, 2018 the contractor has been submitting claims of further delays which GWA's project Manager and Construction Manager have been sorting out and which may result in the construction contract period being extended; and

WHEREAS, one significant problem experienced on the project was the final capacity achievable at well D-03 that was significantly lower than expected based on the pilot well tests which required additional time to review the well development process and determine appropriate action to complete the well construction; and

WHEREAS, other complications discovered at startup and commissioning of the associated wells, including issues with the Variable Frequency Drives (VFD), chlorination systems, level sensors, has caused all parties to verify deliverable requirements and timelines; and

WHEREAS, due to the projected end of the construction period to resolve all issues noted above, GWA requested a proposal from EA to extend their CM contract to a new completion date of August 31, 2018 and received a final proposal from EA on March 19, 2018, in the amount of Ninety-Eight Thousand Two Hundred Twenty-Two Dollars ($98,222.00) on a Time and Materials basis (SEE EXHIBIT A); and

WHEREAS, GWA along with Brown and Caldwell reviewed the proposal and determined the proposal as fair and reasonable; and

WHEREAS, GWA has discussed the proposal with the USEPA (the funding agency for this project) and received the USEPA's support to use the SRF grant to fund CM contract extension for the Island-wide Well Site Rehabilitation project; and

WHEREAS, CCU approved the original contract value for this project in the amount of Seven Hundred Forty-Nine Thousand One Hundred Eighty-Four Dollars ($749,184.00), plus a ten percent (10%) contingency of Seventy-Four Thousand Nine Hundred Eighteen Dollars and Forty Cents ($74,918.40), which brings the total authorized funding amount to a maximum of Eight Hundred Twenty-Four Thousand One Hundred Two Dollars and Forty Cents ($824,102.40); and

WHEREAS, GWA management executed via the 10% contingency two change Orders in the amount of Seventy Four Thousand Seven Hundred Ninety Six Dollars and Thirty Two Cents ($74,796.32), then further sought and received approval from the CCU via Resolution 06-FY2018 that approved Change Order No. 3 for One Hundred Nineteen Thousand Three Hundred Eighty One Dollars ($119,381.00) that brought the total contract value to Nine Hundred Forty Three Thousand Three Hundred Sixty One Dollars and Thirty-Two Cents ($943,361.32); and

WHEREAS, GWA Management further seeks CCU approval of the proposed Change Order No. 4 to proceed with the CM contract extension in the amount of Ninety-Eight Thousand Two Hundred Twenty-Two Dollars ($98,222.00); and

WHEREAS, funding for the change order work will be from the USEPA State Revolving Fund and, if necessary, GWA Bond funds and will bring the total budget for the entire project to One Million Forty-One Thousand Five Hundred Eighty-Three Dollars and Thirty-Two Cents ($1,041,583.32); 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 of the fee proposal submitted by EA Engineering, Science and Technology, Inc., PBC (EA) are fair and reasonable.
3. The CCU hereby authorizes the management of GWA to approve Change Order No. 4 in the amount of Ninety-Eight Thousand Two Hundred Twenty-Two Dollars ($98,222.00).
4. The CCU hereby further approves increasing the total funding amount for this project to a maximum of One Million Forty-One Thousand Five Hundred Eighty-Three Dollars and Thirty-Two Cents ($1,041,583.32).
5. The CCU herby further approves GWA management informing the PUC of the fact that the contract value for the CM services, which is intended to be fully funded by USEPA State Revolving Funds, will be greater than One Million Dollars ($1,000,000.00).

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

DULY AND REGULARLY ADOPTED, this 20th day of April 2018.

Certified by: Attested by:

_____ _____

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

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DRAFT

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: _____

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DRAFT

Exhibit A (1 of 5)

EA Engineering, Science, and Technology, Inc., PBC

1001 Army Drive, Suite 103
Barrigada, Guam 96913
Telephone: 671-646-5231
Fax: 671-646-5230
www.eaest.com

Date: March 19, 2018

To: Mr. Miguel C. Bordallo, PE
Guam Waterworks Authority
Engineering Division, Room 202
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, GU 96913

Delivered via email

RE: CHANGE ORDER No. 004 to Extend Construction Management Services from November 25, 2017 to August 31, 2018.
GWA Project No. W11-008-BND

Mr. Bordallo:

EA Engineering, Science, and Technology, Inc., PBC (EA) hereby submits Change Order (CO) No. 004 for GWA Project No. PW W11-008-BND for your review and approval. This CO will extend construction management services from the current completion date of November 25, 2017 to August 31, 2018 on a time and materials cost up to $98,222. This cost estimate also includes; re-obligating the engineer of record (EOR) to complete CADD as-built drawings and a final inspection by the Project electrical consultant.

This time extension is needed to address the following conditions needed to complete the Project and ensure proper commissioning of the wells:

- Acquisition and installation of the appropriate variable frequency drives to replace the undersized units currently in use.
- Troubleshooting and repairs for each chlorination system, including parts replacement.
- Submission of all warranties and manuals
- Pending punch list items
- Level sensor functionality
- Replacement of power supply cable for well M-9
- Spare parts hand-off
- Equipment training
- Commissioning of wells D-17, D-18 and D-22

EOR services are complete with the exception of the as-built drawings. This work was de-obligated to utilize existing funding for management costs incurred as a result of the extended Project schedule. The closeout and post-construction services authorized per the original contract remain unchanged.

Exhibit A (2 of 5)

EA Engineering, Science, and Technology, Inc., PBC

1001 Army Drive, Suite 103
Barrigada, Guam 96913
Telephone: 671-646-5231
Fax: 671-646-5230
www.eaest.com

EA estimates that this project will be substantially complete by August 31, 2018. The timeline of this CO is driven by equipment lead times and associated installations. The opinion of probable cost and the estimated staff utilization are presented in Attachment A and B, respectively. Periods of low utilization reflect the anticipated equipment lead times and periods of minimal construction activity.

Please do not hesitate to contact me if you have any questions or comments regarding this CO at jjaskowiak@eaest.com.

Sincerely,

Jason Jaskowiak, P.E. *(New York)*
Owner's Representative
EA Engineering, Science, and Technology, Inc., PBC

Attachments:
Cost Estimate
Utilization Estimate

cc: Kurt Bilz, BC
George Watson, BC
Matthew Bowman, EA
Richard Price, EA
Shelly Rice, EA
File

Exhibit A (3 of 5)

Attachment A

COST PROPOSAL

(1) DIRECT LABOR COSTS

				Project Controls (Project Troubleshooting and Closeout)		Construction Inspection (Drill through D-03)		TOTAL	
STAFF	***CLASSIFICATION***	**Units**	**Rate**	**No.**	**Amount**	**No.**	**Amount**	**No.**	**Amount**
J. Jaskowiak	Construction Manager	Hour	**$151**	385	$58,058.00	0	$0.00	385	$58,058.00
B. Shambach	Deputy Construction Manager	Hour	**$156**	24	$3,744.00	0	$0.00	24	$3,744.00
T. Chargualaf	Construction Field Coordinator	Hour	**$88**	54	$4,773.60	0	$0.00	54	$4,773.60
M. Heppe	Administration	Hour	**$121**	40	$4,836.00	0	$0.00	40	$4,836.00
M. Dina	Procurement Administrator	Hour	**$175**	9	$1,577.19	0	$0.00	9	$1,577.19
R. Price	Principal	Hour	**$208**	8	$1,664.00	0	$0.00	8	$1,664.00
C. Brown	Program Manager	Hour	**$172**	13	$2,230.80	0	$0.00	13	$2,230.80
M. Bowman	Construction Quality Engineer	Hour	**$187**	10	$1,872.00	0	$0.00	10	$1,872.00
TOTAL LABOR COSTS					**$78,755.59**		**$0.00**		**$78,755.59**

(2) OTHER DIRECT COSTS

OTHER DIRECT COSTS		**Units**	**Rate**	**No.**	**Amount**	**No.**	**Amount**	**No.**	**Amount**
1. Equipment and Supplies Usage									
Vehicle		mo	**$848.89**		$0.00	0	$0.00	0	$0.00
Mileage		ea	**$0.26**		$0.00	0	$0.00	0	$0.00
Procore CM Software		year	**$5,500.00**		$0.00	0	$0.00	0	$0.00
Total Equipment and Supplies Usage					**$0.00**		**$0.00**		**$0.00**
2. Travel and Per Diem Costs									
Airfare		ea	**$2,500.00**	0	$0.00		$0.00	0	$0.00
Lodging		mo	**$2,232.00**	0	$0.00	0	$0.00	0	$0.00
Total Travel and Per Diem					**$0.00**		**$0.00**		**$0.00**
3. Subcontractor Costs									
See subcontractor detail for breakdown		T&M	**$18,058.00**		$0.00		$18,058.00		$18,058.00
Total Subcontractors					**$0.00**		**$18,058.00**		**$18,058.00**
G&A Applied to Subcontractor Costs and ODCs			**7.80%**		**$0.00**		**$1,408.52**		**$1,408.52**
Fee Applied to Subcontractos Costs and ODCs			**0.00%**		**$0.00**		**$0.00**		**$0.00**
TOTAL OTHER DIRECT COSTS					**$0.00**		**$19,466.52**		**$19,466.52**

(3) TOTAL COST

TOTAL COST	**$78,756**	**$19,467**	**$98,222**

Exhibit A (4 of 5)

SUBCONTRACTOR COST PROPOSAL

(1) SUBCONTRACTOR DIRECT LABOR COSTS

				Project Controls (Project Troubleshooting and Closeout)		TOTAL	
STAFF	*CLASSIFICATION*	Units	Rate	No.	Amount	No.	Amount
TOTAL LABOR COSTS					$0.00		$0.00

(2) SUBCONTRACTOR OTHER DIRECT COSTS

SUBCONTRACTOR COSTS		Units	Rate	No.	Amount	No.	Amount
1. Equipment and Supplies Usage							
Stanley - Includes 10% fee		T&M	$1,400.00	1	$1,400.00	1	$1,400.00
GHD - Reobligation		T&M	$16,658.00	1	$16,658.00	1	$16,658.00
Total Equipment and Supplies Usage					$18,058.00		$18,058.00
2. Travel and Per Diem Costs							
Total Travel and Per Diem					$0.00		$0.00
TOTAL OTHER DIRECT COSTS					$18,058.00		$18,058.00

(3) TOTAL COST

Subtotal Labor, Other Direct Costs, NOT Including G&A and Fee	$18,058.00	$18,058.00

Exhibit A (5 of 5)

Attachment B

Utilization

Utilization Assumptions	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Construction Manager	75%	35%	50%	30%	10%	10%	30%	30%
J.Jaskowiak								
Deputy Construction Manager	10%	0%	5%	0%	0%	0%	0%	5%
B. Shambach								
Construction Field Coordinator	5%	10%	10%	5%	0%	0%	0%	5%
T. Chargualaf								
Administration	15%	5%	3%	0%	0%	0%	0%	10%
M. Heppe								
Procurement Administrator	1%	0%	0%	0%	0%	0%	0%	5%
P. Occhiogrosso								
Principal	2%	1%	1%	0%	0%	0%	1%	1%
R. Price								
Program Manager	2%	1%	1%	1%	1%	1%	1%	1%
C. Brown								
Construction Quality Engineer	3%	2%	1%	0%	0%	0%	1%	1%
M. Bowman/K. Lindsey								

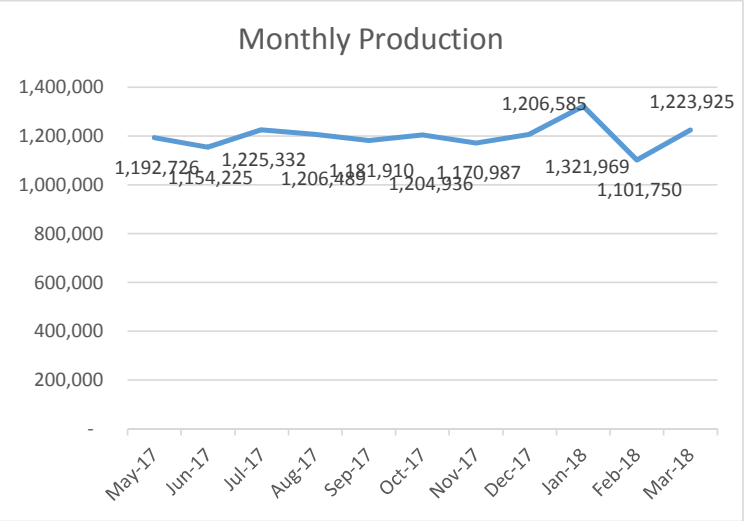
GUAM WATERWORKS AUTHORITY

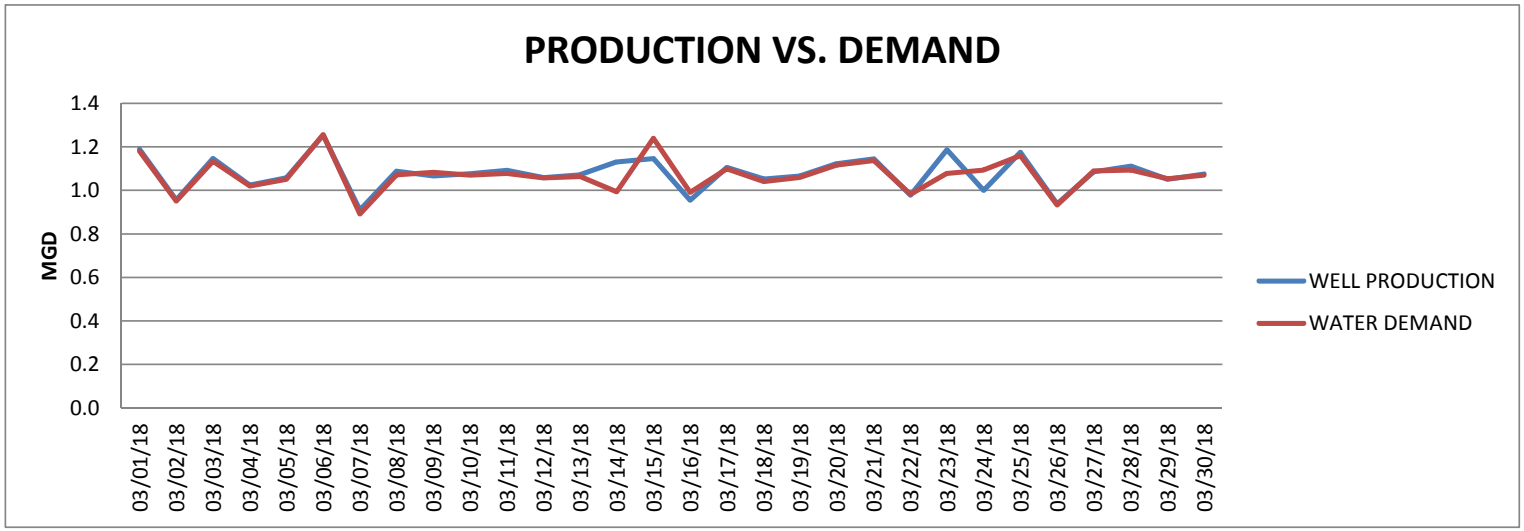
General Manager's Report
GWA Work Session, April 17, 2018

Operations Update

Production

Monthly Production Summary - March 2018					
Deep Wells				36.2	MGD
	Active wells =	97	of 120		
	Avg days in operation =	31.00	days		
	Total Production =	1,121,415	Kgals		
Springs				0.00	MGD
	Avg days in operation =	0	days	*placed on standby	
	Total Production =	0	Kgals		
Ugum Surface Water Plant				2.2	MGD
	Avg days in operation =	31	days		
	Total Production =	69,014	Kgals		
Tumon Maui Well				1.08	MGD
	Avg days in operation =	31	days		
	Total Production =	33,496	Kgals		
		1,223,925	Kgals	39.5	MGD

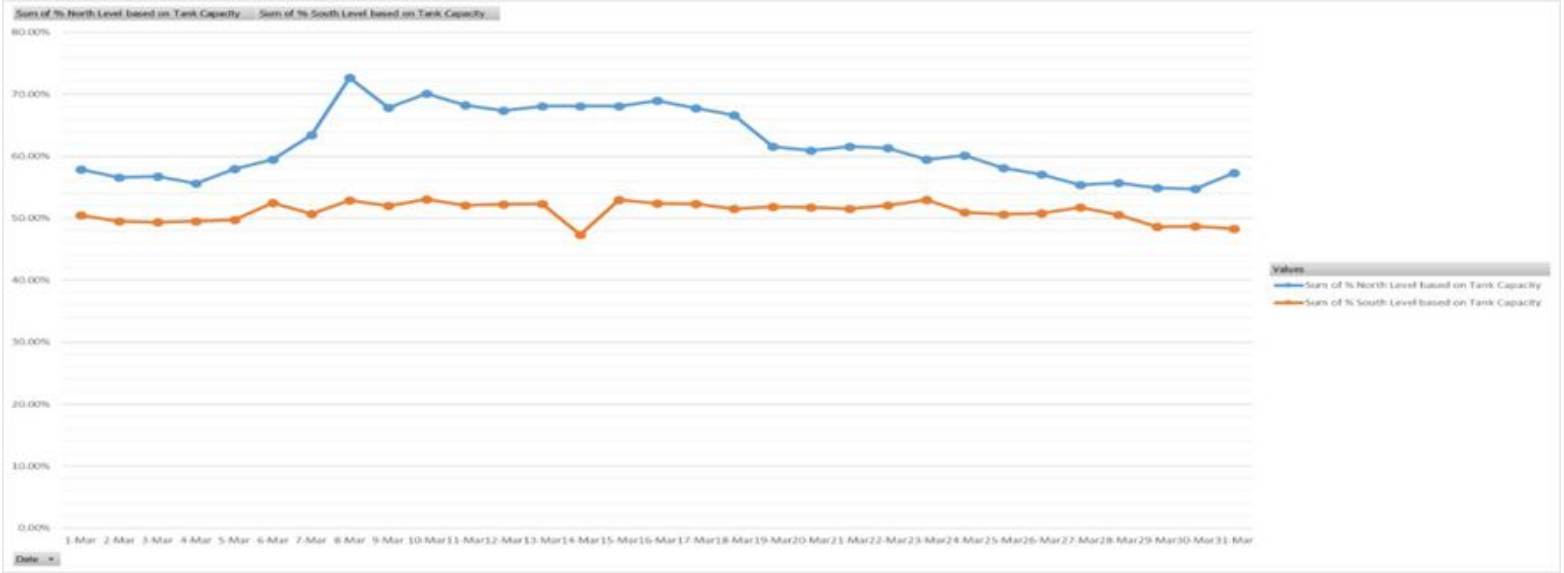




Distribution

Monthly Distribution Summary - March 2018					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	11	21	19	90.5%
	Central	7	15	13	86.7%
	Southern	7	15	14	93.3%
		25	51	46	90.2%





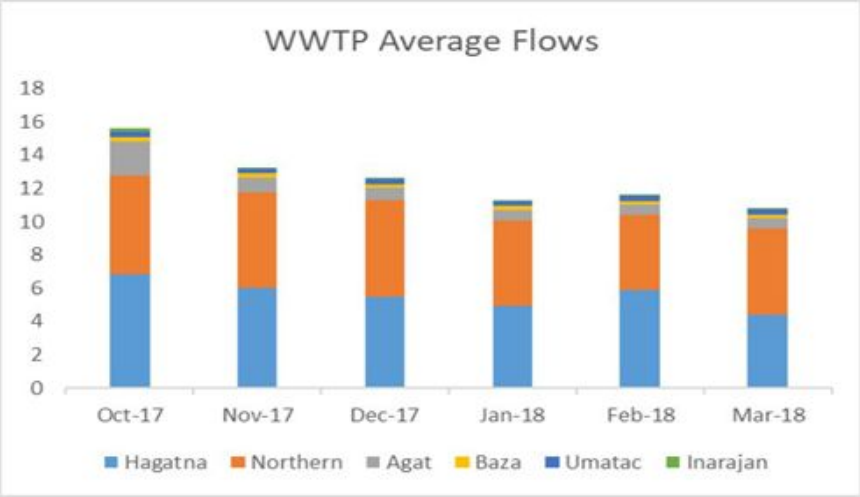
Wastewater Collections

Monthly Collections Summary - March 2018					
Wastewater Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	48	92.3%
	Central	29	63	55	87.3%
	Southern	27	54	43	79.6%
		78	169	146	86.4%

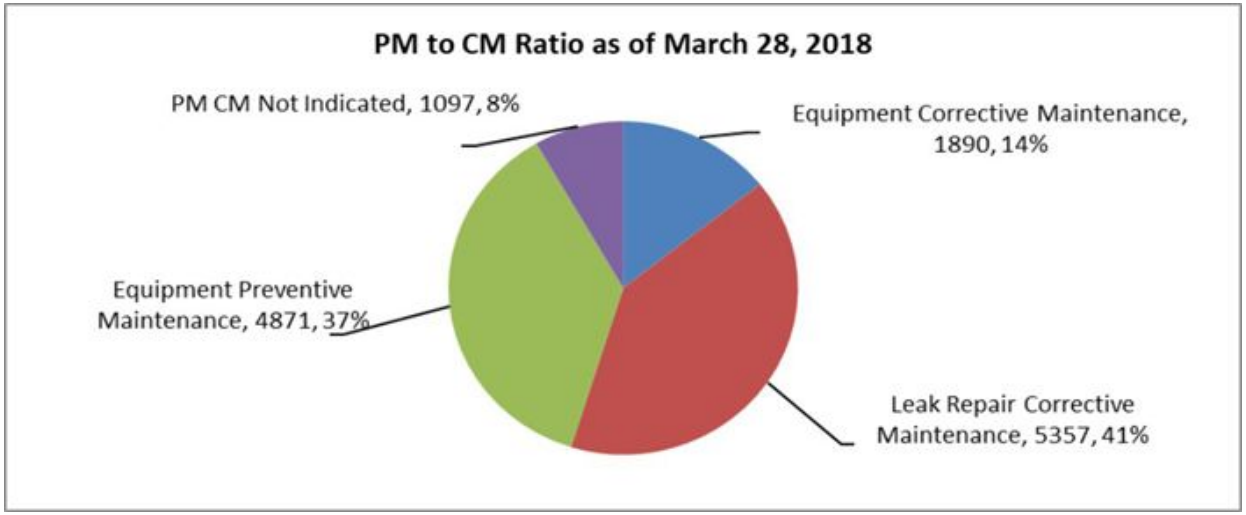


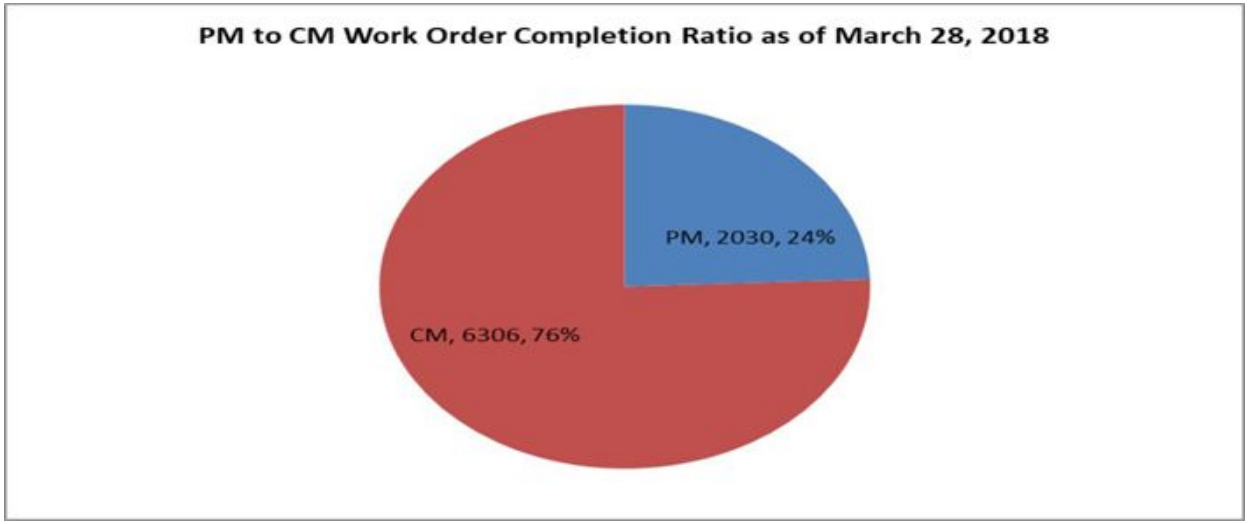
Wastewater Treatment

Monthly Wastewater Treatment Summary - March 2018				
WW Treatment Plants - Flows				
	Facility	**Avg. Daily Flows**	**Sludge (lbs)**	**Sludge Disp. ($)**
	Hagatna	4.40	540,600	$ 48,654
	Northern	5.2	953,280	$ 85,795
	Agat	0.58		
	Baza	0.25		
	Umatac	0.30		
	Inarajan	0.05		
		10.78	1,493,880	$ 134,449



Asset Management





6

Operational Issues

- Update to water audit being conducted
- AWWA Benchmarking Survey being conducted
- USEPA Inspections of WWTPs conducted and reports issued
    - NDWWTP – inspection results were good
    - Hagatna WWTP – several issues identified in report; have been addressed.
        - Effluent pump was down – repair on one pump completed, critical spare motor in procurement
        - Digester mixer was down – repairs in progress
        - Floc chamber mixers down – repairs have been completed
        - Centrifuge was down – repairs underway
        - Safety issue – motor guards not in place during operation; were removed for refurbishment (corrosion); have been reinstalled.

Production & Distribution

- Leak repair
    - backlog has been significantly cleared; less than 60 pending repairs, less than 20 backhoe required repairs
    - pending IFB for leak repair services
    - pending for advanced remote leak detection services pending
- Ugum WTP – assessment of existing SCADA system completed; meeting to discuss potential scope additions on basis of findings.
- GAC Treatment Systems for wells affected by PFOS
    - NAS-1
        - Permanent modifications to NAS-1 GAC Treatment System pending – confirmed for summer break;
        - Replacement Carbon being ordered
    - A-23/A-25:
        - existing GAC canisters for re-use have been isolated from the system and are being cleaned;
        - GWA evaluating potential to re-program DOI grant funding to expedite this work.
    - GIAA System: GIAA advised to provide replacement GAC
- 2018 Pump/Motor order – released on February 16, 2018
- GWA Crane Repair –repairs have been made and unit is finally working; last error code being investigated; anticipate release this month
- Well Maintenance Rig – received; staff has been trained; deployment being planned

Wastewater Collection & Treatment

- CCTV:
  - Crews completed approximately 5 miles in February; work schedule impacted by smoke testing and inspections cross connections to storm drainage system in Hagatna per USEPA request.
  - Additional training for software and equipment maintenance being planned.
- Pump station facility maintenance efforts underway – more than 50% complete for initial in-house efforts.
- FOG Program
  - Program Manual revisions completed
  - 2nd Residential Collection Program being coordinated for Central service area
- Agana WWTP outfall pump repairs completed; mixer motors for floc basin repairs completed.

Meters

COMPLETED FIELD ACTIVITY JAN 2017 THRU MAR 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	TOTAL:	MARCH 2018 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	8138	484
GWA - Meter Exchange	393	179	220	276	482	353	501	807	1526	1039	452	259	239	1086	2120	9932	0
GWA - Verify Zero Report	30	124	114	94	96	402	261	199	550	89	82	169	356	106	117	2789	18
GWA - Verify Low Usage	0	0	0	2	37	36	196	488	657	202	127	612	858	1122	1055	5392	268
TOTAL:	453	312	343	743	1360	878	1351	2237	3733	2337	1095	1418	2203	3283	4505	26251	770

# OF METERS TESTED AS PER METER TEST FACILITY REPORTS:	345	350	144	252	305	210	302	397	1013	1130	927	704	721	1041	1347	9188	
# OF BACKBILLINGS APPLIED AS PER FINANCE REPORTS:	0	0	0	20	122	84	29	111	219	80	77	4	136	23	323	1228	$ 849,025.16

# OF FIELD CREW PERFORMING CHANGE OUTS:	19	10	13	9	21	21	14	24	35	28	28 *	28 *	5	13	13
# 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	9
# 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
# OF TEST FACILITY PERSONNEL TESTING METERS:	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2
# OF ACCOUNTANTS CALCULATING BACK BILLS:	0	0	0	2	3	2	2	3	3	2	2	2	2	2	2
TOTAL:	30	18	22	22	38	37	31	45	58	50	48	48	20	32	26

*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.

Marbo (Andy-South) Wells – Status

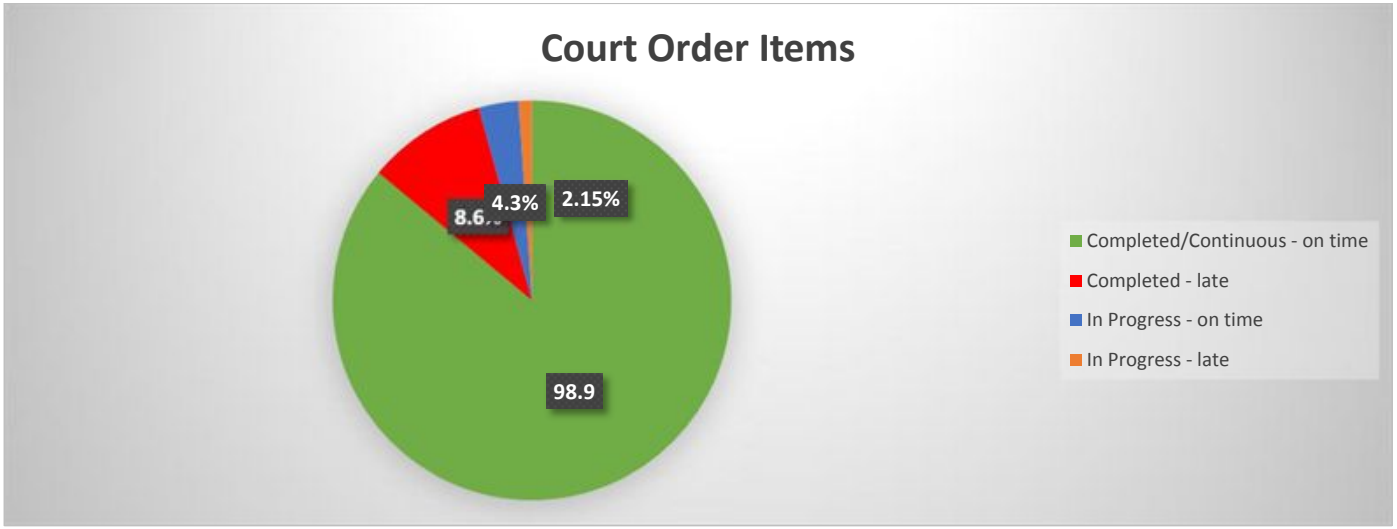
- Governor's Counsel provided recommended modifications to re-conveyance document to GSA
- GSA has not accepted the proposed changes
- Involuntary reversion appears imminent; GWA Counsel transmitted draft easement documents to GSA for consideration with DoD

One Guam Update

- Tumon Maui Well:
  - For the vent shaft leaks, GWA's Consultant B&C needs a work authorization so they will draft a proposal. Initial water flow from the vent shaft was caused by a failure of the level indicator which allowed the tank to overflow. A new level indicator will be employed to avoid the problem in the future.
- Santa Rosa Tank:
  - GWA and DOD finally decided on the location of the infrastructure required for the intertie.
  - GWA's Contractor will finalize the property maps for the intertie. It was agreed by all parties that the valve boxes will be located on GWA's property.
  - Once the maps are completed, the letter to General Cox will be finalized for the temporary easement.
- Although the construction of GWA's tank at Santa Rosa is underway, the intertie will be done as soon as the approval of the navy, the resolution of the temporary easement and the completion of the SOP and MOU for the intertie.
- Agat Santa Rita WWTP:
  - Navy heard there was an ordnance found on the site. NFM would like to know where it was found, on GWA's property or Navy's with GWA's easement. GWA will email the GPS coordinates
- Distribution Systems:
  - GWA continues to work with DOD to resolve wastewater line issues in the Leon Guerrero area.

Court Order

	Items	On-time Items Completed/Continuous	Items Delayed	Completed Late	Items on Schedule	Performance %
Court order total	93	80	1	9	3	98.9%



Status Information

- 1 item delayed
  - Meters
- Final Date to complete all Court Order items is December 31, 2020.
- Overflow or Bypass events reported to USEPA:
  - Southern SSES Phase II Location – Santa Rita;
  - Redondo Luchan, Dededo;
  - South Mariposa Court, Dededo.

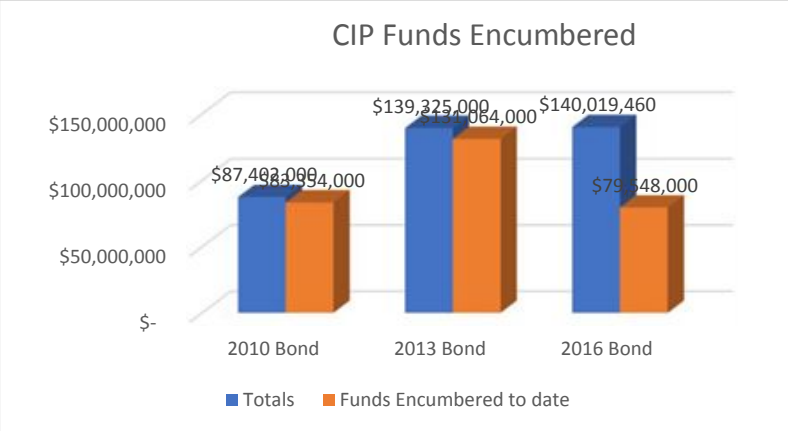
CIP Summary

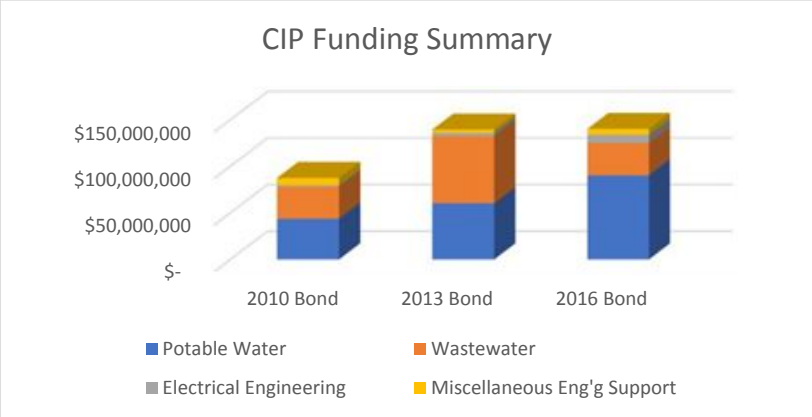
CIP Summary - Project Encumbrance

	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%			

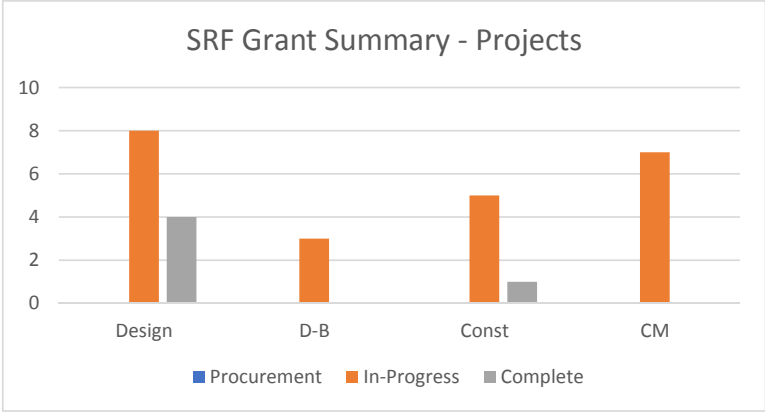




SRF Grant Summary

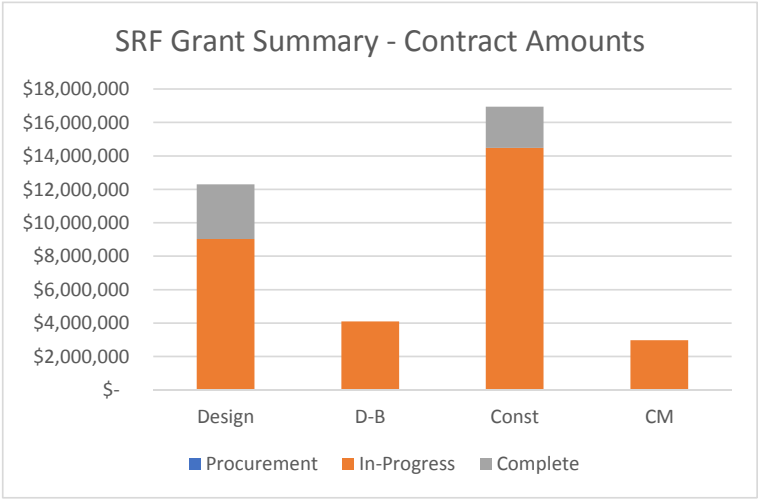
SRF Grant Summary - Projects

	Procurement	In-Progress	Complete	Totals	%
Design	0	8	4	12	43%
D-B	0	3	0	3	11%
Const	0	5	1	6	21%
CM	0	7	0	7	25%
Totals	0	23	5	28	
%	0%	82%	18%		



SRF Grant Summary - Contract Amounts

	Procurement	In-Progress	Complete	Totals	%
Design	$ -	$ 9,025,796	$ 3,279,629	$ 12,305,425	34%
D-B	$ -	$ 4,096,694		$ 4,096,694	11%
Const	$ -	$ 14,480,091	$ 2,470,658	$ 16,950,749	47%
CM	$ -	$ 2,977,793	$ -	$ 2,977,793	8%
Totals	$ -	$ 30,580,374	$ 5,750,287	$ 36,330,661	
%	0%	84%	16%		



OEA Grant Summary

- NDWWTP Upgrades
  - Design workshops for solids processes completed in early March; process and facility decisions finalized to allow design to proceed
  - USEPA NEPA Document preparation on-going; 30% Design Submittal is next major milestone
- Outfall Diffuser:
  - IFB has been issued (1/16/18);
  - Pre-bid meeting 1/26/18;
  - One bid received 2/23/18 – bid was rejected; GWA soliciting input to improve bid package; re-bid intended in coming months.
- Sewer Line Interceptor Design-Build
  - Multi-Step IFB has been issued.
  - Technical Proposal Due 3/15/18.
  - Several packages received and will be scored and evaluated.
  - Price Proposal Due 4/12/18.
  - B&C are preparing TFI documents to wave the MEC requirements.
  - GWA made the payment for the Right of Entry in the amount of $3,425.
- NGLA Observation wells – Design work on-going
  - There are no issues with the observation wells right now. Awaiting if the ROM (rough order of magnitude) is still pending from the DOD.

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		On-target	Project design schedule under review by PM/CM
NEPA Analysis and Determination	Feb-17		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	

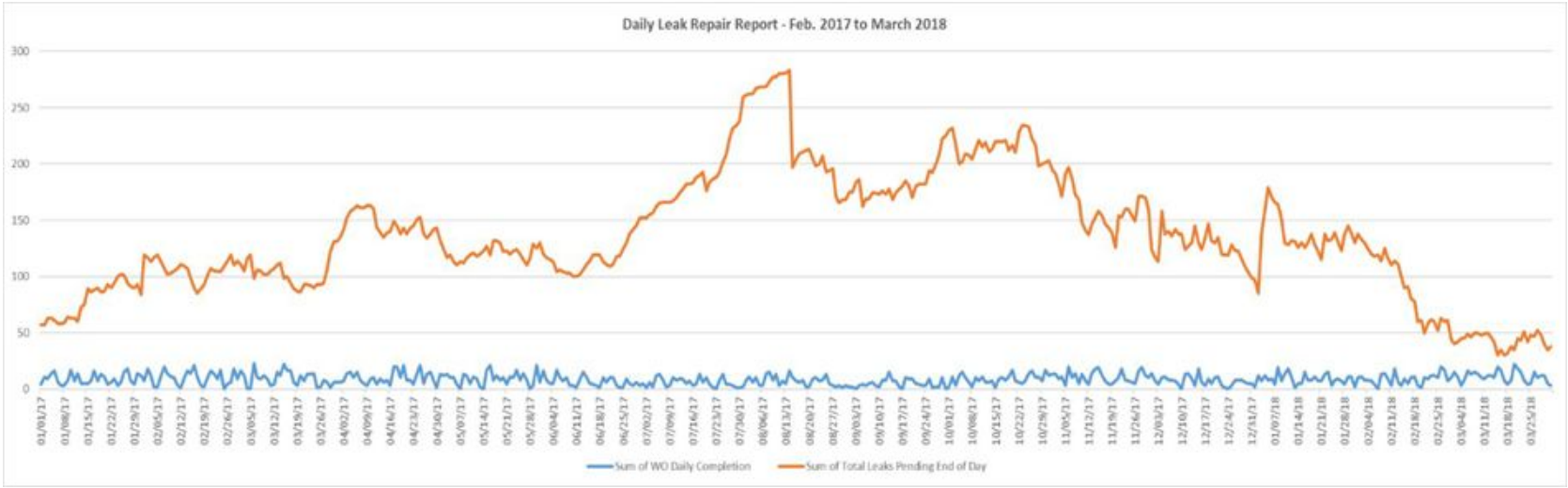
Land Acquisition Summary

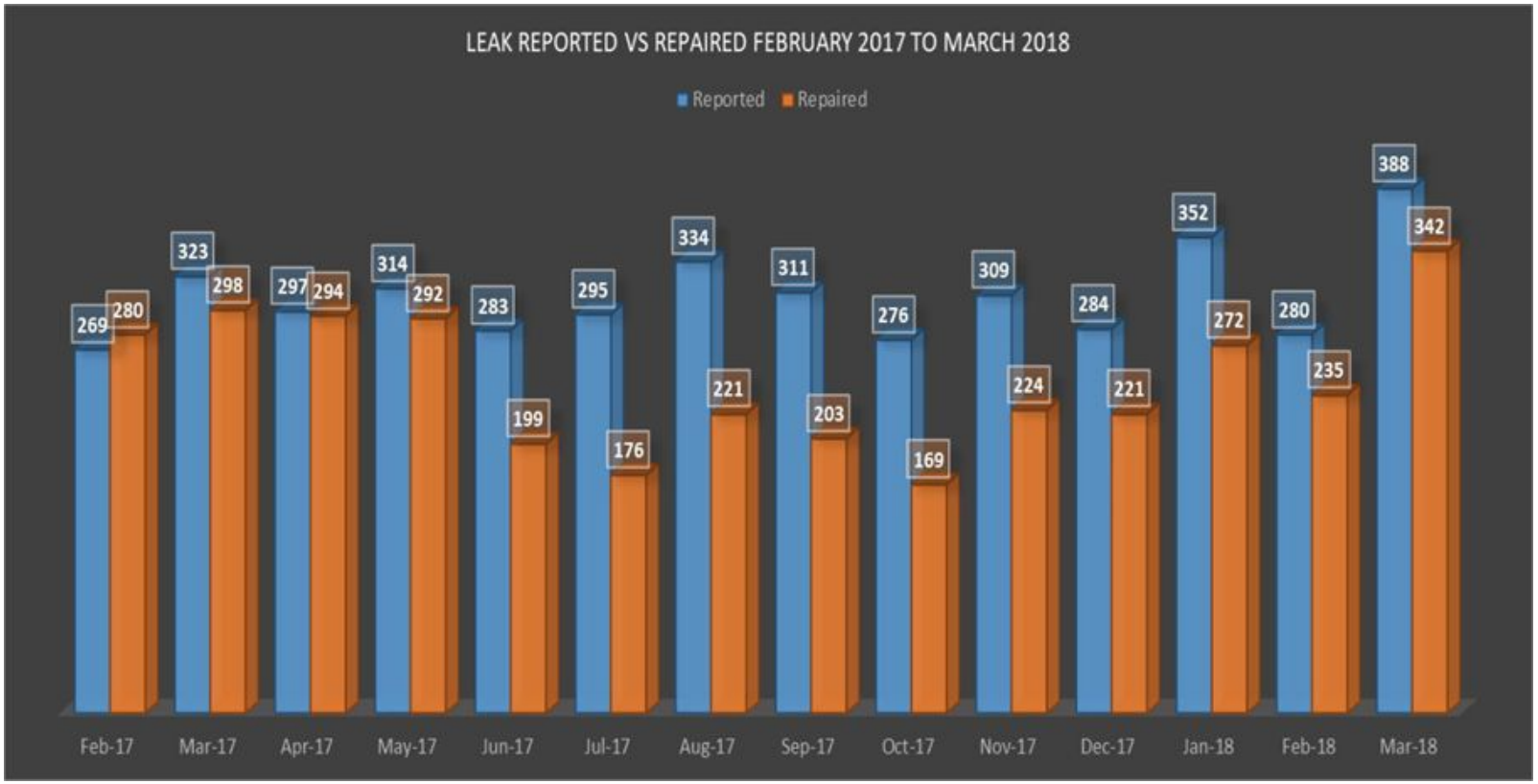
GWA Facility	Location	Gov't./Private/Other	Land Acquisition Status
Tanks	Ugum	Private	TGE to draft Letter of Decision for private property owners 11/09/17. Appraisal Services requested by TGE 04/02/18.
	Astumbo	Gov't./CLTC	GWA and DoLM working together on Land Registration process. Pending Notification of surrounding lot owner information from DoLM.
	Piti	Private	Letters of Intent letters received from private property owner to authorize GWA to begin preliminary geotechnical investigation and archaeological investigation 2/27/18.
Expansion of the Northern District Wastewater Treatment Plant (NDWWTP)	Dededo	Gov't./GALC	Funding Approval Request Sent to Finance 11/30/17; DoLM to draft Grant Deed 02/28/18. Title & Escrow Company have acknowledged underwriter approval of land acquisition 03/06/18. PUC approval 03/29/18.
Deep Well	A-12	Private	Property ownership vested in GWA 10/16/17.
	AG-12	Dept. of Agriculture/Manhita Farms	DCA is still verifying suspected buildings/concrete houses encroachments along the northerly and southerly boundaries 04/02/18.
	Y-8	Gov't./CLTC	GWA Land Agent to draft Grant Deed for property ownership under PL 22-18 - 04/09/18.
Booster Pump Station	Agfayan	Private	2nd follow up Letter of Intent delivered to private property owner on 04/09/18.
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 working to determine ownership 04/10/18.

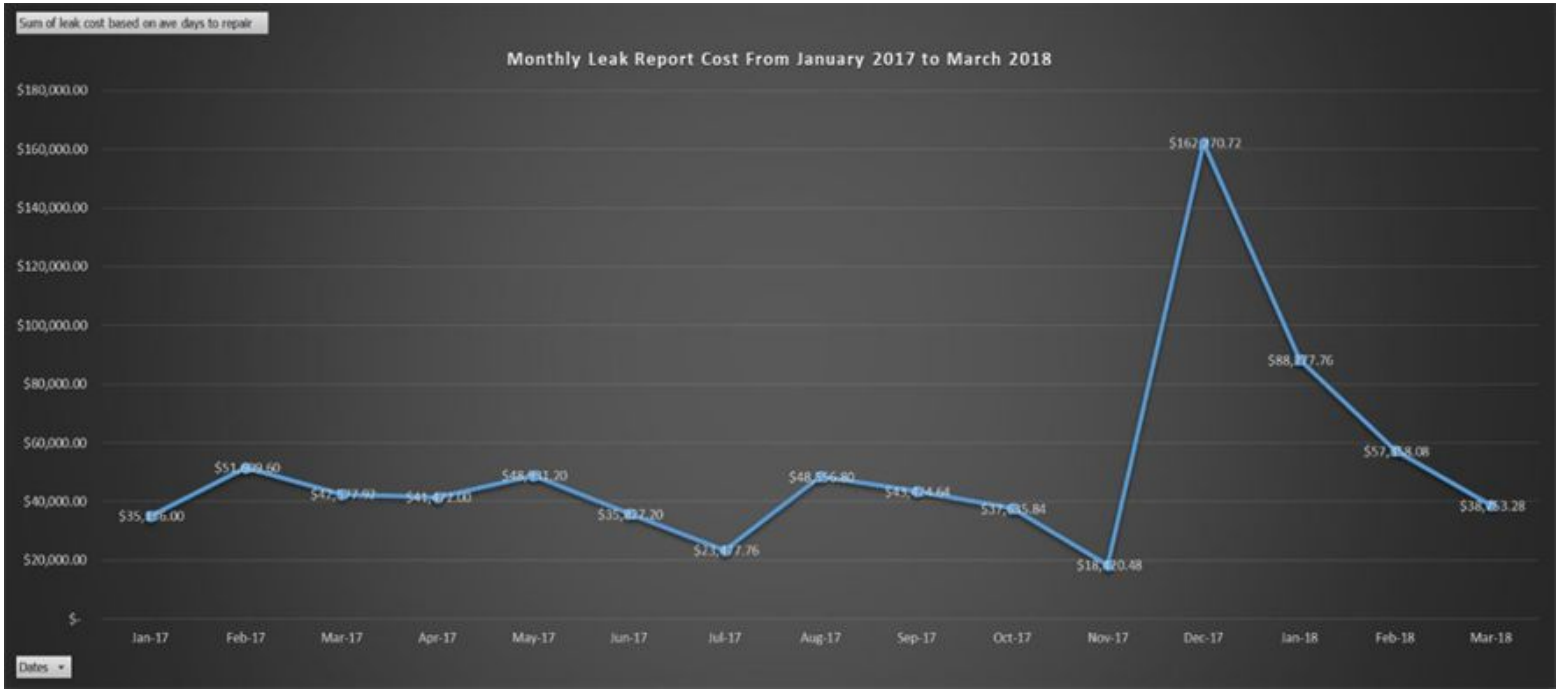
NRW – Update

- Water Audit update on-going
  - Production rates are being reviewed for accuracy and refined
  - Unmetered, Authorized uses are being quantified
  - Meter and billing inaccuracies are being reviewed and refined

Leak Repair Summary




LEAK REPORTED VS REPAIRED FEBRUARY 2017 TO MARCH 2018
Reported
Repaired
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
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



Assumptions:

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

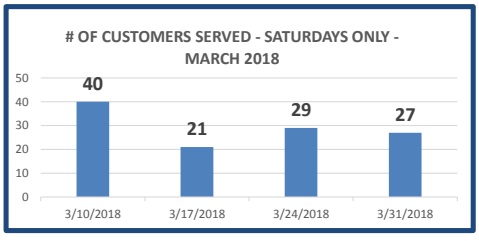
GWA Utility Services Division
Monthly Status Report
Month ending March 30, 2018

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE FEB 2018	FEB 2018 MONTHLY TOTAL	WEEK ENDING: 3/9/2018	WEEK ENDING: 3/16/2018	WEEK ENDING: 3/23/2018	WEEK ENDING: 3/30/2018	WEEKLY AVERAGE MARCH 2018	MARCH 2018 MONTHLY TOTAL
Collections Unit								
I. Number of accounts cut for nonpayment:	65	261	46	104	83	81	79	314
II. Number of accounts restored for nonpayment:	51	204	43	57	47	76	56	223
III. Number of No water reports responded to:	2	9	3	3	4	3	3	13
IV. Number of Secure/Unsecure valve reports responded to:	2	8	2	0	0	1	1	3
V. Number of Verify reads responded to:	1	4	0	0	0	0	0	0
VI. Number of new pay plans negotiated for **active** accounts :	192	768	189	210	203	195	199	797
VII. Number of active pay plans negotiated and ongoing :	1999		1834	1966	2101	2224	2031	
VIII. Number of **inactive** accounts with a payment arrangement:	6		14	14	14	14	14	
IX. Number of broken payment plans:	82	326	97	78	68	72	79	315
Customer Service Unit								
I. Service Delivery Points:								
a. GBN Public Service Building – Fadian								
i. Total Customers Assisted :	246	1232	267	243	245	288	261	1043
ii. Total Abandoned Requests :	16	78	11	17	22	24	19	74
iii. Average Wait Time:	9 minutes		10 minutes	7 minutes	6 minutes	8 minutes	8 minutes	
iv. Average Service Time:	13 minutes		11 minutes	14 minutes	13 minutes	13 minutes	13 minutes	
v. Breakdown by request type:								
1. Apply for water	57	283	63	61	64	65	63	253
2. Restore water cut for non payment	10	48	10	19	5	11	11	45
3. Terminate Water	15	76	23	11	14	19	17	67
4. Copy of Bill	33	167	43	24	38	29	34	134
5. Billing Dispute	59	295	49	52	61	75	59	237
6. Billing Dispute follow up	3	14	3	8	2	6	5	19
7. General Questions & Other	39	196	36	28	31	39	34	134
8. Report a water leak	3	13	3	1	1	3	2	8
9. Report water theft	0	1	0	1	0	0	0	1
10. Payment Arrangement	26	132	36	38	29	41	36	144
b. Julale Satellite Office – Hagatna								
i. Total Customers Assisted :	267	1334	226	283	227	261	249	997
ii. Total Abandoned Requests :	19	95	5	23	15	18	15	61
iii. Average Wait Time:	7 minutes		5 minutes	8 minutes	5 minutes	7 minutes	6 minutes	
iv. Average Service Time:	9 minutes		9 minutes	9 minutes	9 minutes	10 minutes	9 minutes	
v. Breakdown by request type:								
1. Apply for water	47	236	45	50	48	45	47	188
2. Restore water cut for non payment	10	48	9	7	3	10	7	29
3. Terminate Water	20	98	9	21	16	25	18	71
4. Copy of Bill	58	290	63	64	49	46	56	222
5. Billing Dispute	69	345	53	69	58	63	61	243
6. Billing Dispute follow up	2	8	1	3	4	8	4	16
7. General Questions & Other	35	177	17	29	24	23	23	93
8. Report a water leak	1	6	2	2	2	2	2	8
9. Report water theft	0	0	0	0	0	0	0	0
10. Payment Arrangement	30	148	29	41	29	44	36	143
c. Upper Tumon Satellite Office – Upper Tumon								
i. Total Customers Assisted :	325	1627	303	316	331	356	327	1306
ii. Total Abandoned Requests :	12	58	13	2	4	31	13	50
iii. Average Wait Time:	6 minutes		12 minutes	5 minutes	7 minutes	12 minutes	9 minutes	
iv. Average Service Time:	14 minutes		11 minutes	13 minutes	12 minutes	9 minutes	11 minutes	
v. Breakdown by request type:								
1. Apply for water	76	379	68	73	70	81	73	292
2. Restore water cut for non payment	12	62	15	20	22	29	22	86
3. Terminate Water	26	129	17	15	24	38	24	94
4. Copy of Bill	51	253	64	61	64	44	58	233
5. Billing Dispute	78	389	64	72	74	82	73	292
6. Billing Dispute follow up	5	25	2	1	2	3	2	8
7. General Questions & Other	35	173	46	38	38	28	38	150
8. Report a water leak	3	16	0	2	6	5	3	13
9. Report water theft	0	0	0	0	0	0	0	0
10. Payment Arrangement	42	209	28	42	37	49	39	156

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

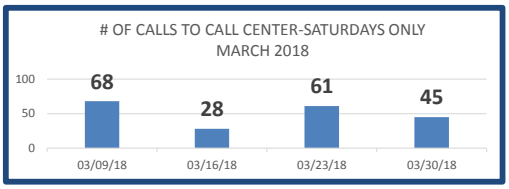
UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE FEB 2018	FEB 2018 MONTHLY TOTAL	WEEK ENDING: 3/9/2018	WEEK ENDING: 3/16/2018	WEEK ENDING: 3/23/2018	WEEK ENDING: 3/30/2018	WEEKLY AVERAGE MARCH 2018	MARCH 2018 MONTHLY TOTAL
d. Customer Call Center								
i. Calls Recieved :	1301	6503	1262	1322	1088	1221	1223	4893
ii. Calls Immediately Answered :	747	3733	691	823	707	835	764	3056
iii. Calls Abandoned	47	236	37	54	50	41	46	182
iv. Calls Handled by Voice mail:	505	2525	534	445	329	345	413	1653
v. Average duration of calls answered	6 minutes		5 minutes	4.5 minutes	4 minutes	4 minutes	4 minutes	
vi. Breakdown by request type:								
1. Apply for water			18	15	25	25	21	83
2. Restore water cut for non payment			18	23	30	42	28	113
3. Terminate Water			6	6	5	12	7	29
4. Copy of Bill			1	2	2	0	1	5
5. Billing Dispute			15	15	22	26	20	78
6. Billing Dispute follow up			10	26	32	51	30	119
7. General Questions & Other			296	220	334	298	287	1148
8. Report a water leak			2	12	27	18	15	59
9. Report water theft			0	1	2	1	1	4
10. Payment Arrangement			69	97	96	70	83	332
11. Pay by Phone			180	106	69	100	114	455
12. Other GWA Staff			79	59	117	126	95	381
13. Online Services			43	30	36	26	34	135
14. ATC/Email/Text/SMS issues			25	16	13	34	22	88
15. Dispatch			58	56	33	60	52	207
16. Back Billing			1	2	4	14	5	21
17. Secure/Unsecure Valve			26	22	6	13	17	67
18. No Water			11	57	25	28	30	121
e. Customer Emails:								
i. Emails Recieved :								
1. customers@guamwaterworks.org	42	208	43	88	100	86	79	317
Breakdown by request type (email):								
a. Apply for water	2	8	0	3	0	3	2	6
b. Terminate Water	1	7	1	3	3	3	3	10
c. Copy of Bill	2	9	2	3	0	0	1	5
d. Billing Dispute & follow up	8	42	8	13	18	12	13	51
e. General Questions & Other	18	88	14	23	24	17	20	78
f. Report a water leak	3	16	1	3	4	6	4	14
g. Report water theft	0	1	0	0	0	0	0	0
h. Online services inquiry	7	37	9	7	7	10	8	33
2. gwaservesme@guamwaterworks.org (realtors and prop	0	0	0	2	4	3	2	9
ii. Emails Replied (both):	32	158	8	31	40	32	28	111

f. Saturday Services: 9AM TO 1PM ONLY	AVERAGE	3/10/2018	3/17/2018	3/24/2018	3/31/2018	AVERAGE
	29	40	21	29	27	29
i. VISITS: Breakdown by request type:						
1. Apply for water	6	7	2	10	4	6
2. Restore water cut for non payment	1	1	0	1	0	1
3. Terminate Water	0	0	0	2	3	1
4. Copy of Bill	6	14	7	6	2	7
5. Billing Dispute	7	7	5	6	9	7
6. Billing Dispute follow up	0	0	0	0	0	0
7. General Questions & Other	4	5	1	1	3	3
8. Report a water leak	0	0	0	0	0	0
9. Report water theft	0	0	0	0	0	0
10. Payment Arrangement	6	6	6	3	6	5



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

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE FEB 2018	FEB 2018 MONTHLY TOTAL	WEEK ENDING: 3/9/2018	WEEK ENDING: 3/16/2018	WEEK ENDING: 3/23/2018	WEEK ENDING: 3/30/2018	WEEKLY AVERAGE MARCH 2018	MARCH 2018 MONTHLY TOTAL
ii. CALLS TO CALL CENTER (Saturday services only):			03/09/18	03/16/18	03/23/18	03/30/18		
			68	28	61	45		



Dispute Resolution & Document Control

I. Dispute Resolution:			03/09/18	03/16/18	03/23/18	03/30/18		
a. Number of disputed accounts resolved:	7	33	9	5	3	6	6	23
b. Number of disputed accounts under review:	179	895	179	179	179	179	179	716
II. Document Control:								
a. Number of field activities posted :	404	2018	428	519	450	548	486	1945
b. Number of field activities pending:	628	3142	446	782	565	401	549	2194

Disconnect/Reconnect Unit

I. Number of field activities received:	294	1471	246	234	252	271	251	1003
II. Number of field activities completed:	302	1511	258	267	271	281	269	1077
III.Number of field activities pending field action:	2	12	4	3	2	3	3	12

Meter Reading Unit

I. Number of meters read:			03/09/18	03/16/18	03/23/18	03/30/18		
a. Electronically Read Meters:	10089	50443	8421	11736	11581	5723	9365	37461
b. Manually Read Meters:	43	214	28	32	48	47	39	155
i. Unread meters (Meters scheduled to be read but not read):	50	252	33	49	55	27	41	164
ii. Number of data logs received:	38	188	29	31	29	39	32	128
iii. Number of data logs retrieved:	33	164	15	43	23	55	34	136
iv. Number of data logs pending field action:	16	79	25	20	24	0	17	69
v. Communication Errors/Reprogramming requests:	2	12	3	6	8	8	6	25
vi. Number of estimated readings (for the week):	37	185	27	39	39	27	33	132
vii. Reasons for Estimations:								
1. Cant locate meter:	2	8	0	0	2	3	1	5
2. Temporary Obstruction	1	3	0	0	3	1	1	4
3. Vicious Dog	1	3	0	1	0	0	0	1
4. Flooded meter	1	6	0	1	2	0	1	3
5. Corrective action requested (database corrections needed)	3	13	4	2	8	3	4	17
6. Possible changed out meter:	21	106	6	10	16	0	8	32
7. Communication/Programming error (code 92's):	8	40	9	6	6	1	6	22
8. Other:	7	35	1	5	9	2	4	17
1. Leaks detected on customer's private line:	1220	6102	1098	1198	1415	604	1079	4315
2. Reverse Flow Detected	47	235	29	32	28	30	30	119
3. No Usage Detected	325	1625	250	246	359	209	266	1064
4. Tamper Code	14	71	14	12	23	11	15	60
c. Electronic Read Percentage:	98%		98%	100%	99%	100%	99%	

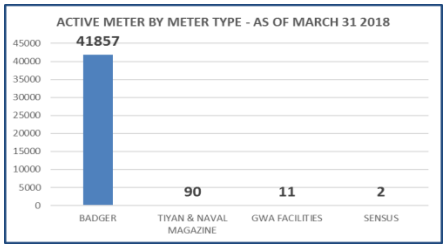
Revenue Protection Unit

I. Number of Inactive Still Consuming Reports rec'd & investigated:	1	5	2	1	2	1	2	6
II.Number of Illegal Connection reports rec'd & investigated:	1	3	0	1	0	0	0	1

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
April 2018

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

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A. Summary Table of 2010, 2013 and 2016 Bond

Potable Water

CIP #	CIP Description	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	20.93%	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%	0.00%
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	87.97%	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%	35.06%
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%	24.53%	$ -	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 Malojloj Elevated & Yigo Elevated	$ 200,000.00	100.00%	0.00%	$ 485,117.00	100.00%	0.00%	$ -	N/A	N/A
PW 12-08	Public Water System Asset Inventory/ Condition Assessment	$ 100,000.00	100.00%	0.00%	$ -	N/A	N/A	$ -	N/A	N/A
PW 12-09	Public Water System GIS & Mapping	$ 50,000.00	100.00%	0.00%	$ -	N/A	N/A	$ -	N/A	N/A
PW 14-01	Fire Hydrant Replacement Program	$ -	N/A	N/A	$ -	N/A	N/A	$ 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%	9.15%
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	0.00%	46.73%
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	24.27%	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	47.44%	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	37.32%	62.68%
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%	90.22%
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%	93.08%
		$ 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	53.83%	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	87	**	$83.354	95.37%	11.50
2013	$139.325	50	**	$132.278	94.94%	31.75
2015	$140.019	20		$81.534	58.23%	48.92
	* - End date November 2013 via CCU Resolution 06-FY2014					
	** - Includes month of March 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**	
90% Complete	**Activities/Notes:** GWA in negotiation with AECOM on SOW and fee proposal.	
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.	

RFP PW 09-11	**Northern and Southern Tank Phase I (Santa Rosa, Sinifa, Santa Rita) Construction Management**	
100% Complete	**Activities/Notes:** Contract fully executed. NTP issued April 6, 2018.	
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.	

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**	
70% Complete	**Activities/Notes:** IFB advertised 1/30/18, Pre-bid conference completed. Bid opening 3/28/18.	
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**	
90% Complete	**Activities/Notes:** GWA and CM firm currently in scope and fee negotiations.	
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**	
90% Complete	**Activities/Notes:** GWA and design firm currently in scope and fee negotiations.	
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:** Still waiting for Quotes for tank bypass/take down for Umatac #1 and Pigua. Still working on plan for Kaiser, Windward. Qoute for Agat #1 take down with contractor. WBP2 Controls working properly now which allows Agat Umatac Tank to be taken down.	**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) 45% (Design)	**Activities/Notes:** Designer still working on 60% design submittal. Expect by third week in April.	**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 – Tumon tank part of base bid. Hyundai – Hyundai tank part of base bid. Piti – GWA still evaluating alternative solutions to storage needs in Piti area. Manenggon –60% 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
80% Complete	**Activities/Notes:** Contractor completing work in Santa Rita (Santa Rosa Subd.)/terminating exiting service lateral. Continuing pipe installation at Asumption Drive and Agafa Gumas. GWA working on property and archeological issue with contractor.	**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
45% Complete	**Activities/Notes:** Designer still working on 60% 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
75% Complete	**Activities/Notes:** Yigo #1 finishing on-going. Yigo #2 concrete roof ongoing. Astumbo #1 shotcrete work curing. On-site pipe work at both sites on-going.	**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
75% 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
0% complete	**Activities/Notes:** Establishing project communications protocol, initiating project schedule review.	**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:** Clearing at Nissan on-going, waiting for GEPA sign off on permit.	**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:** No activities until bid 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	

INSPECTION 2010 BOND WW 12-05 2010 BOND WW 05-04 2013 BOND WW 05-04	**SSES Central Sewer System (HDR)**	**Start Date:** November 2014
100% Complete	**Activities/Notes:** Final report received from HDR. Project to close.	**Completion Date:** January 2018
CO 8 (c)	Engineering Inspection Services	
Project Description:	Work specifically required includes data analysis, development of hydraulic modeling, and development of an SSES fieldwork plan, manhole inspections, smoke testing, CCTV inspection and preparation of a Project Report.	

CONSTRUCTION MANAGEMENT WW 11-08	**Agat Santa Rita WWTP CM (GHD)**	**Start Date:** November 2014
100% (PH 1) 100% Complete (PH 2, Part 1) 90% Complete (PH 2, Part B)	**Activities/Notes:** Typical CM inspections on-going. Change order required to continue services through April 2018.	**Completion Date:** December 2017, projected through 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- 90% 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, April 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	**Completion Date:** Due to issue with

	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.	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
65% 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.)
	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
55% Complete	**Activities/Notes:** Field inspection, project coordination and invoice review on-gong.	**Completion Date:** April 2018 (this completion date will have to be extended.)
	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
75% Complete	**Activities/Notes:** New SPS, force main and gravity line installation along Route 17 on-going.	**Completion Date:** Phase II: 03/16/18 (this completion date will have to be extended.)
	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
20% 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.)
	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:** BMPs and temporary facilities are being installed. Clearing & Grading is on-going.	**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	**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.	

CONSTRUCTION MC 05-01	**New GWA Lab Construction (Mega United Construction)**	**Start Date:** NTP issued August 18, 2016
99% Complete	**Activities/Notes:** Permanent communication installed. Awaiting O&M manuals and as-build plans.	**Completion Date:** Early March 2018.
	Construction services	
Project Description:	The project will involve construction of a new building at the GWA Upper Tumon compound to house the laboratory section. The facility will include office, laboratory and storage space for the lab employees. The facility will also include a back-up generator.	

F. GIS Section

MAPPING MC 05-02	**Island Wide Survey-** **(Duenas, Camacho & Ass.)**	**Start Date:** December 2007
94% complete	**Activities/Notes:** Task #13 NTP issued, work near compete. Task #14 work on-going.	**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
35% complete	**Activities/Notes:** Surveyor continuing field work for 15 additional 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			
Building Permit	11	9	1	13			
Occupancy Permit	3	10	18	16			
New Installation	14	8	7	9			
Sewer Application	15	14	7	6			
Sewer Inspection	0	1	3	0			
Private Utility Acceptance	0	0	0	0			
Relocation of Water Meter	0	0	0	0			
Tapping-Water	1	1	0	0			
Tapping-Sewer	0	1	0	0			
Clearance-Water	3	2	7	10			
Clearance-Sewer	3	2	7	10			
Highway Encroachment	0	4	41	22			
Verification of Utilities	4	4	5	4			
Fire Flow Test	0	0	1	0			
Schedule Water Outage	0	1	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 04/16/18
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	RBI working on thrid location in Umatac.
				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			Procurement 75%. GWA to advertise rebid for thrid time by 04/30/18.
				Const. Mgmt		6/30/2017	6/30/2019			Procurement 90%. CM fee proposal received 6/23/17 ($698K); received revised proposal for Schedule A ($748K), and Schedule B ($718K) on 4/2/18. Will send recommendation by 4/20.

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	6	8/31/2017	10/1/2018	$ 4,554,451.00		· Contractor conducting exploratory excavations to resolve manhole relocation issue. · Existing concrete-encased utilities are preventing contractor from installing some manholes (especially MH#9 and MH#10) per the original design. CM coordinating between contractor, designer (SSFM), and BC to relocate these manholes as needed. BC/GWA (and maybe SSFM) would make the final call. · Precast manhole & surface concrete collar shop drawing is unacceptable to designer (SSFM) due to structural differences -- 5" vs. 10" top slab. PPBC has been instructed that they may proceed if they can find their own PE to stamp the design. · Flowable fill around manholes may be acceptable on a case-by-casis basis, where there are major existing utility conflicts. No additional cost to GWA would be permitted. · PCO #1: 52 calendar day extension mainly due to permitting delays. CM reviewing contractor's CO request. · PPBC has back-paid workers, Davis-Bacon requirements are satisfied and invoice #3 can be released.
				Const. Mgmt	8	9/19/2017	10/1/2018	$ 584,725.00		CM reviewing and commenting on submittals.
5	Brown & Caldwell Project Management	Brown & Caldwell to provide program management services and support.	T. Cruz	Design	4	3/24/2015	2/28/2019	$ 1,819,850.00	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	· Volumes 1, 2 and 3 Final Public Review Draft submitted on 4/10. · CCU approved Master Plan release at special work session on 4/10. · WRMPU Flyer and public meeting presentation will need to be updated for final financial plan. · Budget is expended - additional work for the public meetings and SFO Presentation ~$28,000. · Public meetings to be scheduled.
				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 to BC by 3/19/18. A-12: Design rate of 200 gpm (45.5 ft drawdown). D-05: Design rate of 125 gpm (39 ft drawdown). A-02: Design rate of 250 gpm (34.6 ft drawdown). F-03: Design rate of 200 gpm (1.5 ft drawdown).
				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		3/23/2017	3/22/2018			Procurement 50%; bid pacakge being prepared.
				Const. Mgmt		3/23/2017	3/22/2018			Procurement 50%: RFP package beiing preapred.
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	$ 1,531,456.33	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 finace 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 worl complete - Astumbo : all wrk complete
				Const. Mgmt	2	9/9/2016	3/30/2018	$ 299,519.00	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	5	4/5/2017	9/30/2017	$ 1,444,888.00	Pacific Rim	Project complete
				Const. Mgmt	3	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		6/30/2018	09/31/2019			Procurement 70%, · Rebid advertised on 3/23, Prebid on 4/11, Bid opening on 5/4. · Pre-bid meeting (4/11): Granite, Insituform, Propacific, BME, EMPSCO, Giant.
				Const. Mgmt		4/23/2017	12/31/2018	$ 647,000.00		Procurement 90%, EMPSCO original CM fee ($647K); revised fee is $647K + $157K if two contractors.
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	2	8/19/2016	3/30/2018	$ 6,120,353.44	Pacific Rim	· Main issues · EA/PRC still working on level sensor issues. · D-17/22 commissioned on Tuesday (4/10); GWA monitoring now. · Provided EA summary of VFD issues; PRC/EA working on determining VFD needed for D-18. · M-09: pump rate at 120 gpm; trying to determine actual pump in hole. · Response for D-03 submitted to PRC (4/5), and received response back 4/11. Met to discuss D-03 (4/12) with GWA, BC, EA.
				Const. Mgmt	4	3/22/2016	3/30/2018	$ 943,361.24	EA	GWA to present CCU resolution relative to proposed CM Change Order #4.

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	3	8/2/2016	7/2/2017	$ 1,189,815.00	ProPacific	· Contractor on notice since 12/01/2017 (via formal GWA letter) that continuing delays are unacceptable and grounds for potential default. · Santa Rita Wetland area (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. BC and GWA have discussed alternatives. Open cut through wetland may be least costly to GWA, but problematic construction-wise. Contractor prefers to construct a lift station. · Meeting scheduled for 4/13 with Tom, Kelly Clark, and Tony Chargualaf (and BC) to determine path forward. · On 3/30, BC/GWA held site visit with USACE. On 4/3, BC held site visit with GEPA. · PPBC continually bypass pumping through the wetland area. · Contractor also working on additional CIPP defects at 5680-5681. Awaiting IMS robotic cutter, currently in transit. · Baza Gardens area: Contractor awaiting IMS robotic cutter to finish reinstating laterals.
				Const. Mgmt	5	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		4/29/2017	4/30/2018			Procurement 50%; bid pacakge being prepared.
				Const. Mgmt		4/29/2017	4/30/2018			Procurement 50%: RFP package beiing preapred.
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	$ 477,999.50	EMPSCO	Talafofo Pump Station design /bid ackage recieced. Final Design of Chalan Pago Pump Station project under review by GWA. Change Order related to snails to be excuted.
				Construction		4/29/2017	4/30/2018			
				Const. Mgmt		4/29/2017	4/30/2018			

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.	Construtcion project complete.
				Const. Mgmt	6	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 3A above.		
				Construction	4	3/8/2017	12/30/2017	$ 2,470,658.00		GWA waiting on as-builts.
				Const. Mgmt	7	1/24/2017	12/30/2017	covered under 3A		CM work complete.

DASHBOARD

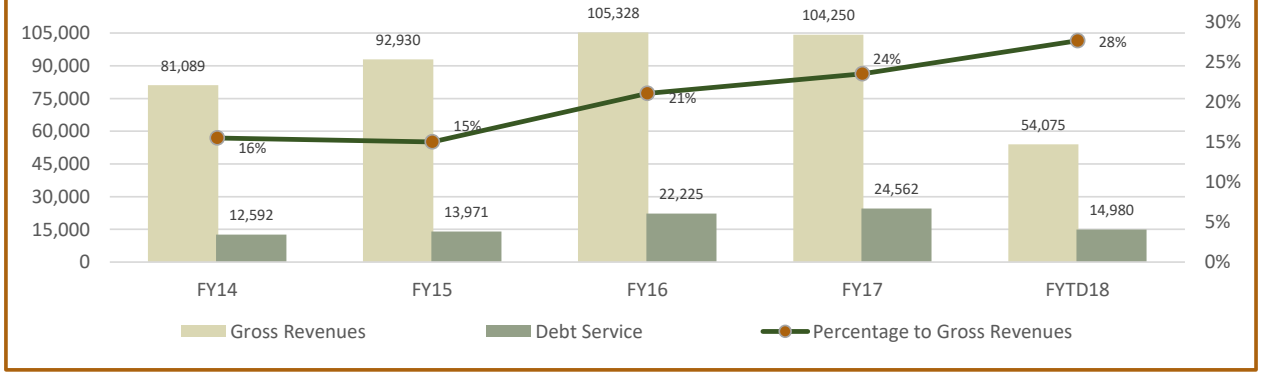
FYTD March 2018 Budget vs Actual ($000)

Category	Description	Budget FYTD18	Actual FYTD18	Variance
Rate Based Revenues	Water	$35,649	$34,054	($1,595)
	Wastewater	19,931	19,815	(115)
	Total	55,580	53,870	(1,710)
Operations & Maintenance	Salaries & Benefits	13,258	11,824	1,434
	Power	6,348	7,117	(769)
	Water Purchases	4,327	4,515	(188)
	A&G	6,433	5,255	1,179
	Contractual	2,239	2,229	11
	Total	$42,261	$41,830	$431

Key Financial Ratios ($000)

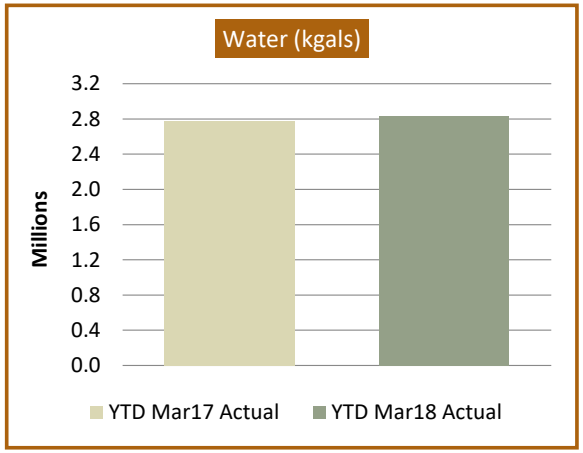
Category	FY18	FY17
Accounts Payable $$/Days	$4,234 / 38 days	$5,390 / 59 days
Accounts Receivable $$/Days	$15,522 / 51 days	$15,451 / 51 days
Days Cash On Hand	188 days	184 days
Annual Debt Service (Revenue Bonds)	$29,961	$24,563
Debt Service Coverage (Bond/PUC)	1.46 / 1.83	1.99 / 2.44

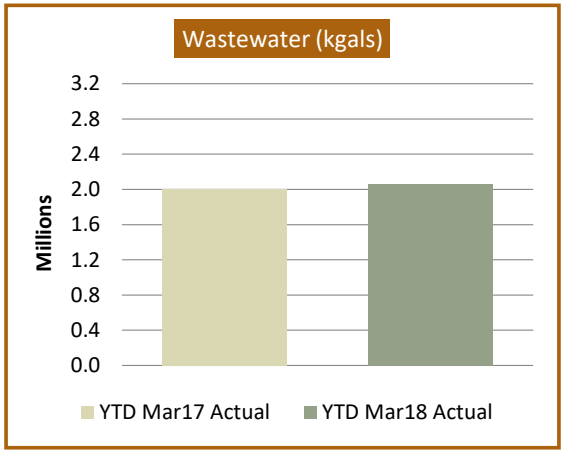
Debt as a Percent to Gross Revenue

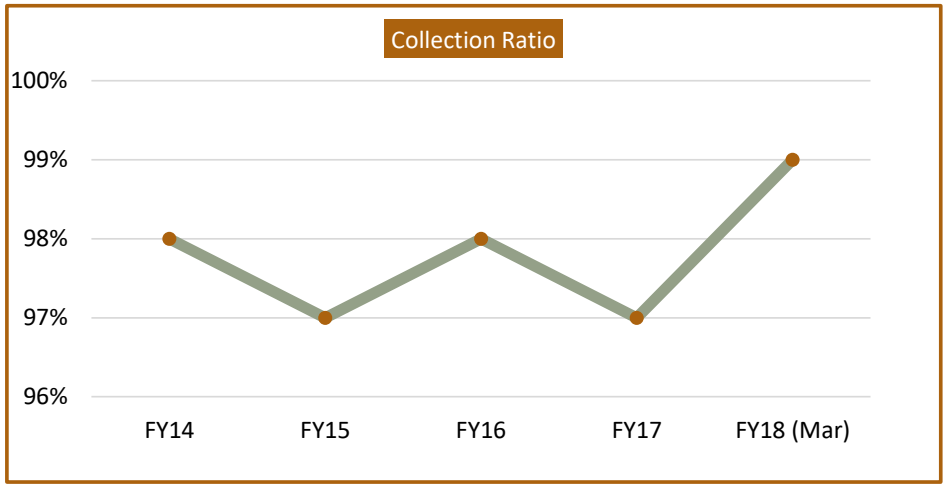


(1) Gross Revenues excludes SDC
(2) Debt Service Excludes Cap I

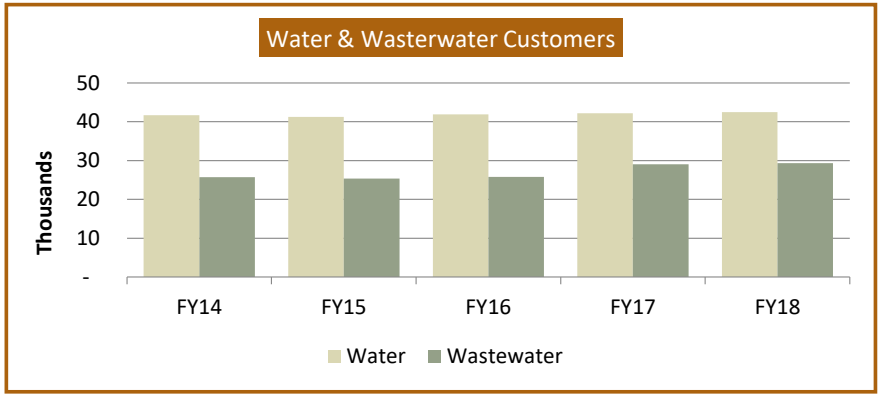
Water & Wastewater Analytics

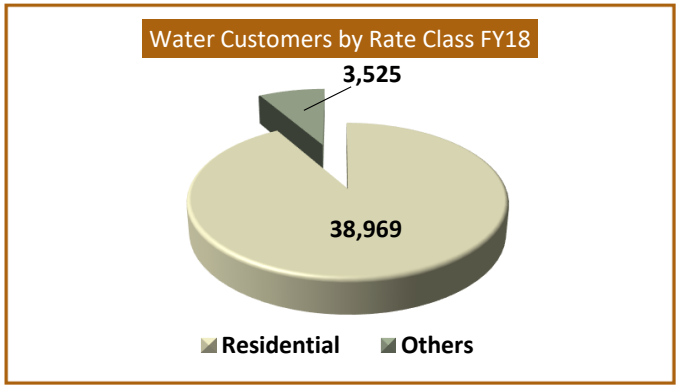


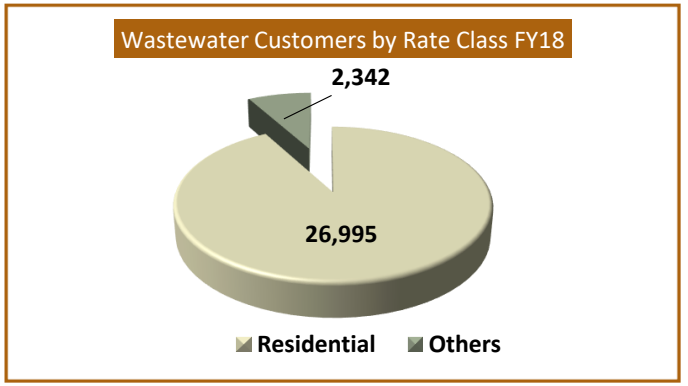


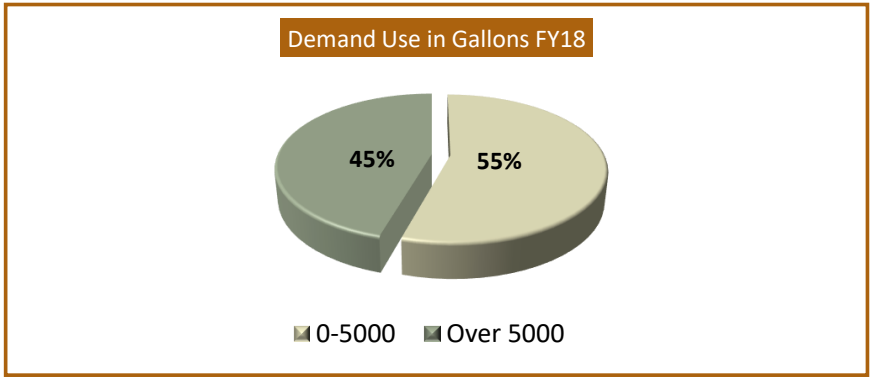


Water & Wastewater Customers





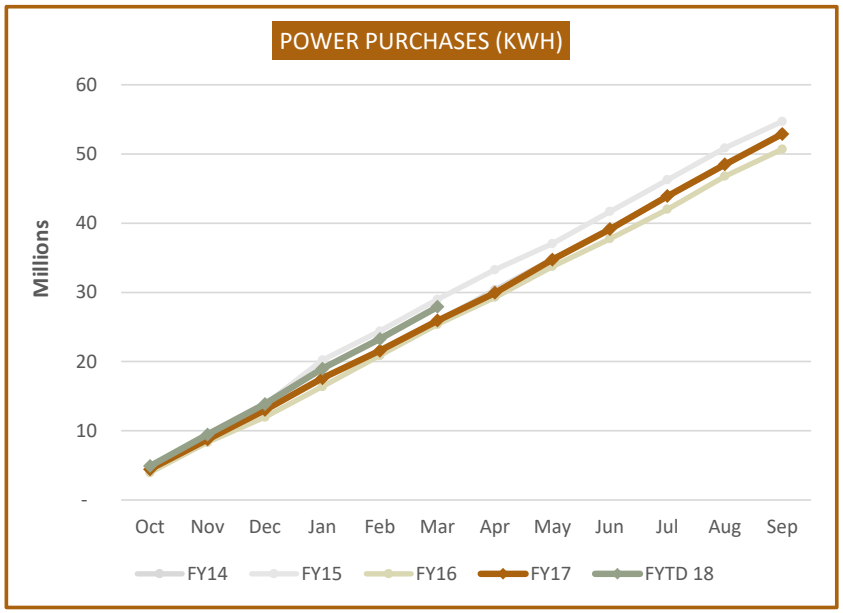


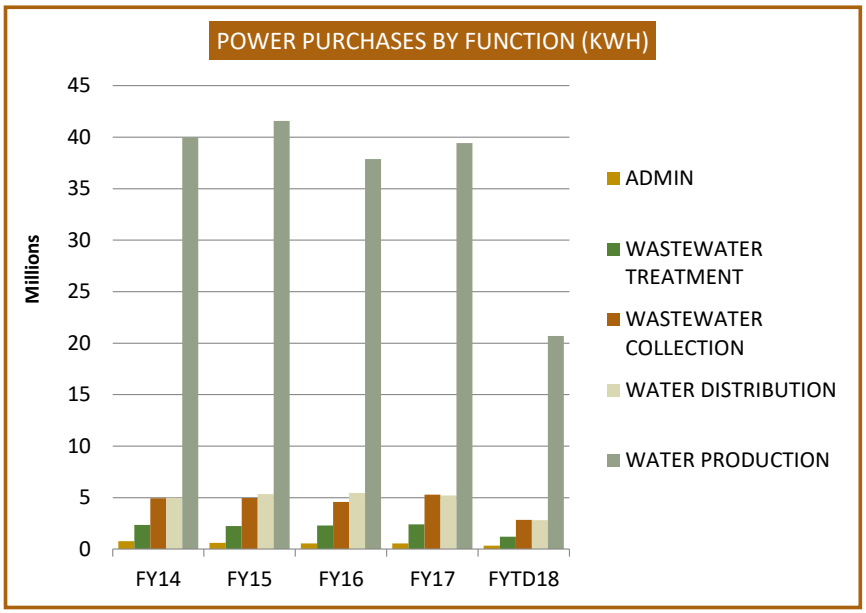


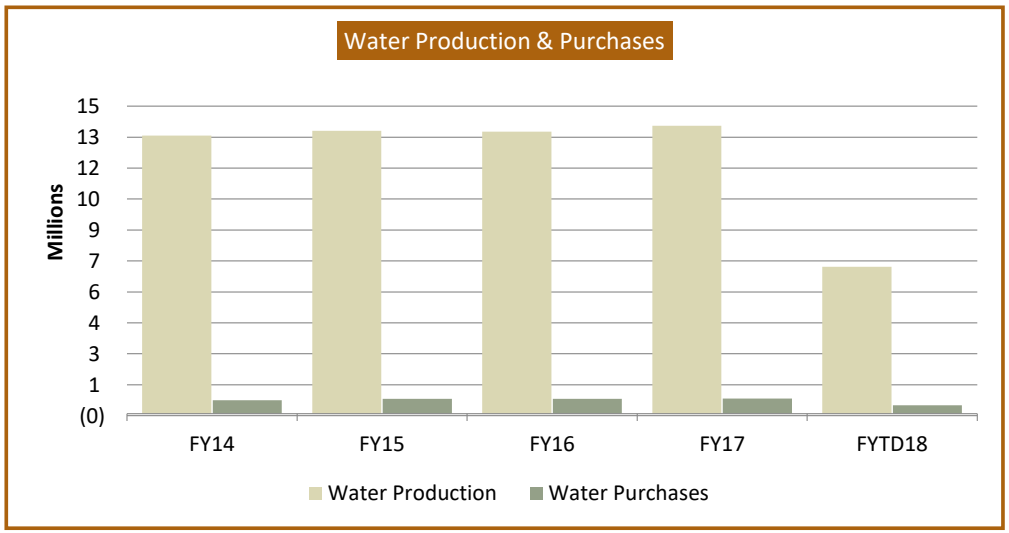
Top Ten Largest Water and Wastewater Customers – March 2018

Water			Wastewater		
Customer Name	FYTD18 Revenues	% of Total	Customer Name	FYTD18 Revenues	% of Total
1) MDI GUAM CORPORATION/LEOPALACE	$673,102	1.97%	1) AIR FORCE DOD	$1,838,771	9.28%
2) PACIFIC ISLANDS CLUB	572,714	1.68%	2) NAVY DOD	1,234,250	6.23%
3) HOTELS OF THE MARIANAS INC	494,531	1.45%	3) HOTELS OF THE MARIANAS INC	528,826	2.67%
4) HYATT	455,448	1.33%	4) HYATT	487,598	2.46%
5) HOTEL NIKKO GUAM	443,061	1.30%	5) HOTEL NIKKO GUAM	473,539	2.39%
6) GUAM REEF HOTEL INC	412,701	1.21%	6) GUAM REEF HOTEL INC	441,680	2.23%
7) SHERATON LAGUNA GUAM RESORT	393,433	1.15%	7) SHERATON LAGUNA GUAM RESORT	420,983	2.12%
8) MDI GUAM CORPORATION/WESTIN	320,996	0.94%	8) MDI GUAM CORPORATION/WESTIN	343,173	1.73%
9) OUTRIGGER GUAM RESORT	314,965	0.92%	9) OUTRIGGER GUAM RESORT	337,449	1.70%
10) TANOTA DEVELOPMENT LLC	304,080	0.89%	10) TANOTA DEVELOPMENT LLC	326,284	1.65%
Total	**$4,385,031**	**12.83%**	**Total**	**$6,432,553**	**32.47%**

Power, Water Purchases and Water Production

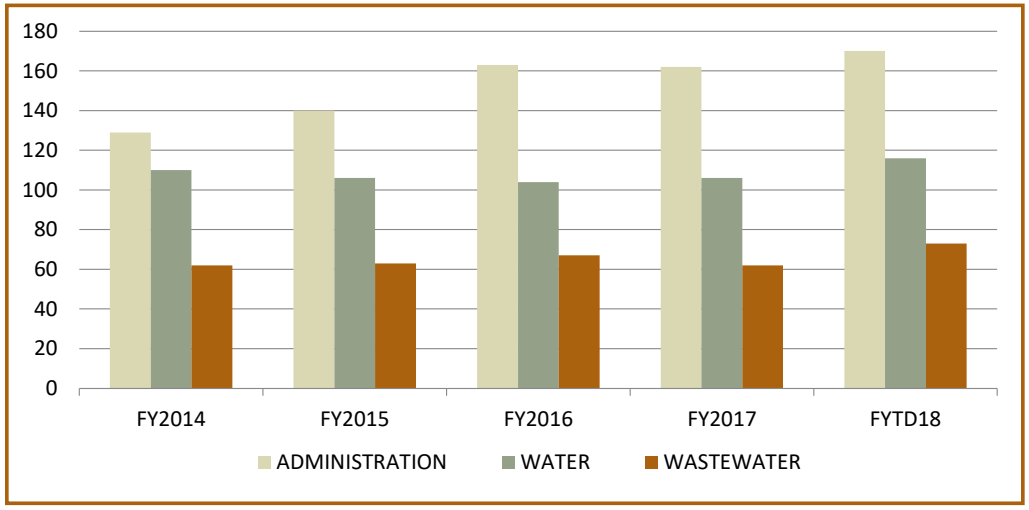




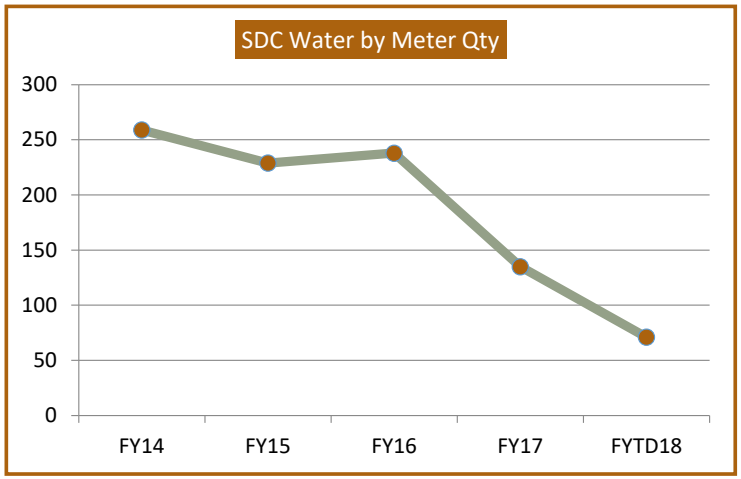


FTE by Major Division

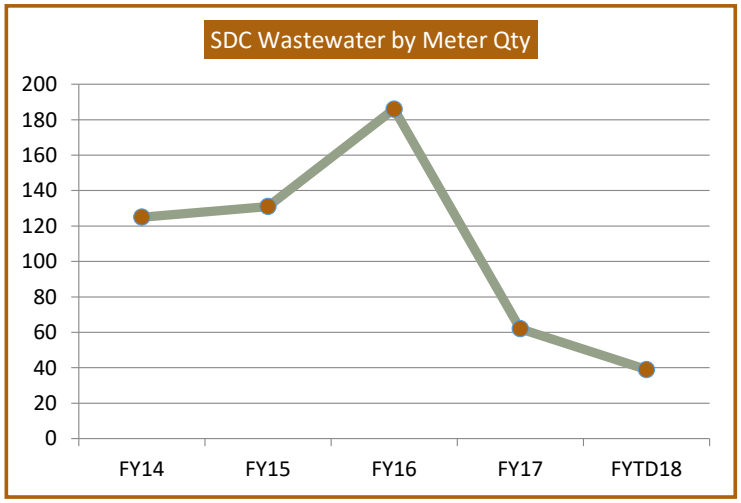
DIVISION	FY2014	FY2015	FY2016	FY2017	FYTD18
ADMINISTRATION	129	140	163	162	170
WATER	110	106	104	106	116
WASTEWATER	62	63	67	62	73
TOTAL NUMBER OF STAFF	301	309	334	330	359
Gross Salaries & Wages ($000)	15,532	15,805	16,442	17,210	8,896
Water Customers	41,702	41,274	41,858	42,181	42,494
Staff to Customers Ratio	0.72%	0.75%	0.80%	0.78%	0.84%



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	63
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	71



Actual Meter Sizes (Inches)	FY 2014	FY 2015	FY 2016	FY 2017	FYTD18
5/8 x 3/4	115	124	179	58	31
1	4	3	2	-	1
1 1/2	1	1	1	1	3
2	3	2	3	2	3
3	1	-	1	-	-
4	-	1	-	-	-
6	-	-	-	1	1
8	1	-	-	-	-
10	-	-	-	-	-
Total SDC by Wastewater	125	131	186	62	39

GUAM WATERWORKS AUTHORITY
MARCH 31, 2018
FINANCIAL AND RELATED REPORTS
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GUAM WATERWORKS AUTHORITY
Balance Sheet
March 31, 2018

SCHEDULE A

ASSETS	Unaudited March 31, 2018	Unaudited September 30, 2017	Increase (Decrease)
Current Assets:			
Cash:			
Unrestricted (Schedule G)	3,532,281	4,873,275	(1,340,994)
Restricted Funds (Schedule G)	69,847,981	65,124,400	4,723,580
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of $12,961,650 at Mar 31, 2018 and $12,619,034 at Sep 30, 2017	15,521,507	15,450,733	70,773
Other Receivable	2,546,374	8,433,446	(5,887,071)
Materials & Supplies Inventory, Net of Allowance for Obsolescence of $457,370 at Mar 31, 2018 and Sep 30, 2017	2,140,862	2,166,557	(25,695)
Total Current Assets	93,589,005	96,048,411	(2,459,406)
Property, Plant and Equipment			
Utility plant in service:			
Water system	327,940,050	327,484,191	455,858
Wastewater system	286,534,706	286,394,940	139,767
Non-utility property	18,945,633	18,938,255	7,378
Total property	633,420,389	632,817,387	603,003
Less Accumulated Depreciation	(295,212,630)	(286,043,580)	(9,169,050)
Land	1,163,298	1,110,998	52,300
Construction Work in Progress	152,253,920	111,695,887	40,558,033
Property, Plant and Equipment, net	491,624,977	459,580,691	32,044,286
Other noncurrent assets			
Restricted cash (Schedule G)	203,839,411	236,550,002	(32,710,591)
Investments (Schedule G)	45,441,883	41,042,038	4,399,844
Other Prepaid Expenses	375,173	551,128	(175,955)
Total other noncurrent assets	249,656,467	278,143,169	(28,486,702)
TOTAL ASSETS	834,870,449	833,772,271	1,098,178
Deferred outflows of resources:			
Debt defeasance due to bond refunding	8,060,648	1,695,981	6,364,667
Deferred outflows from pension	3,126,183	3,414,242	(288,060)
Total Assets and Deferred Outflows of Resources	**846,057,279**	**838,882,494**	**7,174,785**
LIABILITIES AND NET ASSETS			
Current Liabilities:			
Current maturities of long-term debt			
-Series 2010 Bond	-	1,655,000	(1,655,000)
-Series 2014 Refunding	3,385,000	3,385,000	-
-Notes Payable	2,873,988	2,873,988	-
Accounts Payable -Trade	4,234,374	5,390,256	(1,155,881)
Interest Payable	6,541,593	6,656,499	(114,906)
Accrued Payroll and Employee Benefits	2,295,757	2,604,471	(308,714)
Accrued Annual Leave	1,729,291	1,729,291	-
Current portion of employee annual leave	567,057	567,057	-
Contractors' Payable	7,956,409	13,950,287	(5,993,878)
Customer and Other Deposits	2,069,700	2,087,207	(17,507)
Total Current Liabilities	31,653,170	40,899,057	(9,245,887)
Long Term Debt, less current maturities			
Series 2010 Revenue Bond	-	112,870,000	(112,870,000)
Series 2013 Revenue Bond	172,630,000	172,630,000	-
Series 2014 Refunding	72,610,000	72,610,000	-
Series 2016 Revenue Bond	143,310,000	143,310,000	-
Series 2017 Refunding Bond	107,660,000	-	107,660,000
Unamortized Discount - Bond 2010	-	(1,867,525)	1,867,525
Unamortized Discount - Bond 2013	(1,313,201)	(1,338,751)	25,550
Unamortized Premium - Bond 2014	4,671,387	4,804,694	(133,307)
Unamortized Premium - Bond 2016	16,959,228	17,262,975	(303,747)
Unamortized Premium - Bond 2017	12,517,954	-	12,517,954
Notes Payable	4,229,815	5,697,499	(1,467,684)
Unfunded Ret Liability (GASB 67/68)	38,195,938	38,195,938	-
Employee Annual Leave, Less Current Portion	783,992	783,992	-
TOTAL LIABILITIES	603,908,282	605,857,879	(1,949,597)
Net Assets	**242,148,998**	**233,024,615**	**9,124,383**
Total Liabilities and Net Assets	**846,057,279**	**838,882,494**	**7,174,785**

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited) **SCHEDULE B**
Comparative Budget vs. Actual for the period ending March 31, 2018

	Month to Date		Variance
	Budget March-18	Actual (Unaudited) March-18	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,743,160	5,351,350	(391,810)
Wastewater Revenues	3,228,257	3,118,362	(109,895)
Legislative Surcharge	291,896	278,288	(13,608)
Other Revenues	57,638	42,056	(15,582)
System Development Charge	46,136	101,825	55,689
Total Operating Revenues	9,367,087	8,891,880	(475,207)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	721,113	737,916	(16,802)
Power Purchases	1,057,997	1,275,115	(217,118)
Total Utility Costs	1,779,110	2,013,030	(233,920)
Salaries and Wages	1,625,056	1,653,002	(27,946)
Pension and Benefits	584,558	529,011	55,547
Total Salaries and Benefits	2,209,614	2,182,014	27,601
Capitalized Labor and Benefits	(208,333)	-	(208,333)
Net Salaries and Benefits	2,001,281	2,182,014	(180,733)
Administrative and General Expenses			
Sludge removal	174,514	105,997	68,517
Chemicals	229,997	114,592	115,404
Materials & Supplies	237,400	146,914	90,486
Transportation	61,370	52,744	8,626
Communications	16,182	9,522	6,660
Claims	17,600	23,719	(6,119)
Insurance	97,757	75,480	22,277
Training & Travel	21,814	14,181	7,633
Advertising	13,910	19,950	(6,040)
Miscellaneous	115,515	60,506	55,009
Regulatory Expense	29,086	19,828	9,259
Bad Debts Provision	57,103	58,334	(1,231)
Total Administrative and General Expense	1,072,248	701,767	370,481
Depreciation Expense	1,528,175	1,528,175	(0)
Contractual Expense			
Audit & Computer Maint.	78,630	61,912	16,718
Building rental	37,955	37,028	927
Equipment rental	57,375	57,106	269
Legal	4,167	600	3,567
Laboratory	64,752	1,999	62,753
Other	130,363	93,461	36,902
Total Contractual Expense	373,241	252,105	121,136
Retiree Supp. Annuities and health care costs	240,008	236,940	3,068
Contribution to Government of Guam	49,500	49,833	(333)
Total Retiree Benefits	289,508	286,774	2,735
Total Operating Expenses	7,043,563	6,963,865	79,699
Earnings (Loss) from Operations	2,323,524	1,928,016	395,508
Interest Income-2013/14/16/17 Series Bond	15,727	196,587	180,860
Interest Income-Other Funds	2,935	32,637	29,702
Interest Income-SDC	2,414	1,772	(642)
Interest Expense- 2013/14/16/17 Series Bond	(2,625,587)	(2,224,260)	401,327
Interest Expense- ST BOG	(33,288)	(35,806)	(2,518)
Federal Expenditures	(51,332)	(60,070)	(8,738)
Loss on Asset Disposal	-	-	-
AFUDC	625,000	625,000	-
Amortization of Discount, Premium and Issuance Costs	(61,861)	(77,542)	(15,681)
Loss on Defeasance Bond05 Refunding	(15,218)	(12,444)	2,775
Deferred outflows from pension	(105,281)	(48,010)	57,271
Prior Year Adjustment	-	-	-
Total non-operating revenues (expenses)	(2,246,492)	(1,602,136)	644,356
Net Income (Loss) before capital contributions	77,032	325,880	248,848
Capital Contributions			
Grants from US Government	873,108	1,152,604	279,496
Grants from GovGuam & Others	-	-	-
Other Contributions	-	-	-
Total Capital Contributions	873,108	1,152,604	279,496
Change in Net Assets	950,140	1,478,485	528,344
Debt Service Calculation			
Earnings From Operations	2,323,524	1,928,016	
System Development Charge	(46,136)	(101,825)	
Retiree COLA	49,500	49,833	
Interest/Investment Income	2,935	32,637	
Depreciation	1,528,175	1,528,175	
Balance Available for Debt Service per Section 6.12	3,857,998	3,436,836	
Working Capital Reserve Available for Debt Service	935,321	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	4,376,652	4,372,157	
Debt Service			
Principal	433,333	433,333	
Interest	2,063,402	2,063,402	
Total	2,496,736	2,496,736	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.55	1.38	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.75	1.75	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited) **SCHEDULE C**
Comparative for the period ending March 31, 2018 and 2017

	Month to Date Actual (Unaudited) March-18	Month to Date Actual (Unaudited) March-17	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,351,350	5,331,404	19,946
Wastewater Revenues	3,118,362	3,099,528	18,834
Legislative Surcharge	278,288	267,269	11,019
Other Revenues	42,056	36,293	5,763
System Development Charge	101,825	72,662	29,162
Total Operating Revenues	8,891,880	8,807,155	84,725
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	737,916	609,094	(128,822)
Power Purchases	1,275,115	1,006,355	(268,760)
Total Utility Costs	2,013,030	1,615,449	(397,581)
Salaries and Wages	1,653,002	1,413,608	(239,394)
Pension and Benefits	529,011	477,546	(51,466)
Total Salaries and Benefits	2,182,014	1,891,154	(290,859)
Capitalized Labor and Benefits	-	(262,516)	(262,516)
Net Salaries and Benefits	2,182,014	1,628,638	(553,375)
Administrative and General Expenses			
Sludge removal	105,997	140,487	34,490
Chemicals	114,592	174,001	59,409
Materials & Supplies	146,914	128,788	(18,126)
Transportation	52,744	53,744	1,000
Communications	9,522	10,884	1,362
Claims	23,719	22,151	(1,568)
Insurance	75,480	90,603	15,123
Training & Travel	14,181	23,055	8,873
Advertising	19,950	8,988	(10,962)
Miscellaneous	60,506	71,997	11,490
Regulatory Expense	19,828	24,134	4,307
Bad Debts Provision	58,334	109,700	51,366
Total Administrative and General Expense	701,767	858,530	156,763
Depreciation Expense	1,528,175	1,402,038	(126,137)
Contractual Expense			
Audit & Computer Maint.	61,912	76,901	14,989
Building rental	37,028	36,557	(471)
Equipment rental	57,106	59,374	2,268
Legal	600	414	(186)
Laboratory	1,999	10,627	8,628
Other	93,461	156,747	63,286
Total Contractual Expense	252,105	340,619	88,514
Retiree Supp. Annuities and health care costs	236,940	231,895	(5,045)
Contribution to Government of Guam	49,833	49,500	(333)
Total Retiree Benefits	286,774	281,395	(5,378)
Total Operating Expenses	6,963,865	6,126,670	(837,194)
Earnings (Loss) from Operations	1,928,016	2,680,485	(752,469)
Interest Income-2013/14/16/17 Series Bond	196,587	65,354	131,233
Interest Income-Other Funds	32,637	10,032	22,605
Interest Income-SDC	1,772	1,060	713
Interest Expense- 2013/14/16/17 Series Bond	(2,224,260)	(2,220,744)	(3,516)
Interest Expense- ST BOG	(35,806)	(43,736)	7,930
Federal Expenditures	(60,070)	(42,501)	(17,569)
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)
Loss on Defeasance Bond05 Refunding	(12,444)	(15,218)	2,775
Deferred outflows from pension	(48,010)	(104,481)	56,471
Prior Year Adjustment	-	(26,756)	26,756
Total non-operating revenues (expenses)	(1,602,136)	(1,223,993)	(378,142)
Net Income (Loss) before capital contributions	325,880	1,456,492	(1,130,611)
Capital Contributions			
Grants from US Government	1,152,604	1,815,921	(663,317)
Grants from GovGuam & Others	-	1,664	(1,664)
Other Contributions	-	-	-
Total Capital Contributions	1,152,604	1,817,586	(664,981)
Change in Net Assets	1,478,485	3,274,078	(1,795,593)
Debt Service Calculation			
Earnings From Operations	1,928,016	2,680,485	
System Development Charge	(101,825)	(72,662)	
Retiree COLA	49,833	49,500	
Interest/Investment Income	32,637	10,032	
Depreciation	1,528,175	1,402,038	
Balance Available for Debt Service per Section 6.12	3,436,836	4,069,392	
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	4,372,157	5,001,527	
Debt Service			
Principal	433,333	420,000	
Interest	2,063,402	1,626,858	
Total	2,496,736	2,046,858	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.38	1.99	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.75	2.44	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited) **SCHEDULE D**
Comparative Budget vs. Actual for the period ending March 31, 2018

	Year to Date			Variance
	Budget	Encumbered	Actual (Unaudited)	Favorable /
	March-18	March-18	March-18	(Unfavorable)
OPERATING REVENUES				
Water Revenues	34,458,960		32,913,919	(1,545,042)
Wastewater Revenues	19,369,544		19,258,143	(111,401)
Legislative Surcharge	1,751,376		1,697,671	(53,705)
Other Revenues	345,828		205,242	(140,586)
System Development Charge	276,815		655,080	378,266
Total Operating Revenues	56,202,523		54,730,055	(1,472,468)
OPERATING AND MAINTENANCE EXPENSES				
Water Purchases	4,326,679		4,514,543	(187,865)
Power Purchases	6,347,981		7,116,770	(768,788)
Total Utility Costs	10,674,660		11,631,313	(956,653)
Salaries and Wages	9,750,336		8,896,287	854,049
Pension and Benefits	3,507,350		2,927,571	579,779
Total Salaries and Benefits	13,257,685		11,823,858	1,433,827
Capitalized Labor and Benefits	(1,250,000)		-	(1,250,000)
Net Salaries and Benefits	12,007,685		11,823,858	183,827
Administrative and General Expenses				
Sludge removal	1,047,084		620,314	426,769
Chemicals	1,229,981		1,169,476	60,505
Materials & Supplies	1,667,399	207,509	1,288,814	171,076
Transportation	314,223	74,404	231,886	7,933
Communications	97,091	6,517	90,325	249
Claims	66,600	9,000	32,209	25,391
Insurance	628,539		454,581	173,958
Training & Travel	130,885	33,170	49,599	48,116
Advertising	83,460	35,103	47,293	1,064
Miscellaneous	693,093	73,973	505,791	113,329
Regulatory Expense	132,518		114,266	18,252
Bad Debts Provision	342,616		650,000	(307,385)
Total Administrative and General Expense	6,433,489	439,676	5,254,555	739,257
Depreciation Expense	9,169,048		9,169,050	(2)
Contractual Expense				
Audit & Computer Maint.	486,782	142,082	343,948	752
Building rental	227,730		222,165	5,565
Equipment rental	344,248		468,545	(124,297)
Legal	25,000		3,000	22,000
Laboratory	373,510	181,312	191,923	275
Other	782,179	-	999,014	(216,836)
Total Contractual Expense	2,239,447	323,394	2,228,595	(312,542)
Retiree Supp. Annuities and health care costs	1,440,050		1,423,935	16,115
Contribution to Government of Guam	297,000		299,000	(2,000)
Total Retiree Benefits	1,737,050	-	1,722,935	14,115
Total Operating Expenses	42,261,380	763,071	41,830,306	(331,997)
Earnings (Loss) from Operations	13,941,144	(763,071)	12,899,750	(1,804,465)
Interest Income-2013/14/16/17 Series Bond	94,360		1,064,453	970,094
Interest Income-Other Funds	17,608		169,036	151,427
Interest Income-SDC	14,486		22,381	7,896
Interest Expense- 2013/14/16/17 Series Bond	(15,753,523)		(13,174,667)	2,578,857
Interest Expense- ST BOG	(199,729)		(218,891)	(19,162)
Federal Expenditures	(307,993)		(260,186)	47,807
Loss on Asset Disposal	-		-	-
AFUDC	3,750,000		3,750,000	-
Amortization of Discount, Premium and Issuance Costs	(371,165)		(47,044)	324,121
Loss on Defeasance Bond05 Refunding	(91,310)		(74,661)	16,649
Deferred outflows from pension	(631,684)		(288,060)	343,624
Prior Year Adjustment	-		9,284	9,284
Total non-operating revenues (expenses)	(13,478,951)	-	(9,048,355)	4,430,596
Net Income (Loss) before capital contributions	462,193	(763,071)	3,851,395	2,626,132
Capital Contributions				
Grants from US Government	5,238,649		5,135,255	(103,394)
Grants from GovGuam & Others	-		137,733	137,733
Other Contributions	-		-	-
Total Capital Contributions	5,238,649	-	5,272,988	34,338
Change in Net Assets	5,700,842	(763,071)	9,124,383	2,660,470
Debt Service Calculation				
Earnings From Operations	13,941,144		12,899,750	
System Development Charge	(276,815)		(655,080)	
Retiree COLA	297,000		299,000	
Interest/Investment Income	17,608		169,036	
Depreciation	9,169,048		9,169,050	
Balance Available for Debt Service per Section 6.12	23,147,985		21,881,755	
Working Capital Reserve Available for Debt Service	5,611,926		5,592,805	
Transfer to Working Capital- Debt Service Reserve	(900,000)		-	
Transfer to Working Capital- O&M Reserve	(1,600,000)		-	
Balance Available for Debt Service inclusive of reserves	26,259,912		27,474,560	
Debt Service				
Principal	2,600,000		2,600,000	
Interest	12,380,413		12,380,413	
Total	14,980,413		14,980,413	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.55		1.46	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.75		1.83	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited)
Comparative for the period ending March 31, 2018 and 2017

SCHEDULE E

	Year to Date ACTUAL (Unaudited) March-18	Year to Date ACTUAL (Unaudited) March-17	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	32,913,919	31,988,421	925,497
Wastewater Revenues	19,258,143	18,597,166	660,977
Legislative Surcharge	1,697,671	1,603,613	94,058
Other Revenues	205,242	217,757	(12,515)
System Development Charge	655,080	435,973	219,107
Total Operating Revenues	54,730,055	52,842,931	1,887,125
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	4,514,543	3,654,562	(859,981)
Power Purchases	7,116,770	6,038,131	(1,078,638)
Total Utility Costs	11,631,313	9,692,694	(1,938,619)
Salaries and Wages	8,896,287	8,481,651	(414,636)
Pension and Benefits	2,927,571	2,865,274	(62,297)
Total Salaries and Benefits	11,823,858	11,346,925	(476,933)
Capitalized Labor and Benefits	-	(1,575,095)	(1,575,095)
Net Salaries and Benefits	11,823,858	9,771,831	(2,052,027)
Administrative and General Expenses			
Sludge removal	620,314	842,921	222,606
Chemicals	1,169,476	1,044,007	(125,470)
Materials & Supplies	1,288,814	772,726	(516,088)
Transportation	231,886	322,466	90,581
Communications	90,325	65,303	(25,022)
Claims	32,209	132,906	100,697
Insurance	454,581	543,616	89,035
Training & Travel	49,599	138,327	88,728
Advertising	47,293	53,927	6,633
Miscellaneous	505,791	431,979	(73,811)
Regulatory Expense	114,266	144,807	30,541
Bad Debts Provision	650,000	658,198	8,198
Total Administrative and General Expense	5,254,555	5,151,183	(103,372)
Depreciation Expense	9,169,050	8,412,227	(756,823)
Contractual Expense			
Audit & Computer Maint.	343,948	461,406	117,458
Building rental	222,165	219,339	(2,826)
Equipment rental	468,545	356,243	(112,301)
Legal	3,000	2,484	(516)
Laboratory	191,923	63,759	(128,164)
Other	999,014	940,483	(58,531)
Total Contractual Expense	2,228,595	2,043,714	(184,881)
Retiree Supp. Annuities and health care costs	1,423,935	1,391,372	(32,562)
Contribution to Government of Guam	299,000	297,000	(2,000)
Total Retiree Benefits	1,722,935	1,688,372	(34,562)
Total Operating Expenses	41,830,306	36,760,021	(5,070,284)
Earnings (Loss) from Operations	12,899,750	16,082,909	(3,183,159)
Interest Income-2013/14/16/17 Series Bond	1,064,453	392,126	672,327
Interest Income-Other Funds	169,036	60,191	108,845
Interest Income-SDC	22,381	6,359	16,023
Interest Expense- 2013/14/16/17 Series Bond	(13,174,667)	(13,324,463)	149,796
Interest Expense- ST BOG	(218,891)	(262,418)	43,526
Federal Expenditures	(260,186)	(255,009)	(5,178)
Loss on Asset Disposal	-	(486,627)	486,627
AFUDC	3,750,000	7,033,446	(3,283,446)
Amortization of Discount, Premium and Issuance Costs	(47,044)	371,164	(418,208)
Loss on Defeasance Bond05 Refunding	(74,661)	(91,310)	16,649
Deferred outflows from pension	(288,060)	(626,884)	338,824
Prior Year Adjustment	9,284	(160,534)	169,818
Total non-operating revenues (expenses)	(9,048,355)	(7,343,959)	(1,704,396)
Net Income (Loss) before capital contributions	3,851,395	8,738,950	(4,887,555)
Capital Contributions			
Grants from US Government	5,135,255	10,895,529	(5,760,274)
Grants from GovGuam & Others	137,733	9,986	127,746
Other Contributions	-	-	-
Total Capital Contributions	5,272,988	10,905,515	(5,632,528)
Change in Net Assets	9,124,383	19,644,466	(10,520,083)
Debt Service Calculation			
Earnings From Operations	12,899,750	16,082,909	
System Development Charge	(655,080)	(435,973)	
Retiree COLA	299,000	297,000	
Interest/Investment Income	169,036	60,191	
Depreciation	9,169,050	8,412,227	
Balance Available for Debt Service per Section 6.12	21,881,755	24,416,355	
Working Capital Reserve Available for Debt Service	5,592,805	5,592,805	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	27,474,560	30,009,160	
Debt Service			
Principal	2,600,000	2,520,000	
Interest	12,380,413	9,761,151	
Total	14,980,413	12,281,151	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.46	1.99	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.83	2.44	

SCHEDULE F

Bond Compliance

		($$$) Per Indenture	As of 3/31/18 ($$$) 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 2013, 2014 Refunding, 2016 and 2017 Refunding)*	$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 March 31, 2018	Unaudited September 30, 2017	Increase (Decrease)
UNRESTRICTED			
Change Fund	2,000	2,000	0
Petty Cash	5,000	5,000	0
BOG - General Fund	3,495,242	4,836,236	(1,340,994)
BOG - PRN Payroll	30,039	30,039	0
Sub-total Unrestricted	3,532,281	4,873,275	(1,340,994)
RESTRICTED			
BOG - On Line Payment	-	-	0
BOG - Sweep Account	-	-	0
Bank of Hawaii	127,213	133,931	(6,718)
ANZ Bank	-	(0)	0
First Hawaiian Bank	30,972	10,261	20,711
Bank Pacific	11,550	15,825	(4,276)
Community First FCU	5,191	3,448	1,743
BOG - Customer Refunds	1,847,650	1,831,426	16,224
Bank Pacific - Surcharge	395,053	278,142	116,911
Bank Pacific - Escrow Deposit	666,636	666,140	496
BOG Emergency Reserve Fund	6,125	6,122	4
BOG - Revenue Trust	698,048	201,614	496,434
BOG Revenue Trust Fund	8,812,897	7,782,227	1,030,670
BOG Capital Improvement Fund-Bond	5,598	5,598	0
BOG Capital Improvement Revenue Fund	2,223,146	-	2,223,146
BOG-O & M Reserve	13,569,935	13,516,540	53,395
BOG-Debt Service Reserve	11,262,149	11,217,733	44,415
BOG-CAPEX Reserve	15,522,420	15,462,869	59,551
BOG Sewer Hookup Revolving Fund	64,645	63,590	1,056
BOG Subord. Sec. Fund	859,233	859,233	0
BOG Operation and Maintenance Fund	3,083,482	3,083,482	0
	59,191,944	55,138,182	4,053,762
BOG - SDC Deposit	4,906,037	1,486,219	3,419,819
BOG - SDC CDs	5,750,000	8,500,000	(2,750,000)
Total Restricted	69,847,981	65,124,400	4,723,580
Reserve Funds			
BOG Series 05 OMRRRF Fund	17,423,213	17,423,213	0
BOG Series 13 Construction Fund	53,924,084	74,461,765	(20,537,682)
BOG Series 14 Refunding Construction Fund	736,669	771,281	(34,612)
BOG Series 16 Construction Fund	123,114,351	132,811,449	(9,697,098)
BOG Series 16 Cap Int Fund	-	1,782,982	(1,782,982)
BOG Series 17 Refunding Construction Fund	8,593,596	9,299,311	(705,716)
BOG Series 17 Refunding COI Fund	47,499	-	47,499
Total Restricted - Held by Trustee	203,839,411	236,550,002	(32,710,591)
USB Series 2013 Debt Service Fund	2,344,613	2,336,754	7,859
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	0
USB Series 2014 Refunding Debt Service Fu	3,542,300	1,796,559	1,745,742
USB Series 2014 Refunding Debt Service Re	7,760,536	7,707,602	52,934
USB Series 2016 Debt Service Fund	1,793,435	130	1,793,305
USB Series 2016 Debt Service Reserve Fund	7,594,587	7,582,725	11,862
USB Series 2010 Debt Service Fund	1,379,476	2,020,121	(640,645)
USB Series 2017 Refunding Debt Service Re	7,566,460	7,566,460	0
USB Series 2017 Debt Service Fund	1,428,787	-	1,428,787
Total Investments	45,441,883	41,042,038	4,399,844
Total Restricted and Unrestricted Cash	322,661,556	347,589,716	(24,928,160)

SCHEDULE H

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

	YTD Mar-18
Increase (decrease) in cash	
Cash flows from operating activities:	
Cash received from trade and others	54,337,490
Cash payments to suppliers/contractors for goods and services	(19,526,968)
Cash payments to employees for services	(13,075,902)
Net cash provided by operating activities	21,734,620
Cash flows from capital and related financing activities:	
Contributed capital received (grants)	10,875,442
Acquisition of utility plant	(43,457,213)
Repayment of Long Term Debt	7,108,975
Interest expense	(15,376,629)
Net cash provided by (used in) capital and related financing activities	(40,849,426)
Cash flows from investing activities:	
Transfers from (to) restricted fund	16,517,943
Interest income received	1,255,870
Net cash provided by investing activities	17,773,813
Net increase (decrease) in cash	(1,340,994)
Unrestricted cash at beginning of the period	4,873,275
Unrestricted cash at end of period	3,532,281
Reconciliation of operating loss to net cash provided by operating activities:	
Operating Income (loss)	13,391,355
Adjustments to reconcile to net cash provided by operating activities:	
Depreciation expense	9,169,050
Other Expense/income	829,726
(Increase) decrease in assets:	
Accounts receivable	(375,058)
Materials and supplies inventory	25,695
Other Assets	175,955
Increase (decrease) in liabilities:	
Accounts payable, Contractors, Retention & Escrow Deposit	(1,155,881)
Accrued payroll	(308,714)
Customer deposits	(17,507)
Net cash provided by operating activities	21,734,620

Guam Waterworks Authority
Accounts Receivable - Government
As of March 31, 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 International Airport Authority	4	39,519	52,685	45,217	10,169	132,845	280,436
Guam Power Authority	14	16,007	482	370	370	157,779	175,008
Guam Memorial Hospital Authority	2	37,148	41,583	35,525	-	-	114,256
Port Authority of Guam	3	56,626	48,265	-	-	-	104,891
Guam Community College	3	12,618	11,500	8,994	9,274	-	42,385
University of Guam	2	11,778	-	-	-	-	11,778
Guam Housing & Urban Renewal Authority	7	1,185	-	-	-	92	1,277
Guam Housing Corporation	1	31	-	-	-	-	31
Autonomous Agencies	**36**	**174,911**	**154,516**	**90,106**	**19,814**	**290,716**	**730,062**
Department of Education	51	188,335	204,781	18,685	10,139	123,314	545,254
Department of Parks & Recreation	16	46,550	239,934	27,309	25,816	204,251	543,860
Department of Corrections	8	114,685	48,768	50,835	-	-	214,287
Department of Public Health & Social Services	5	3,480	1,499	219	382	103,711	109,291
Mayors' Council of Guam	48	15,749	124	-	-	-	15,873
Department of Mental Health and Subtance	3	7,642	1,088	7,134	-	-	15,863
Department of Youth Affairs	4	3,069	3,944	-	-	-	7,012
Department of Public Works	10	5,893	-	-	-	-	5,893
Guam Fire Department	8	5,600	-	-	-	-	5,600
Sanctuary Inc	1	2,569	-	-	-	-	2,569
Department of Military Affairs/GUARNG	1	2,560	-	-	-	-	2,560
Department of Administration	2	415	945	163	161	542	2,226
Department of Agriculture	3	2,042	-	-	-	-	2,042
Guam Police Department	2	1,092	-	-	-	-	1,092
Division of Senior Citizens, DPH&SS	2	355	152	145	53	-	706
Guam Public Library	4	157	-	-	-	-	157
Guam Veterans Affairs office	2	89	-	-	-	-	89
The Office of the Dededo Mayor	1	53	-	-	-	-	53
Merizo Mayor	1	26	-	-	-	-	26
Guam Solid Waste Authority	1	24	-	-	-	-	24
Line Agencies	**173**	**400,384**	**501,234**	**104,490**	**36,552**	**431,819**	**1,474,479**
TOTAL March 31, 2018	**209**	**575,295**	**655,750**	**194,596**	**56,366**	**722,534**	**2,204,541**
TOTAL September 30, 2017	**253**	**715,578**	**442,522**	**169,120**	**72,476**	**396,347**	**1,796,043**
% INCREASE/ (DECREASE)	**-17%**	**-20%**	**48%**	**15%**	**-22%**	**82%**	**23%**

GUAM WATERWORKS AUTHORITY
2013 Series Bond Project Status
As of March 31, 2018

SCHEDULE J

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 03/31/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 03/31/18
Santa Rita Springs Booster Pump Rehab Phase II	$ 100,000	$ 100,000	77,400	22,600	$ 100,000	$ -	$ 22,600
"A" Series Well Transmission Line	$ 400,000	$ 400,000	332,861	36,985	$ 369,846	$ 30,154	$ 67,139
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	6,113,951	4,798,502	$ 10,912,453	$ 238,547	$ 5,037,049
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	10,765,657	3,112,344	$ 13,878,000	$ (0)	$ 3,112,343
Ugum Water Treatment Plant Reservoir	$ 7,000,000	$ 90,000			$ -	$ 90,000	$ 90,000
Agana Heights & Chaot Tanks	$ 4,500,000	$ 3,280,000	233,265	1,097,022	$ 1,330,287	$ 1,949,713	$ 3,046,735
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 13,500,000	$ 11,605,000	5,299,747	6,305,253	$ 11,605,000	$ 0	$ 6,305,253
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	555,848	104,465	$ 660,314	$ 119,687	$ 224,152
Baza Gardens STP Replacement		$ 3,114,883	969,594	2,145,275	$ 3,114,869	$ 15	$ 2,145,290
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	41,408,528	25,791,471	$ 67,200,000	$ 0	$ 25,791,472
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	427,949	294,410	$ 722,359	$ 200,641	$ 495,051
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							$ 547,225
Total Construction Fund (2013 Series Revenue Bond)	**$ 139,325,000**	**$ 139,325,000**	**$ 86,223,146**	**$ 46,559,848**	**$ 132,782,994**	**$ 6,542,006**	**$ 53,924,084**

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

GUAM WATERWORKS AUTHORITY
2014 Series Refunded Bond Project Status
As of March 31, 2018

SCHEDULE K

PROJECT NAME	ORIGINAL APPROVED PROJECT	ADJUSTED PROJECT COST	EXPENDITURES AS OF 03/31/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	20% PUC AS OF 03/31/18	Construction fund balance AS OF 03/31/18
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	88,891,990	$ 758,873.38	$ 89,711,543	$ 1	$ 13,990,813	$ 731,063
Interest Earned	$ 6,781,612	$ (0)				$ (0)		$ 5,606
Total Project Cost Funding	**$ 89,711,698**	**$ 89,711,698**	**88,891,990**	**$ 758,873.38**	**$ 89,711,543**	**$ 1**	**$ 13,990,813**	**$ 736,669**

GUAM WATERWORKS AUTHORITY
2016 Series Bond Project Status
As of March 31, 2018

SCHEDULE L

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 03/31/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 03/31/18
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	8,638	141,362.32	$ 150,000	$ 4,351,000	$ 4,492,362
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	247,056	229,237.54	$ 476,294	$ 1,799,706	$ 2,028,944
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	1,820,465	12,448,322.67	$ 14,268,787	$ 14,081,213	$ 26,529,535
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	101,034	211,949.36	$ 312,983	$ 36,017	$ 247,966
Lift Station Upgrades	$ 2,404,000	$ 2,404,000	174,340	340,415.47	$ 514,755	$ 1,889,245	$ 2,229,660
Wastewater Collection System Repl/Rehab	$ 2,920,000	$ 2,920,000		224,923.00	$ 224,923	$ 2,695,077	$ 2,920,000
Baza Gardens STP Replacement	$ 16,700,000	$ 29,400,170	9,343,305	19,776,343.49	$ 29,119,649	$ 280,521	$ 20,056,865
Facilities Plan/Design for Umatac-Merizo WWTP	$ 527,000	$ 527,000	224,705	27,399.52	$ 252,105	$ 274,895	$ 302,295
Agat/Santa Rita STP Replacement	$ 3,000,000	$ 3,000,000	902,989	216,710.57	$ 1,119,700	$ 1,880,300	$ 2,097,011
Agana WWTP Interim Measures	$ 827,000	$ 827,000			$ -	$ 827,000	$ 827,000
Umatac Merizo Replacement	$ 8,000,000	$ 20,800,000	2,752,013	17,850,241.18	$ 20,602,254	$ 197,746	$ 18,047,987
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			$ -	$ 6,500,000	$ 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	46,677	1,213,846.39	$ 1,260,524	$ 737,476	$ 1,951,323
General Plant Improvements / Water	$ 2,769,463	$ 2,769,463	631,745	912,014.41	$ 1,543,760	$ 1,225,703	$ 2,137,718
Information Technology Integration Improvements	$ 500,000	$ 500,000	244,068	-	$ 244,068	$ 255,932	$ 255,932
Interest Earned		$ -					$ 888,462
Total Construction Fund (2016 Series Revenue Bond)	**$ 140,019,463**	**$ 140,019,463**	**$ 17,793,574**	**$ 64,592,763**	**$ 82,386,338**	**$ 57,633,125**	**$ 123,114,350**

GUAM WATERWORKS AUTHORITY
2017 Series Refunded Bond Project Status
As of March 31, 2018

SCHEDULE M

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 03/31/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 03/31/18
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	$ 10,254,841	$ 18,787	$ 10,273,628	$ 26,372	$ 45,159
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	$ 179,638	$ 20,362	$ 200,000	$ -	$ 20,362
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	$ 210,007	$ 127,887	$ 337,895	$ 1,362,105	$ 1,489,993
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	$ 1,033,356	$ 476,027	$ 1,509,384	$ 490,616	$ 966,644
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	$ 1,465,858	$ 8,142	$ 1,474,000	$ 26,000	$ 34,142
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	$ 720,836	$ 283,287	$ 1,004,123	$ 100,877	$ 384,164
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	$ 316,686	$ 314	$ 317,000	$ 984,947	$ 985,261
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							$ 94,874
Total Construction Fund (2010 Series Revenue Bond)	**$ 87,402,000**	**$ 87,402,000**	**$ 78,903,279**	**$ 4,191,887**	**$ 83,095,166**	**$ 4,306,834**	**$ 8,593,595**

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

GUAM WATERWORKS AUTHORITY
Schedule of Series 2013, 2014 Refunding, 2016 and 2017 Refunding Bond Bank Accounts
As of March 31, 2018

SCHEDULE N

	3/31/2018
BANK OF GUAM	
BOG - Revenue Account	8,812,897
BOG - Operations and Maintenance Reserve	3,083,482
BOG - Operations, Maintenance, Renewal and Replacement Reserve Fund	17,423,213
BOG - Capital Improvement Fund	2,228,744
BOG - O & M Reserve	13,569,935
BOG - Debt Service Reserve	11,262,149
BOG - CAPEX Reserve	15,522,420
Total BOG Bank Account Balance	**71,902,840**
Series 2013 Bond:	
BOG - Construction Fund	53,924,084
USB - Debt Service Fund	2,344,613
USB - Debt Service Reserve Fund	12,031,688
Total Series 2013 Bond Bank Balance	**68,300,385**
Series 2014 Refunding Bond:	
BOG - Construction Fund	736,669
USB - Debt Service Fund	3,542,300
USB - Debt Service Reserve Fund	7,760,536
Total Series 2014 Refunding Bond Bank Balance	**12,039,506**
Series 2016 Bond:	
BOG - Construction Account	123,114,351
BOG - Capitalized Interest Fund	-
USB - Debt Service Fund	1,793,435
USB - Debt Service Reserve Fund	7,594,587
Total Series 2016 Bond Bank Balance	**132,502,372**

GUAM WATERWORKS AUTHORITY

Guam Waterworks Authority

VEHICLE FLEET STATUS

4/11/2018

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	0	2	0%
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	3	0	3	0%
Light	160	107	53	67%
Mini Backhoe	4	0	4	0%
Pumper Truck	1	1	0	100%
Skidster	1	1	0	100%
Sludge Truck	5	5	0	100%
Tow	1	0	1	0%
Tractor	2	2	0	100%
Tractor Mower	1	1	0	100%
Trailer	14	11	3	79%
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	1	4	20%
Total	226	145	81	

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	2	0	2
1	0	0	0	0	0	0
1	0	0	0	1	0	0
0	0	0	0	0	1	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
0	0	0	0	0	2	1
106	1	1	7	8	5	32
0	0	0	0	2	2	0
1	0	0	0	0	0	0
1	0	0	0	0	0	0
5	0	0	0	0	0	0
0	0	0	0	0	0	1
2	0	0	0	0	0	0
1	0	0	0	0	0	0
11	0	0	0	1	0	2
1	0	0	0	0	0	0
1	0	0	0	0	0	0
3	0	0	0	1	1	0
2	0	0	0	0	0	0
1	0	0	0	0	3	1
144	1	1	7	17	14	42

Guam Waterworks Authority	Date: 4/11/2018 Time:

GUAM WATERWORKS AUTHORITY

WATER DISTRIBUTION FACILITIES REPORT

REVIEWS			
TOTAL PUMPS INSTALLED	51	OVERAL AVERAGE	90%
TOTAL PUMPS OPERATIONAL	46	% OF OPERATING PUMPS	90%
TOTAL BOOSTER PUMP STATIONS	25		

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	1	50%	OP	A	mechanical seal replacement needed				Removed and at vendor	
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**	**19**	**90%**								
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			ASSESING PUMP 3 MOTOR		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	All pumps operational.					
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		ASSESING P3 MOTOR		Removed and at vendor 4/25/18 (Rewind)	
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%													

Guam Waterworks Authority	Date: 3/30/2018 Time:

GUAM WATERWORKS AUTHORITY

WASTEWATER FACILITIES REPORT

REVIEWS

TOTAL PUMPS INSTALLED	169	OVERAL AVERAGE	86%
TOTAL PUMPS OPERATIONAL	146	% OF OPERATING PUMPS	86%
TOTAL PUMP STATIONS	78		

Northern District

NO.	FACILITY	Priority Listing	NO OF INSTALLED	NO OF OPERATIONAL	PUMP AVAILABILITY %	Pump NO.	Action Required	Ref. No./Date	PUMP UNIT REMARKS	Additional Remarks
1	FUJITA					1				
						2				
						3				
						4				
			4	3	75%					
2	Southern Link					1				
						2				
						3				
						4	Pump #4 suction clogged			
			4	3	75%					
3	Route #16					1				
						2				
						3				
						4	VFD Issues			
			4	4	100%					
4	HARMON					1				
						2	Pump #2 at Washland for open winding. Vendor is still waiting on parts for pump as of 3/30/18	PO #301753		
			2	1	50%					
5	MACHECHE					1				
						2				
			2	2	100%					
6	LATTE DOUBLE TROUBLE					1				
						2				
			2	2	100%					
7	LATTE SUBMARINE					1				
						2				
			2	2	100%					
8	MACHANAO					1				
						2				
			2	2	100%					
9	YPAOPAO ESTATES					1				
						2				
						3				
			3	3	100%					
10	PGD					1				
						2				
			2	2	100%					
11	LATTE PLANTATION					1				
						2				
			2	2	100%					
12	PASEO DE ORO					1				
						2				
			2	2	100%					
13	ASTUMBO #1					1				
						2				
			2	2	100%					
14	ASTUMBO #2					1				
						2				
			2	2	100%					
15	FEMA '96					1				
						2				
			2	2	100%					
16	LATTE SUN RISE					1				
						2				
			2	2	100%					
17	HAFA ADAI					1				
						2				
			2	2	100%					
18	PACIFIC LATTE					1				
						2				
			2	2	100%					
19	SANTA ANA					1				
						2				
			2	2	100%					
20	ZERO DOWN					1				
						2				
			2	2	100%					
21	Yigo PS					1				
						2				
						3	Pump #3 awaiting installation of discharge valve. Shutdown of station needed. Detry, Ben Lujan & PGE Pumper Trucks.	OQ #s 31651, 31652, 31654		
			3	2	67%					
22	Ypao PS					1				
						2				
			2	2	100%					
	Northern TP						Bar Screen still off-line. Solenoid valve for the water line is defective causing auger not to operate. Still trouble shooting root cause.	3/30/2018		
	TOTAL = 22		52	48	92%					

Central District

NO.	FACILITY	Priority Listing	NO OF INSTALLED	NO OF OPERATIONAL	PUMP AVAILABILITY %	Pump NO.	Action Required	Ref. No./Date	PUMP UNIT REMARKS	Additional Remarks
1	AGANA MAIN					1				
						2	Pump #2 taken out (2/13/18) and sent to JMI due to seals leaking	OQ#32161 OR#31950 2/21/18		
						3				
						4				
			4	3	75.00%					
2	CHAOT					1				
						2				
						3				
			3	3	100.00%					
3	MAMAJANAO					1	Off-line awaiting eccentric reducer	OQ#31721 (12/07/18) OR#31551(12/14/17)		
						2				
						3				
			3	2	66.67%					
4	BARRIGADA					1				
						2				
			2	2	100.00%					
5	BAYSIDE					1				
			1	1	100.00%					
6	TAYMANGILAO					1				
						2	Seal failure/pump at Washland for rewinding.	OQ#31870(01/02/18) OR#31663(01/05/18)		
						3				
			3	2	66.67%					
7	MONGMONG/TOTO					1				
						2				
			2	2	100.00%					
8	PAGO DOUBLE					1	secured & needs to be replaced/**CIP** approved pending final review from finance.			
						2				
						3				
			3	2	66.67%					
9	MANGILAO					1	Impeller needed for pump #1	OQ#31892(01/05/18) OR#31765(01/25/18)		
							Pump #1 at JMI for repair (SULZER ABS Ser. No. 001922)	OQ#31990(01/05/18) OR#31688(01/09/18)		
						2	Awaiting eccentric reducers for discharge line / Pump #2 temporary online on line #1	OQ#31461(11/01/17) OR#31558(12/15/18)		
			2	1	50.00%					
10	PITI					1	**Pump #1 Back on-line. Gasket replaced and retapped mounting bolts.**	**3/29/2018**		
						2				
			2	2	100.00%					
						1				

11	ASAN					2					
			2	2	100.00%						
12	SINAJANA					1					
						2					
			2	2	100.00%						
13	DAIRY ROAD					1	Pump #1 at Washland for rewinding	?			
						2					
			2	1	50.00%		On going electrical upgrades on this pump station as of 3/30/18	3/30/2018			
14	FADIAN					1					
						2					
			2	2	100.00%						
15	FLORA GARDENS					1					
						2					
			2	2	100.00%						
16	ORDOT					1					
						2					
			2	2	100.00%						
17	CHALAN PAGO #5					1	Pump #1 at @Washland for rewinding.	?			
						2					
			2	1	50.00%						
18	COMMERCIAL PORT					1					
						2					
						3					
			3	3	100.00%						
19	CHALAN PAGO #3					1					
						2					
			2	2	100.00%						
20	CABRAS ISLAND					1					
						2					
			2	2	100.00%						
21	ALUPANG COVE					1					
						2					
			2	2	100.00%						
22	MAITE EJECTOR					1					
						2					
			2	2	100.00%						
23	TOTO GARDENS					1					
						2					
			2	2	100.00%						
24	CASIMERO					1					
						2					
			2	2	100.00%						
25	LEYANG					1					
						2					
			2	2	100.00%						
26	SAGAN BONITA 1					1					
						2					
			2	2	100.00%						
27	SAGAN BONITA 2					1					
						2					
			2	2	100.00%						
28	Namo					1					
			1	1	100.00%						
29	DERO ROAD					1					
						2	Replaced pump #2 with a spare pump on 3/26/18. Still off-line, waiting for electrical part (Overload Heating Element).	OQ#32353 3/30/2018			
			2	1	50.00%						
	Total=29		**63**	**55**	**87.30%**						

GUAM WATERWORKS AUTHORITY

WASTEWATER COLLECTION REPORT

MONTHLY REPORT

MARCH 2018



CCTV INSPECTIONS AND SEWER CLEANING

MAR. 01-MAR. 07	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	4053.8			4873
	124.08%	0.00%		62%

MAR. 08 – MAR. 14	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	1896			1896
	58%	0%		29%

MAR.15 – MAR 21	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	3249			2839.8
	87%	0%		43%

MAR. 22 – MAR. 28	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	3249			3249
	99%	0%		50%

MAR. 29 – MAR. 31	Team #1	Team #2	Vendor	Total
Feet Scheduled	832	3267		832
Feet Completed				0
		0%		0%

	January	**February**	**March**	**April**	**May**	**June**
CCTV/Jetting	2.86	4.95	2.30	0.00	0.00	0.00

- Performed CCTV and smoke Testing in the Agana bay area which deferred from completing the miles required.

PUMPING STATION TROUBLE CALLS

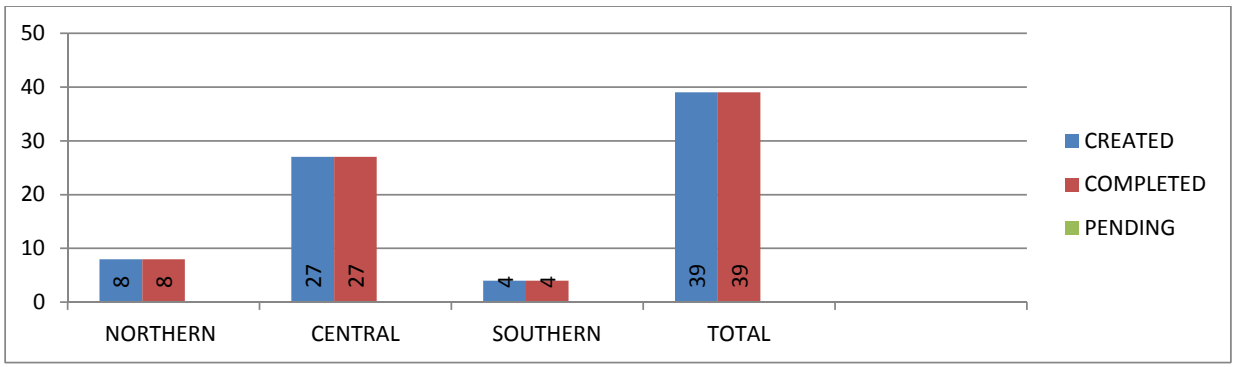
MAR. 01 - MAR. 07	CREATED	COMPLETED	PENDING
NORTHERN	1	1	0
CENTRAL	5	5	0
SOUTHERN	3	3	0
TOTAL	9	9	0

MAR. 08 – MAR. 14	CREATED	COMPLETED	PENDING
NORTHERN	1	1	0
CENTRAL	7	7	0
SOUTHERN	0	0	0
TOTAL	8	8	0

MAR.15 – MAR. 21	CREATED	COMPLETED	PENDING
NORTHERN	3	3	0
CENTRAL	9	9	0
SOUTHERN	0	0	0
TOTAL	12	12	0

MAR.22– MAR. 31	CREATED	COMPLETED	PENDING
NORTHERN	3	3	0
CENTRAL	6	6	0
SOUTHERN	1	1	0
TOTAL	10	10	0

	CREATED	COMPLETED	PENDING
NORTHERN	8	8	0
CENTRAL	27	27	0
SOUTHERN	4	4	0
TOTAL	39	39	0



MAINTENANCE PREVENTIVE AND CORRECTIVE CALL OUTS

FEB. 26 – MAR. 02	PREVENTIVE	CORRECTIVE
NORTHERN	4	3
CENTRAL	0	0
SOUTHERN	6	3
TOTAL	10	6

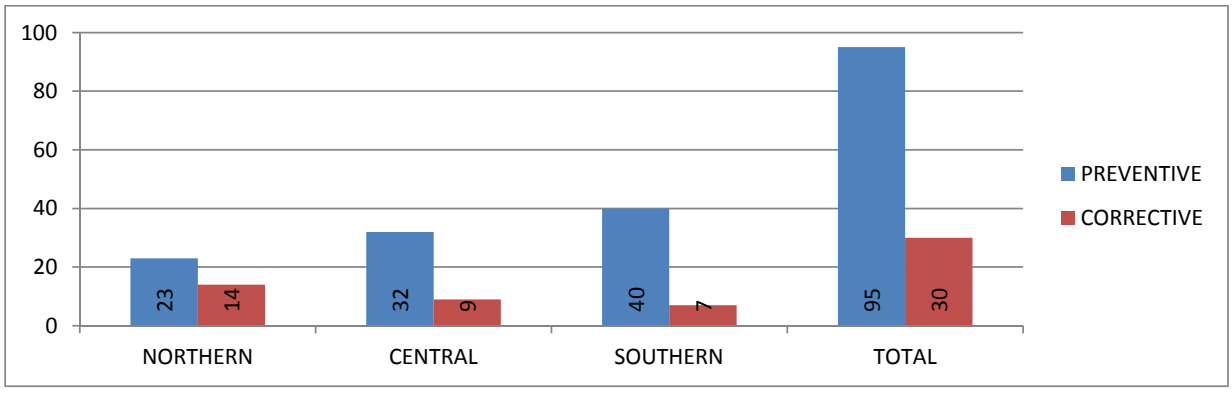
MAR. 05 – MAR. 09	PREVENTIVE	CORRECTIVE
NORTHERN	0	1
CENTRAL	11	5
SOUTHERN	5	2
TOTAL	16	8

MAR. 12 – MAR. 16	PREVENTIVE	CORRECTIVE
NORTHERN	4	4
CENTRAL	1	2
SOUTHERN	0	0
TOTAL	5	6

MAR. 19 – MAR. 23	PREVENTIVE	CORRECTIVE
NORTHERN	6	3
CENTRAL	20	0
SOUTHERN	3	1
TOTAL	29	4

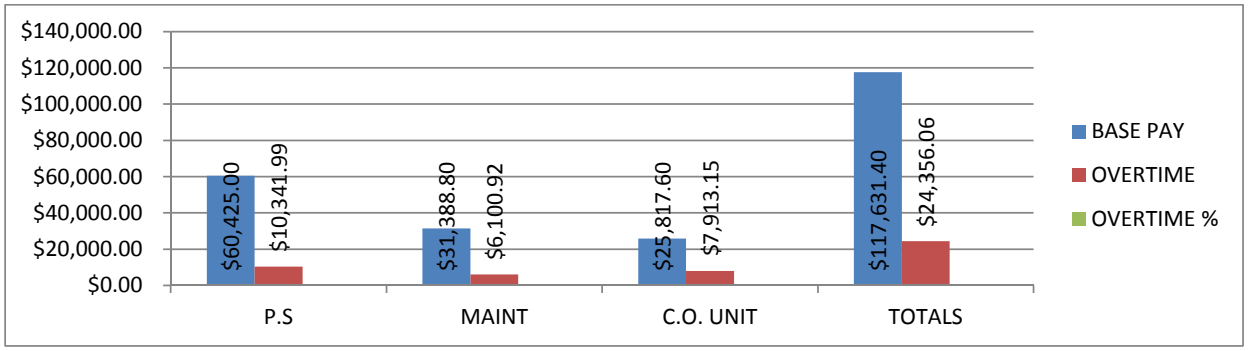
MAR. 26 – MAR.30	PREVENTIVE	CORRECTIVE
NORTHERN	9	3
CENTRAL	0	2
SOUTHERN	26	1
TOTAL	35	6

	PREVENTIVE	CORRECTIVE
NORTHERN	23	14
CENTRAL	32	9
SOUTHERN	40	7
TOTAL	95	30



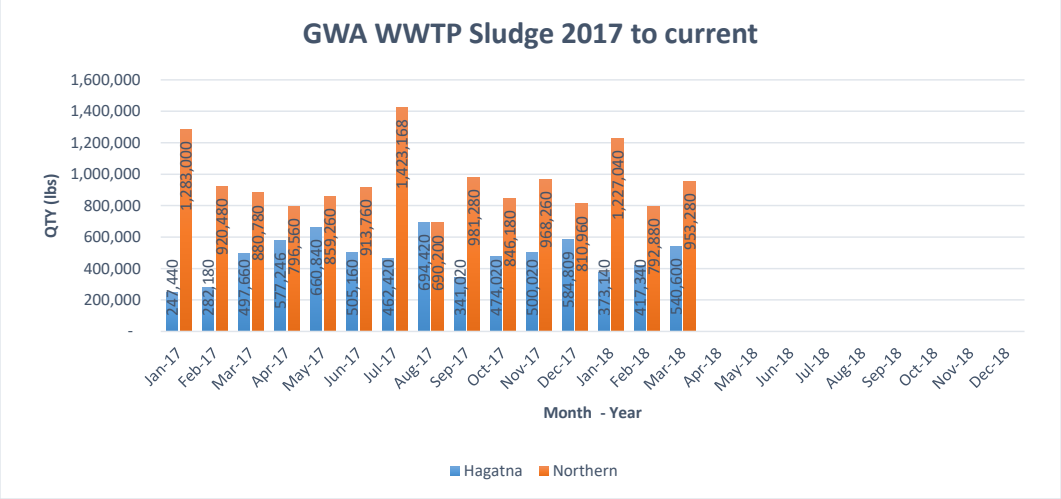
BASE PAY VS OVERTIME

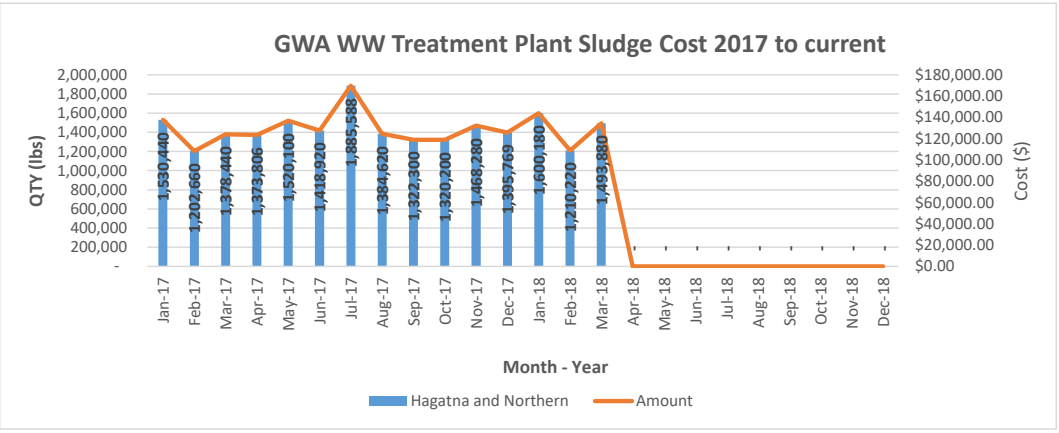
	BASE PAY	OVERTIME	OVERTIME %
PUMPING STATION	$60,425.00	$10,341.99	17%
MAINTENANCE	$31,388.8	$6,100.92	19%
COURT ORDER UNIT	$25,817.60	$7,913.15	31%
TOTALS	$117,631.4	$24,356.06	20%



	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		$0.00		$0.00	-	$0.00
May-18		$0.00		$0.00	-	$0.00
Jun-18		$0.00		$0.00	-	$0.00
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	1331080	$119,797.20	2973200	$267,588.00	4304280	$387,385.20


GWA WWTP Sludge 2017 to current
QTY (lbs)
1,600,000
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
-
247,440
1,283,000
282,180
920,480
497,660
880,780
577,246
796,560
660,840
859,260
505,160
913,760
462,420
1,423,168
694,420
690,260
341,020
981,280
474,020
846,180
500,020
968,260
584,809
810,960
373,140
1,227,040
417,340
792,880
540,600
953,280
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
Jul-18
Aug-18
Sep-18
Oct-18
Nov-18
Dec-18
Month - Year
Hagatna
Northern


GWA WW Treatment Plant Sludge Cost 2017 to current
QTY (lbs)
2,000,000
1,800,000
1,600,000
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
-
$180,000.00
$160,000.00
$140,000.00
$120,000.00
$100,000.00
$80,000.00
$60,000.00
$40,000.00
$20,000.00
$0.00
Cost ($)
1,530,440
1,202,660
1,378,440
1,373,806
1,520,100
1,418,920
1,885,588
1,384,620
1,322,300
1,320,200
1,468,280
1,395,769
1,600,180
1,210,220
1,493,880
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
Jul-18
Aug-18
Sep-18
Oct-18
Nov-18
Dec-18
Month - Year
Hagatna and Northern
Amount