Gmail

Senator Therese Terlaje <senatorterlajeguam@gmail.com>

Fwd: GWA WORK SESSION 10/16/18 / MEETING MATERIALS

1 message

Senator Therese Terlaje <senatorterlajeguam@gmail.com>
To: Clerks <clerks@guamlegislature.org>, Rennae Meno <rennae@guamlegislature.org>

10-16-18	15:20	10-16-18	GWA Work Session Materials for Oct. 16, 2018 Meeting *Emailed	Guam WaterWorks Authority	34GL-18-2428

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The Office of Vice Speaker Therese M. Terlaje
Committee on Culture and Justice
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34th Guam Legislature
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---------- Forwarded message ---------
From: **Bernadette Lou Sablan** <l sablan@gpagwa com>
Date: Tue, Oct 16, 2018 at 3:20 PM
Subject: GWA WORK SESSION 10/16/18 / MEETING MATERIALS
To: **Andy Niven** (ndynvn@yahoo com) <ndynvn@yahoo com>, **Angelica Perez** <aperez@amibrokers com>, **Ann Borja - GWA** <annborja@guamwaterworks org>, **Annmarie Muna** (amuna@a **Artemio S Perez** <aperez@gpagwa com>, **Cameron Mulka** (cimiculka@guampdn com) <cimiculka@guampdn com>, **Chilang F Unpingco** <cfejeran@gpagwa com>, **Fred Horecky** (horeckyla **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. Cru **Ballendorf** <heidi@guamwaterworks org>, **Jams Y Kim** (pacguam@gmail com) <pacguam@gmail com>, **Jeff Johnson** (jeffcharjohnson@hotmail com) <jeffcharjohnson@hotmail com>, **Jennif **Peterson** (webmaster@theguamguide com) <webmaster@theguamguide com>, **Jessy Gogue** (ocp mayor@gmail com) <ocp mayor@gmail com>, **Joe John Mantanona** (joejohnmantanona@ **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** <l **Kerrigan** (kevin@postguam com) <kevin@postguam com>, **Kim Garrido** <kim garrido@mec-guam com>, **Louella Losinio** (louella@postguam com) <louella@postguam com>, **Manny Apuron **Perez** <mnperez@gpagwa com>, **Michael White** (whitema@cdmsmith com) <whitema@cdmsmith com>, **Nestor Licanto** (nestor@kuam com) <nestor@kuam com>, **Patricia L. Diego** <pldieg (news@guampdn com) <news@guampdn com>, **Peter Montinola** (peter@isuguam com) <peter@isuguam com>, **Selma HG Blas** <sblas@gpagwa com>, **Telena Nelson** (senatortnelson@gu **Therese Terlaje** (senatorterlajeguam@gmail com) <senatorterlajeguam@gmail com>

Hi everyone,

Attached is the pdf file of board books for the GWA WORK SESSION tonight.

Best,

Lou

B. Lou Sablan

Board Secretary

Consolidated Commission on Utilities

Admin Asst., Legal Counsel, GPA

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http://guamwaterworks org/

Vice Speaker Therese M. Terlaje
34GL-18-2428
OCT 16 2018
Time: 15:20
Received by:

2018 OCT 17 AM 9:06

2428

2 attachments

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GWAWS 10.16.18.pdf
2657K

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

GUAM WATERWORKS AUTHORITY WORK SESSION
CCU Conference Room
4:30 p.m., Tues., Oct.. 16, 2018

AGENDA

1. **ISSUES FOR DECISION**

2. **GM REPORT**
   - **2.1 GM Summary**

3. **ISSUES FOR DISCUSSION**

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

5. **ANNOUNCEMENTS**
   - **5.1 Next CCU Meetings: GPA WS 10/18/18; CCU Meeting: 10/19/18**

6. **ADJOURNMENT**

GUAM WATERWORKS AUTHORITY

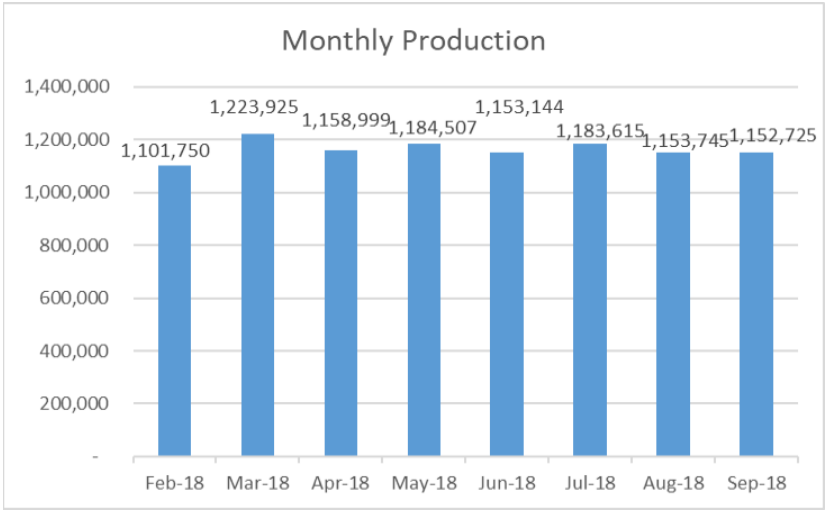
General Manager's Report
GWA Work Session, October 16, 2018

Operations Update

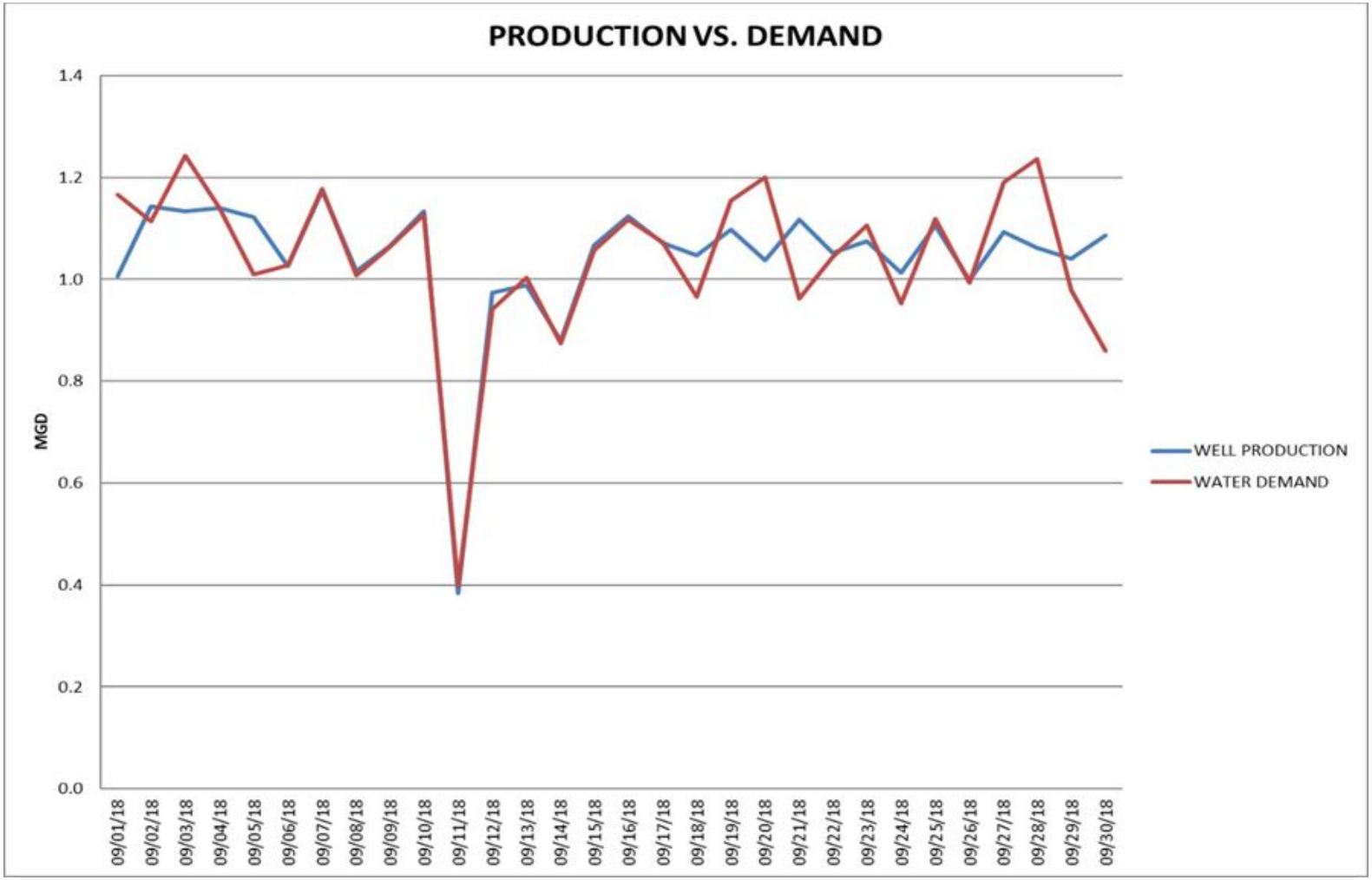
Production

Monthly Production Summary - September 2018					
Deep Wells				35.6	MGD
	Active wells =	100	of 120		
	Avg days in operation =	30	days		
	Total Production =	1,066,897	Kgals		
Springs				0.00	MGD
	Avg days in operation =	0	days	*placed on standby	
	Total Production =	0	Kgals		
Ugum Surface Water Plant				1.8	MGD
	Avg days in operation =	30	days		
	Total Production =	54,553	Kgals		
Tumon Maui Well				1.04	MGD
	Avg days in operation =	30	days		
	Total Production =	31,275	Kgals		
		1,152,725	Kgals	38.4	MGD

DW Status as of 9/30/2018	
Active	**100**
Grounded motor	**1**
Out of commission	**11**
Secured, PFOs	**2**
Standby	**6**
TOTAL	**120**

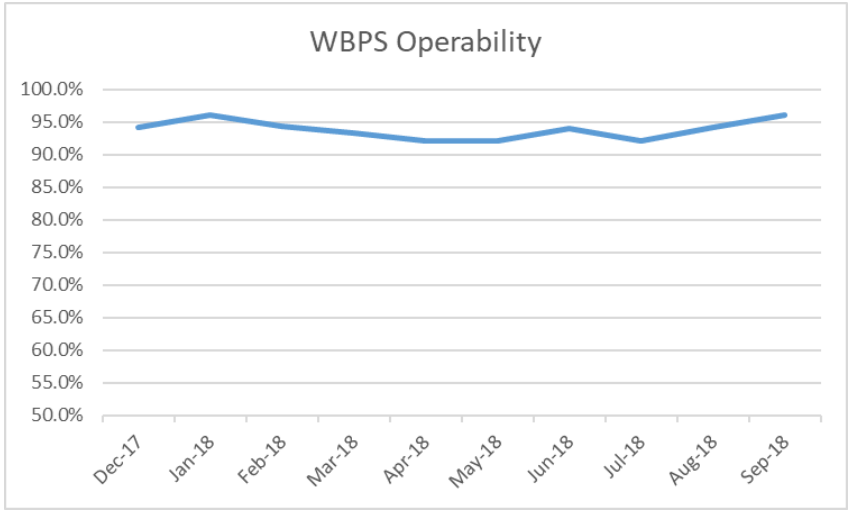


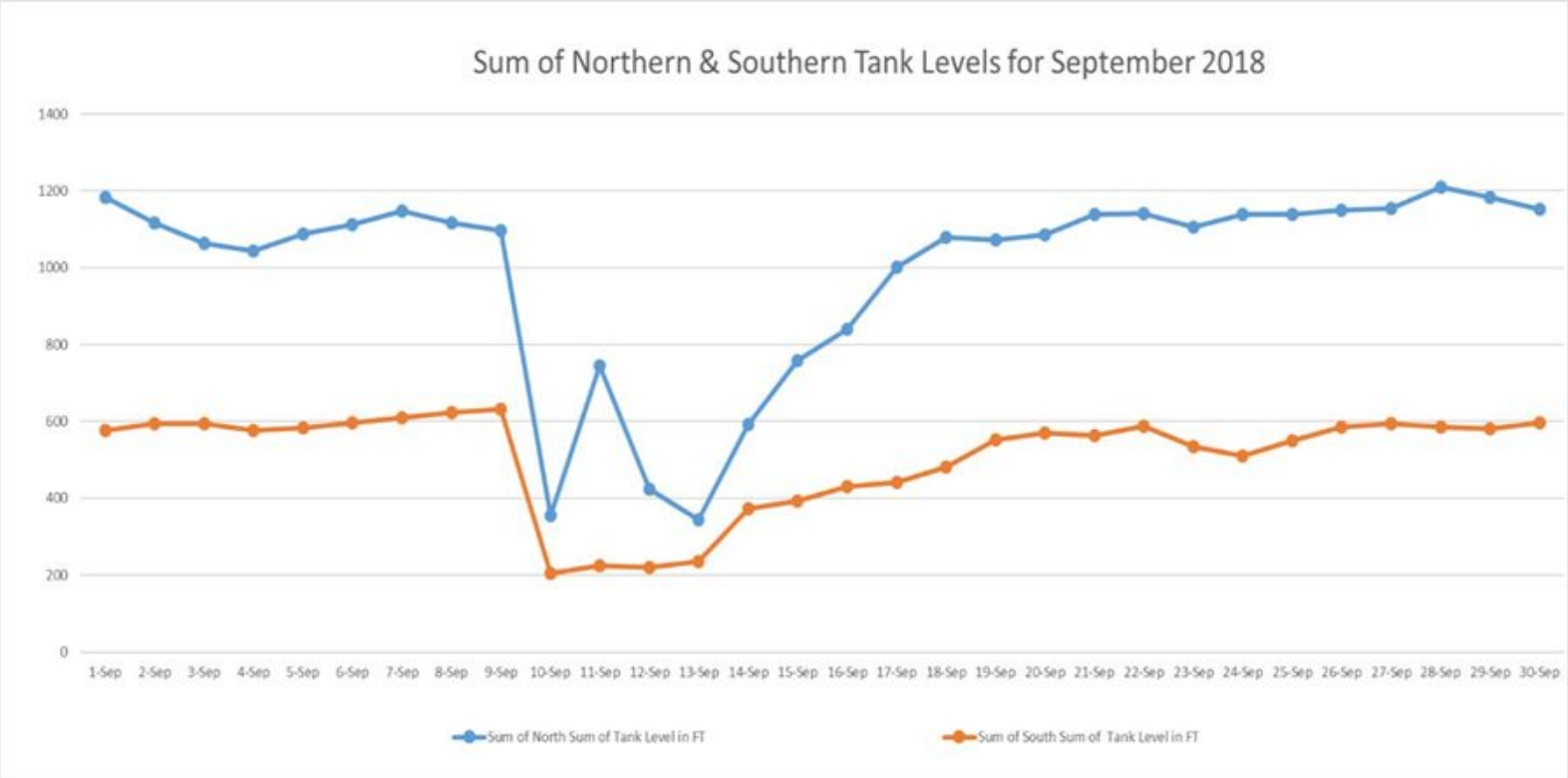
Tumon Maui Well Production vs. Demand for September 2018



Distribution

Monthly Distribution Summary - September 2018					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	11	21	19	90.5%
	Central	7	15	15	100.0%
	Southern	7	15	15	100.0%
		25	51	49	96.1%

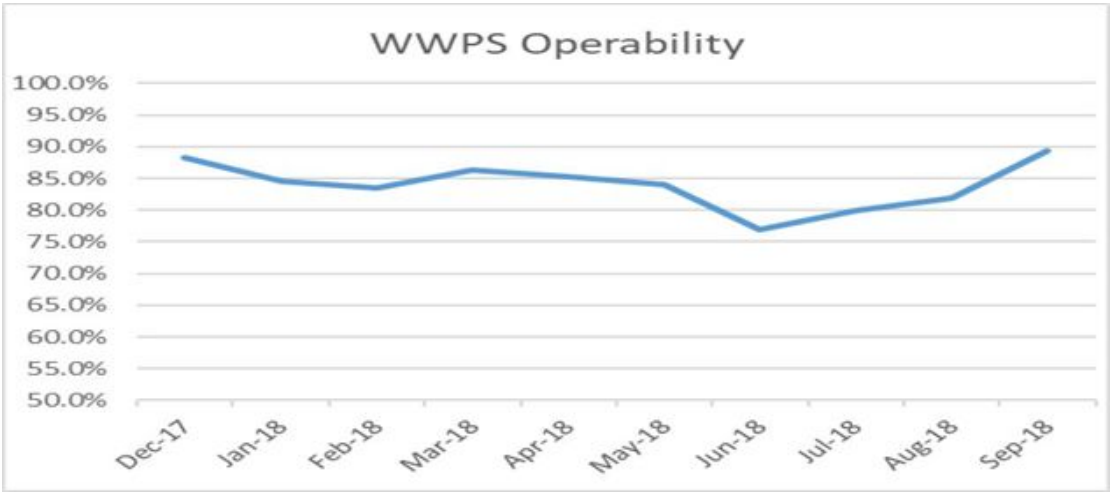



Sum of Northern & Southern Tank Levels for September 2018
1400
1200
1000
800
600
400
200
0
1-Sep 2-Sep 3-Sep 4-Sep 5-Sep 6-Sep 7-Sep 8-Sep 9-Sep 10-Sep 11-Sep 12-Sep 13-Sep 14-Sep 15-Sep 16-Sep 17-Sep 18-Sep 19-Sep 20-Sep 21-Sep 22-Sep 23-Sep 24-Sep 25-Sep 26-Sep 27-Sep 28-Sep 29-Sep 30-Sep
Sum of North Sum of Tank Level in FT
Sum of South Sum of Tank Level in FT

Wastewater Collections

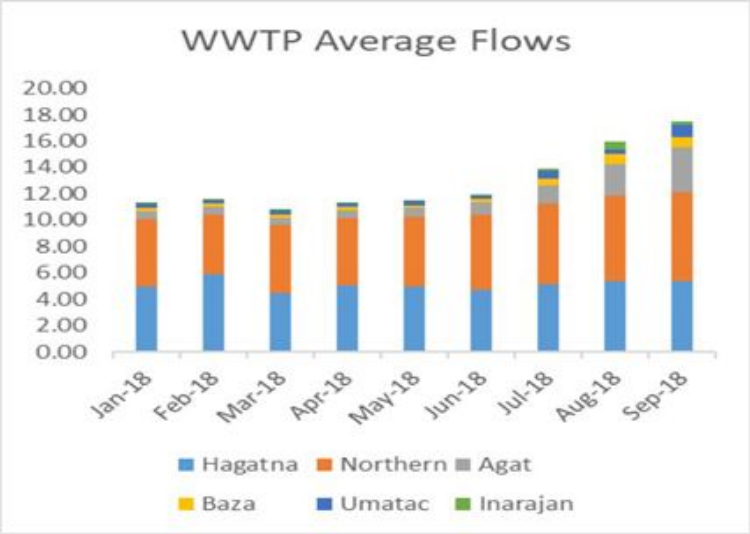
Monthly Collections Summary - September 2018					
Wastewater Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	48	92.3%
	Central	29	65	55	84.6%
	Southern	25	52	48	92.3%
		76	169	151	89.3%



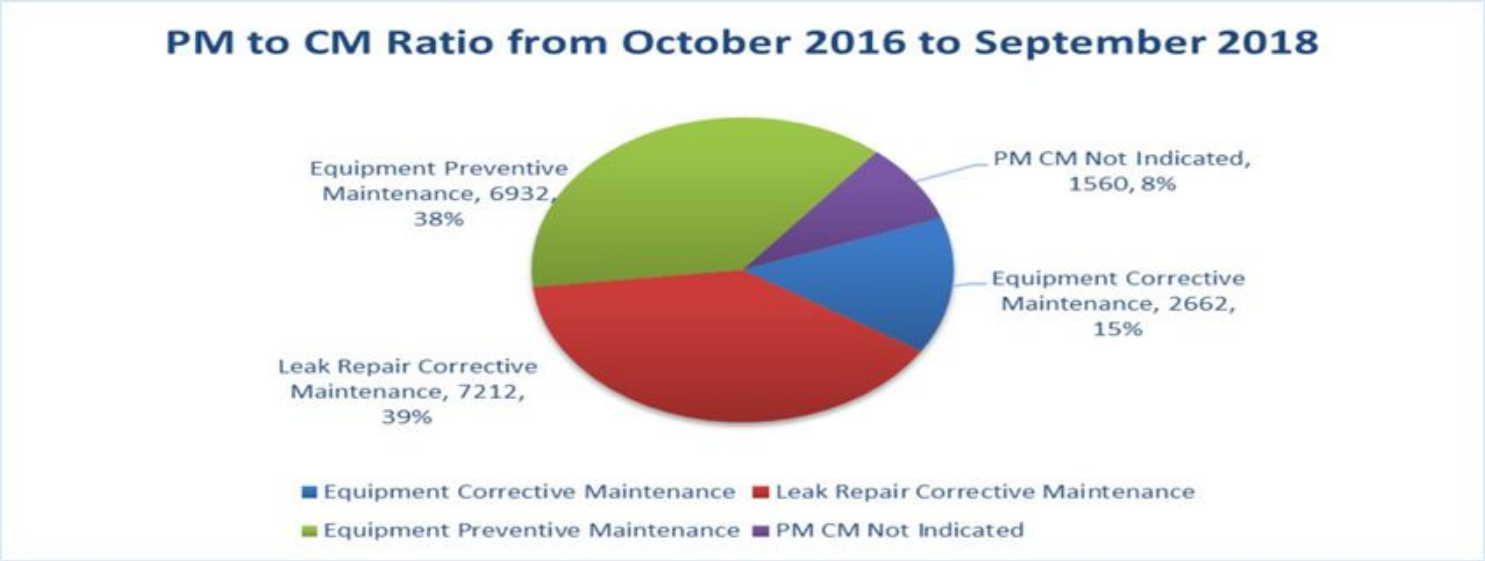


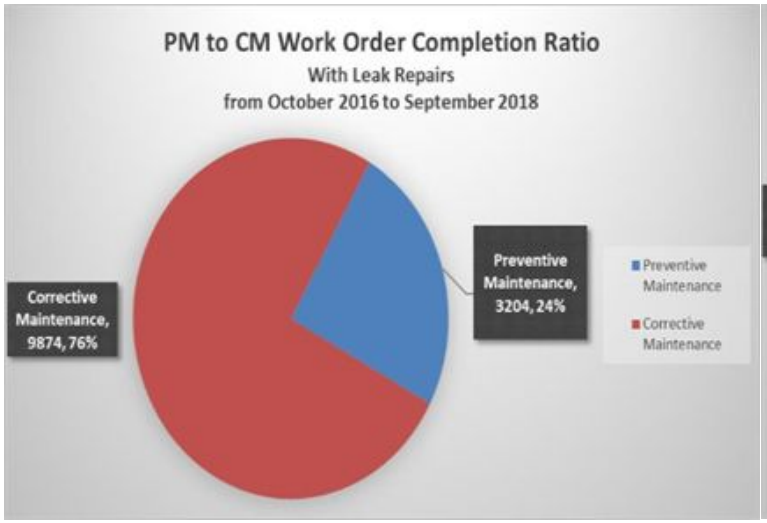
Wastewater Treatment

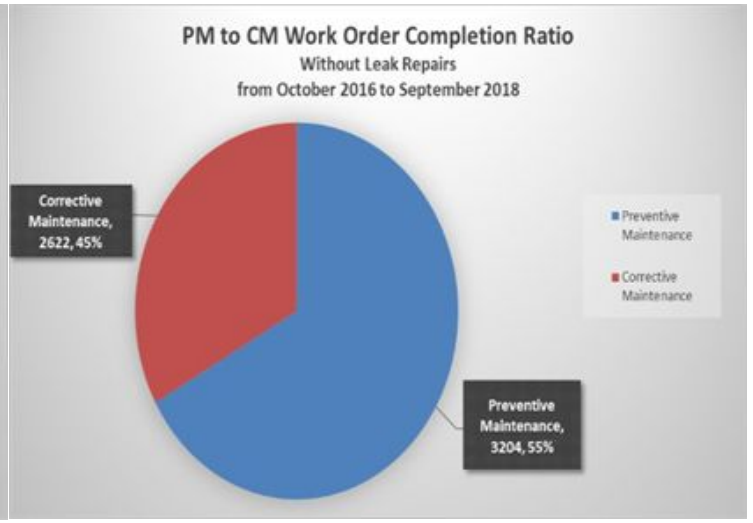
Monthly Wastewater Treatment Summary - September 2018				
WW Treatment Plants - Flows				
	Facility	**Avg. Daily Flows**	**Sludge (lbs)**	**Sludge Disp. ($)**
	Hagatna	5.40	333,740	$ 30,037
	Northern	6.7	711,820	$ 64,064
	Agat	3.46		
	Baza	0.75		
	Umatac	0.90		
	Inarajan	0.24		
		17.45	1,045,560	$ 94,100



Asset Management for September 2018







Operational Issues

Production & Distribution

- Leak repair
  - Crews maintaining performance - As of October 15th, there were 17 pending repairs
  - Notice of Award has been awarded for advanced remote leak detection services
  - GWA's Line and Leak Repair Unit has been nominated for and received MAGPRO award for Cost Savings/Innovative Idea of the Year (Large Department/Agency)
- WSCC –
  - SCADA preparation on-going
  - Successfully coordinated activation of new Yigo WBPS to maintain service at Mt. Santa Rosa when Y-15 recently went down
  - Reservoir levels have been stable with very good levels maintained
- Pump and motor inventories okay; additional procurement for FY2019 is in the works
- Ugum WTP – Contractors on-site for SCADA upgrades

Wastewater Collection & Treatment

- CCTV & Collections System:
  - SSES and CCTV-based repairs to collection lines and SMHs are still on-going
  - CCTV equipment and Combination trucks need service – pending POs
- Pump stations
  - Working to address pump operability issues
  - Minimum pump and motor inventory levels finalized (similar to effort with deep-wells)
  - Critical spares and replacements procurement – awarded; initial orders pending
- Treatment Plants
  - Hagatna WWTP
    - One of two Centrifuges work needed (50% operability)
    - Clarifier – chain/flight sprocket needs repair
    - Digester aerator – gear-box issue
  - Northern WWTP
    - No. 2 centrifuge gear-box failed; new part order being prepared
  - Agat-Santa Rita WWTP
    - Critical process facilities all operating
    - UV issues being resolved

- U-M WWTP
  - Work on-going at the site
  - Significant delays have occurred because of USF&W / EPA permitting issues
  - Delay letter has been sent to USEPA
- Baza Gardens
  - Work on-going for all 3 phases
  - Last leg of gravity line to plant is on-going
  - Delay letter has been sent to USEPA

Meters for month of September 2018

COMPLETED FIELD ACTIVITY JAN 2017 THRU SEPT 2018 (POSTED IN CIS)	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	TOTAL:	COMPLETED FIELD ACTIVITIES (IN PROCESS) TO BE POSTED IN CIS
GWA - Test Meter	30	9	9	371	745	87	393	743	1000	1007	434	378	750	969	1213	1429	84	1299	797	1489	639	13875	699
GWA - Meter Exchange	393	179	220	276	482	353	501	807	1526	1039	452	259	239	1086	2120	121	121	1056	1248	1125	767	14370	146
GWA - Verify Zero Report	30	124	114	94	96	402	261	199	550	89	82	169	356	106	117	69	13	2	2	1	5	2881	0
GWA - Verify Low Usage	0	0	0	2	37	36	196	488	657	202	127	612	858	1122	1055	463	19	5	3	6	6	5894	0
TOTAL:	453	312	343	743	1360	878	1351	2237	3733	2337	1095	1418	2203	3283	4505	2082	237	2362	2050	2621	1417	37020	845

REPORTS:	345	350	144	252	305	210	302	397	1013	1130	927	704	721	1041	1347	815	671	544	1159	1216	1013	14606	
# OF BACKBILLINGS APPLIED AS PER FINANCE REPORTS:	0	0	0	20	122	84	29	111	219	80	77	4	136	23	323	48	75	20	30	253	243	1897	$ 1,200,616.28
# OF FIELD CREW PERFORMING CHANGE OUTS:	19	10	13	9	21	21	14	24	35	28	28*	28*	5	13	2	2	2	28	17	25	25		
# OF ADMIN STAFF TO CREATE AND POST FIELD ACTIVITIES IN CIS:	7	4	5	6	9	9	10	13	15	15	13	13	8	11	5	4	1	13	9	5	5		
# OF SUPPLY STAFF TO ISSUE MATERIALS AND PROGRAM NEW METERS:	2	2	2	2	2	2	2	2	2	2	2	2	2	4	0	0	0	2	2	2	2		
# OF TEST FACILITY PERSONNEL TESTING METERS:	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1	2	2		
# OF ACCOUNTANTS CALCULATING BACK BILLS:	0	0	0	2	3	2	2	3	3	2	2	2	2	2	2	2	2	2	2	N/A	N/A		
TOTAL:	30	18	22	22	38	37	31	45	58	50	48	48	20	32	11	10	7	47	31	34	34		

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

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

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

REMAINING ACTIVE BADGER LP MODELS AS OF SEPT 30, 2018: 17024

ACTIVE LP MODELS - PURCHASE MO & YEAR	COUNT	
2012	8774	14336 WARRANTY EXPIRED
Jan-13	2088	
Feb-13	730	
Mar-13	636	
May-13	1425	
Aug-13	683	
Feb-14	66	2688 ACTIVE WARRANTY
Mar-14	1	
Apr-14	1168	
Jun-14	70	
Aug-14	1383	

Marbo (Andy-South) Wells – Status

- Involuntary reversion appears imminent; GWA Counsel transmitted draft easement documents to GSA for consideration with DoD;
- GSA informed us late September that they are out of the loop, and referred us back to US Dept. of Education

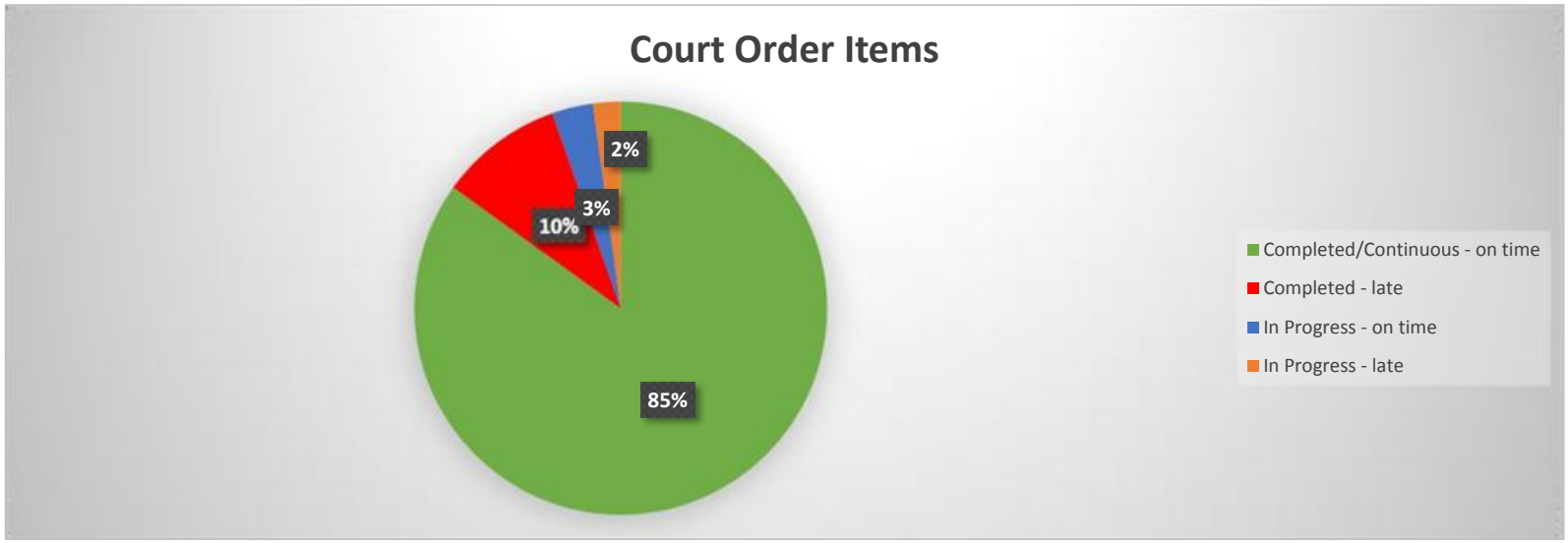
One Guam Update

- Tumon Maui Well:
  - Repairs to damaged fence completed; Repairs to tank hatch pending.
- Santa Rosa Tank:
  - NAVFACMAR CO has briefed Andersen MSG (Missions Support Group) commander, and Civil Engineering Squad (CES) commander, and the General regarding the MOU for the Santa Rosa Tank project. Further action by GWA pending finalization of MOU.
- Agat-Santa Rita WWTP
  - Still waiting on revised letter from Navy real estate office regarding in-kind consideration for easement costs.
- OEA Projects
  - NGLA Observation Wells - Discussion with DoD's Legal needed to nail down ownership and maintenance issues
  - Interceptor – working out coordination issues with regard to by-pass routing, GPA renewable project, and housing demo
- Training and Collaboration
  - AWWA HIWPS training for operators – waiting for DoD interest
  - CIPP training scheduled for this month Oct 22-26.

- 30-Other
  - Utilis (satellite-based leak detection) - DOD is interested in the Utilis project.
  - Data Sharing SOP/MOU - In final draft stage. Waiting on review from Air Force.
  - Connection by Developer to Navy/Murray Road - Pending SHPO; Maria Lewis will keep on top of it.
  - Cabras Island Water Lines – further action pending GWA review
  - Navy Raw Water Lines - GWA asked about tapping into the Navy raw water lines, as this was brought up before. DOD is reviewing what cost might be for raw water based on this request.

Court Order

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



Status Information

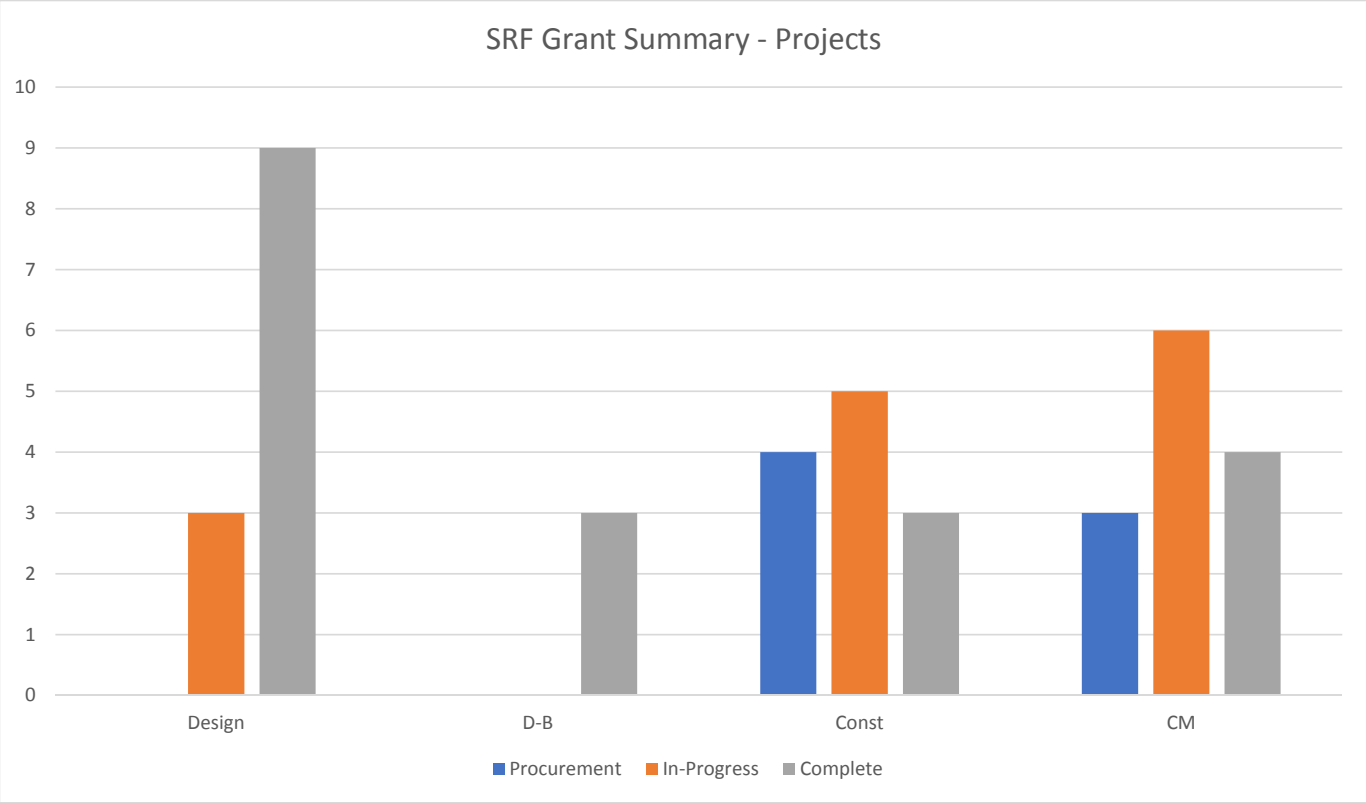
- 2 items delayed
    - Meters
    - Baza Gardens Sewer Line
- Final Date to complete all Court Order items is December 31, 2020.
- Overflow or Bypass events reported to USEPA:
    - 09/23/2018, Chalan Canton Tasi Merizo, sewer overflow (next to PS-17) Rain
    - 09/29/2018, Pump Station 14 Merizo, damaged force main
    - Umatac WWTP, Bypass 08/16 to 10/09; 2018; (ended Oct. 9th)

CIP Summary

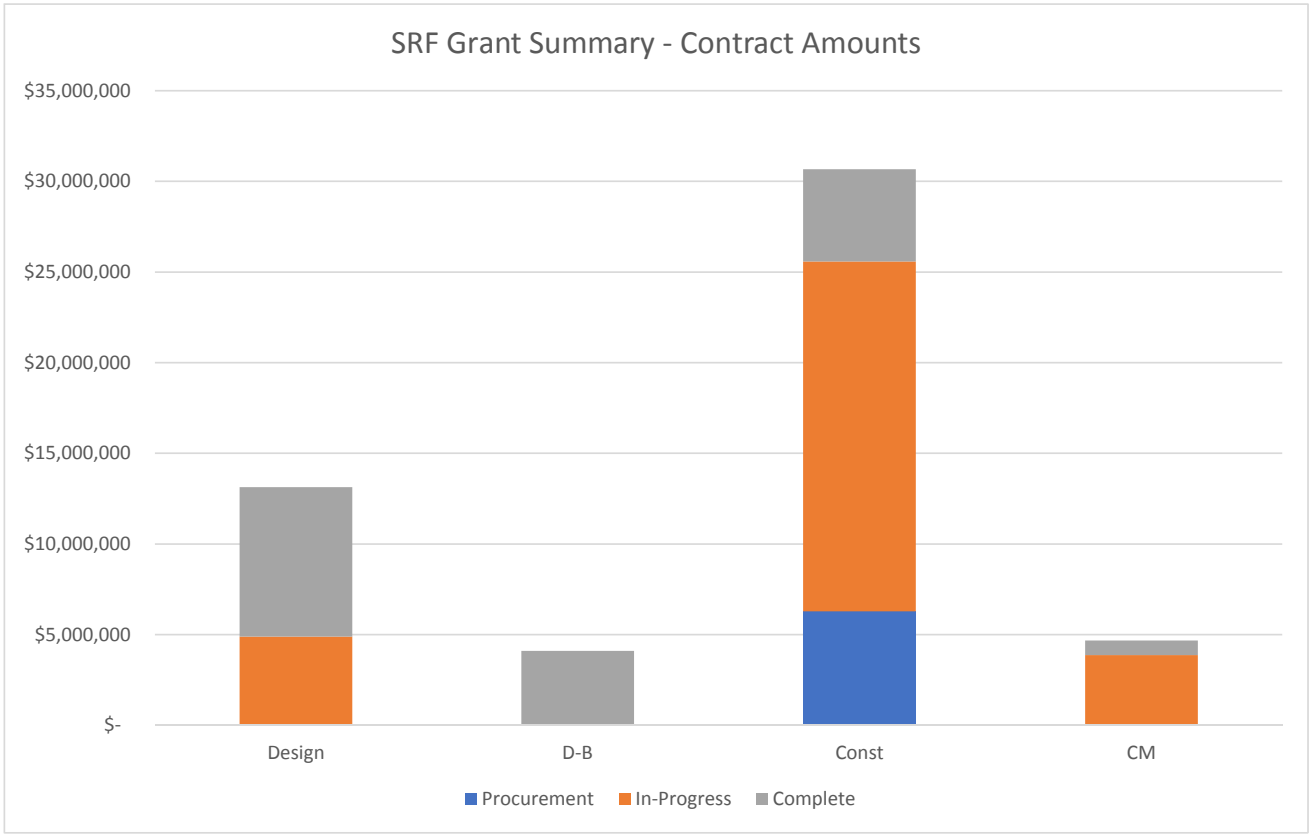
Pending reconciliation between Engineering and Finance

SRF Grant Summary

SRF Grant Summary - Projects (Sep 2018)					
	Procurement	**In-Progress**	**Complete**	**Totals**	**%**
Design	0	3	9	12	30%
D-B	0	0	3	3	8%
Const	4	5	3	12	30%
CM	3	6	4	13	33%
Totals	7	14	19	40	
%	18%	35%	48%		



SRF Grant Summary - Contract Amounts (Sep 2018)					
	Procurement	In-Progress	Complete	Totals	%
Design	$ -	$ 4,892,286	8,249,328	$ 13,141,614	25%
D-B	$ -	$ -	$ 4,108,217	$ 4,108,217	8%
Const	6,275,782	$ 19,309,043	$ 5,086,130	$ 30,670,955	58%
CM	$ -	$ 3,877,036	$ 802,243	$ 4,679,279	9%
Totals	$ 6,275,782	$ 28,078,365	$ 18,245,918	$ 52,600,065	
%	12%	53%	35%		



OEA Grant Summary

- NDWWTP Upgrades
  - 60% design submittal received on schedule on Sep 24th.
  - Sitework bid package issued – Bids due on the 18th
  - Workshop on 60% Design – October 17th – 19th
  - Vertical bid package planned for issuance Mar 2019

- Outfall Diffuser:
  - Re-bid package issued
  - Bids received and currently being evaluated

- Sewer Line Interceptor Design-Build
  - Contract Award / NTP issued
  - Design and prep work have started
  - 30% Design submittal expected October 4th
  - 60% Design submittal expected October 18th
  - 90% Design submittal expected December 20th
  - Construction start expected in January

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

Action Item	Date (Target)	Date (Actual)	Status	Remarks
Project Funds Available	July-16	AUG-30-16	Completed	
Land Acquisition	Jan-17	Jan-17 (Compensation Pending)	Completed	Survey complete, appraisals complete – Deed circulated for signatures
Procure PM/CM Firm	Jan-17	Jan-17 (NTP Issued Feb 10th)	Completed	
Procure Design Firm	Jul-17		Completed	Contract issued; kickoff pending
Design -- 30/60/90/Final -- Review	Jun-18	30% - completed May 60% - expected Sep	On-target	Project design schedule has been revised / delayed
NEPA Analysis and Determination	Feb-17	Pending	Delayed	USEPA received SHPO concurrence; OEA to review EPA EA
Procure Construction Firm	Dec-18		On-target	Phased construction; Phase 1 expected award before Dec '18; Phase 2 award in 1st quarter '19
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	

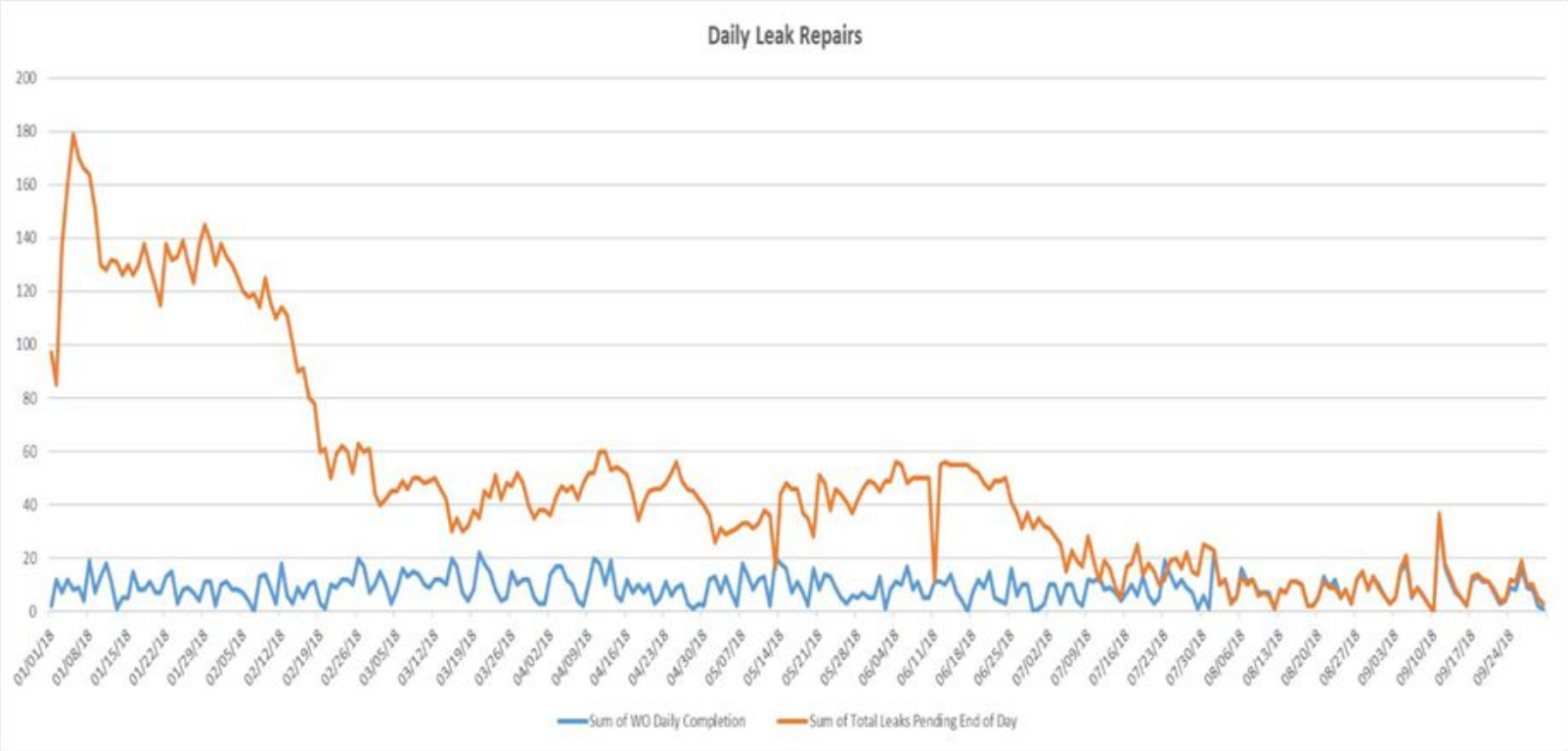
Land Acquisition Summary

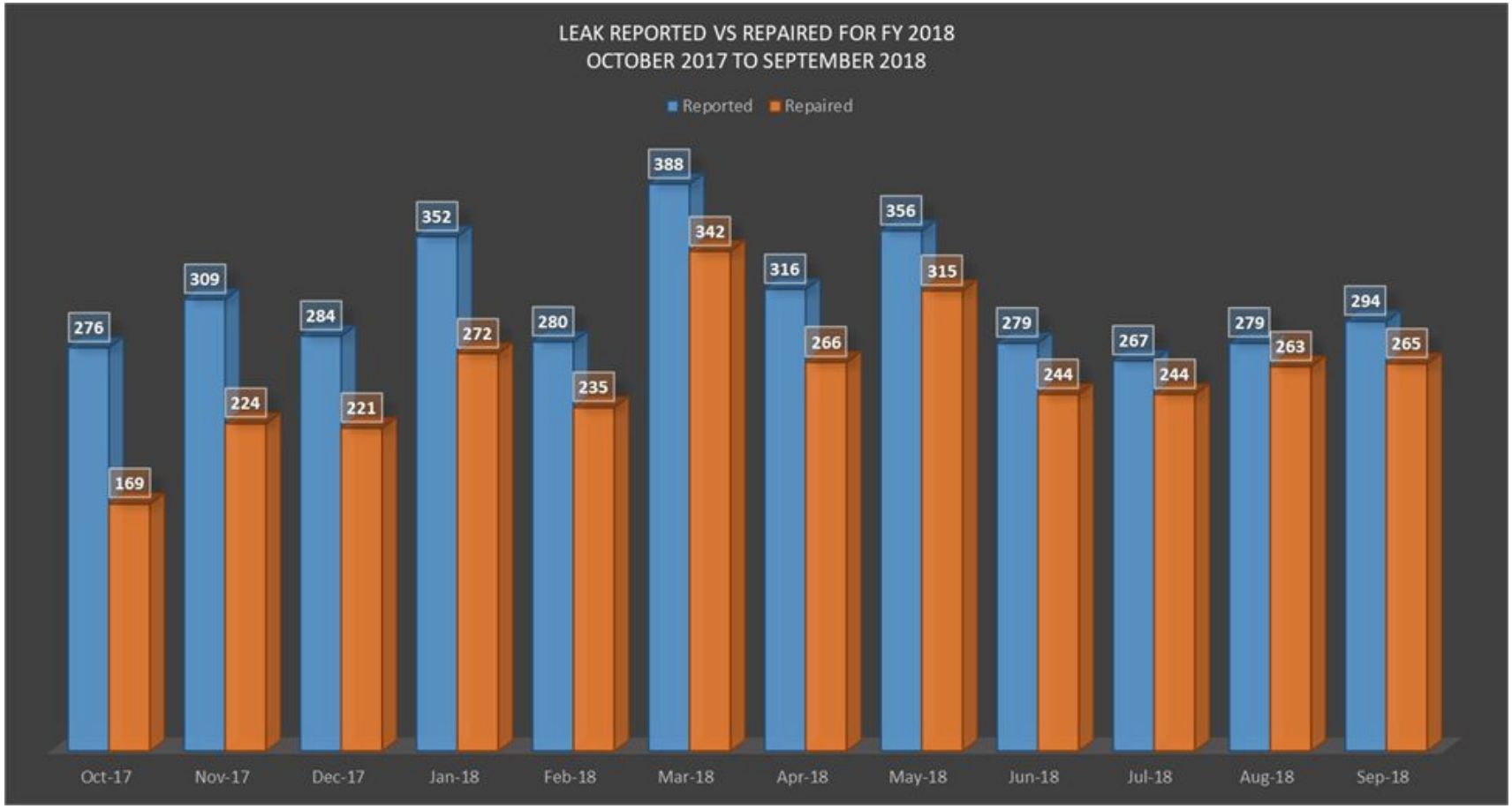
GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Ugum	Private	Pending response for L3 B4 T3521 for acceptance of GWA offer 09/25/18. Acceptance of Counter offer Letter for L4 B4 T3521 drafted and sent to GM for review and approval 10/09/18.
	Astumbo	Gov't. - CLTC	GWA and DLM working together on Land Registration process. Pending Notification of surrounding lot owner information from DLM
	Piti	Private	Preliminary geotechnical investigation and archaeological investigation in the process 05/01/18
Expansion of the Northern District Wastewater Treatment Plant (NDWWTP)	Dededo	Gov't - GALC	Land acquisition completed and filed under GWA ownership 09/17/18
Deep Wells	AG-12	Dept. of Agriculture/Manhita Farms	Land Registration has been approved by Superior Court of Guam. Pending release and recordation of the Decree Establishing Title at DLM. DCA will be submitting Retracement Survey Check Print Map to DLM for review and comments 07/13/18. Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2nd follow up sent on 09/12/18.
	Y-8	Gov't. - CLTC	Grant Deed submitted to DLM for Governor and AG signature 09/13/2018. Follow up status request sent to DLM 10/10/18.
Booster Pump Station	Agfayan	Private	3rd follow up request to DLM Administrator on request for authorization on archeological testing for L28, B19, T3734, Inarajan 10/09/18.
Sewer Pump Stations	2nd Adjacent Property to Southern Link	Private	Land Purchase and Sale Agreement sent to GM for review and approval 09/07/18
Asan Springs	Asan	Federal	License Agreement for Asan Springs facility that fall on Dept. of Park Services property currently under DOI review

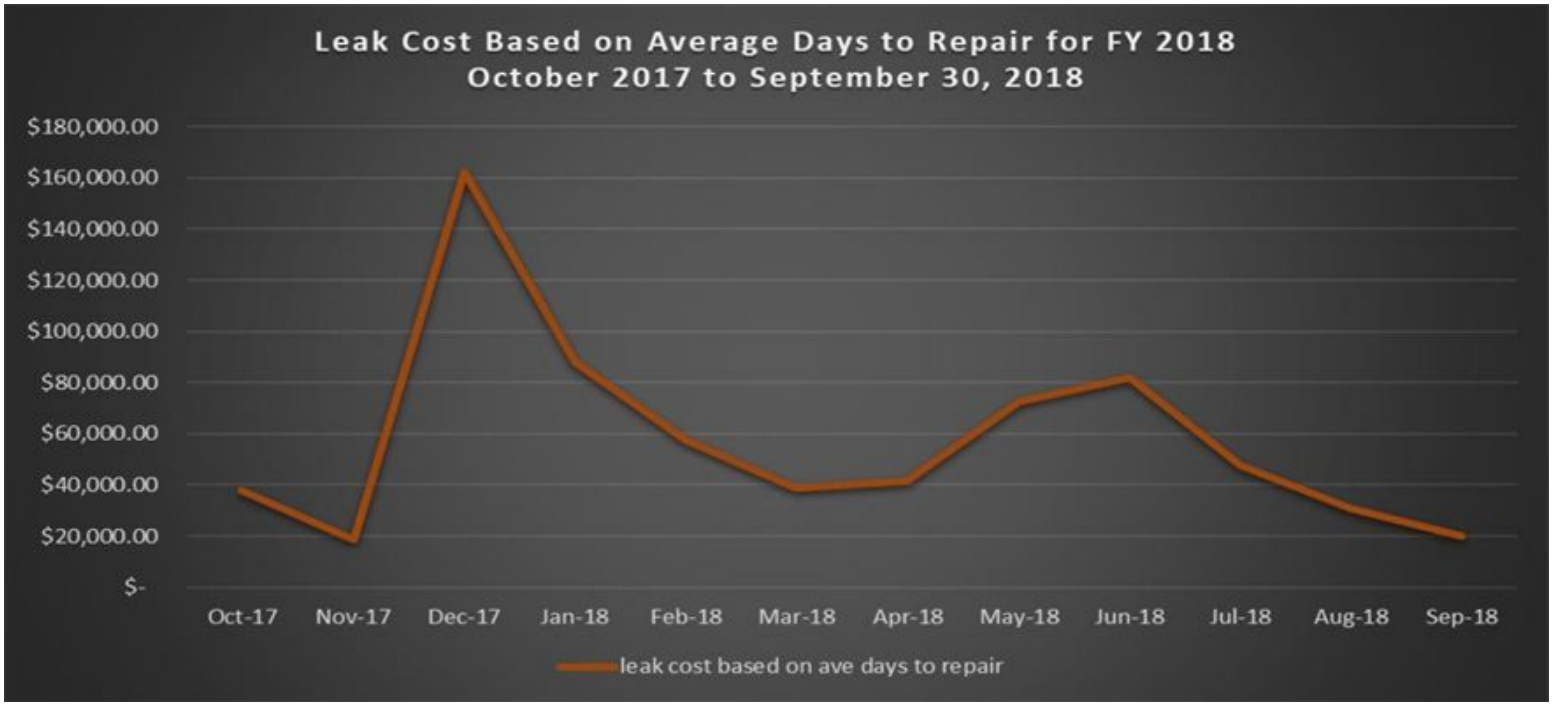
NRW – Update

- Water Loss Control Program activities are on-going
    - Review of latest numbers is underway.
    - Production meter replacement program is under design for 65 well sites. Portable flow meter is being procured to calibrate existing meters.
    - District Metering Areas are currently being developed for pilot project. Locations have been identified. Grant application was submitted for this pilot project
    - DOI Grant application has been approved for training and equipment.

Leak Repair Summary for September 2018




LEAK REPORTED VS REPAIRED FOR FY 2018
OCTOBER 2017 TO SEPTEMBER 2018
Reported
Repaired
276
169
309
224
284
221
352
272
280
235
388
342
316
266
356
315
279
244
267
244
279
263
294
265
Oct-17
Nov-17
Dec-17
Jan-18
Feb-18
Mar-18
Apr-18
May-18
Jun-18
Jul-18
Aug-18
Sep-18



Assumptions:

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

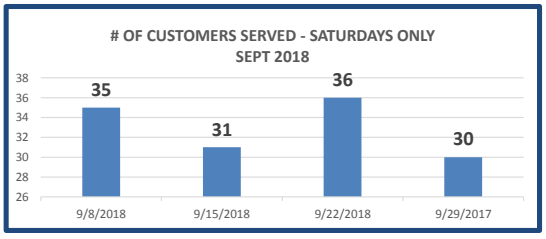
GWA Utility Services Division
Monthly Status Report
Month ending Sept 29, 2018

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE AUG 2018	AUG 2018 MONTHLY TOTAL	WEEK ENDING: 9/8/2018	WEEK ENDING: 9/15/2018	WEEK ENDING: 9/22/2018	WEEK ENDING: 9/29/2018	WEEKLY AVERAGE SEPT 2018	SEPT 2018 MONTHLY TOTAL
Collections Unit								
I. Number of accounts cut for nonpayment:	68	338	87	0	76	96	65	259
II. Number of accounts restored for nonpayment:	45	224	60	29	40	79	52	208
III. Number of No water reports responded to:	3	16	3	3	0	8	4	14
IV. Number of Secure/Unsecure valve reports responded to:	1	5	0	1	1	0	1	2
V. Number of Verify reads responded to:	0	0	0	0	0	0	0	0
VI. Number of new pay plans negotiated for **active** accounts :	189	946	189	139	163	159	163	650
VII. Number of active pay plans negotiated and ongoing :	2136		1822	1863	1966	2066	1929	
VIII. Number of **inactive** accounts with a payment arrangement:	3		0	0	0	0	0	
IX. Number of broken payment plans:	47	237	109	98	60	59	82	326
Customer Service Unit								
I. Service Delivery Points:								
a. GBN Public Service Building – Fadian								
i. Total Customers Assisted :	246	1229	229	138	242	265	219	874
ii. Total Abandoned Requests :	17	86	19	8	7	11	11	45
iii. Average Wait Time:	7 minutes		7 minutes	6 minutes	5 minutes	5 minutes	6 minutes	
iv. Average Service Time:	11 minutes		12 minutes	13 minutes	11 minutes	12 minutes	12 minutes	
v. Breakdown by request type:								
1. Apply for water	59	295	55	31	61	51	50	198
2. Restore water cut for non payment	13	66	14	5	14	22	14	55
3. Terminate Water	17	85	16	12	12	21	15	61
4. Copy of Bill	38	188	36	17	35	38	32	126
5. Billing Dispute	50	248	50	30	67	79	57	226
6. Billing Dispute follow up	4	19	2	2	4	5	3	13
7. General Questions & Other	35	176	25	19	44	34	31	122
8. Report a water leak	1	7	1	1	0	1	1	3
9. Report water theft	0	1	0	1	0	0	0	1
10. Payment Arrangement	31	157	33	26	21	38	30	118
b. Julale Satellite Office – Hagatna								
i. Total Customers Assisted :	243	1214	229	146	226	250	213	851
ii. Total Abandoned Requests :	7	36	6	11	16	23	14	56
iii. Average Wait Time:	6 minutes		8 minutes	7 minutes	7 minutes	10 minutes	8 minutes	
iv. Average Service Time:	9 minutes		9 minutes	9 minutes	10 minutes	10 minutes	10 minutes	
v. Breakdown by request type:								
1. Apply for water	56	282	41	24	33	51	37	149
2. Restore water cut for non payment	8	41	11	6	11	19	12	47
3. Terminate Water	20	98	11	7	13	22	13	53
4. Copy of Bill	56	281	57	48	68	47	55	220
5. Billing Dispute	44	220	43	29	54	54	45	180
6. Billing Dispute follow up	2	10	1	1	0	3	1	5
7. General Questions & Other	32	158	29	15	20	25	22	89
8. Report a water leak	1	3	3	2	3	2	3	10
9. Report water theft	0	2	1	0	0	0	0	1
10. Payment Arrangement	31	154	34	23	37	34	32	128
c. Upper Tumon Satellite Office – Upper Tumon								
i. Total Customers Assisted :	343	1714	329	214	348	365	314	1256
ii. Total Abandoned Requests :	19	97	28	10	20	23	20	81
iii. Average Wait Time:	13 minutes		14 minutes	6 minutes	14 minutes	13 minutes	12 minutes	
iv. Average Service Time:	12 minutes		11 minutes	12 minutes	12 minutes	12 minutes	12 minutes	
v. Breakdown by request type:								
1. Apply for water	100	500	71	33	78	85	67	267
2. Restore water cut for non payment	15	73	36	6	31	28	25	101
3. Terminate Water	31	157	21	12	31	33	24	97
4. Copy of Bill	60	302	71	64	74	64	68	273
5. Billing Dispute	71	355	89	43	90	103	81	325
6. Billing Dispute follow up	2	11	2	2	1	5	3	10
7. General Questions & Other	42	209	29	42	26	40	34	137
8. Report a water leak	4	21	3	2	5	5	4	15
9. Report water theft	0	2	0	0	1	0	0	1
10. Payment Arrangement	36	178	36	26	41	42	36	145

GWA Utility Services Division
Monthly Status Report
Month ending Sept 29, 2018

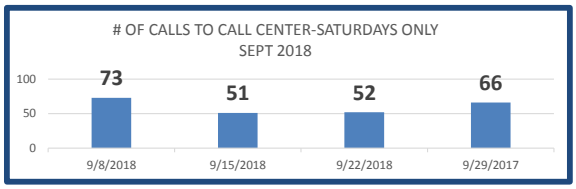
UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE AUG 2018	AUG 2018 MONTHLY TOTAL	WEEK ENDING: 9/8/2018	WEEK ENDING: 9/15/2018	WEEK ENDING: 9/22/2018	WEEK ENDING: 9/29/2018	WEEKLY AVERAGE SEPT 2018	SEPT 2018 MONTHLY TOTAL
d. Customer Call Center								
i. Calls Recieved :	1227	6135	1363	902	1170	1395	1208	4830
ii. Calls Immediately Answered :	826	4130	910	486	752	822	743	2970
iii. Calls Abandoned	57	287	60	55	43	43	50	201
iv. Calls Handled by Voice mail:	343	1716	392	361	374	530	414	1657
v. Average duration of calls answered	5 minutes		4 MINUTES	5 MINUTES	5 MINUTES	6 MINUTES	5 minutes	
vi. Breakdown by request type:								
1. Apply/Terminate info.	25	126	21	5	26	21	18	73
2. Automated Telphone Call	31	156	83	0	1	16	25	100
3. Balance Inquiry	111	553	102	49	117	79	87	347
4. Call Back	67	333	39	37	52	66	49	194
5. Dispatch	35	175	53	35	13	32	33	133
6. Dispute	8	40	4	9	14	11	10	38
7. Follow up	54	269	45	20	55	63	46	183
8. General Questions & Other	139	693	167	77	118	88	113	450
9. GWA Staff	116	579	101	45	92	143	95	381
10. No Water	24	118	31	31	7	29	25	98
11. Online/Phone App Help	32	161	28	19	31	26	26	104
12. Pay by Phone	158	788	217	134	196	143	173	690
13. Pay Plan	96	478	70	54	53	37	54	214
14. Restore Non-payment	27	133	33	3	27	25	22	88
15. Secure/Unsecure Valve	5	27	5	2	11	9	7	27
16. Voice Mail	38	188	45	40	43	64	48	192
17. Water leak	10	48	14	10	8	4	9	36
e. Customer Emails:								
i. Emails Recieved :								
1. customers@guamwaterworks.org	35	174	41	37	54	37	42	169
Breakdown by request type (email):								
a. Apply for water	0	2	2	3	2	2	2	9
b. Terminate Water	2	10	2	0	4	4	3	10
c. Copy of Bill	2	10	1	0	3	2	2	6
d. Billing Dispute & follow up	6	28	20	17	13	10	15	60
e. General Questions & Other	17	86	8	8	11	7	9	34
f. Report a water leak	2	9	2	5	7	2	4	16
g. Report water theft	0	0	0	0	1	0	0	1
h. Online services inquiry	6	29	6	4	11	10	8	31
2. gwaservesme@guamwaterworks.org (realtors and prop mgrs):	0	0	0	0	2	0	1	2
ii. Emails Replied (both):	30	152	45	34	26	45	38	150

	AVERAGE	9/8/2018	9/15/2018	9/22/2018	9/29/2017	AVERAGE
f. Saturday Services: 9AM TO 1PM ONLY	32	35	31	36	30	33
i. VISITS: Breakdown by request type:						
1. Apply for water	8	10	6	5	6	7
2. Restore water cut for non payment	1	2	0	2	2	2
3. Terminate Water	2	2	0	3	2	2
4. Copy of Bill	8	8	12	10	8	10
5. Billing Dispute	4	5	8	11	5	7
6. Billing Dispute follow up	0	0	0	0	0	0
7. General Questions & Other	2	1	1	2	0	1
8. Report a water leak	0	1	0	0	0	0
9. Report water theft	0	0	0	0	0	0
10. Payment Arrangement	6	6	4	3	7	5



GWA Utility Services Division
Monthly Status Report
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UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE AUG 2018	AUG 2018 MONTHLY TOTAL	WEEK ENDING: 9/8/2018	WEEK ENDING: 9/15/2018	WEEK ENDING: 9/22/2018	WEEK ENDING: 9/29/2018	WEEKLY AVERAGE SEPT 2018	SEPT 2018 MONTHLY TOTAL
ii. CALLS TO CALL CENTER (Saturday services only):			9/8/2018	9/15/2018	9/22/2018	9/29/2017		
			73	51	52	66		



Dispute Resolution & Document Control

I. Dispute Resolution:			9/8/2018	9/15/2018	9/22/2018	9/29/2017		
a. Number of disputed accounts resolved:	9	43	11	2	9	11	8	33
b. Number of disputed accounts under review:	178	890	178	178	178	178	178	712
II. Document Control:								
a. Number of field activities posted :	341	1704	340	206	378	469	348	1393
b. Number of field activities pending:	714	3570	868	834	601	585	722	2888

Disconnect/Reconnect Unit

I. Number of field activities received:	296	1481	249	133	216	239	209	837
II. Number of field activities completed:	324	1622	324	148	218	233	231	923
III.Number of field activities pending field action:	2	10	5	3	1	2	3	11

Meter Reading Unit

I. Number of meters read:			9/8/2018	9/15/2018	9/22/2018	9/29/2017		
a. Electronically Read Meters:	8576	42878	7908	9482	10393	9034	9204	36817
b. Manually Read Meters:	38	192	27	25	36	52	35	140
i. Unread meters (Meters scheduled to be read but not read):	45	224	45	89	82	105	80	321
ii. Number of data logs received:	27	136	21	13	28	26	22	88
iii. Number of data logs retrieved:	30	149	23	5	27	32	22	87
iv. Number of data logs pending field action:	14	70	5	13	14	8	10	40
v. Communication Errors/Reprogramming requests:	4	18	1	0	2	0	1	3
vi. Number of estimated readings (for the week):	20	98	39	62	74	96	68	271
vii. Reasons for Estimations:								
1. Cant locate meter:	3	13	0	1	2	3	2	6
2. Temporary Obstruction	3	14	3	14	4	11	8	32
3. Vicious Dog	1	3	1	0	0	1	1	2
4. Flooded meter	6	29	1	2	1	10	4	14
5. Corrective action requested (database corrections needed)	3	16	3	0	1	2	2	6
6. Possible changed out meter:	12	60	2	12	8	9	8	31
7. Communication/Programming error (code 92's):	6	30	6	2	3	7	5	18
8. Other:	9	47	8	9	7	20	11	44
1. Leaks detected on customer's private line:	1095	5477	968	1189	1269	961	1097	4387
2. Reverse Flow Detected	69	346	32	153	102	93	95	380
3. No Usage Detected	411	2054	354	431	492	447	431	1724
4. Tamper Code	19	94	19	17	19	22	19	77
c. Electronic Read Percentage:	99%		98%	99%	99%	99%	99%	

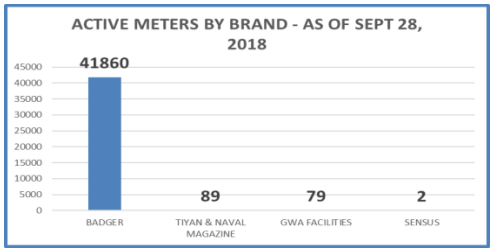
Revenue Protection Unit

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

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
October 2018

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

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A. Summary Table of 2010, 2013 and 2016 Bond

Tables are updated however they require reconciling with Finance Bond Schedules.

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	$ 100,000.00	N/A	N/A	$ 100,000.00	100.00%	0.00%	$ -	N/A	N/A
PW-05-05	"A Series Well Transmission Line	$ 475,709.00	123.13%	-23.13%	$ 369,846.00	100.00%	0.00%	$ -	N/A	N/A
PW 05-06	Water Booster Pump Station	$ 500,000.00	77.87%	0.00%	$ 1,679,964.00	98.03%	0.84%	$ -	#DIV/0!	#DIV/0!
PW 05-07	Meter Replacement Program	$ 10,450,000.00	87.42%	12.58%	$ 996,532.00	100.00%	0.00%	$ 1,400,000.00	10.71%	89.29%
PW 05-08	Barrigada Tank Repair/Replacement	$ 5,450,000.00	99.55%	0.45%	$ 4,987,000.00	99.32%	0.68%	$ -	#DIV/0!	#DIV/0!
PW 05-09	Leak Detection	$ 200,000.00	100.06%	-0.06%	$ 16,916.00	100.00%	0.00%	$ 100,000.00	0.00%	100.00%
PW 05-10	Potable Water System Planning	$ 200,000.00	100.00%	0.00%	$ 624,000.00	100.00%	0.00%	$ 876,294.00	100.00%	0.00%
PW 05-11	Implement Ground Water Rule	$ 1,700,000.00	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	$ 1,900,000.00	18.89%	81.11%	$ -	N/A	N/A	$ -	N/A	N/A
PW 05-13	Deep Well Rehabilitation	$ 548,000.00	100.00%	0.00%	$ 200,000.00	100.00%	0.00%	$ 250,000.00	44.01%	55.99%
PW 05-14	New Deep Wells at Dow n Hard	$ 485,743.00	107.02%	-7.02%	$ -	#DIV/0!	#DIV/0!	$ 1,190,000.00	0.00%	100.00%
PW 05-15	Rehabilitation of Asan Springs	$ 1,100,000.00	34.39%	65.61%	$ -	N/A	N/A	$ -	N/A	N/A
PW 05-16	Master Meters	$ 1,489,957.00	100.00%	0.00%	$ 712,060.00	100.00%	0.00%	$ 2,151,539.00	7.04%	92.96%
PW 09-01	Ugum Water Treatment Plant Intake	$ 700,000.00	99.47%	0.53%	$ 859,801.00	51.20%	48.80%	$ -	#DIV/0!	#DIV/0!
PW 09-02	Water Wells	$ -	N/A	N/A	$ 3,030,029.00	69.90%	30.10%	$ 2,500,000.00	0.00%	100.00%
PW 09-03	Water Distribution System	$ 3,174,748.00	100.00%	0.00%	$ 10,912,453.00	95.02%	4.98%	$ -	#DIV/0!	#DIV/0!
PW 09-04	Pressure Zone Realignment	$ -	N/A	N/A	$ 337,110.00	104.23%	-4.23%	$ 1,141,000.00	64.94%	35.06%
PW 09-06	Central Water Distribution System 2005	$ 775,002.00	128.50%	-28.50%	$ -	N/A	N/A	$ -	N/A	N/A
PW 09-08	Mechanical/Electrical Equipment	$ 1,200,000.00	100.00%	0.00%	$ 426,799.00	96.19%	3.81%	$ -	#DIV/0!	#DIV/0!
PW 09-09	Water Reservoir Internal/External	$ 2,150,000.00	83.72%	16.28%	$ -	N/A	N/A	$ -	N/A	N/A
PW 09-10	Water Reservoir Internal/External	$ -	N/A	N/A	$ -	N/A	N/A	$ 800,000.00	100.00%	0.00%
PW 09-11	Water System Reservoirs 2005 Improvements	$ 1,050,000.00	100.00%	0.00%	$ 13,878,000.00	100.00%	0.00%	$ 58,830,170.00	26.75%	73.25%
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	$ -	#DIV/0!	#DIV/0!	$ -	N/A	N/A
PW 12-01	Water Audit Program & Water Loss Control Plan	$ 78,459.00	19.16%	80.84%	$ -	N/A	N/A	$ 550,000.00	70.83%	29.17%
PW 12-02	Production Plan / Reduce Navy Purchases	$ 100,000.00	100.00%	0.00%	$ -	N/A	N/A	$ -	N/A	N/A
PW 12-03	Hydraulic Assessment of Tanks	$ 500,000.00	100.00%	0.00%	$ -	N/A	N/A	$ -	N/A	N/A
PW 12-04	Agana Heights & Chaot Tanks	$ 4,700,000.00	100.00%	0.00%	$ 1,330,287.00	99.91%	0.00%	$ 1,220,000.00	40.98%	59.02%
PW 12-05	Tank Major Repair Yigo #1, Mangilao #2, Astumbo#1	$ 1,900,000.00	97.63%	2.37%	$ 11,605,000.00	100.00%	0.00%	$ 1,822,133.00	100.00%	0.00%
PW 12-06	Tank Replacement Piti & Hyundai	$ -	N/A	N/A	$ -	N/A	N/A	$ 7,300,000.00	100.00%	0.00%
PW 12-07	Assessment of Maloljloj Elevated & Yigo Elevated	$ 200,000.00	100.00%	0.00%	$ 485,117.00	100.00%	0.00%	$ -	N/A	N/A
PW 12-08	Public Water System Asset Inventory/ Condition Assessment	$ 100,000.00	100.00%	0.00%	$ -	N/A	N/A	$ -	N/A	N/A
PW 12-09	Public Water System GIS & Mapping	$ 50,000.00	100.00%	0.00%	$ -	N/A	N/A	$ -	N/A	N/A
PW 14-01	Fire Hydrant Replacement Program	$ -	N/A	N/A	$ -	N/A	N/A	$ 1,200,000.00	0.00%	100.00%
		$ 42,251,777.85			$ 53,550,914.00			$ 81,331,136.00		

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	$ 1,474,000.00	100.00%	0.00%	$ 650,901.00	100.02%	-0.02%	$ 312,983.00	100.00%	0.00%
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	$ 563,148.00	118.21%	-18.21%	$ 1,714,755.00	17.12%	82.88%
WW 09-06	Wastew ater Collection System Repl/ Rehabilitation	$ 1,001,323.00	103.40%	-3.40%	$ 660,313.00	102.23%	-10.04%	$ 1,055,478.00	52.63%	47.37%
WW 09-08	Facilities Plan/Design for Baza Gardens WWTP	$ 1,250,000.00	100.00%	0.00%	$ -	N/A	N/A	$ -	N/A	N/A
WW 09-10	Facilities Plan/Design for Agat-Santa Rita WWTP	$ 899,630.00	100.00%	0.00%	$ -	N/A	N/A	$ -	N/A	N/A
WW 11-03	Baza Gardens STP Replacement	$ 1,301,947.00	88.43%	3.45%	$ 9,656,874.00	32.26%	0.31%	$ 22,663,776.00	128.73%	0.00%
WW 11-04	Facilities Plan/Design for Umatac-Merizo WWTP	$ 853,858.00	186.52%	-86.52%	$ 371,699.00	100.00%	0.00%	$ 252,105.00	100.00%	0.00%
WW 11-08	Agat/Santa Rita STP Replacement	$ 2,217,700.00	169.65%	-69.65%	$ 67,200,000.00	99.53%	0.47%	$ 2,002,331.00	97.00%	3.00%
WW 12-01	Northern District WWTP Primary Treatment Upgrade	$ 11,750,000.00	101.49%	-1.49%	$ -	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	101.74%	0.00%	$ 673,000.00	100.00%	0.00%	$ -	#DIV/0!	#DIV/0!
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%	99.04%						
		$ 35,833,458.00			$ 79,775,935.00			$ 48,801,428.00		

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	$ 99,861.00	100.14%	-0.14%	$ -	#DIV/0!	#DIV/0!
EE 09-02	Electrical Upgrade - Water Wells	$ 354,226.63	100.00%	0.00%	$ 1,500,000.00	100.00%	0.00%	$ -	#DIV/0!	#DIV/0!
EE 09-03	Electrical Upgrade - Water Booster	$ -	N/A	N/A	$ -	#DIV/0!	#DIV/0!	$ -	#DIV/0!	#DIV/0!
EE 09-04	Electrical Upgrade - Water Booster	$ -	N/A	N/A	$ 977.00	100.00%	0.00%	$ -	N/A	N/A
EE 09-05	Electrical Upgrade - Other Water	$ -	N/A	N/A	$ 60,700.00	100.00%	0.00%	$ -	N/A	N/A
EE 09-06	SCADA Improvements - Phase I	$ 250,000.00	100.00%	0.00%	$ -	N/A	N/A	$ -	N/A	N/A
EE 09-07	SCADA Improvements - Phase 2	$ 1,056,986.00	100.00%	0.00%	$ -	N/A	N/A	$ -	N/A	N/A
EE 09-08	SCADA Improvements - Phase 3	$ 24,955.71	100.00%	0.00%	$ 722,359.00	100.00%	0.00%	$ 1,077,497.00	57.31%	42.69%
EE 09-09	SCADA Improvements - Phase 4	$ -	N/A	N/A	$ -	N/A	N/A	$ 4,378,118.00	77.63%	22.37%
		$ 1,748,118.34			$ 2,383,897.00			$ 5,455,615.00		

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	$ 1,171,465.00	99.89%	0.11%	$ 1,127,000.00	100.00%	0.00%
MC 05-02	Land Survey	$ 499,687.32	122.27%	-22.27%	$ 1,052.00	0.00%	-0.05%	$ 1,260,524.00	100.00%	0.00%
MC 09-01	General Plant Improvements	$ 7,241,000.00	99.58%	0.42%	$ 2,441,737.00	32.63%	55.04%	$ 1,543,757.00	97.07%	2.93%
MC 15-01	Information Technology Intergration Improvements							$ 500,000.00	48.81%	51.19%
		$ 7,740,687.32			$ 3,614,254.00			$ 4,431,281.00		

	2010 Bond Allotment	2013 Bond Allotment	2016 Bond Allotment
CIP Water	$ 42,251,777.85	$ 53,550,914.00	$ 81,331,136.00
CIP Wastewater	$ 35,833,458.00	$ 79,775,935.00	$ 48,801,428.00
CIP Electrical	$ 1,748,118.34	$ 2,383,897.00	$ 5,455,615.00
CIP Miscellaneous	$ 7,740,687.32	$ 3,614,254.00	$ 4,431,281.00
	$ 87,574,041.51	$ 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	93	**	$83.339	95.35%	10.75
2013	$139.325	56	**	$135.877	97.53%	29.12
2015	$140.019	26		$83.349	59.53%	38.47
	* - End date November 2013 via CCU Resolution 06-FY2014					
	** - Includes month of October 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. CCU approved GWA management request to extend designer GHD, Inc. contract. GWA management to petition PUC approval to increase designer contract value.	
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.	

BID PACKAGE PW 09-03, PW 09-04 AND PW 09-11	**Northern/Southern Tanks (Santa Rita, Santa Rosa and Sinifa) Construction**	
<50% Complete	**Activities/Notes:** Due to design schedule and funding availability, the bid package will be issued for three tanks to be constructed. Anticipate final design to be submitted end of September.	
Project Description:	The work performed under this project procurement shall consist of Construction of a 1MG Santa Rosa reservoir and booster pump station, 1MG Santa Rita reservoir and 1MG Sinifa reservoir. Some piping work off site from the reservoir is also required to ensure the reservoirs functions optimally.	

BID PACKAGE OEA GRANT	**Northern District WWTP Upgrade Clearing and Grading**	
50% Complete	**Activities/Notes:** IFB advertised September 18, 2018. Bid opening will be October 18, 2018.	
Project Description:	The work performed under this project procurement shall consist of clearing and grading the property, including the excavation of the ponding basin, in preparation for all vertical construction.	

BOX KEY FOR PROJECT:

(Type of Project) (Relevant CIP NO.)	**(Project Title)** **(Contractor or consultant)**	**Start Date:** (month and year)
(Percentage complete for project)	**Activities/Notes:** (brief description of activity)	**Completion Date:** (month and year)
(Court Order Paragraph No.)	(Project type)	
Project Description	Project Description Narrative	

C. CIP Water Section

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

DESIGN CIP PW 05-12	**Brigade II BPS Upgrade** **(EM Chen)**	**Start Date:** April 2012
100% complete (Basis of Design) 80% (Design)	**Activities/Notes:** Design firm working to 90% design submittal.	**Completion Date:** Due to property acquisition issues GWA anticipate May 2018
N/A	Engineering design services	
Project Description:	The design project is intended to assess system water supply feed from the north as well as Ugum WTP and the water demands downstream from the Brigade BPS so as to reconfigure the piping into the BPS and resize the pumps to me system head requirements.	

DESIGN CIP PW 12-05	**Yigo and Astumbo 2MG Tank Design Project (Lyons)**	**Start Date:** September 2013
99% complete	**Activities/Notes:** Design firm to provide RFI support during the construction.	**Completion Date:** January 2016
CO 9 (b)(4)	Engineering design services	
Project Description:	Develop the construction documents for two (2) 2.0 million-gallon (MG) nominal capacity concrete reservoirs in the Yigo service zones and one (1) 2.0 MG reservoir in the Astumbo service area. The design services will consist of preparation of plans, specifications, and estimates (PS&E), including Basis of Design, design calculations, construction schedule, topographical survey, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design	

	drawings in Auto CAD (latest version), and relevant permits. Other services will include construction bid support service, meetings, and response to request for interpretation/information during construction. The consultant is required to incorporate and modify existing GWA concrete reservoir specifications to meet the project objective.

DESIGN PW 09-11	**Northern and Southern Guam Reservoir Design** **(TG Engineers)**	**Start Date:** May 2015
60% Complete	**Activities/Notes:** Santa Rosa, Sinifa and Santa Rita design to be packaged in one IFB. Package expected by Mid-October. Inarajan – Land procurement second site related to new BPS's still on-going. 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 – Change Order with AIC on going. GWA still waiting for time extension request. Tumon #2 – tank under construction. Hyundai – tank under construction. Piti – GWA still evaluating alternative solutions to storage needs in Piti area. Manenggon –70% design near complete. Tumon #1 – GWA working on land issues.	**Completion Date:** Update: Due to property acquisitions issues for Piti and Tumon #1, design completion 6 months after property issue resolved.
CO 29 (b)(4)	Engineering design services	
Project Description:	The design services will consist of preparation of plans, specifications, and estimates (PS&E), which includes Basis of Design, design calculations, hydraulic modeling (EPANET), computational fluid dynamic modeling (CFD), construction schedule, topographical survey, property research, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction The tank locations are Hyundai, Pulantat, Chaot #2, Tumon #2, Piti & Tumon #1.	

CONSTRUCTION PW 09-03	**Line Replacement Phase IV (Giant Construction)**	**Start Date:** 02/14/16
90% Complete	**Activities/Notes:** Contractor continuing work along Chalan Koda, Matguac and GWA fuel farm.	**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
95% Complete	**Activities/Notes:** GWA received 100% design drawings. Design under review.	**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
93% Complete	**Activities/Notes:** Yigo #1: tank on-line, final punch list on-going. Yigo #2: tank on-line, punch list on-going. GWA waiting for inspection report for existing 2.5MG steel tank. GWA working to Change Order repair work for Astumbo #2 steel tank. New Concrete Astumbo #1 was placed on line however site work still on-going.	**Completion Date:** 07/31/18, (GWA working through delay claims from contractor)
	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
93% 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
10% complete	**Activities/Notes:** Reviewing submittals from contractor.	**Completion Date:** February 2019
N/A	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of three water reservoirs; 0.5MG Chaot #2, 1MG Tumon #2 (Nissan) and 1MG Hyundai. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

CONSTRUCTION PW 12-04, PW 12-06 AND PW 09-11	**Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction (AIC)**	**Start Date:** 02/8/18

15% Complete	**Activities/Notes:** Nissan tank site: site prep work for foundation work on-going. Hyundai tank site. Contractor preparing temporarily tank foundations. GWA working on Change Order to AIC for construction of Chaot #2 tank.	**Completion Date:** 02/31/19
	Construction Services	
Project Description:	The work performed under this project procurement shall consist of Construction of three water reservoirs; 0.5MG Chaot #2, 1MG Tumon #2 (Nissan) and 1MG Hyundai. Some piping work off site from the reservoir is also required to ensure the reservoirs function optimally.	

CONSTRUCTION MANAGEMENT PW 09-11	**Northern and Southern Tank Phase I (Santa Rosa, Sinifa, Santa Rita) Construction Management (GHD)**	**Start Date:** April 2018
0% complete	**Activities/Notes:** Providing constructability review for Santa Rosa Tank.	**Completion Date:** June 2019
N/A	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of three water reservoirs; 1MG Santa Rosa, 1MG Sinifa and 1MG Santa Rita. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

D. CIP Wastewater Section

DESIGN WW 11-08	**Agat-Santa Rita WWTP Replacement (DCA)**	**Start Date:** October 2014
99% Complete	**Activities/Notes:** Change Order to extend design services during construction executed.	**Completion Date:** Nov. 2015 (design); June 2018 (construction)
CO 11	Engineering design services	
Project Description:	The engineering design consultant is required to design a new wastewater treatment facility that will meet secondary treatment limits. The new facilities will incorporate provisions for redundancy to improve reliability and facilitate operations and maintenance activities at the existing facility	

CONSTRUCTION MANAGEMENT WW 11-08	**Agat Santa Rita WWTP CM (GHD)**	**Start Date:** November 2014
100% (PH 1) 100% Complete (PH 2, Part 1) 93% Complete (PH 2, Part B)	**Activities/Notes:** Typical CM inspections on-going. Change order required to continue services through remaining construction period.	**Completion Date:** Completion date to coincide with construction completion.
CO 11	Construction Management services	

Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of the Agat Santa Rita WWTP Phase II project. GWA plans to replace the existing wastewater treatment plant for a new plant that can meets permit limits. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.

CONSTRUCTION WW 11-08	**Agat Santa Rita WWTP Phase II (Sumitomo Construction)**	**Start Date:** January 2016
Part 1 of Phase II- 100% Complete Part 2 of Phase II- 93% complete	**Activities/Notes:** Contractor still working on headworks, aerobic digester, equalization basin, admin and maintenance buildings.	**Completion Date:** Phase A: 03/15/17 Phase B: 12/31/17 will not be met, December 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:** (Completion date extension discussion on-going.)
CO 11	Engineering design services	
Project Description:	The intent of this project for an engineering firm to prepare design drawings and specification for a sewer conveyance from the Baza Garden WWTP to the new Agat Santa-Rite WWTP. The design will take into account growth in the Baza Gardens/Talofofo areas as wells as new connection along the Route 17 route.	

DESIGN WW 09-06	**Bayside SPS Improvements Design (EMPSCO)**	**Start Date:** July 29, 2016
99% Complete	**Activities/Notes:** Due to change in design Army Corp of Engineers permit viewed as not necessary. GWA received 100% design and under review. GWA working on Change order to address snail and archeological report that was not part of original scope.	**Completion Date:** Due to issue with ACOE anticipate December 2017 for design only.
	Engineering design services	
Project Description:	The intent of this project for an engineering firm to prepare design drawings and specification to upgrade the Bayside Sewer Pump Station given the facility is in major disrepair and the adjacent river is eroding away the access road to the facility which is causing maintenance challenges.	

CONSTRUCTION WW 09-08, WW 11-03	**Baza Gardens Cross Island Road Sewer Conveyance Construction Phase I (BME and Sons)**	**Start Date:** October 2016
95% Complete	**Activities/Notes:** Site work at new SPS, force main and gravity line installation along Route 17 and installation of last segment of sewer to the new WWTP all on-going.	**Completion Date:** Phase I: 03/01/18 (this completion date will have to be extended. Under negotiations)
	Construction services	
Project Description:	The work performed under this project consist of construction of 14,714' of gravity main, 2,767' of force main and sewer pump station #3 next to the Aplacho River in Santa Rita.	

CONSTRUCTION MANAGEMENT WW 09-08 WW 11-03	**Baza Gardens Cross Island Road Sewer Conveyance (Construction Management) (SSFM)**	**Start Date:** December 5, 2016
80% Complete	**Activities/Notes:** Change Order for additional scope and fee with finance.	**Completion Date:** April 2018 (this completion date will have to be extended. Under negotiations)
	Construction Management services	
Project Description:	The work performed under this project shall consist of Construction Management and Inspection Services for the construction of gravity main, force mains and sewer pump station as well as an equalization basin at the Baza Garden WWTP.	

CONSTRUCTION WW 09-08, WW 11-03	**Baza Gardens Cross Island Road Sewer Conveyance Construction Phase II (BME and Sons)**	**Start Date:** March 2017
97% Complete	**Activities/Notes:** Installation of last segment of sewer to the new WWTP is on-going.	**Completion Date:** April 2018 (this completion date will have to be extended. Under negotiations)
	Construction services	
Project Description:	The work performed under this project consist of construction of 1,767' of gravity main, 14,400' of force mains and sewer pump station #2 along Route 17.	

CONSTRUCTION WW 09-08, WW 11-03	**Baza Gardens Cross Island Road Sewer Conveyance Construction Phase III (Sumitomo Construction)**	**Start Date:** June 2017
45% Complete	**Activities/Notes:** Contractor continuing pipeline and SPS construction work on Route 17 along with work at wet well at Baza Gardens WWTP.	**Completion Date:** Phase III: 03/16/18 (this completion date will have to be extended. Under negotiations)
	Construction services	
Project Description:	The work performed under this project consist of construction of, but not limited to, 10,481' of force mains and sewer pump station at existing WWTP, equalization tanks, stand-by generator, improved headworks, grit removal system, and associated equipment.	

CONSTRUCTION WW 11-04	**Umatac Merizo WWTP Design Build Improvements Project (CoreTech)**	**Start Date:** June 2017
90% design 40% construction	**Activities/Notes:** · CHL continuing excavation and grading of the North Overland Flow System (OFS) and building pipe wall supports. · Culvert repair work started. Headwall rebar being placed. · CT/HD preparing a response to BC's I&C and Process Control comments. · DN Tank walls being formed. · Change Proposals: · WW Characterization / Design of Phosphorus Removal System: Clarification discussion with DCA/GSP held 10/11. Change order to be sent for contractor signatures 10/15/18. · Multiple weather delays to be submitted. · Request for additional compensation for unanticipated rock excavation and curtain drain to capture groundwater flow in area of tank and overland flow terraces anticipated to be submitted. · Forthcoming - Sheet piles will be needed adjacent to large lagoon for the construction of the UV basin due to seepage from lagoon.	**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
40%	**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.	

DESIGN WW 09-01	**Yigo SPS Flood Protection and Rehabilitation Design (AECOM)**	**Start Date:** August 2, 2018
5% Complete	**Activities/Notes:** Site investigation and pre-design task on-going.	**Completion Date:** June 2019
	Engineering design services	
Project Description:	The work performed under this project procurement shall consist of a design services to implement storm water mitigation measures to protect the facility during extreme weather as well as rehabilitate the facility to provide better redundancy and operate efficiently.	

E. CIP Engineering Support

DESIGN EE 09-08	**SCADA System for Water and Wastewater Facilities Phase A-1 (AECOM)**	**Start Date:** June 2015
100% complete (design) 0% Services during construction	**Activities/Notes:** 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 EE 09-08, EE 09-09	**SCADA Phase A1 Construction (G4S Security)**	**Start Date:** July 13, 2018
5% construction	**Activities/Notes:** Site survey and process of transmitting materials submittal for approval on-going.	**Completion Date:** August 2019
	Construction services	
Project Description:	The work performed under this project procurement shall consist of Construction of SCADA ready instrumentation at several water and waste water facilities throughout the island.	

CONSTRUCTION MANAGEMENT EE 09-08, EE 09-09	**SCADA Phase A1 Construction Management (GHD)**	**Start Date:** August 29, 2018
5%	**Activities/Notes:** Reviewing material submittals.	**Completion Date:** August 2019
	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the installation SCADA ready instrumentation at several water and waste water facilities throughout the island. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

F. GIS Section

MAPPING MC 05-02	**Island Wide Survey-** **(Duenas, Camacho & Ass.)**	**Start Date:** December 2007
99% complete	**Activities/Notes:** GWA engineering working to close project with surveyor and ensure all maps received.	**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
50% complete	**Activities/Notes:** First 25 property maps that GM signed are with Land Management. Second set of maps for 20 properties received from surveyor for GM signature. Surveyor conducting field work for third set of 20 properties.	**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 2018

	2018							
Description	Jan	Feb	Mar	April	May	Jun/July	Aug/Sept	Oct
Building Permit	11	9	1	13	11	28	35	7
Occupancy Permit	3	10	18	16	18	32	4	13
New Installation	14	8	7	9	3	18	3	17
Sewer Application	15	14	7	6	3	0	0	1
Sewer Inspection	0	1	3	0	0	1	0	0
Private Utility Acceptance	0	0	0	0	0	0	0	0
Relocation of Water Meter	0	0	0	0	0	0	0	0
Tapping-Water	1	1	0	0	3	1	1	0
Tapping-Sewer	0	1	0	0	0	0	0	0
Clearance-Water	3	2	7	10	20	41	44	20
Clearance-Sewer	3	2	7	10	20	41	44	20
Highway Encroachment	0	4	41	22	25	31	1	10
Verification of Utilities	4	4	5	4	1	7	8	3
Fire Flow Test	0	0	1	0	0	0	0	0
Schedule Water Outage	0	1	0	0	0	0	0	0

H. SRF Project Status Report

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

Percentage Key:

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

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

	Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount (+) change orders	Contractor	Status as of 10/12/18
1	Northern District SSES & I/I Study	Sanitary sewer system evaluation study (SSES) and inflow and infiltration (I/I) study designed to evaluate high I/I areas within the Northern sewer basin with the goal of identifying projects to eliminate them.	J. Davis	Design	1	10/10/2014	2/29/2016	$ 792,979.97	Stanley	100% Complete.
				Construction				*The project does not involve construction.*		
				Const. Mgmt						
2	Southern SSES Rehabilitation (Agat-Santa Rita-Umatac-Merizo)	Rehabilitation of segments of sewer lines in Umatac, Merizo, Agat, and Santa Rita where the Sanitary Sewer Evaluation Study recommends rehabilitation.	Brown & Caldwell	Design				*The design was previously completed under bond funding.*		
				Construction	1	10/30/2015	2/28/2017	$ 1,170,583.82	Reliable Builders	Warranty work complete .
				Const. Mgmt	1	11/10/2015	3/30/2017	$ 226,980.23	TG Engineers	CM Services complete.
3	Asan-Adelup-Hagatna RT1 Sewer Line Rehabilitation and Replacement	Rehabilitation of sewer lines from the War in the Pacific Asan Park to the Governor's Complex in Adelup. This line is asbestos concrete that is dilapidated and some areas have disintegrated crowns.	Brown & Caldwell	Design	2	12/11/2015	3/30/2017 for Design requirements	$ 1,780,210.00	HDR	Route 1 rebid: HDR to provide services during bid process. .
				Construction		10/16/2018	12/30/2019	$6,275,782.88	InfraTech	Procurement 98%. GWA waiting for insurance and bonding documents from contractor.
				Const. Mgmt	2	8/3/2017	8/3/2019	$ 870,610.41	DCA	CM activities on hold until construtcion contract executed.
4	RT2 Agat War in the Pacific Sewer Line Rehabilitation and Replacement	Rehabilitation of a large segment of sewer line fronting the War in the Pacific Park in Agat that has collapsed.	Brown & Caldwell	Design	3	11/17/2015	3/30/2017 for Design requirements	$ 316,681.00	SSFM	SSFM providing services during bidding process as well as construction phase.
				Construction	2	8/31/2017	10/1/2018	$ 4,554,451.00	ProPacific	· Stop work order lifted, contractor resumed work. · PPBC to revise and resubmit trench box/shoring submittal again with engineer's signature. · PPBC working on SMH #8A and #8. · SMH #8A installed this week, and started work on SMH #8. · Laying pipe between SMH #4 & 5 restarted this week; finally got trench shoring resolved. · PPBC continues discharging/dewatering water to sewer; GWA metering discharge. · Still waiting on SSFM on justification for hours spent on engineering services; provided proposal on T&M basis for additional services. · CO #2: GWA decided to proceed with bypass pump purchase; Contractor to contact MORRICO to confirm price includes delivery to job-site. · CO #3: In negotiation for additional time/work completed. · Contractor Invoice #8 processed 10/9.
				Const. Mgmt	3	9/19/2017	10/1/2018	$ 584,725.00	TG Engineers	• CM inspection and coordination on-going.

5	Brown & Caldwell Project Management	Brown & Caldwell to provide program management services and support.	T. Cruz	Design	4	3/24/2015	2/28/2019	$ 2,640,220.00	B&C	Project underway.
				Construction				*The project does not involve construction.*		
				Const. Mgmt						
6	Wastewater, Water and Source Water System Master Plan Upgrade	Update of the existing water and wastewater master plan while factoring in military integration and secondary treatment plant options.	Brown & Caldwell	Design	5	7/6/2015	01/30/2018 (revised due to financial workshop)	$ 2,623,300.00	B&C	· Waiting on final public meeting review comment responses from Miguel before printing the final documents. Nudged Miguel last week to finish the meeting notes. Need to get it finished as soon as he returns. · Budget is expended - additional work for the public meetings and SFO Presentation currently at ~$66,000. (Final printing ~ $7,000) · Approximately $74,500 to be added to the task by GWA to reflect actual costs to complete the project.
				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	• Project in holding pattern until construction IFB is issued
				Construction		3/30/2019	6/30/2020			GWA has received SRF grant 96902619 therefore GWA to work to schedule procurment for construction activities by November 2018 with actual start occuring soetime in March 2019. .
				Const. Mgmt		3/30/2019	6/30/2020			· Draft CM scope submitted to GWA.
8	Tumon Sewer Hot Spots	Investigation, evaluation, and repair of possible solutions, to long plaguing issues where sewer overflows are known to occur in Tumon San Vitores.	Brown & Caldwell	Design	7	6/24/2016	10/30/2017 for design only	$ 572,089.00	TG Engineers	· TGE to provide engineering services during bid process.
				Construction		12/1/2018	12/31/2019			Procurement 55%; GWA received proposed bid "repackage" and is under review. This project will be "transitioned" from the PMO to GWA engineering thus transitioning plan required.
				Const. Mgmt		12/1/2018	12/31/2019			Procurement 90%: Scope and fee negotiations with AMOrient still on-going.
9	Critical Sewer Pump Stations (7 stations)	Rehabilitation of various components of 7 pump stations that were identified to by the CDM design team: Macheche, Ypaopao, Astumbo 1, Fujita, Santa Ana, Southern Link, and Route 1.	CDM	Design				*The design will be incorporated into the design/build package.*		
			J. Davis	Design/Build	1	8/8/2016	3/30/2018	$ 1,542,979.01	ProPacific	All punch list items cmpete. Final close out on-going.
				Const. Mgmt	4	9/9/2016	3/30/2018	$ 329,353.52	Stanley	CM working. Close out of project on-going..

10	Sewer Pump Station High Water Alarm Systems (20 stations)	This project will design and installed telemetry equipment/SCADA type alarms that will alert when pump station failure occurs.	C. Yam	Design				*The design will be incorporated into the design/build package.*		
				Design	8	8/12/2016	02/30/2017	$ 183,171.00	AECOM	Design complete
				Construction	3	4/5/2017	9/30/2017	$ 1,444,888.00	Pacific Rim	Project complete
				Const. Mgmt	5	02/30/2017	9/30/2017	$ 195,269.00	EMSPCO	CM work complete
11	Sewer Pump Station Backup Power (2 stations)	Construction of the housing and installation of new generators for the Casimero pump station (Mongmong) and the Namo pump station (Yona central).	B. Cruz	Design				*The design will be incorporated into the design/build package.*		
				Design/Build	2	6/24/2016	9/30/2017	$ 362,692.53	ProPacific	Design Build project complete.
				Const. Mgmt				*B. Cruz is the construction manager.*		
12	RT4 Relief Sewer Line Rehabilitation and Replacement	Rehabilitation of sewer lines that are located from Agana McDonalds to Marine Drive that have been known to overflow due to structural issues.	Brown & Caldwell	Design	9	3/1/2016	4/22/2017	$ 794,000.00	AECOM	· AECOM to provided services during bidding process.
				Construction	4	9/3/2018	12/26/2019	$ 3,998,688.00	Insituform	· NTP issued on September 3, 2018. Completion date, therefore, is December 26, 2019. · Pre-construction meeting held on October 4, 2019 · GWA letter for DPW permit signed by GWA and submitted to DPW
				Construction	5	9/25/2018	12/19/2019	$ 3,407,848.00	PropPacific	Procurement 100%, · Schedule A, ProPacific ($3.4M) · NTP issued on September 25, 2018. Completion date, therefore, is December 19, 2019. · Pre-construction meeting held on October 3, 2019 · GWA letter for DPW permit signed by GWA and submitted to DPW
				Const. Mgmt	6	11/15/2018	12/31/2019	$ 702,678.13	EMPSCO	No CM activities until contractors on board.
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	6	8/19/2016	3/30/2018 (completion date under analysis)	$ 6,158,240.67	Pacific Rim	· Main issues remaining: · VFD for D-18 was installed on 10/4/2018 and configured by USSI D-17 now scheduled for Monday. Capacity increased by nearly 100 gpm. · Flow rate testing was done by APDI at D-22. According to the CM, flow testing still confirmed that there is a pumping issue down the well - PRC needs to pull the pump to investigate. APDI is disputing this. APDI sent some of their data and it's better, but does not seem to be fully corrected. Will continue to push for a resolution here. · Well rig test failure still an issue; Vince is coordinating to get a new test completed. · Volume 1 of the O&M Manuals was submitted on 9/25. Draft of sections of volume 2 were sent to BC on 10/1. BC will review and comment as necessary to assist with getting this completed. · USSI is supposed to complete the harmonics testing and final VFD programming when the new/relocated drives are installed.
				Const. Mgmt	7	3/22/2016	3/30/2018 (completion date under analysis)	$ 1,041,722.56	EA	• CM continuing to coordinate punch list items with contractor.

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	7	8/2/2016	Due to issue related to Santa Rita sewer project completion under analysis.	$ 1,189,815.00	ProPacific	· Lift/Pump Station Proposal was submitted to BC on 8/31/2018. · BC response given on 9/13/2018 - with no agreement to proceed. · GWA opposed to any proposal for LS that includes additional cost to GWA. § GWA may be amenable to waiving LDs · As of March 15, LDs amounted to $257,000 § PPBC stated, "we will finish the project with the remaining funds provided that all LD will be waved and some of the specifications will be revised to accommodate the remaining funds." (per 10/04/2018 email) · PPBC on notice since 12/01/2017 (via formal GWA letter) that continuing delays are unacceptable and grounds for potential default. · Baza Gardens: · All laterals are "reinstated" · Contractor to conduct final CCTV for inspection of work · Talofofo: Final Inspection held on 5/25 -- all defects were corrected and work is complete.
				Const. Mgmt	8	7/29/2016	5/28/2017	$ 347,945.93	EMPSCO	· PM to work on Change Order to extend contract and amount.
15	Tamuning Sewer Hot Spots	Sewer rehabilitation for lines at Winner Apartments, Segund Leon Guerrero, and behind Guam Premium Outlets.	Brown & Caldwell	Design	10	9/9/2016	10/31/2017 (for design only)	$ 663,629.00	TG Engineers	· TGE to provide engineering services during bid process.
				Construction		12/1/2018	12/31/2019			Procurement 55%; GWA received proposed bid "repackage" and is under review. This project will be "transitioned" from the PMO to GWA engineering thus
				Const. Mgmt		12/1/2018	12/31/2019			Procurement 90%: Scope and fee negotiations with AMOrient still on-going.
16	Talofofo Sewer Pump Stations (4 stations)	Design and construction of 4 sewer lift stations in the Talofofo village where sewer lines are installed but never completed.	J. Davis	Design (for Talofofo and Chalan Pago PS)	11	8/17/2016	11/30/2017	$ 493,818.86	EMPSCO	Talafofo Pump Station design /bid package received. Final Design of Chalan Pago Pump Station project under review by GWA. Change Order related to snails to be executed.
				Construction		12/1/2018	12/31/2019			Procurement 95%; CCU approved resolution. GWA awaing insurance ad bond docuemnts form contractor.
				Const. Mgmt		12/1/2018	12/31/2019			GWA Engineering will management construction management tasks.
17	Chalan Pago Sewer Pump Station	Design and construction of sewer lift stations and gravity lines in Scott Laguana, Santa Cruz Street Chalan Pago.	J. Davis	Design		8/17/2016	11/30/2017	*The design will be included with the Talofofo Pump Station design project.*		
				Construction		3/15/2019	3/30/2020			
				Const. Mgmt		3/15/2019	3/30/2020			

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		3/15/2019	3/30/2020			Funding for construction project to be from FY18 grant that is still pending.
				Const. Mgmt		3/15/2019	3/30/2020			Funding for construction manager to be from FY18 grant that is still pending.
19	Macheche Hill Sewer Rehabilitation/ Replacement	Rehabilitation of sewer lines on Macheche road. Segments of this sewer line has collapsed recently and is consider a high priority.	J. Davis	Design-Build	3	8/29/2016	3/30/2018	$ 2,202,545.47	Giant Const.	Construction project complete.
				Const. Mgmt	9	9/16/2016	3/30/2018	$ 379,994.38	Am Orient	CM work complete.
20	Asan-Adelup-Hagatna Rt. 1 Sewer Line Rehabilitation and Replacement Emergency Repairs	Rehabilitation of sewer line in Asan that collapsed and which is current fitted with a temporary pumping system.	Brown & Caldwell	Design				Design cost covered under Project 3 above.		
				Construction	8	3/8/2017	12/30/2017	$ 2,470,658.00	Pacific Rim	· Record drawings: HDR received final as-builts; packaging them up with other documents now. · Final invoice received (10/10). DPW has not accepted guiderail restoration.
				Const. Mgmt	10	1/24/2017	12/30/2017	covered under Project 3	HDR	CM work complete.
21	Valve Maintenance Equipment Trailer (2 each)	Acquire two sets of valve exercise equipment mounted on trailers to be used to exercise existing valves in the distribution system as a means of maintaining the valves functionality so the valves to not "freeze up" and required replacement	Grants/Operations	Equipment	1			$ 167,814.94		Complete
22	Heavy Duty Trucks to Haul Valve Maintenance Equipment Trailer (2 each)	Acquire two heavy duty trucks with extended to pull the valve exercise equipment trailer	Grants/Operations	Equipment	2			$ 139,790.00	Triple J	Complete
23	Project Advertisement	Each IFB or RFP requires advertising	Engineering/ Procurement	MISC	1			$ 25,172.50	PDN/Post	On-going

GUAM WATERWORKS AUTHORITY
SEPTEMBER 30, 2018
FINANCIAL AND RELATED REPORTS
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GUAM WATERWORKS AUTHORITY
Balance Sheet
September 30, 2018

SCHEDULE A

ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	Unaudited September 30, 2018	Audited September 30, 2017	Increase (Decrease)
Current Assets:			
Cash:			
Unrestricted (Schedule G)	3,129,619	4,873,275	(1,743,656)
Restricted Funds (Schedule G)	66,780,407	65,124,400	1,656,007
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of $4,669,462 at Sep 30, 2018 and $12,619,034 at Sep 30, 2017	17,308,603	15,450,733	1,857,870
Other Receivable	5,187,985	8,433,446	(3,245,461)
Materials & Supplies Inventory, Net of Allowance for Obsolescence of $457,370 at Sep 30, 2018 and Sep 30, 2017	2,949,318	2,166,557	782,761
Total Current Assets	95,355,932	96,048,411	(692,479)
Property, Plant and Equipment			
Utility plant in service:			
Water system	350,474,149	327,484,191	22,989,957
Wastewater system	299,555,786	286,394,940	13,160,846
Non-utility property	16,735,320	18,938,255	(2,202,935)
Total property	666,765,254	632,817,387	33,947,868
Less Accumulated Depreciation	(301,409,253)	(286,043,580)	(15,365,673)
Land	3,681,120	1,110,998	2,570,123
Construction Work in Progress	173,368,111	111,695,887	61,672,224
Property, Plant and Equipment, net	542,405,232	459,580,691	82,824,541
Other noncurrent assets			
Restricted cash (Schedule G)	177,176,880	236,550,002	(59,373,122)
Investments (Schedule G)	43,097,913	41,042,038	2,055,874
Other Prepaid Expenses	630,074	551,128	78,946
Total other noncurrent assets	220,904,867	278,143,169	(57,238,302)
Total Assets	858,666,032	833,772,271	24,893,761
Deferred outflows of resources:			
Debt defeasance due to bond refunding	13,405,986	1,695,981	11,710,005
Deferred outflows from pension	4,939,650	4,943,777	(4,127)
Total Assets and Deferred Outflows of Resources	**877,011,668**	**840,412,029**	**36,599,639**
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET ASSETS			
Current Liabilities:			
Current maturities of long-term debt			
-Series 2010 Bond	1,800,000	1,725,000	75,000
-Series 2014 Refunding	3,620,000	3,475,000	145,000
-Series 2017 Refunding	295,000	-	295,000
-Notes Payable	3,145,406	3,037,569	107,837
Accounts Payable -Trade	5,509,047	5,390,256	118,791
Interest Payable	6,427,669	6,656,499	(228,831)
Accrued Payroll and Employee Benefits	1,918,786	2,604,471	(685,685)
Accrued Annual Leave	1,059,161	1,729,291	(670,130)
Current portion of employee annual leave	604,009	567,057	36,952
Contractors' Payable	23,593,602	13,950,287	9,643,315
Customer and Other Deposits	2,004,021	2,014,435	(10,414)
Other Liabilities	72,817	72,772	45
Total Current Liabilities	50,049,518	41,222,638	8,826,880
Long Term Debt, less current maturities			
Series 2010 Revenue Bond	1,895,000	112,800,000	(110,905,000)
Series 2013 Revenue Bond	172,630,000	172,630,000	-
Series 2014 Refunding Bond	68,900,000	72,520,000	(3,620,000)
Series 2016 Revenue Bond	143,310,000	143,310,000	-
Series 2017 Refunding Bond	107,365,000	-	107,365,000
Unamortized Discount - Bond 2010	-	(1,867,525)	1,867,525
Unamortized Discount - Bond 2013	(1,287,652)	(1,338,751)	51,099
Unamortized Premium - Bond 2014	4,538,080	4,804,694	(266,613)
Unamortized Premium - Bond 2016	16,655,480	17,262,975	(607,495)
Unamortized Premium - Bond 2017	13,394,709	-	13,394,709
Notes Payable	2,383,618	5,533,918	(3,150,300)
Unfunded Ret Liability (GASB 67/68)	49,243,798	49,243,798	-
Employee Annual Leave, Less Current Portion	826,194	783,992	42,202
Total Liabilities	629,903,746	616,905,739	12,998,007
Deferred inflows of resources:			
Deferred inflows from pension	169,283	564,514	(395,231)
Total Liabilities and Deferred Inflows of Resources	630,073,030	617,470,253	12,602,777
Net Assets	246,938,638	222,941,776	23,996,862
Total Liabilities, Deferred Inflows of Resources and Net Assets	**877,011,668**	**840,412,029**	**36,599,639**

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

	Month to Date		Variance
	Budget September-18	Actual (Unaudited) September-18	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,743,160	6,862,796	1,119,636
Wastewater Revenues	3,228,257	3,036,655	(191,603)
Legislative Surcharge	291,896	402,572	110,676
Other Revenues	57,638	41,613	(16,025)
System Development Charge	46,136	40,214	(5,922)
Total Operating Revenues	9,367,087	10,383,850	1,016,763
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	591,113	562,522	28,592
Power Purchases	1,137,997	1,137,732	265
Total Utility Costs	1,729,110	1,700,254	28,856
Salaries and Wages	1,625,056	1,267,873	357,183
Pension and Benefits	584,558	397,748	186,810
Total Salaries and Benefits	2,209,614	1,665,622	543,993
Capitalized Labor and Benefits	(208,333)	(208,333)	(0)
Net Salaries and Benefits	2,001,281	1,457,289	543,992
Administrative and General Expenses			
Sludge removal	101,514	99,178	2,336
Chemicals	144,997	142,844	2,153
Materials & Supplies	337,900	488,589	(150,690)
Transportation	162,370	159,789	2,581
Communications	16,182	13,111	3,071
Claims	21,100	17,417	3,683
Insurance	79,757	78,858	898
Training & Travel	46,814	45,412	1,403
Advertising	43,910	41,497	2,413
Miscellaneous	85,515	84,253	1,262
Regulatory Expense	25,086	24,540	547
Bad Debts Provision	57,103	109,693	(52,591)
Total Administrative and General Expense	1,122,248	1,305,180	(182,932)
Depreciation Expense	1,528,175	1,528,175	(0)
Contractual Expense			
Audit & Computer Maint.	108,630	105,344	3,286
Building rental	37,955	36,262	1,693
Equipment rental	57,375	91,142	(33,767)
Legal	4,167	600	3,567
Laboratory	34,752	33,119	1,632
Other	130,363	287,165	(156,802)
Total Contractual Expense	373,241	553,632	(180,390)
Retiree Supp. Annuities and health care costs	240,008	241,153	(1,145)
Contribution to Government of Guam	49,500	49,833	(333)
Total Retiree Benefits	289,508	290,986	(1,478)
Total Operating Expenses	7,043,563	6,835,516	208,047
Earnings (Loss) from Operations	2,323,524	3,548,334	1,224,810
Interest Income-2010/13/14/16/17 Series Bond	15,727	601,430	585,703
Interest Income-Other Funds	2,935	117,897	114,962
Interest Income-SDC	2,414	19,644	17,230
Interest Expense- 2010/13/14/16/17 Series Bond	(2,625,587)	(2,137,785)	487,803
Interest Expense- ST BOG	(33,288)	(43,437)	(10,149)
Federal Expenditures	(51,332)	(58,177)	(6,845)
Loss on Asset Disposal	-	(721,784)	(721,784)
AFUDC	625,000	625,000	-
Amortization of Discount, Premium and Issuance Costs	(61,861)	(77,542)	(15,681)
Defeasance due to bond refunding	(15,218)	(12,444)	2,775
Deferred outflows from pension	(105,281)	32,592	137,873
Prior Year Adjustment	-	-	-
Total non-operating revenues (expenses)	(2,246,492)	(1,654,606)	591,886
Net Income (Loss) before capital contributions	77,032	1,893,728	1,816,696
Capital Contributions			
Grants from US Government	873,108	1,905,326	1,032,218
Grants from GovGuam & Others	-	-	-
Other Contributions	-	-	-
Total Capital Contributions	873,108	1,905,326	1,032,218
Change in Net Assets	950,140	3,799,055	2,848,914
Debt Service Calculation			
Earnings From Operations	2,323,524	3,548,334	
System Development Charge	(46,136)	(40,214)	
Retiree COLA	49,500	49,833	
Interest/Investment Income	2,935	117,897	
Depreciation	1,528,175	1,528,175	
Balance Available for Debt Service per Section 6.12	3,857,998	5,204,025	
Working Capital Reserve Available for Debt Service	932,265	935,321	
Transfer to Working Capital- Debt Service Reserve	(150,000)	-	
Transfer to Working Capital- O&M Reserve	(266,667)	-	
Balance Available for Debt Service inclusive of reserves	4,373,596	6,139,346	
Debt Service			
Principal	433,333	433,333	
Interest	2,063,402	1,794,910	
Total	2,496,736	2,228,243	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.55	2.34	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.75	2.76	

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

SCHEDULE C

	Month to Date		Variance
	Actual (Unaudited) September-18	Actual (Audited) September-17	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	6,862,796	5,331,404	1,531,392
Wastewater Revenues	3,036,655	3,099,528	(62,873)
Legislative Surcharge	402,572	267,269	135,303
Other Revenues	41,613	36,293	5,321
System Development Charge	40,214	72,662	(32,448)
Total Operating Revenues	10,383,850	8,807,155	1,576,695
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	562,522	609,094	46,572
Power Purchases	1,137,732	1,006,355	(131,377)
Total Utility Costs	1,700,254	1,615,449	(84,805)
Salaries and Wages	1,267,873	1,413,608	145,735
Pension and Benefits	397,748	490,400	92,652
Total Salaries and Benefits	1,665,622	1,904,009	238,387
Capitalized Labor and Benefits	(208,333)	(262,516)	(54,183)
Net Salaries and Benefits	1,457,289	1,641,493	184,204
Administrative and General Expenses			
Sludge removal	99,178	140,487	41,309
Chemicals	142,844	174,001	31,157
Materials & Supplies	488,589	128,788	(359,802)
Transportation	159,789	53,744	(106,045)
Communications	13,111	10,884	(2,227)
Claims	17,417	22,151	4,734
Insurance	78,858	90,603	11,744
Training & Travel	45,412	23,055	(22,357)
Advertising	41,497	8,988	(32,509)
Miscellaneous	84,253	71,997	(12,257)
Regulatory Expense	24,540	24,134	(405)
Bad Debts Provision	109,693	109,700	6
Total Administrative and General Expense	1,305,180	858,530	(446,650)
Depreciation Expense	1,528,175	1,402,038	(126,137)
Contractual Expense			
Audit & Computer Maint.	105,344	76,901	(28,443)
Building rental	36,262	36,557	295
Equipment rental	91,142	59,374	(31,768)
Legal	600	414	(186)
Laboratory	33,119	10,627	(22,493)
Other	287,165	156,747	(130,418)
Total Contractual Expense	553,632	340,619	(213,013)
Retiree Supp. Annuities and health care costs	241,153	231,895	(9,258)
Contribution to Government of Guam	49,833	49,500	(333)
Total Retiree Benefits	290,986	281,395	(9,591)
Total Operating Expenses	6,835,516	6,139,525	(695,991)
Earnings (Loss) from Operations	3,548,334	2,667,630	880,704
Interest Income-2010/13/14/16/17 Series Bond	601,430	65,354	536,075
Interest Income-Other Funds	117,897	10,032	107,865
Interest Income-SDC	19,644	1,060	18,585
Interest Expense- 2010/13/14/16/17 Series Bond	(2,137,785)	(2,220,744)	82,959
Interest Expense- ST BOG	(43,437)	(43,736)	299
Federal Expenditures	(58,177)	(42,501)	(15,676)
Loss on Asset Disposal	(721,784)	(81,105)	(640,679)
AFUDC	625,000	1,172,241	(547,241)
Amortization of Discount, Premium and Issuance Costs	(77,542)	61,861	(139,403)
Defeasance due to bond refunding	(12,444)	(15,218)	2,775
Deferred outflows from pension	32,592	-	32,592
Prior Year Adjustment	-	(26,756)	26,756
Total non-operating revenues (expenses)	(1,654,606)	(1,119,512)	(535,093)
Net Income (Loss) before capital contributions	1,893,728	1,548,118	345,611
Capital Contributions			
Grants from US Government	1,905,326	1,815,921	89,405
Grants from GovGuam & Others	-	1,664	(1,664)
Other Contributions	-	-	-
Total Capital Contributions	1,905,326	1,817,586	87,741
Change in Net Assets	3,799,055	3,365,704	433,351
Debt Service Calculation			
Earnings From Operations	3,548,334	2,667,630	
System Development Charge	(40,214)	(72,662)	
Retiree COLA	49,833	49,500	
Interest/Investment Income	117,897	10,032	
Depreciation	1,528,175	1,402,038	
Balance Available for Debt Service per Section 6.12	5,204,025	4,056,538	
Working Capital Reserve Available for Debt Service	935,321	932,134	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	6,139,346	4,988,672	
Debt Service			
Principal	433,333	420,000	
Interest	1,794,910	1,626,858	
Total	2,228,243	2,046,858	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	2.34	1.98	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	2.76	2.44	

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

	Budget September-18	Year to Date Actual (Unaudited) September-18	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	68,917,921	66,298,109	(2,619,811)
Wastewater Revenues	38,739,088	38,307,618	(431,470)
Legislative Surcharge	3,502,752	3,474,549	(28,203)
Other Revenues	691,656	449,591	(242,065)
System Development Charge	553,630	1,062,957	509,328
Total Operating Revenues	112,405,047	109,592,824	(2,812,222)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	8,688,358	8,684,974	3,384
Power Purchases	14,690,963	14,686,486	4,476
Total Utility Costs	23,379,320	23,371,460	7,860
Salaries and Wages	19,500,671	17,793,914	1,706,757
Pension and Benefits	7,014,699	5,991,836	1,022,863
Total Salaries and Benefits	26,515,371	23,785,750	2,729,621
Capitalized Labor and Benefits	(2,500,000)	(2,614,279)	114,279
Net Salaries and Benefits	24,015,371	21,171,471	2,843,900
Administrative and General Expenses			
Sludge removal	1,509,168	1,500,404	8,764
Chemicals	2,159,962	2,146,237	13,725
Materials & Supplies	2,164,797	2,128,666	36,131
Transportation	768,445	768,010	435
Communications	194,183	176,986	17,197
Claims	133,200	128,561	4,639
Insurance	917,079	912,061	5,018
Training & Travel	246,770	184,581	62,189
Advertising	166,921	166,085	835
Miscellaneous	1,016,185	1,014,528	1,657
Regulatory Expense	265,036	258,254	6,782
Bad Debts Provision	685,231	1,316,335	(631,104)
Total Administrative and General Expense	10,226,977	10,700,708	(473,731)
Depreciation Expense	18,338,096	18,338,100	(4)
Contractual Expense			
Audit & Computer Maint.	723,564	712,264	11,300
Building rental	455,460	439,236	16,224
Equipment rental	1,008,495	1,004,040	4,455
Legal	50,000	7,200	42,800
Laboratory	457,019	414,346	42,673
Other	2,394,357	2,391,195	3,162
Total Contractual Expense	5,088,895	4,968,280	120,615
Retiree Supp. Annuities and health care costs	2,880,100	2,849,544	30,556
Contribution to Government of Guam	594,000	598,000	(4,000)
Total Retiree Benefits	3,474,100	3,447,544	26,556
Total Operating Expenses	84,522,759	81,997,564	2,525,195
Earnings (Loss) from Operations	27,882,288	27,595,261	(287,027)
Interest Income-2010/13/14/16/17 Series Bond	188,719	3,064,490	2,875,771
Interest Income-Other Funds	35,217	547,738	512,521
Interest Income-SDC	28,971	100,560	71,589
Interest Expense- 2010/13/14/16/17 Series Bond	(31,507,047)	(26,129,613)	5,377,434
Interest Expense- ST BOG	(399,458)	(368,427)	31,032
Federal Expenditures	(615,986)	(746,644)	(130,658)
Loss on Asset Disposal	-	(2,523,378)	(2,523,378)
AFUDC	7,500,000	7,500,000	-
Amortization of Discount, Premium and Issuance Costs	(742,330)	(512,295)	230,035
Defeasance due to bond refunding	(182,621)	(149,323)	33,298
Deferred outflows from pension	(1,263,367)	391,104	1,654,471
Prior Year Adjustment	-	18,684	18,684
Total non-operating revenues (expenses)	(26,957,902)	(18,807,104)	8,150,798
Net Income (Loss) before capital contributions	924,386	8,788,157	7,863,771
Capital Contributions			
Grants from US Government	10,477,298	14,936,539	4,459,241
Grants from GovGuam & Others	-	272,166	272,166
Other Contributions	-	-	-
Total Capital Contributions	10,477,298	15,208,705	4,731,407
Change in Net Assets	11,401,684	23,996,862	12,595,178
Debt Service Calculation			
Earnings From Operations	27,882,288	27,595,261	
System Development Charge	(553,630)	(1,062,957)	
Retiree COLA	594,000	598,000	
Interest/Investment Income	35,217	547,738	
Depreciation	18,338,096	18,338,100	
Balance Available for Debt Service per Section 6.12	46,295,971	46,016,141	
Working Capital Reserve Available for Debt Service	11,187,181	11,185,610	
Transfer to Working Capital- Debt Service Reserve	(1,800,000)	-	
Transfer to Working Capital- O&M Reserve	(3,200,000)	-	
Balance Available for Debt Service inclusive of reserves	52,483,151	57,201,751	
Debt Service			
Principal	5,200,000	5,200,000	
Interest	24,760,826	21,538,920	
Total	29,960,826	26,738,920	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.55	1.72	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.75	2.14	

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

SCHEDULE E

	Year to Date ACTUAL (Unaudited) September-18	Year to Date ACTUAL (Audited) September-17	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	66,298,109	63,976,842	2,321,267
Wastewater Revenues	38,307,618	37,194,332	1,113,286
Legislative Surcharge	3,474,549	3,207,226	267,323
Other Revenues	449,591	435,514	14,076
System Development Charge	1,062,957	871,946	191,011
Total Operating Revenues	109,592,824	105,685,861	3,906,963
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	8,684,974	7,309,125	(1,375,849)
Power Purchases	14,686,486	12,076,262	(2,610,224)
Total Utility Costs	23,371,460	19,385,387	(3,986,073)
Salaries and Wages	17,793,914	16,963,302	(830,612)
Pension and Benefits	5,991,836	5,884,804	(107,032)
Total Salaries and Benefits	23,785,750	22,848,106	(937,644)
Capitalized Labor and Benefits	(2,614,279)	(3,150,189)	(535,910)
Net Salaries and Benefits	21,171,471	19,697,917	(1,473,554)
Administrative and General Expenses			
Sludge removal	1,500,404	1,685,842	185,438
Chemicals	2,146,237	2,088,013	(58,224)
Materials & Supplies	2,128,666	1,545,452	(583,214)
Transportation	768,010	644,933	(123,078)
Communications	176,986	130,606	(46,380)
Claims	128,561	265,812	137,252
Insurance	912,061	1,087,233	175,172
Training & Travel	184,581	276,654	92,073
Advertising	166,085	107,853	(58,232)
Miscellaneous	1,014,528	863,959	(150,570)
Regulatory Expense	258,254	289,613	31,359
Bad Debts Provision	1,316,335	1,316,397	62
Total Administrative and General Expense	10,700,708	10,302,365	(398,343)
Depreciation Expense	18,338,100	16,824,455	(1,513,645)
Contractual Expense			
Audit & Computer Maint.	712,264	922,812	210,548
Building rental	439,236	438,678	(558)
Equipment rental	1,004,040	712,487	(291,553)
Legal	7,200	4,969	(2,231)
Laboratory	414,346	127,518	(286,828)
Other	2,391,195	1,880,966	(510,229)
Total Contractual Expense	4,968,280	4,087,429	(880,851)
Retiree Supp. Annuities and health care costs	2,849,544	2,782,745	(66,799)
Contribution to Government of Guam	598,000	594,000	(4,000)
Total Retiree Benefits	3,447,544	3,376,745	(70,799)
Total Operating Expenses	81,997,564	73,674,298	(8,323,266)
Earnings (Loss) from Operations	27,595,261	32,011,564	(4,416,303)
Interest Income-2010/13/14/16/17 Series Bond	3,064,490	784,252	2,280,238
Interest Income-Other Funds	547,738	120,382	427,356
Interest Income-SDC	100,560	12,717	87,843
Interest Expense- 2010/13/14/16/17 Series Bond	(26,129,613)	(26,648,925)	519,312
Interest Expense- ST BOG	(368,427)	(524,835)	156,408
Federal Expenditures	(746,644)	(510,017)	(236,627)
Loss on Asset Disposal	(2,523,378)	(973,255)	(1,550,123)
AFUDC	7,500,000	14,066,891	(6,566,891)
Amortization of Discount, Premium and Issuance Costs	(512,295)	742,328	(1,254,623)
Defeasance due to bond refunding	(149,323)	(182,621)	33,298
Deferred outflows from pension	391,104	-	391,104
Prior Year Adjustment	18,684	(321,068)	339,752
Total non-operating revenues (expenses)	(18,807,104)	(13,434,150)	(5,372,954)
Net Income (Loss) before capital contributions	8,788,157	18,577,414	(9,789,257)
Capital Contributions			
Grants from US Government	14,936,539	21,791,058	(6,854,518)
Grants from GovGuam & Others	272,166	19,972	252,194
Other Contributions	-	-	-
Total Capital Contributions	15,208,705	21,811,030	(6,602,325)
Change in Net Assets	23,996,862	40,388,444	(16,391,582)
Debt Service Calculation			
Earnings From Operations	27,595,261	32,011,564	
System Development Charge	(1,062,957)	(871,946)	
Retiree COLA	598,000	594,000	
Interest/Investment Income	547,738	120,382	
Depreciation	18,338,100	16,824,455	
Balance Available for Debt Service per Section 6.12	46,016,141	48,678,454	
Working Capital Reserve Available for Debt Service	11,185,610	11,185,610	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	57,201,751	59,864,064	
Debt Service			
Principal	5,200,000	5,040,000	
Interest	21,538,920	19,522,301	
Total	26,738,920	24,562,301	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.72	1.98	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	2.14	2.44	

SCHEDULE F
As of 9/30/18

Bond Compliance		**($$$)**	**($$$)**
		Per Indenture	**Bond 2010/2013/2014/2016/2017**
• Operation and Maintenance Fund-BOG	*Equivalent to 55 days of the annual O&M budget less depreciation*	$10.5M	$10.5M
• Bond Reserve Fund - US Bank	*Fully funded- Principal and Interest (Bond Series 2010, 2013, 2014 Refunding, 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 September 30, 2018	Audited September 30, 2017	Increase (Decrease)
Unrestricted			
Change Fund	2,000	2,000	-
Petty Cash	5,000	5,000	-
BOG - Deposit Accounts	3,122,619	4,866,275	(1,743,656)
Sub-total Unrestricted	3,129,619	4,873,275	(1,743,656)
Restricted			
Collection Accounts	207,896	163,466	44,430
BOG Deposit Accounts	7,425,712	6,051,064	1,374,649
BP Deposit Accounts	959,151	944,282	14,869
BOG Revenue Trust Fund	6,921,713	7,782,227	(860,514)
BOG O & M Reserve	13,666,109	13,516,540	149,569
BOG Debt Service Reserve	11,341,967	11,217,733	124,233
BOG CAPEX Fund	16,073,011	15,462,869	610,142
	56,595,559	55,138,182	1,457,377
BOG - SDC Deposit	2,934,848	1,486,219	1,448,630
BOG - SDC CDs	7,250,000	8,500,000	(1,250,000)
Total Restricted	66,780,407	65,124,400	1,656,007
Reserve Funds			
BOG Series 05 OMRRRF Fund	17,423,213	17,423,213	-
BOG Series 13 Construction Fund	36,222,062	74,461,765	(38,239,703)
BOG Series 14 Refunding Construction Fund	741,895	771,281	(29,386)
BOG Series 16 Construction Fund	116,036,000	132,811,449	(16,775,449)
BOG Series 16 Cap Int Fund	-	1,782,982	(1,782,982)
BOG Series 17 Refunding Construction Fund	6,753,709	9,299,311	(2,545,602)
BOG Series 17 Refunding COI Fund	-	-	-
Total Restricted - Held by Trustee	177,176,880	236,550,002	(59,373,122)
USB Series 2013 Debt Service Fund	2,360,451	2,336,754	23,697
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Fund	1,833,235	1,796,559	36,677
USB Series 2014 Refunding Debt Service Reserve Fund	7,972,243	7,707,602	264,641
USB Series 2016 Debt Service Fund	1,805,556	130	1,805,426
USB Series 2016 Debt Service Reserve Fund	7,594,603	7,582,725	11,878
USB Series 2010 Debt Service Fund	503,751	2,020,121	(1,516,370)
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	1,429,927	-	1,429,927
Total Investments	43,097,913	41,042,038	2,055,874
Total Restricted and Unrestricted Cash	290,184,819	347,589,716	(57,404,897)

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

	YTD Sep-18
Increase (decrease) in cash	
Cash flows from operating activities:	
Cash received from trade and others	106,448,888
Cash payments to suppliers/contractors for goods and services	(38,467,029)
Cash payments to employees for services	(26,362,928)
Net cash provided by operating activities	41,618,931
Cash flows from capital and related financing activities:	
Contributed capital received (grants)	17,666,884
Acquisition of utility plant	(84,019,325)
Repayment of Long Term Debt	7,794,224
Interest expense	(30,021,163)
Net cash provided by (used in) capital and related financing activities	(88,579,381)
Cash flows from investing activities:	
Transfers from (to) restricted fund	41,504,006
Interest income received	3,712,788
Net cash provided by investing activities	45,216,794
Net increase (decrease) in cash	(1,743,656)
Unrestricted cash at beginning of the period	4,873,275
Unrestricted cash at end of period	3,129,619
Reconciliation of operating loss to net cash provided by operating activities:	
Operating Income (loss)	27,595,261
Adjustments to reconcile to net cash provided by operating activities:	
Depreciation expense	18,338,100
Other Expense/income	925,231
(Increase) decrease in assets:	
Accounts receivable	(3,133,567)
Materials and supplies inventory	(782,761)
Other Assets	(78,946)
Increase (decrease) in liabilities:	
Accounts payable, Contractors, Retention & Escrow Deposit	118,791
Accrued payroll	(1,352,809)
Customer deposits	(10,369)
Net cash provided by operating activities	41,618,931

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

SCHEDULE I

A G I N G

Customer Name	No of Accounts	Current	31-60 days	61-90 days	91-120 days	Over 120 days	Outstanding Bal.
Guam Int'l Airport Authority	8	$ 29,676	$ 29,935	$ 31,837	$ 42,020	$ 170,878	$ 304,347
Guam Memorial Hospital Authority	3	39,613	32,380	34,972	-	-	106,964
Port Authority of Guam	5	49,069	32,714	-	-	-	81,783
Guam Power Authority	25	35,658	-	-	-	-	35,658
University of Guam	44	9,177	-	-	-	-	9,177
Guam Community College	3	9,114	-	-	-	-	9,114
Guam Housing & Urban Renewal Authority	9	6,974	-	-	-	-	6,974
Guam Housing Corporation	1	32	-	-	-	-	32
AUTONOMOUS AGENCIES	**98**	**$ 179,313**	**$ 95,028**	**$ 66,809**	**$ 42,020**	**$ 170,878**	**$ 554,049**
Department of Parks & Recreation	18	$ 139,495	$ 92,223	$ 89,323	$ 56,214	$ 509,256	886,512
Department of Education	53	232,247	179,600	131,885	55,228	131,567	730,527
Department of Corrections	8	168,152	41,427	32,232	35,483	64,066	341,361
Department of Public Health & Social Services	8	10,051	3,772	684	1,376	100,210	116,093
Mayors Council of Guam	60	17,805	1,156	24	57	-	19,042
Guam Fire Department	11	7,383	6,354	1,865	66	-	15,667
Department of Public Works	11	13,812	1,578	-	-	-	15,389
Department of Agriculture	7	2,294	1,837	1,400	-	-	5,532
Office of The Governor	2	5,039	-	-	-	-	5,039
Guam Police Department	7	4,671	-	-	-	-	4,671
Sanctuary Inc	1	3,471	-	-	-	-	3,471
Guam Solid Waste Authority	2	2,870	-	-	-	-	2,870
Department of Military Affairs/GUARNG	1	1,996	-	-	-	-	1,996
Guam Visitors Bureau	1	1,334	-	-	-	-	1,334
Department of Youth Affairs	4	23	1,068	-	-	-	1,092
New Guam Mental Health	1	832	-	-	-	-	832
Guam Public Library	6	192	532	-	-	-	724
Division of Senior Citizens, DPH&SS	2	361	193	157	-	-	711
Department of Administration	2	670	-	-	-	-	670
Department of Mental Health	2	558	-	-	-	-	558
Department of Chamorro Affairs	7	486	-	-	-	-	486
Guam Veterans Affairs Office	2	349	-	-	-	-	349
The Office of the Dededo Mayor	1	131	-	-	-	-	131
Federal Aviation Administration	2	122	-	-	-	-	122
Merizo Mayor	1	56	27	34	-	-	117
National Park Service	1	107	-	-	-	-	107
Guam Energy Office	1	73	-	-	-	-	73
U S Postal Service	5	58	-	-	-	-	58
Vietnam Veterans of America	1	-	-	-	-	-	-
LINE AGENCIES	**228**	**$ 614,635**	**$ 329,769**	**$ 257,604**	**$ 148,423**	**$ 805,099**	**$ 2,155,531**
TOTAL September 30, 2018	**326**	**$ 793,948**	**$ 424,797**	**$ 324,413**	**$ 190,444**	**$ 975,977**	**$ 2,709,580**
TOTAL September 30, 2017	**253**	**$ 715,578**	**$ 442,522**	**$ 169,120**	**$ 72,476**	**$ 396,347**	**$ 1,796,043**
% INCREASE/ (DECREASE)	**29%**	**11%**	**-4%**	**92%**	**163%**	**146%**	**51%**

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

SCHEDULE J

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 09/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 09/30/18
Santa Rita Springs Booster Pump Rehab Phase II	$ 100,000	$ 100,000	100,000	-	$ 100,000	$ -	$ -
"A" Series Well Transmission Line	$ 400,000	$ 369,846	369,846	(0)	$ 369,846	$ 0	$ 0
Water Booster Pump Station	$ 6,000,000	$ 1,679,964	1,656,428	10,687	$ 1,667,115	$ 12,849	$ 23,536
Meter Replacement Program		$ 996,532	996,532	-	$ 996,532	$ (0)	$ (0)
Barrigada Tank Repair/Replacement	$ 6,000,000	$ 4,987,000	4,924,959	16,000	$ 4,940,959	$ 46,041	$ 62,041
Leak Detection	$ 100,000	$ 16,916	16,916	-	$ 16,916	$ (0)	$ (0)
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	$ -			$ -	$ -	$ -
Master Meters	$ 4,000,000	$ 712,060	531,188	180,872	$ 712,060	$ (0)	$ 180,872
Ugum Water Treatment Plant Intake	$ 1,000,000	$ 859,801	424,202	20,915	$ 445,117	$ 414,684	$ 435,599
Water Wells	$ 4,200,000	$ 3,030,029	2,214,198	16,412	$ 2,230,609	$ 799,420	$ 815,832
Water Distribution System	$ 12,000,000	$ 10,912,453	7,576,647	2,791,837	$ 10,368,484	$ 543,969	$ 3,335,806
Pressure Zone Realignment /	$ 1,000,000	$ 337,110	248,926	15,337	$ 264,263	$ 72,847	$ 88,184
Mechanical/Electrical Equipment	$ 430,000	$ 426,799	261,981	159,325	$ 421,306	$ 5,493	$ 164,818
Water Reservoir Internal/External	$ 800,000	$ -			$ -	$ -	$ -
Water System Reservoirs 2005 Improvements	$ 21,000,000	$ 13,878,000	11,744,016	2,133,984	$ 13,878,000	$ -	$ 2,133,984
Ugum Water Treatment Plant Reservoir	$ 7,000,000	$ -			$ -	$ -	$ -
Agana Heights & Chaot Tanks	$ 4,500,000	$ 1,330,287	241,753	1,088,534	$ 1,330,287	$ (0)	$ 1,088,534
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 13,500,000	$ 11,605,000	9,831,462	1,773,163	$ 11,604,625	$ 375	$ 1,773,538
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	$ 650,901	566,364	84,537	$ 650,901	$ 0	$ 84,537
Lift Station Upgrades	$ 5,000,000	$ 563,148	419,508	15,925	$ 435,433	$ 127,715	$ 143,640
Wastewater Collection System Repl/Rehab	$ 6,500,000	$ 660,313	504,884	103,168	$ 608,053	$ 52,260	$ 155,429
Baza Gardens STP Replacement		$ 9,656,874	2,688,166	6,938,514	$ 9,626,679	$ 30,195	$ 6,968,708
Facilities Plan/Design for Umatac-Merizo WWTP		$ 371,699	364,527	7,172	$ 371,699	$ (0)	$ 7,172
Agat/Santa Rita STP Replacement	$ 19,000,000	$ 67,200,000	50,698,953	16,185,855	$ 66,884,808	$ 315,192	$ 16,501,047
Agana WWTP Interim Measures		$ 673,000	625,213	47,787	$ 673,000	$ 0	$ 47,787
Umatac Merizo Replacement	$ 2,000,000	$ -			$ -	$ -	$ -
Wastewater Pump Station Electrical Upgrade	$ 620,000	$ 99,861	94,964	4,897	$ 99,861	$ -	$ 4,897
Electrical Upgrade - Water Wells	$ 1,500,000	$ 1,500,000	1,487,413	12,587	$ 1,500,000	$ 0	$ 12,587
Electrical Upgrade - Water Booster	$ 325,000	$ 4,000			$ -	$ 4,000	$ 4,000
Electrical Upgrade -Water Booster	$ 350,000	$ 977	977	-	$ 977	$ -	$ -
Electrical Upgrade - Other Water	$ 250,000	$ 60,700	60,700	-	$ 60,700	$ -	$ -
SCADA Improvements – Phase 3	$ 1,850,000	$ 722,359	460,592	261,767	$ 722,359	$ -	$ 261,767
SCADA Improvements – Phase 4	$ 500,000	$ -			$ -	$ -	$ -
Laboratory Modernization	$ 1,500,000	$ 1,171,465	1,163,037	7,785	$ 1,170,822	$ 643	$ 8,428
Land Survey	$ 2,000,000	$ 1,052	1,038	15	$ 1,053	$ (1)	$ 15
General Plant Improvements / Water	$ 2,000,000	$ 2,441,737	1,730,609	6,001	$ 1,736,610	$ 705,127	$ 711,128
Allowance for COI							$ 275,005
Interest Earned							$ 879,186
Total Construction Fund	**$ 139,325,000**	**$ 139,329,000**	**$ 104,261,129**	**$ 31,937,064**	**$ 136,198,192**	**$ 3,130,808**	**$ 36,222,062**

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

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

SCHEDULE K

PROJECT NAME	ORIGINAL APPROVED PROJECT	ADJUSTED PROJECT COST	EXPENDITURES AS OF 09/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	20% PUC AS OF 09/30/18	Construction fund balance AS OF 09/30/18
Agana Treatment Plant	$ 10,475,000	$ 11,065,512	11,065,512	$ -	$ 11,065,512	$ (0)	$ 2,095,000	$ (0)
Agana Outfall	$ 5,030,000	$ 10,127,198	10,127,198	$ -	$ 10,127,198	$ 0	$ 1,006,000	$ 0
Northern District (Outfall)	$ 4,700,000	$ 10,251,423	10,251,423	$ -	$ 10,251,423	$ 0	$ 940,000	$ 0
Northern District WWTP Upgrade		$ 173,681	173,681		$ 173,681	$ -		$ -
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
Interest Earned	$ 6,781,612	$ (0)				$ (0)		$ 10,833
Total Construction Fund	**$ 89,711,698**	**$ 89,711,698**	**$ 88,981,263**	**$ 669,600**	**$ 89,711,543**	**$ 1**	**$ 13,990,813**	**$ 741,896**

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

SCHEDULE L

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 09/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 09/30/18
Water Booster Pump Station	$ 4,139,000	$ -			$ -	$ -	$ -
Meter Replacement Program	$ 4,501,000	$ 1,400,000	121,798	28,202.07	$ 150,000	$ 1,250,000	$ 1,278,202
Barrigada Tank Repair/Replacement	$ 1,013,000	$ -		-	$ -	$ -	$ -
Leak Detection	$ 1,180,000	$ 100,000		-	$ -	$ 100,000	$ 100,000
Potable Water System Planning	$ 2,276,000	$ 876,294	331,044	545,250.47	$ 876,294	$ -	$ 545,250
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	$ 2,151,539	151,539	-	$ 151,539	$ 2,000,000	$ 2,000,000
Ugum Water Treatment Plant Intake	$ 18,000	$ -			$ -	$ -	$ -
Water Wells	$ 2,500,000	$ 2,500,000			$ -	$ 2,500,000	$ 2,500,000
Water Distribution System	$ 2,049,000	$ -			$ -	$ -	$ -
Pressure Zone Realignment /	$ 1,141,000	$ 1,141,000		741,000.20	$ 741,000	$ 400,000	$ 1,141,000
Mechanical/Electrical Equipment	$ 100,000	$ -			$ -	$ -	$ -
Water Reservoir Internal/External	$ 800,000	$ 800,000		800,000.00	$ 800,000	$ -	$ 800,000
Water System Reservoirs 2005 Improvements	$ 42,350,000	$ 58,830,170	2,600,983	13,525,898.93	$ 16,126,882	$ 42,703,288	$ 56,229,187
Ugum Water Treatment Plant Reservoir	$ 6,410,000	$ -			$ -	$ -	$ -
Water Audit Program & Water Loss Control Plan	$ 1,000,000	$ 550,000		389,561.70	$ 389,562	$ 160,438	$ 550,000
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	$ 1,822,133		1,822,132.80	$ 1,822,133	$ 0	$ 1,822,133
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 10,500,000	$ 7,300,000		7,300,000.00	$ 7,300,000	$ -	$ 7,300,000
Fire Hydrant Replacement Program	$ 2,000,000	$ 1,200,000			$ -	$ 1,200,000	$ 1,200,000
Wastewater System Planning	$ 349,000	$ 312,983	224,921	88,062.03	$ 312,983	$ -	$ 88,062
Lift Station Upgrades	$ 2,404,000	$ 1,714,755	230,390	234,364.77	$ 464,755	$ 1,250,000	$ 1,484,365
Wastewater Collection System Repl/Rehab	$ 2,920,000	$ 1,055,478	1838.55	553,639.45	$ 555,478	$ 500,000	$ 1,053,639
Baza Gardens STP Replacement	$ 16,700,000	$ 22,663,776	13,185,417	9,478,358.21	$ 22,663,775	$ 1	$ 9,478,359
Facilities Plan/Design for Umatac-Merizo WWTP	$ 527,000	$ 252,105	239,065	13,040.11	$ 252,105	$ -	$ 13,040
Agat/Santa Rita STP Replacement	$ 3,000,000	$ 2,002,331	1,277,252	267,836.21	$ 1,545,088	$ 457,243	$ 725,079
Agana WWTP Interim Measures	$ 827,000	$ -			$ -	$ -	$ -
Umatac Merizo Replacement	$ 8,000,000	$ 20,800,000	4,759,557	15,957,418.69	$ 20,716,975	$ 83,025	$ 16,040,443
Wastewater Pump Station Electrical Upgrade	$ 100,000	$ -			$ -	$ -	$ -
Electrical Upgrade - Water Wells	$ 650,000	$ -			$ -	$ -	$ -
Electrical Upgrade - Water Booster	$ 323,000	$ -			$ -	$ -	$ -
SCADA Improvements – Phase 3	$ 1,177,000	$ 1,077,497	18,000	784,002.76	$ 802,003	$ 275,494	$ 1,059,497
SCADA Improvements – Phase 4	$ 6,500,000	$ 4,378,118		3,943,748.85	$ 3,943,749	$ 434,369	$ 4,378,118
Laboratory Modernization	$ 1,127,000	$ 1,127,000	1,127,000	-	$ 1,127,000	$ -	$ -
Land Survey	$ 1,998,000	$ 1,260,524	494,009	766,514.13	$ 1,260,524	$ 0	$ 766,515
General Plant Improvements / Water	$ 2,769,463	$ 1,543,760	716,554	780,392.44	$ 1,496,947	$ 46,813	$ 827,206
Information Technology Integration Improvements	$ 500,000	$ 500,000	244,068	-	$ 244,068	$ 255,932	$ 255,932
Interest Earned		$ -					$ 1,739,971
Total Construction Fund	**$ 140,019,463**	**$ 140,019,463**	**$ 25,723,435**	**$ 58,629,437**	**$ 84,352,872**	**$ 55,666,591**	**$ 116,036,000**

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

SCHEDULE M

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 09/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 09/30/18
Ground Water Disinfection	$ -	$ 500,000	$ 438,141	$ 61,859	$ 500,000	$ 0	$ 61,859
"A" Series Well Transmission Line	$ 600,000	$ 475,709	$ 474,434	$ 1,274	$ 475,709	$ 0	$ 1,275
Water Booster Pump Station	$ 500,000	$ 500,000	$ 418,844	$ 81,156	$ 500,000	$ (0)	$ 81,156
Meter Replacement Program	$ 2,500,000	$ 10,450,000	$ 10,255,079	$ 18,549	$ 10,273,628	$ 176,372	$ 194,921
Barrigada Tank Repair/Replacement	$ -	$ 5,450,000	$ 5,442,302	$ 7,698	$ 5,450,000	$ 0	$ 7,698
Leak Detection		$ 200,000	$ -	$ 200,000	$ 200,000	$ -	$ 200,000
Potable Water System Planning	$ 200,000	$ 200,000	$ 180,927	$ 19,073	$ 200,000	$ -	$ 19,073
Implement Ground Water Rule		$ 1,699,999	$ 1,499,464	$ 200,535	$ 1,700,000	$ (1)	$ 200,535
Brigade II (Ugum Lift) BPS Upgrade	$ 1,200,000	$ 1,900,000	$ 251,134	$ 117,330	$ 368,464	$ 1,531,536	$ 1,648,866
Deep Well Rehabilitation	$ 548,000	$ 548,000	$ 548,000	$ -	$ 548,000	$ -	$ -
New Deep Wells at Down Hard	$ 3,773,000	$ 485,743	$ 485,743	$ -	$ 485,743	$ 0	$ 0
Rehabilitation of Asan Springs	$ 900,000	$ 1,100,000	$ 188,771	$ 152,068	$ 340,838	$ 759,162	$ 911,229
Master Meters	$ 1,600,000	$ 1,489,957	$ 1,421,267	$ 68,690	$ 1,489,957	$ (0)	$ 68,690
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	$ 775,002	$ 730,182	$ 44,820	$ 775,002	$ (0)	$ 44,820
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	$ 2,150,000	$ 1,083,817	$ 425,567	$ 1,509,384	$ 640,616	$ 1,066,183
Water Reservoir Internal/External	$ 2,400,000	$ -	$ -		$ -	$ -	$ -
Water System Reservoirs 2005 Improvements	$ 11,697,000	$ 1,050,000	$ 1,050,000		$ 1,050,000	$ 0	$ 0
Distribution System Upgrades	$ 3,182,000	$ 474,160	$ 456,678	$ 17,481	$ 474,160	$ 0	$ 17,482
Ugum Water Treatment Plant Reservoir	$ 3,672,000	$ -	$ -		$ -	$ -	$ -
Water Audit Program & Water Loss Control Plan		$ 78,459	$ 15,031	$ 63,428	$ 78,459	$ 0	$ 63,429
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		$ 1,848,013	$ 1,765,504	$ 82,510	$ 1,848,013	$ (0)	$ 82,509
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	$ 1,474,000	$ 1,468,176	$ 5,824	$ 1,474,000	$ -	$ 5,824
Wastewater Vehicles	$ 235,000	$ 235,000	$ 209,795	$ 25,205	$ 235,000	$ 0	$ 25,205
NDWWTP - Chlorine Tanks	$ 250,000	$ 250,000	$ 250,000		$ 250,000	$ -	$ -
Tumon Bay Sewer Upgrades	$ 100,000	$ -	$ -		$ -	$ -	$ -
Wastewater Collection System Repl/Rehab		$ 1,001,323	$ 718,036	$ 283,287	$ 1,001,323	$ (0)	$ 283,287
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	$ 1,488,378	$ 1,157,502	$ 314	$ 1,157,816	$ 330,562	$ 330,876
Facilities Plan/Design for Umatac Merizo WWTP		$ 853,858	$ 760,845	$ 93,013	$ 853,858	$ 0	$ 93,013
Agat/Santa Rita STP Replacement	$ 2,968,000	$ 2,217,700	$ 2,217,314	$ 387	$ 2,217,701	$ (0)	$ 386
Northern District WWTP Primary Treatment Upgrades	$ -	$ 11,743,514	$ 11,532,253	$ 211,261	$ 11,743,514	$ 0	$ 211,261
Biosolids Management Plan		$ 200,000	$ 196,414	$ 3,586	$ 200,000	$ -	$ 3,586
Agana WWTP Interim Measures	$ -	$ 11,300,000	$ 11,254,925	$ 45,075	$ 11,300,000	$ -	$ 45,075
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	$ 948,250	$ 51,750	$ 1,000,000	$ -	$ 51,750
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	$ 499,688	$ 471,450	$ 28,237	$ 499,687	$ 1	$ 28,238
General Plant Improvements / Water	$ 14,370,000	$ 7,241,000	$ 7,241,000	$ 0	$ 7,241,000	$ 0	$ 0
Interest Earned							$ 151,836
Total Construction Fund	**$ 87,402,000**	**$ 87,402,000**	**$ 80,800,127**	**$ 3,163,624**	**$ 83,963,751**	**$ 3,438,249**	**$ 6,753,709**

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

WASTEWATER COLLECTION REPORT

MONTHLY REPORT

September 2018



CCTV INSPECTIONS AND SEWER CLEANING
SEPTEMBER 2018

Sept. 01 - Sept. 07	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	8879	0		8879
	271.79%	0%		135.89%

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

Sept. 15 – Sept. 21	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	5535	0		5535
	169.42%	0%		84.71%

Sept. 22 – Sept. 28	Team #1	Team #2	Vendor	Total
Feet Scheduled	3,267	3267		6,534
Feet Completed	5678	0		5678
	173.8%	0%		86.9%

Sept. 29 – Sept. 30	Team #1	Team #2	Vendor	Total
Feet Scheduled				
Feet Completed	0	0		0
	%	%		%

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	EOY
SEWER CLEANING	2.86	6.09	2.81	6.50	6.49	4.29	4.94	3.62	3.81				

TOTAL FEET SCHEDULED	26,136
TOTAL FEET COMPLETED	20,092
TOTAL MILES FOR THE MONTH	3.8
TOTAL MILES SCHEDULED	5.0
PERCENTAGE COMPLETED	76%

PUMPING STATION TROUBLE CALLS 2018

Sept. 01 - 07	CREATED	COMPLETED	PENDING
NORTHERN	7	7	0
CENTRAL	2	2	0
SOUTHERN	1	1	0
TOTAL	10	10	0

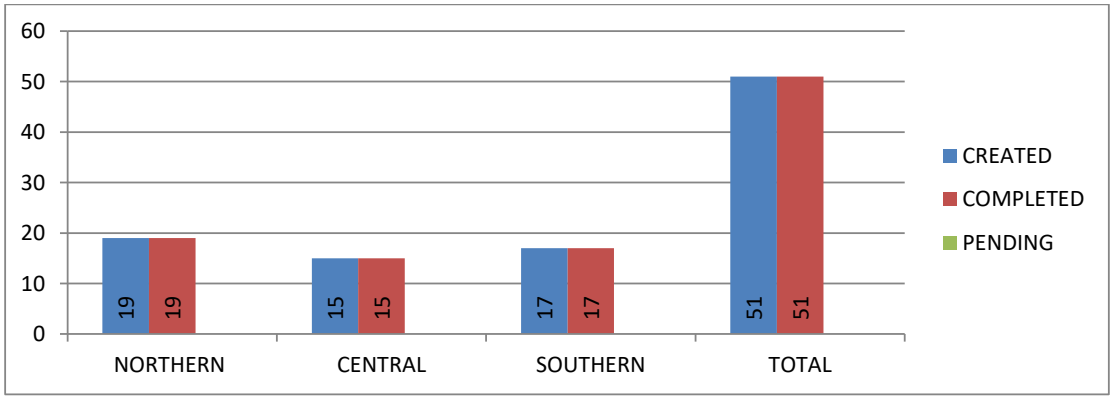
Sept. 08 – 14	CREATED	COMPLETED	PENDING
NORTHERN	5	5	0
CENTRAL	7	7	0
SOUTHERN	8	8	0
TOTAL	20	20	0

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

Sept. 22 – 28	CREATED	COMPLETED	PENDING
NORTHERN	3	3	0
CENTRAL	2	2	0
SOUTHERN	5	5	0
TOTAL	10	10	0

Sept. 29 – 30	CREATED	COMPLETED	PENDING
NORTHERN	0	0	0
CENTRAL	0	0	0
SOUTHERN	1	1	0
TOTAL	1	1	0

TOTAL	CREATED	COMPLETED	PENDING
NORTHERN	19	19	0
CENTRAL	15	15	0
SOUTHERN	17	17	0
TOTAL	51	51	0



MAINTENANCE PREVENTIVE AND CORRECTIVE CALL OUTS

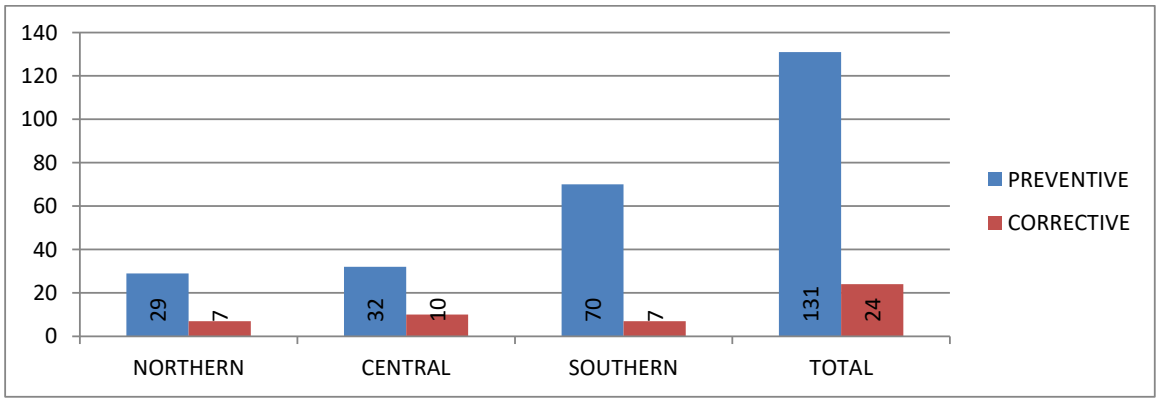
09/01/18 – 09/07/18	PREVENTIVE	CORRECTIVE
NORTHERN	10	1
CENTRAL	18	2
SOUTHERN	14	2
TOTAL	42	5

09/10/18 – 09/14/18	PREVENTIVE	CORRECTIVE
NORTHERN	Typhoon	Typhoon
CENTRAL	Typhoon	Typhoon
SOUTHERN	Typhoon	Typhoon
TOTAL		

09/17/18 – 09/21/18	PREVENTIVE	CORRECTIVE
NORTHERN	8	3
CENTRAL	6	3
SOUTHERN	23	2
TOTAL	37	8

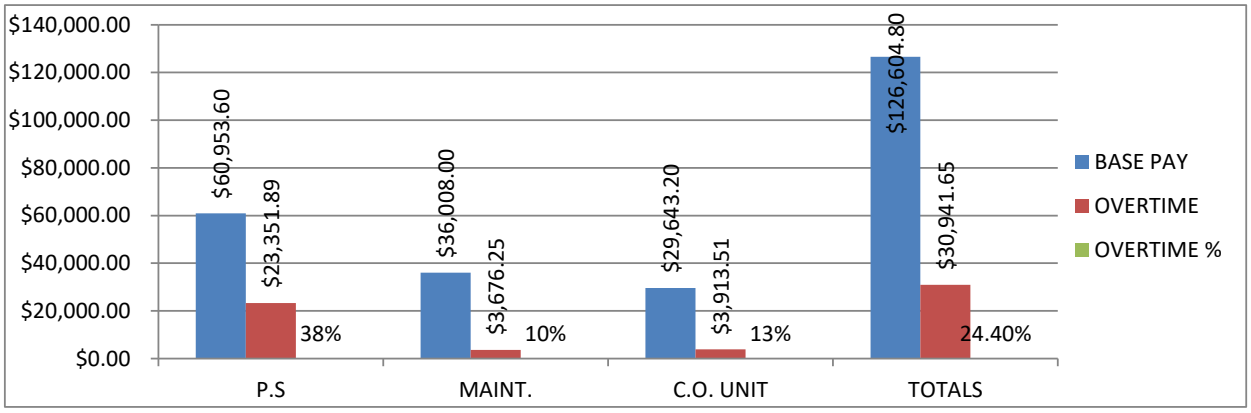
09/24/18 – 09/28/18	PREVENTIVE	CORRECTIVE
NORTHERN	11	3
CENTRAL	8	5
SOUTHERN	33	3
TOTAL	52	11

MONTHLY TOTAL	PREVENTIVE	CORRECTIVE
NORTHERN	29	7
CENTRAL	32	10
SOUTHERN	70	7
TOTAL	131	24



BASE PAY VS OVERTIME

As of August, 2018	BASE PAY	OVERTIME	OVERTIME %
PUMPING STATION	$60,953.60	$23,351.89	38%
MAINTENANCE	$36,008.00	$3,676.25	10%
COURT ORDER UNIT	$29,643.20	$3,913.51	13%
TOTALS	$126,604.80	$30,941.65	24.4%



GUAM WATERWORKS AUTHORITY

Guam Waterworks Authority

VEHICLE FLEET STATUS

10/11/2018

EQUIPMENT STATUS				
Description	**Number of Equipment**	**Number of Equipment Available**	**Number of Equipment Not Available**	**Percentage**
Backhoe	5	2	3	40%
Bobcat	1	1	0	100%
Boom Truck	2	1	1	50%
Crane	2	1	1	50%
Dump Truck	3	1	2	33%
Flat Bed	1	0	1	0%
Forklift	7	5	2	71%
Fuel Tanker	1	1	0	100%
Heavy Duty	8	5	3	63%
Hoist Rig	1	1	0	100%
Light	176	126	66	72%
Mini Backhoe	4	1	3	25%
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	15	11	4	73%
Trencher	1	1	0	100%
Vaccon	1	0	1	0%
Vacuum Truck	3	1	2	33%
Water Buffalo	2	2	0	100%
Water Tanker	5	4	1	80%

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	1	0	0	0	1	2
1	0	0	0	0	0	0
1	0	0	0	0	0	1
1	0	0	0	0	0	1
1	0	0	0	2	0	0
0	0	0	0	0	0	1
5	0	0	0	1	0	1
1	0	0	0	0	0	0
5	0	0	0	0	1	2
1	0	0	0	0	0	0
126	1	3	5	13	2	43
1	0	0	0	2	1	0
1	0	0	0	0	0	0
1	0	0	0	0	0	0
4	1	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	1	2
1	0	0	0	0	0	0
0	0	0	0	0	1	0
1	0	0	0	0	2	0
2	0	0	0	0	0	0
2	0	0	0	0	2	1

Compressor	1	1	0	100%	1	0	0	0	0	0	0
Total	250	176	93		176	3	3	5	19	11	55

Guam Waterworks Authority	Date: 10/12/2018 Time:

REVIEWS			
TOTAL PUMPS INSTALLED	51	OVERAL AVERAGE	*97%*
TOTAL PUMPS OPERATIONAL	49	% OF OPERATING PUMPS	*96%*
TOTAL BOOSTER PUMP STATIONS	25		

GUAM WATERWORKS AUTHORITY

WATER DISTRIBUTION FACILITIES REPORT

Northern District

NO:	FACILITY	PUMP HORSEPOWER	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	PUMP AND MOTOR INVENTORY
1	Gayinero	20	2	2	100%	OP	A						
2	Mataguac	25	2	2	100%	OP	A						
3	Santa Rosa	15	2	1	50%	OP	A	Pump 2 burnt.					
4	Hyundai	40	2	1	50%	OP	A	Station undergoing renovation.					
5	Access	60	2	2	100%	OP	A						
6	Chln. Palauan	5	2	2	100%	N/A							
7	Nimitz Hill	7.5	2	2	100%	N/A							
8	Adawag	1.5	2	2	100%	N/A							
9	Pale Kiren	1	1	1	100%	N/A							
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	3	100%	0P	A						
2	Brigade	60	3	3	100%	OP	A						
3	Windward Hills	200 / 75	3	3	100%	OP	A						
4	Santa Rita Spring	40	2	2	100%	OP	A						
5	Santa Ana (Lower)	25	2	2	100%	N/A				Need to operate valve manually for check valve.			
6	Camacho	1	1	1	100%	N/A							
7	Tenorio	1.5	1	1	100%	N/A							
	Total=7		**15**	**15**	**100%**								
pump availability =no of operational pumps/no of pumps*100%													

Southern District

NO:	FACILITY	PUMP HORSEPOWER	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	Malojloj Line	125 / 50	3	3	100%	OP	A	Pump 3 installed by JMI 6-28-18					
2	Geus	25	2	2	100%	OP	A						
3	Pigua	7.5	2	2	100%	N/A							
4	Toguan	25	2	2	100%	OP	A						
5	WBP-2	25	2	2	100%	OP	A						
6	WBP-1	5	2	2	100%	OP	A						
7	Malojloj Elevated	15	2	2	100%	OP	A						
	Total=7		**15**	**15**	**100%**								
pump availability =no of operational pumps/no of pumps*100%													

Guam Waterworks Authority	Date: 10/15/2018
	Time:

REVIEWS			
TOTAL PUMPS INSTALLED	172	OVERAL AVERAGE	82%
TOTAL PUMPS OPERATIONAL	141	% OF OPERATING PUMPS	82%
TOTAL PUMP STATIONS	78		

GUAM WATERWORKS AUTHORITY

WASTEWATER FACILITIES REPORT

Northern District (Updated as of 10/08/18 from Ed Aguon)

NO:	FACILITY	Priority Listing	NO OF INSTALLED	NO OF OPERATIONA	PUMP AVAILABILITY	Pump NO.	Pump Brand	Action Required	Ref. No./Date	PUMP UNIT REMARKS	Additional Remarks
1	FUJITA					1	FLYGT				
						2	FLYGT				
						3	FLYGT	Pump #3 suction valve damaged (unable to close). 4.12.18 found replacement valve in the warehouse, working with engineers on the OMCP to shut down the station to make change out to the valve. Pumper trucks OR's awaiting approval.			Need to reschedule shutdown due to rainy conditions
						4	FLYGT				
			4	4	100%						
2	Southern Link					1	FLYGT	Secured seal failure			
						2	FLYGT	oved due to seal failure (9-18-2018); using pump from #4			
						3	FLYGT				
						4	FLYGT	Pump #4 moved to line #2; suction clogged			VFD place on CIP funding awaiting approval 11/16/17 .
			4	2	50%						
3	Route #16					1	FLYGT	Pump #1 installed on 8/03/18 but awaiting electrical hook up. Pump #1 still secured as of 8/10/18 due to Soft Starter issue.			
						2	FLYGT				
						3	SULZER				
						4	SULZER				
			4	3	75%						
4	HARMON					1	FLYGT				
						2	FLYGT				
			2	2	100%						
5	MACHECHE					1	ABS				
						2	ABS	PS #20 pump			
			2	2	100%						
6	LATTE DOUBLE TROUBLE					1	ABS	Pump #1 burnt and is at JMI 6.06.18	PO #302349 6/20/18		
						2	ABS				
			2	1	50%						
7	LATTE SUBMARINE					1	ABS				
						2	ABS				
			2	2	100%						
8	MACHANAO					1	ABS				
						2	FLYGT	Pump and Volute removed and placed at Ypao #2			
			2	1	50%						
9	YPAOPAO ESTATES					1	FLYGT				
						2	FLYGT				
						3	FLYGT	Pump #3 secured and extracted due motor short circuiting and dropped off at Washland on 7/10/18.	OQ # 32872 7/10/18		
			3	2	67%						
						1	ABS				

10	PGD					2	ABS	Pump #2 removed due to broken seal @ WASHLAND	OQ # 32540 OR #32357 5/11/18		
			2	1	50%						
11	LATTE PLANTATION					1	BARNES				
						2	BARNES				
			2	2	100%						
12	PASEO DE ORO					1	FLYGT				
						2	FLYGT				
			2	2	100%						
13	ASTUMBO #1					1	ABS				
						2	ABS	Pump #2 removed on 8/25/18 to be utilized at the Ga'an bybass.			
			2	1	50%						
14	ASTUMBO #2					1	ABS	Pump burnt and removed from the Ga'an bypass on 8/25/18.			
						2	ABS				
			2	1	50%						
15	FEMA '96					1	ABS				
						2	ABS	Pump #2 motor is burnt extracted on 6/05/18. Sent to JMI on 6/06/18.	OQ 32678 OR #32463 PO 302348 6/18/18		
			2	1	50%						
16	LATTE SUN RISE					1	ABS				
						2	ABS				
			2	2	100%						
17	HAFA ADAI					1	ABS				
						2	ABS				
			2	2	100%						
18	PACIFIC LATTE					1	ABS				
						2	ABS				
			2	2	100%						
19	SANTA ANA					1	Barnes				
						2	Barnes				
			2	2	100%						
20	ZERO DOWN					1	ABS				
						2	ABS				
			2	2	100%						
21	Yigo PS		3	2		1	ABS				
						2	ABS				
						3	ABS	Pump #3 awaiting installation of discharge valve. Shutdown of station needed. Awaiting to schedule/weather permitting. 7/06/18			
					67%						
22	Ypao PS					1	ABS	Pump and Volute welded on due to leaking from pinholes.			
						2	ABS	Pump removed due to stuck impeller. Machanao pump and volute installed for usage.			
			2	2	100%						
	Northern TP							Awaiting SCADA system part for solenoid. Still awaiting on PO as of 7/06/18.	OQ#32361 / OR #32335		awaiting for vendor's feed back. JMI / Frontiers
	TOTAL = 22		52	41	79%						
	Central District (Updated as of 10/08/18 from Jake Quinata)										

NO:	FACILITY	Priority Listing	NO OF INSTALLED	NO OF OPERATIONA	PUMP AVAILABILITY	Pump NO.	Brand	Action Required	Ref. No./Date	PUMP UNIT REMARKS	Additional Remarks
1	AGANA MAIN					1	FLYGT				
						2	ABS				
						3	FLYGT				
						4	ABS	discharge line clogged			
			4	3	75.00%						
2	CHAOT					1	FLYGT				
						2	FAIRBANKS				
						3	FAIRBANKS	Pump #3 secured due clogged riser. 8/10/18			
			3	2	66.67%						
3	MAMAJANAO					1	FLYGT	Off-line awaiting eccentric reducer.	OQ#31721 (12/07/18) OR #31551(12/14/17)		looking at flygt pump on there new horizontal installation. And replacing the
						2	ABS				
						3	ABS				
			3	2	66.67%						
4	BARRIGADA					1	ABS				
						2	ABS				
			2	2	100.00%						
	BAYSIDE					1	FLYGT				
			1	1	100.00%						
6	TA'I MANGILAO					1	FLYGT	Pump #1 extracted due to seal failure 5/28/18.	OQ #32635 OR #32435 6/06/18		
						2	FLYGT				
						3	FLYGT				
			3	2	66.67%						
7	MONGMONG/TOTO					1	ABS				
						2	ABS				
			2	2	100.00%						
8	PAGO DOUBLE					1	FAIRBANKS	secured & needs to be replaced/CIP approved pending final review from finance.			
						2	FAIRBANKS	Pump #2 (Sn 392630) installed and online on 8/29/18.			
						3	FAIRBANKS				
			3	2	66.67%						
	MANGILAO					1	ABS	Pump #1 at JMI for repair (SULZER ABS Ser. No. 001922).	OQ#31890(01/05/18) OR#31686(01/09/18) PO #302189 - 5/02/18		
						2	ABS	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	ABS				
						2	ABS	Pump #2 was on stand by for electrical upgrades			
			2	1	50.00%						
						1	ABS	Pump #1 removed due to seal failure. Sent to Washland for repairs.	OQ #32626 OR #32403 5/29/18		

11	ASAN					2	ABS				
			2	1	50.00%						
12	SINAJANA					1	ABS				
						2	ABS				
			2	2	100.00%						
13	DAIRY ROAD					1	SULZER				
						2	SULZER	Pump #1 (Sn.0013014) extracted on 8/11/18 due to burnt motor. On 8/21/18 Sulzer pump (Sn.0017806) installed. Correction on pump number. Should read pump #2 for said activity reported previously.	**OQ #32989 8/13/18**		
			2	2	100.00%						
14	FADIAN					1					
						2					
			2	2	100.00%						
15	FLORA GARDENS					1	ABS	**Pump #1 extracted due to broken impeller, taken to Central Maint. Shop on 7/11/18. Waiting on parts from JMI. On 8/21/18 said pump (ABS Sn. 0045004) was reinstalled but then extracted due to low amperage and not pumping.**			
						2	ABS				
			2	1	50.00%						
16	ORDOT					1	ABS				
						2	ABS	**Pump #2 secured due to burnt motor (Barnes Sn. 472699-1293) Said pump extracted on 8/21/18 for repairs.**	**OQ #32870 7/10/18**		
			2	1	50.00%						
17	CHALAN PAGO #5					1		Pump #1 at @Washland for rewinding.	?		
						2	ABS				
			2	1	50.00%						
18	COMMERCIAL PORT					1	ABS	**Pump #1 (Sn 12240) reinstalled on 8/30/18 and is back online.**			
						2	ABS	**Pump #2 secured due to burnt motor and extracted on 6/05/18 and sent to Washland on 6/06/18.**	**PO 302351 6/14/18**		
						3	ABS				
			3	2	66.67%						
19	CHALAN PAGO #3					1	ABS				
						2	ABS				
			2	2	100.00%						
20	CABRAS ISLAND					1	ABS				
						2	ABS				
			2	2	100.00%						
						1	FLYGT				

21	ALUPANG COVE					2	FLYGT					
			2	2	100.00%							
	MAITE EJECTOR					1						
22						2						
			2	2	100.00%							
	TOTO GARDENS					1	ABS					
23						2	ABS					
			2	2	100.00%							
	CASIMERO					1	BARNES					
24						2	BARNES					
			2	2	100.00%							
	LEYANG					1	FLYGT					
25						2	FLYGT					
			2	2	100.00%							
	SAGAN BONITA 1					1	SULZER					
26						2	SULZER					
			2	2	100.00%							
	SAGAN BONITA 2					1	SULZER					
27						2	SULZER					
			2	2	100.00%							
28	Namo					1	(M) RELIANCE (C) QUINCY					
			1	1	100.00%							
	DERO ROAD					1	FLYGT					
29						2	FLYGT					
			2	2	100.00%							
	Hagatna WWTP							Flocculation chamber #4- Winch removed. OQ placed for new winches to replace all in floc chambers #1-4.	OQ#32259 **OR #32100**			
								Primary Clarifier #3 flights not moving. Clarifier being drained and therefore will be assessed. 7/09/18				
								***Digester #3 aerator gear box installed and online as of 8/09/18. Digester #3 secured due to making load noise. Gear box taken back to New M.W. Corp for assessment/repair on 8/22/18. On 9/05/18 Said reinstalled and extracted on 9/07/18 due to gear box**				
	Total=29		**63**	**51**	**80.95%**							

SOUTHERN DISTRICT (Updated as of 10/01/18 from Jason Tudela)

NO:	FACILITY	Priority Listing	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	Pump No.	Brand	Action Required	Ref. No./Date	PUMP UNIT REMARKS	Additional Remarks
						1	ABS	**Pump #1 removed due to seal leaking. Sta. #16 pump #2 being temporarily utilize on line #1. 4/28/18**	**OQ #32510 OR #32305 PO 302463 - 8/03/18**		
1	PUMP STATION #11					2	ABS	**Pump #2 was installed on July 31, 2018 but is secured due to pump not pumping normally. Per Jason Tudela, pump #2 (Sn 0012240) extracted on 8/31/18 for assessment/repairs. On 9/05/18 reinstall said pump but failed due to impeller grinding on volute. Assesment ongoing.**			**Canceled on 4/18/18 per Frankie Meno**
			2	1	50%						
						1	ABS	**Pump #1 secured on Aug. 6 due to damaged impeller. Per Jason T. 8/24/18 Said pump #1 (Sn 0008639) extracted on 8/31/18 for impeller replacement**			
2	PUMP STATION #12					2	ABS	**Pump #2 was removed for bearing issue (SN: 0023800) New pump for Sta. #15 (ABS Sulzer) installed temporarily**	OQ#31380 OR#31508		
			2	1	50%						
						1	ABS				
3	PUMP STATION #13					2	ABS				
			2	2	100%						
						1	ABS	**Pump #1 installed at Bayside on 5/20/18. Burnt at Bayside on 5/23/18. Taken to Washland for repairs.**			

4	PUMP STATION #14					2	ABS				
			2	1	50%						
5	PUMP STATION #15					1	ABS	pump on stand-by awaiting power upgrades			
						2	ABS				
			2	2	100%						
6	PUMP STATION #16					1	ABS				
						2	ABS	Pump #2 removed and being utilized on Sta. #11 line #1. 4/28/18			
			2	1	50%						
7	PUMP STATION #17					1	ABS				
						2	ABS	Pump #2 (ABS SN#0084183) at Washland for rewinding	OQ#31992 OR#31767		
			2	1	50%						
8	PUMP STATION #18					1	ABS				
						2	ABS	pump 2 install 09/05/18 Station now 2 of 2			
			2	2	100%						
9	PUMP STATION #19					1	FLYGT				
						2	FLYGT				
			2	2	100%						
10	PUMP STATION #20					1		Undergoing refurbishment of the treatment plant by contractor (Sumotomo).			
			1	0	0%						
11	GAAN					1		Line #1 not in service/no pump installed			
						2	ABS				
						3	ABS				
						4	ABS				
						5	ABS				
			4	4	100%						
12	TIPALEO					1					
						2					
						3					
			3	3	100%						
13	CHALIGAN					1	FLYGT				
						2	FLYGT				
			2	2	100%						
14	PAGACHAO					1	ABS				
						2	ABS				
			2	2	100%						
15	INARAJAN MAIN					1	ABS	Piti's pump #2(ABS Sn.0013049) was installed on 7/06/18 due to I&I issues as per J. Tudela. Said pump secured on 8/13/18 due to burnt motor and extracted on 8/17/18 for repair. ATP pump (Sn. 4184) installed on 8/17/18.	Pump #1 that was removed on 6/27/18 due to leakage sensor. OQ#32940		
			2	2	100%	2	ABS				
16	INARAJAN LIFT					1	PACO RELIANCES				
						2	ABS				
			2	2	100%						
17	TALAFOFO					1	ABS	Refigured discharge line to utilize 4" check valve pump 1 back online 10/08/18	OQ#31830 OR#31662		
						2	ABS				
			2	2	100%						
18	NORTH REYES					1	BARNES				
						2	BARNES				
			2	2	100%						
19	MTL PUMP STATION					1	ABS				
			1	1	100%						
						1		Motor is burnt			

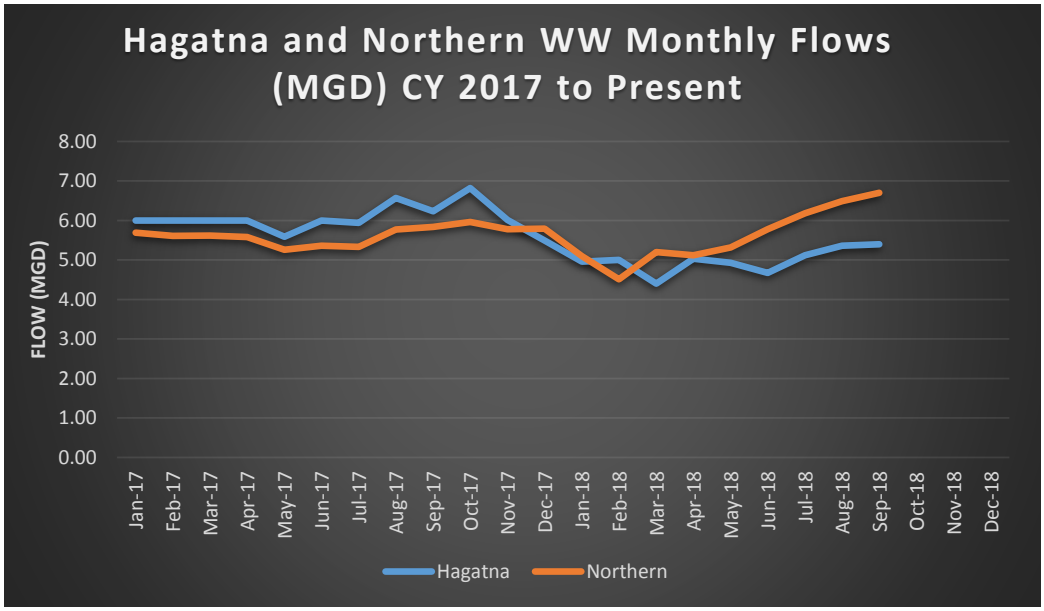
20	EJECTOR #2					2		9-22-18 motor was replaced by another motor from ejector 5				
			2	1	50%							
21	EJECTOR #3					1						
						2						
			2	2	100%							
22	EJECTOR #4					1						
						2						
			2	2	50%			# 2 Compressor Tripping 10/15/2018				
23	EJECTOR #5					1		9-21-18 Motor was removed to be used at ejector 2				
						2		**Compressor was replaced on 9-21-18**				
			2	2	100%							
24	EJECTOR #6					1	**(M)MARATHON (C) QUINCY**					
						2	**(M)MARATHON (C) QUINCY**					
			2	2	100%							
25	EJECTOR #7					1	**(M)MARATHON (C) QUINCY**					
						2	**(M)MARATHON (C) QUINCY**					
			2	2	100%							
26	LEYON #3 (Dandan)					1	**SULZER**	**Defective controller. Sunday 3/18/18 Pump #1 off-line. VFD taken from Layon #4 pump #1 to attemp to get pump #1 on-line. Found out that the fan on said VFD is not operating. So a contactor was installed temporally in place of the VFD and is on-line as of Monday 3/19/18. As per Jason.**				
						2	**SULZER**	Off-line VFD defective (Vendor still waiting on order as of 4/06/18)	OQ#31920/OR#31756 OQ#31921/OR#31763 **PO #301932**			
			2	1	50%							
27	LEYON #4 (Rt. 4)					1	**SULZER**					
						2	**SULZER**					
			2	2	100%							
	Agat WWTP											
	Baza WWTP											
	Inarajan WWTP											
	Umatac WWTP											
	Total=27		**57**	**49**	**86%**							

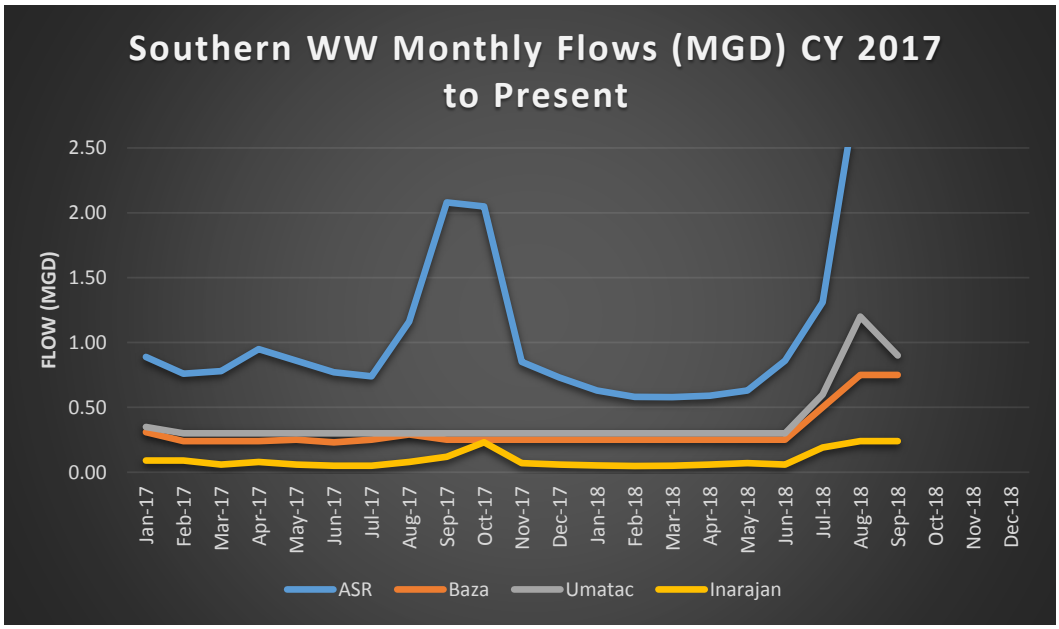
Wastewater Treatment Plant Average Monthy Flows Million Gallons Per Day

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

2018	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-18	4.96	5.10	0.63	0.25	0.30	0.05
Feb-18	5.00	4.51	0.58	0.25	0.30	0.05
Mar-18	4.40	5.20	0.58	0.25	0.30	0.05
Apr-18	5.03	5.12	0.59	0.25	0.30	0.06
May-18	4.93	5.32	0.63	0.25	0.30	0.07
Jun-18	4.67	5.78	0.86	0.25	0.30	0.06
Jul-18	5.12	6.18	1.31	0.50	0.60	0.19
Aug-18	5.36	6.49	3.10	0.75	1.20	0.24
Sep-18	5.40	6.70	3.46	0.75	0.90	0.24
Oct-18						
Nov-18						
Dec-18						
2018 Average MGD	**4.99**	**5.60**	**1.30**	**0.39**	**0.50**	**0.11**
2018 Total MGY	1,820	2,044	476	142	183	41

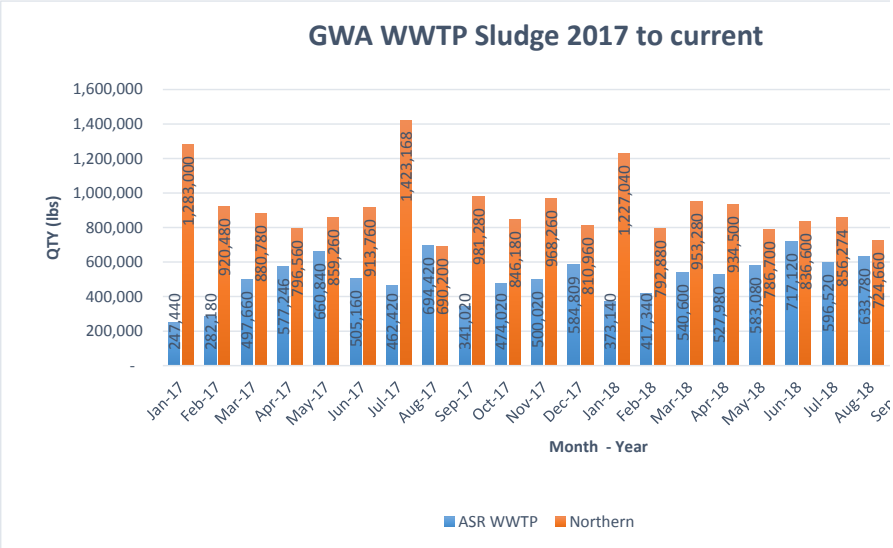
GWA WWT Flow Report 2013 to Present, prepared by kcog/df, 10/16/2018

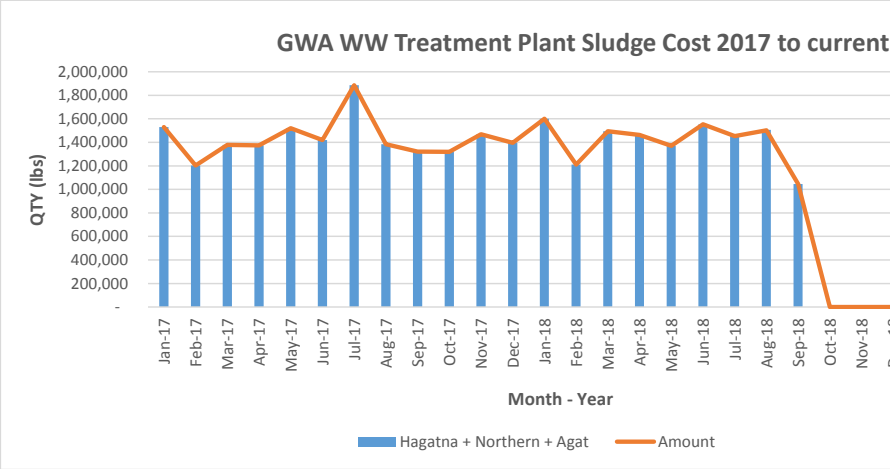

Hagatna and Northern WW Monthly Flows (MGD) CY 2017 to Present
FLOW (MGD)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Jan-17
Feb-17
Mar-17
Apr-17
May-17
Jun-17
Jul-17
Aug-17
Sep-17
Oct-17
Nov-17
Dec-17
Jan-18
Feb-18
Mar-18
Apr-18
May-18
Jun-18
Jul-18
Aug-18
Sep-18
Oct-18
Nov-18
Dec-18
Hagatna
Northern


Southern WW Monthly Flows (MGD) CY 2017 to Present
FLOW (MGD)
2.50
2.00
1.50
1.00
0.50
0.00
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
ASR
Baza
Umatac
Inarajan

	ASR WWTP		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 WWTP		Northern		Agat (ASR)		Hagatna + Northern + Agat	
2018	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	$	lbs	$	lbs	$	lbs	$
Jan-18	373,140	$33,582.60	1,227,040	$110,433.60			1,600,180	$144,016.20
Feb-18	417,340	$37,560.60	792,880	$71,359.20			1,210,220	$108,919.80
Mar-18	540,600	$48,654.00	953,280	$85,795.20			1,493,880	$134,449.20
Apr-18	527,980	$47,518.20	934,500	$84,105.00			1,462,480	$131,623.20
May-18	583,080	$52,477.20	786,700	$70,803.00			1,369,780	$123,280.20
Jun-18	717,120	$64,540.80	836,600	$75,294.00			1,553,720	$139,834.80
Jul-18	596,520	$53,686.80	856,274	$77,064.66			1,452,794	$130,751.46
Aug-18	633,780	$57,040.20	724,660	$65,219.40	147220	$12,894.25	1,505,660	$135,153.85
Sep-18	333,740	$30,036.60	711,820	$64,063.80	0	$0.00	1,045,560	$94,100.40
Oct-18		$0.00		$0.00		$0.00	-	$0.00
Nov-18		$0.00		$0.00		$0.00	-	$0.00
Dec-18		$0.00		$0.00		$0.00	-	$0.00
Grand Total	4,723,300	$425,097.00	7,823,754	$704,137.86	147,220	$12,894.25	12694274	##########


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
690,200
341,020
981,280
474,020
846,180
500,020
968,360
584,809
810,960
375,140
1,227,040
417,340
792,880
540,600
953,280
527,980
934,500
583,080
786,700
717,120
836,600
596,520
856,274
633,780
724,660
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
Month - Year
ASR WWTP
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
-
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
Month - Year
Hagatna + Northern + Agat
Amount