

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., April 16, 2019

AGENDA

1. ISSUES FOR DECISION

- **1.1** Relative to Approval of the Contract Renewal with Guam Pacific Enterprise and JMI Edison for the Additional Purchases of Submersible Cables, Temperature Sensors and Two (2) HP Booster Pump Motors / Resolution No. 21-FY2019
- 1.2 Relative to Approval of Fund Increase to the Agat-Santa Rita Wastewater Treatment Plant Construction Project / Resolution No. 22-FY2019
- **1.3** Relative to Approval of Change Order No. 8 for the Agat-Santa Rita Wastewater Treatment Plant Upgrade Construction Management Contract / Resolution No. 23-FY2019
- 1.4 Relative to Approval of Change Order No. 5 for the Baza Gardens Wastewater Cross-Island Pumping and Conveyance Design Services Contract / Resolution No. 24-FY2019
- 1.5 Relative to Approval of Change Order No. 2 for the Baza Gardens Wastewater Cross-Island Pumping and Conveyance Construction Management Contract / Resolution No. 25-FY2019
- 1.6 Relative to Approval of Change Order No. 2 for Asan Springs Rehabilitation Design Project / Resolution No. 26-FY2019
- 1.7 Relative to the Re-evaluation and Implementation of the Revised GPWA Drug and Alcohol-Free Workplace Policy /Resolution No. 27-FY2019

2. GM REPORT

2.1 GM Summary

3. ISSUES FOR DISCUSSION

4. DIVISION REPORTS

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

5. ANNOUNCEMENTS

- 5.1 Next CCU Meetings: GPA WS 4/18/19; CCU Mtg 4/25/19
- 6. EXECUTIVE SESSION
 - 6.1 Litigation / Personnel Matters
- 7. ADJOURNMENT



GUAM WATERWORKS AUTHORITY "Better Water, Better Lives." Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913 Tel: (671) 300-6846

Issues for Decision

Resolution No. 21-FY2019

Relative to the Approval of the Contract Renewal with Guam Pacific Enterprise and JMI Edison for the Additional Purchases of Submersible Cables, Temperature Sensors and 2 HP Booster Pump Motors

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

The objective is to provide for adequate parts inventory for submersible cables and chlorination system booster pumps for GWA's water production facilities. Having the inventory on-hand is necessary to ensure that water system mechanical and electrical assets are replaced in a timely manner as part of normal production well and disinfection system operations and maintenance.

	5-08 Submersible Ca	bies, D	oostei	Fumps an			
Guam Pacific Enterprise						Est Annual	Est 3 Year
No	Description	Qty	UOM	Unit Cost	Total Cost	Cost	Cost
1.0	Temperature Sensor 6"	10	each	\$695.00	\$6,950.00		
1.1	Temperature Sensor 8"	10	each	\$695.00	\$6,950.00	\$13,900.00	\$41,700.00
2.0	Submersible Electrical Cable #4 AWG CU, 4 Wire (Note: to be used on 50/60 HP Submersible Matern)	1000	fact	¢14 Q4	¢11.010.00		
3.0	Submersible Motors) Submersible Electrical Cable #1 AWG CU, 4 Wire (Note: to be used on 75/100 HP	1000	foot	\$11.21	\$11,210.00		
3.1	Submersible Motors)	4000	foot	\$22.22	\$88,880.00		
2.0	Submersible Electrical Cable #2/0 AWG CU, 4 Wire (Note: to be used on 125/150 HP Submersible Maters)	2000	faat	¢26 50	¢70.770.00	\$170,860,00	¢=20 = 80 00
3.2	Submersible Motors)	3000	foot	\$26.59	\$79,770.00	\$179,860.00	\$539,580.00
GPE Est	Cost				\$193,760.00	\$193,760.00	\$581,280.00

Bid Summary

JMI Edia Item	son					Est Annual	Est 3 Year
No	Description					Cost	Cost
2.0	2 HP Pump and Motor CR3-10 A-FGJ-E-HQQE 230/460V	35	each	\$1,409.30	\$49,325.50	\$49,325.50	\$147,976.50
						Est Annual Cost	Est 3 Year Cost
TOTAL I	TOTAL EST COST					\$243,085.50	\$729,256.50

Total Amount Expensed

PO No	PO Amount	Vendor	PO Date	FY	Funding Source
298852	\$153,670.00	GPE	12/26/2015	16	PW 09-02 Water Wells
298991	\$202,480.00	GPE	2/8/2016	16	PW 09-02 Water Wells
300011	\$33,530.00	GPE	10/6/2016	17	PW 09-02 Water Wells
301130	\$185,665.00	GPE	8/1/2017	17	Revenue Funded
GPE TOTAL	\$575,345.00				
298758	\$13,828.59	JMI	12/4/2015	16	PW 09-02 Water Wells
298851	\$23,958.10	JMI	12/29/2015	16	PW 09-02 Water Wells
300311	\$22,548.80	JMI	12/14/2016	17	PW 09-02 Water Wells
302887	\$35,232.50	JMI	12/13/2018	19	Revenue Funded
302887 (Amendment 1)	\$43,688.30	JMI	12/21/2018	19	Revenue Funded
JMI TOTAL	\$139,256.29				
IFB 2015-08 TOTAL	\$714,601.29				

			2 Year Est	
Guam Pacific Enterprise	Description	Unit Cost	Qty	Est 2 year Cost
3.1	Submersible Electrical Cable #2/0 AWG CU, 4 Wire (Note: to be used on 125/150 HP Submersible Motors)	\$26.59	8000	\$212,720.00
3.2	Submersible Electrical Cable #4 AWG CU, 4 Wire (Note: to be used on 50/60 HP Submersible Motors)	\$11.21	8000	\$89,680.00
SubmersibleElectrical Cable#1 AWG CU, 4 Wire(Note: to be used on 75/100 HP3.3Submersible Motors)		\$22.22	8000	\$177,760.00
Guam Pacific Enterprise 2	Guam Pacific Enterprise 2 Year Estimated Cost			\$480,160.00
Contingency 10%				\$48,016.00
Total Requested Funding				\$528,176.00

Estimated Purchase Quantity and Cost for 2 Year Contract Renewal

			2 Year Est	
JMI Edison	Description	Unit Cost	Qty	Est 2 year Cost
2.0	2HP BPM	\$ 1,409.30	80	\$112,744.00
Contingengy 10 %				\$11,274.40
Total Requested Funding				\$124,018.40

Where is the location?

Island Wide Well and Chlorination Facilities.

How much will it cost?

Contract Renewal 2 years	GPE Contract Renewal with 10% Contingency	\$528.176.00
	JMI Contract Renewal with 10%	
	Contingency	\$124,274.40
CCU Approval		\$652,194.40

When will it be completed?

Purchases over the 2-year contract extensions are required for on-going production well and disinfection system operations and maintenance.

What is the funding source? Revenue Funds.

The RFP/BID responses (if applicable): JMI Edison Guam Pacific Enterprises



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

GWA RESOLUTION NO. 21-FY2019

RELATIVE TO THE APPROVAL OF THE CONTRACT RENEWAL WITH GUAM PACIFIC ENTERPRISE AND JMI-EDISON FOR THE ADDITIONAL PURCHASES OF SUBMERSIBLE CABLES, TEMPERATURE SENSORS AND 2 HP BOOSTER PUMP MOTORS

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

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

WHEREAS, GWA issued Bid Number 2015-08 to solicit bid proposals from experienced and responsive bidders to provide temperature sensors, submersible cables and 2HP booster pump and motors to provide adequate stock replenishment when needed; and

WHEREAS, there were two (2) responsive and responsible bidders who offered temperature sensors, submersible cables and 2HP booster pump and motors meeting requirements in IFB 2015-08 (see Exhibit A – Recommendation of Award); and

WHEREAS, IFB 2015-08 offers were evaluated by GWA's review committee and GWA's review committee determined that the best offer for temperature sensor and submersible cables was made by Guam Pacific Enterprise (see Exhibit B – NTCA GPE); and

WHEREAS, GWA's review committee also determined that the best officer for 2HP booster pump and motor was made by JMI-Edison (see Exhibit C -NTCA JMI); and

WHEREAS, GWA accepted Guam Pacific Enterprise's bid proposal (see Exhibit A) and 1 entered into a three (3) year contract (see Exhibit D – NTP GPE) for 6" temperature sensor at 2 \$695.00 each and 8" temperature sensor at \$695.00 each for an estimated annual cost of 3 Thirteen Thousand Nine Hundred Dollars (\$13,900.00), and for an estimated three (3) year 4 contract amount of Forty One Thousand Seven Hundred Dollars (\$41,700.00) and for #4 AWG 5 CU 4-Wire at \$11.21 per foot, #1 AWG CU Wire at \$22.22 per foot and #2/0 AWF CU 4 Wire 6 at \$26.59 per foot for an estimated annual cost of One Hundred Seventy Nine Thousand Eight 7 Hundred Sixty Dollars (\$179,860.00) and for an estimated three (3) year contract amount of Five 8 Hundred Thirty Nine Thousand Five Hundred Eighty Dollars (\$539,580.00), with a grand total to 9 supply the temperature sensors and submersible cables of Five Hundred Eighty One Thousand 10 Two Hundred Eighty Dollars (\$581,280.00); and 11

WHEREAS, GWA accepted JMI Edison's bid proposal (see Exhibit A) and entered into a three (3) year contract (see Exhibit D – NTP JMI) for 2HP booster pump and motor of \$1,409.30 each for an estimated annual cost of Forty Nine Thousand Three Hundred Twenty Five Dollars and Fifty Cents (\$49,325.50), and for a an estimated three (3) year contract amount of One Hundred Forty Seven Thousand Nine Hundred Seventy Six Dollars and Fifty Cents (\$147,976.50); and

WHEREAS, the total amount expensed as of December 2018 for the GPE contract is Five Hundred Seventy-Five Thousand Three Hundred Forty-Five Dollars (\$575,345.00) for Submersible Cables; and

WHEREAS, the amount required to extend the GPE contract and purchase additional submersible cables is Four Hundred Eighty Thousand One Hundred Sixty Dollars (\$480,160.00) for the additional 2-year contract extension (see Exhibit G), and a ten percent (10%) contingency of Forty-Eight Thousand Sixteen Dollars (\$48,016.00). The projected total contract amount for GPE with the two (2) year extension will be One Million One Hundred Three Thousand Five Hundred Twenty-One Dollars (\$1,103,521); and

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WHEREAS, the total amount expensed as of December 2018 for the JMI contract is One Hundred Thirty-Nine Thousand Two Hundred Fifty-Six Dollars and Twenty-Nine Cents (\$139,256.29) for the 2HP booster pump and motors; and

WHEREAS, the amount required to extend the JMI contract and purchase additional 2HP booster pump motors are One Hundred Twelve Thousand Seven Hundred Forty-Four Dollars (\$112,744.00) for the additional 2-year contract extension (see Exhibit H); and a ten percent (10%) contingency in the amount of Eleven Thousand Two Hundred Seventy-Four Dollars and Forty Cents (\$11,274.40). The projected total contract amount for JMI with the two (2) year contract extension will now be Two Hundred Sixty-Three Thousand Two Hundred Seventy-Four Dollars and Sixty-Nine Cents (\$263,274.69); and

WHEREAS, the source of funding for the additional submersible cable and 2HP booster pump motor purchase will be Revenue Funds; and

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- The CCU hereby authorizes the management of GWA to proceed with the two
 (2) year extensions for both the GPE and JMI contracts based on the renewal provisions of IFB 2015-08.
- 3. The CCU hereby authorizes the management of GWA to purchase submersible cables and temperature sensors from GPE in the amount of Four Hundred Eighty Thousand One Hundred Sixty Dollars (\$480,160.00) (see Exhibit F1) plus a ten percent (10%) contingency of Forty-Eight Thousand Sixteen Dollars (\$48,016.00) for a total of Five Hundred Twenty-Eight Thousand One Hundred Seventy-Six Dollars (\$528,176.00).
- 4. The CCU hereby authorizes the management of GWA to purchase 2 HP booster pump motors from JMI in the amount of One Hundred Twelve Thousand Seven Hundred Forty Four Dollars (\$112,744.00) (see Exhibit F2), plus a ten percent (10%) contingency in the amount of Eleven Thousand Two

	Unit dead Secondar Four Dollars and Forth Conta (\$11,274,40) for a total of
1	Hundred Seventy-Four Dollars and Forty Cents (\$11,274.40) for a total of One Hundred Twenty-Four Eighteen Dollars and Forty Cents (\$124,018.40).
2	5. The CCU hereby further authorizes the management of GWA to seek PUC
3 4	Approval as required by Docket 00-04.
5	
6	RESOLVED , that the Chairman certified and the Board Secretary attests to the adoption
7	of this Resolution.
8	
9	DULY AND REGULARLY ADOPTED , this 25 th day of April, 2019.
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11	Certified by: Attested by:
12	
13	JOSEPH T. DUENAS MICHAEL T. LIMTIACO
14	Chairperson Secretary
15	SECRETARY'S CERTIFICATE
16	
17 18	I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:
19	
20	The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and
21	legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:
22	present and the members who were present voted as follows.
23	
24	AYES:
25	NAYS:
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27	ABSTENTIONS:
28	ABSENT:
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30 31	
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GUAM WATERWORKS AUTHORITY

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

EXHIBIT A

MEMORANDUM

TO: General Manager

VIA: Supply Management Administrator

FROM: Evaluation Committee Members

SUBJECT: Invitation to Bid No. GWA 2015-08 Ref: Submersible Cables/Booster Pump/Temperature Sensor

Invitation for Bid No: GWA 2015-08 was officially announced and advertised in the Pacific Daily News, Marianas Variety and Guam Waterworks Authority Website on August 27, 2015 and open as scheduled on October 09, 2015 @ 10:00 am. Twelve (12) prospective bidders expressed their interests by acknowledging receipt of the bid package thru GWA's website.

Bidders Register:

- JMI Edison
 Nidhi Computers
 G4S Security Systems
 Guam Pacific Enterprises
 Matrix Design Group
 Canton Construction
- 7. AECOM
 8. Utilities Service Specialties
 9. HFP Industrial Products
 10. Damon Harper
 11. ADDS

Of the eleven (11), two (2) submitted their bid package, namely:

- JMI Edison
- Guam Pacific Enterprises

An evaluation committee was formally assembled and met on October 12, 2015 @ 10:00 am iz-Procurement's office to review/discuss and evaluate the bid.

Committee members consist of:

- Ron Topasna
- Karen Grape
- Peter Salas

Ref: IFB 2015-08 Submersible Cables/Booster Pump/Temperature Sensor

The committee members reviewed both bid proposal and have determined GPE Enterprises submitted a fair and lowest cost on Item NO: 1.0, 1.1, 3.0, 3.1 and 3.2 and with JMI Edison respectfully submitted a fair and lowest cost on Item NO: 2.0 are as followed:

Guam Pacific Enterprises (GPE) submitted cost:

<u>ITEM NO.</u>	DESCRIPTION	<u>EST QTY</u>	<u>UNIT COST</u>	TOTAL COST
1.0	Temperature Sensor 6"	10 EA	<u>\$695.00</u>	<u>\$6,950.00</u>
1.1	Temperature Sensor 8"	10 EA	<u>\$695.00</u>	<u>\$6,950.00</u>
3.0	SUBMERSIBLE ELECTRICAL CAB # 4 AWG CU, 4-WIF (NOTE: TO BE USE 50/60 HP SUBMERS	RE D ON	<u>\$11.21</u>	<u>\$112,100.00</u>
3.1	SUBMERSIBLE ELECTRICAL CAB # 1 AWG CU, 4-WIF (NOTE: TO BE USE 75/100 HP SUBMER	E D ON	<u>\$22.22</u>	<u>\$88,880.00</u>
3.2	SUBMERSIBLE ELECTRICAL CAB # 2/0 AWG CU, 4-W (NOTE: TO BE USE 125/150 HP SUBME	IRE D ON	<u>\$26.59</u> S)	<u>\$79,770.00</u>
JMI Edison	submitted cost:			

<u>ITEM NO.</u>	DESCRIPTION	<u>EST</u>	<u> 0TY</u>	UNIT COST	TOTAL COST	
2.0	BOOSTER PUMP	35	EA	<u>\$1,409.30</u>	<u>\$49,325.50</u>	
	(GRUNDFOS)					

After a thorough evaluation the committee members agreed and accepted both bid offer from Guam Pacific Enterprises and JMI Edison for each of the bid items listed and has determined they complied with all specifications and requirements and are deem as a responsive and responsible bidder set forth in the IFB.

Ref: IFB 2015-08 Submersible Cables/Booster Pump/Temperature Sensor

Summary:

This is an "Indefinite Quantity Bid" pursuant to the Guam Procurement Regulations. <u>The</u> <u>quantities reflected are only estimated and not guarantee of amounts to be purchased.</u> Quantities may increase or decrease thru the duration of the contract and continued purchase is subject to the availability of funds. No guarantee or other commitment is made to vendors in terms of purchasing quantity and the amounts set forth in this bid are only estimates of needs for the near term.

Please note: This is an Indefinite Quantity Bid so the grand total cost stated above does not mean it's a guaranteed cost that GWA will be issuing.

Contract Term:

GWA and the lowest responsible bidder may enter into a contract (which may be in the form of a Purchase Order) on terms acceptable to GWA which shall commence upon vendor's acknowledged receipt of a Notice to Proceed from GWA. The initial term of the contract is three (3) years with two (2) one year options to renew, subject to availability of funds and agreement between the parties.

Concurred and accepted by the committee members:

Ron Topasna, Water Plant Superintendent

Karen Cheryl O. Grape, Management Analyst III, Operations

Peter Salas, Buyer II, Procurement

Your approval is greatly appreciated. Aptonio Camacho

Ref: IFB 2015-08 Submersible Cables/Booster Pump/Temperature Sensor

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

[CONCURRED] UNCONCURRED VINCENT ED. GUERRERO, SMA

[] APPROVED [] DISAPPROVED GREG P. CRUZ, ACTING GENERAL MANGER

				Guam Waterworks Authority	
	fac	simile transmi	ttal		
				EXHI	BIT
	То:	Guam Pacific Enterprises	Fax:	649-6988	
		Inc.	PH:	649-6997	
		Attn: Sedfrey			
	From:	Tony Camacho	Date:	December 10, 2015	
1.4	S.S.	300-6Q30 (PH)		••••	•
- Ye	Re:	Notice of Conditional Award	Pages	s: 3	
5	CC:				
	xx Urge	ent 🛛 For Review 🗆 Please	Comme		ease ;ycle

Good afternoon Sedfrey,

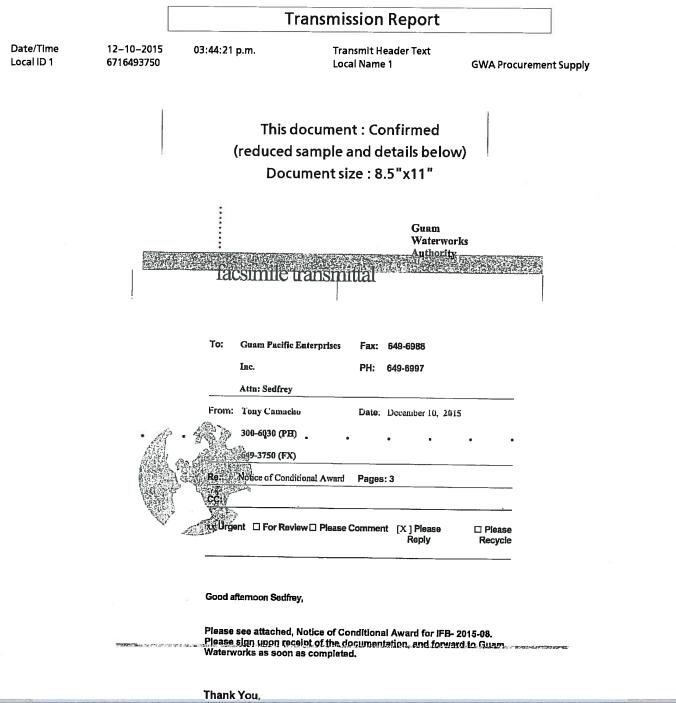
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Please see attached, Notice of Conditional Award for IFB- 2015-08. Please sign upon receipt of the documentation, and forward to Guam Waterworks as soon as completed.

Thank You, Antonio C. Camacho



Antonio C. Camacho

Total Pages Scanned : 3

Total Pages Confirmed : 3

No.	dot	Remote Station	Start Tim	ne	Duration	Pages	Line	Mode	Job Type	Results
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Abbre	viations:									
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HR:	Host receive
WS:	Waiting send

PL: Polled local PR: Polled remote MS: Mallbox save MP: Mailbox pri RP: Report FF: Fax Forward CP: CompletedTS: TeriFA: FailG3: GroTU: Terminated by userEC: Erro

TS: Terminated by system G3: Group 3 EC: Error Correct



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

NOTICE OF CONDITIONAL AWARD

Date: December 07, 2015

Guam Pacific Enterprises Inc. P.O. Box 23128 GMF, Guam 96921 Phone: 649-6997 Fax: 649-6988

Re: Invitation for Bid Number: IFB 2015-08 Submersible Cables/Booster Pump/ Temperature Sensor

Hafa Adai,

The Guam Waterworks Authority ("GWA") has considered the bid submitted by- Guam Pacific Enterprises Inc. for the above described reference in response to its Advertisement for Bids dated **August 27, 2015** and you are hereby notified that the submitted bid cost for Item No. 1.0, Temperature Sensor 6", Item No. 1.1, Temperature Sensor 8", Item No. 3.0 Submersible Electrical Cable 10,000 feet, Item No. 3.1, Submersible Electrical Cable 4,000 feet, Item No. 3.2, Submersible Electrical Cable, 3,000 feet has been accepted by GWA. Please be advised that you must now deliver all other documents required by the bid, including, but not limited to, proof of insurance and the Performance and Payment Bond (which must remain in full force and effect until all performance has ended, which includes all warranty periods).

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

Please note this Notice of Award is conditional on obtaining the approval of the Guam Consolidated Commission on Utilities for any award over \$250,000 and the approval of the Guam Public Utilities Commission where the total value over the life of the contract could exceed \$1M. Also, award is conditional upon providing any documents such as proof of licensure, proof of insurance or other documents required to be submitted to GWA under the Bid or Guam law.

/

Ref: IFB 2015-08 Submersible Cables / Booster Pump / Temperature Sensor

You are required to return an acknowledged copy of this Conditional Notice of Award to the

Procurement & Supply Administrator.

Sincerely, Greg P. Cruz Acting General Manager

ACCEPTANCE OF CONDITIONAL NOTICE OF AWARD

Receipt of the above Notice of Conditional Award for GWA IFB No. 2015-08 is hereby acknowledged

By:____

Signature

Title:_____

(please print)

Dated this _____ day of ______, 2015.

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

DEC-10-2015 16	5:26 From:GPE INC	6496988	To:6716493750	P.1/1
6716493750	GWA Procurement Supply		03:44:12 p.m. 12-10-2015	3 /3

Ref. IFB 2015-08 Submersible Cables / Booster Pump / Temperature Sensor

You are required to return an acknowledged copy of this Conditional Notice of Award to the

Procurement & Supply Administrator.

Sincerely,

Gree P. Cruz

Acting General Manager

ACCEPTANCE OF CONDITIONAL NOTICE OF AWARD

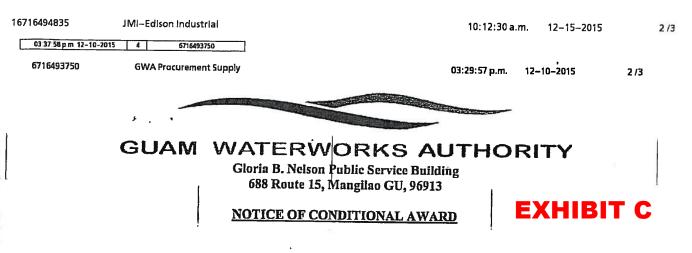
Receipt of the above Notice of Conditional Award for GWA IFB No. 2015-08 is hereby acknowledged

z- — Z Signature By

- Title: <u>President</u> (please print)

Dated this] day of , 2015.

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



Date: December 07, 2015

JMI-Edison P.O Box 6577 Tamuning, Guam 96931 Plione: 646-6400 Fax: 649-4835

Re: Invitation for Bid Number: IFB 2015-08 Submersible Cables/Booster Pump/ Temperature Sensor

Hafa Adai,

The Guam Waterworks Authority ("GWA") has considered the bid submitted by- JMI-Edison for the above described reference in response to its Advertisement for Bids dated August 27, 2015 and you are hereby notified that the submitted bid cost for Item No. 2.0, Booster Pump and Motors (Grundfos) has been accepted by GWA. Please be advised that you must now deliver all other documents required by the bid, including, but not limited to, proof of insurance and the Performance and Payment Bond (which must remain in full force and effect until all performance has ended, which includes all warranty periods).

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

Please note this Notice of Award is conditional on obtaining the approval of the Guam Consolidated Commission on Utilities for any award over \$250,000 and the approval of the Guam Public Utilities Commission where the total value over the life of the contract could exceed \$1M. Also, award is conditional upon providing any documents such as proof of licensure, proof of insurance or other documents required to be submitted to GWA under the Bid or Guam law.

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16716494835	JMI-Edison industrial	10:12:50 a.m. 12–15–2015	3 /3
03 37 58 p.m. 12-10-2015	5 6716493750		
6716493750	GWA Procurement Supply	03:30:40 p.m. 12–10–2015	3 /3

Ref. IFB 2015-08 Submersible Cables / Booster Pump / Temperature Sensor

You are required to return an acknowledged copy of this Conditional Notice of Award to the

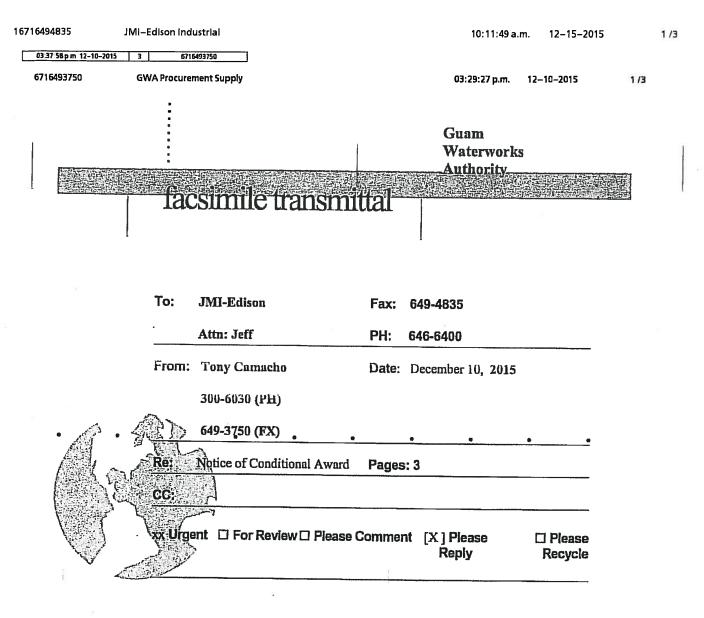
Procurement & Supply Administrator.

Sincerely, Greg P. Cruz

Acting General Manager

ACCEPTANCE OF CONDITIONAL NOTICE OF AWARD	
Receipt of the above Notice of Conditional Award for GWA IFB No. 2015-08 is hereby acknowledged By: Jeffrey Brests Title; Operations Manager	ſ
Signature (please print)	
Dated this <u>10th</u> day of <u>pecember</u> , 2015.	

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



Good afternoon Jeff,

Please see attached, Notice of Conditional Award for IFB- 2015-08. Please sign upon receipt of the documentation, and forward to Guam Waterworks as soon as completed.

Thank You, Antonio C. Camacho JAN-04-2016 13:20 From:GPE INC

6496988

P.1/2

GWA Procurement Supply 12:01:31 p.m. 01-04-2016 1/2

GUAM WATERWORKS AUTHORITY

"Better Water. Better Lives." Gloria B. Nelson Public Services Building 688 Route 15, Mangilao, Guam 96913 Tel: (671) 300-6026/27 Fax: (671) 649-3750

JAN 0 4 2018

To:6716493750

NOTICE TO PROCEED

Mr. Sedfrey Linsangan P.O. Box 23128 GMF, Guam 96921

Telephone: 649-6994/6997 Facsimile: 649-6988

Project No: GWA IFB 2015-08 Project Name: Cables, Submersible Pumps/Temperature Sensors

Dear Mr. Linsangan

You are hereby notified to commence work in accordance with the contract dated 10^{12} day of <u>December 2015</u>. This letter constitutes your official Notice to Proceed (NTP) for the above referenced bid.

Sincerely

Vince Guerrero, CPM Supply Management Adm.

JAN-04-2016 13:20 From:GPE INC		6496988	To:6716493750	P.2/2
6716493750	GWA Procurement Supply		12:01:44 p.m. 01–04–2016	2 /2

- <u>-</u> - - - -

Ref: GIFA IFR 2015-08 Cables, Booster Promps & Temperature Sensors

ACCEPTANCE OF NOTICE

Receipt of the above Notice to Proceed is hereby acknowledged this <u>444</u> day of <u>January</u> 2016.

Contractor:	GPE INC.	
Print Name & Title:	Sedfrey MLINsangan	President
Signature:	<u> </u>	

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GUAM WATERWORKS AUTHORITY

"Better Water. Better Lives." Gloria B. Nelson Public Services Building 688 Route 15, Mangilao, Guam 96913 Tel: (671) 300-6026/27 Fax: (671) 649-3750

JAN 0 4 2016

NOTICE TO PROCEED

EXHIBIT E

Mr. Jeff Paeste P.O. Box 6577 Tamuning, Guam 96931

Telephone: 646-6400 Facsimile: 649-4835

Project No:GWA IFB 2015-08Project Name:Cables/Booster Pumps/Temperature Sensors

Dear Paeste,

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You are hereby notified to commence work in accordance with the contract dated <u>10th</u> day of <u>December 2015</u>. This letter constitutes your official Notice to Proceed (NTP) for the above referenced bid.

Sincerely,

Vince Guerrero, CPM Supply Management Adm. Ref: GWA IFB 2015-08 Cables, Booster Pumps & Temperature Sensors

87. 12 8 27.5

ACCEPTANCE OF NOTICE

Receipt of the above and a second sec	ve Notice to Proceed is hereby acknowledged this day of
Contractor:	JMI Edison
Print Name & Title:	JEPF RAPESTE Operations Manager
Signature:	Atosh



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EXHIBIT F - 1

GUAM PACIFIC ENTERPRISE

Estimated Purchase Qua	antity and Cost for 2 Year Co	ontract Rer		
			2 Year	
Guam Pacific Enterprise	Description	Unit Cost	Est Qty	Est 2 year Cost
	Submersible Electrical Cable			
	#2/0 AWG CU, 4 Wire			
	(Note: to be used on			
	125/150 HP			
3.1	Submersible Motors)	\$26.59	8000	\$212,720.00
	Submersible Electrical Cable			
	#4 AWG CU, 4 Wire			
	(Note: to be used on			
	50/60 HP			
3.2	Submersible Motors)	\$11.21	8000	\$89,680.00
	Submersible Electrical Cable			
	#1 AWG CU, 4 Wire			
	(Note: to be used on			
	75/100 HP			
3.3	Submersible Motors)	\$22.22	8000	\$177,760.00
Guam Pacific Enterprise 2 Year Estimated Cost				\$480,160.00
Contingency 10%				\$48,016.00
Total Requested Funding			\$528,176.00	

Estimated Purchase Quantity and Cost for 2 Year Contract Renewal

Guam Pacific Enterprise IFB 2015-08 Date Acknowledgements

IFB 2015-08	Guam Pacific Enterprise
Notice of Conditional Award	Dec 15, 2015
Notice to Proceed	Jan 4, 2016
3 Year Contract	Jan 4, 2019
2 Year Contract Renewal	Jan 29, 2019

Resolution No. 21 - FY 2019



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EXHIBIT F - 2

JMI EDISON

Estimated Purchase Quantity and Cost for 2 Year Contract Renewal

			2 Year	
JMI Edison	JMI Edison	Unit Cost	Est Qty	Est 2 year Cost
2.0	2HP BPM	\$ 1,409.30	80	\$112,744.00
Contingency 10 %				\$11,274.40
Total Requested Funding				\$124,018.40

JMI - Edison IFB 2015-08 Date Acknowledgements

IFB 2015-08	JMI Edison
Notice of Conditional Award	Dec. 15, 2015
Notice to Proceed	Jan. 4, 2016
3 Year Contract	Jan 4, 2019
2 Year Contract Renewal	Jan 29, 2019

Resolution No. 21 - FY 2019



"Better Water. Better Lives." Gloria B. Nelson Public Services Building 688 Route 15, Mangilao, Guam 96913 Tel: (671) 300-6027 Fax: (671) 649-3750

EXHIBIT G

Guam Pacific Enterprises P.O. Box 23128 Tamuning, Guam 96931 GMF, Guam 96921 Ph: 649-6994/6997 Fax: 649-6988

Project No: GWA IFB 2015-08 Project Name: Cable/Booster Pumps/Temperature Sensors Ref: Contract Renewal FY 2019

Hafa Adai Mr. Linsangan,

We would like to inform you IFB 2015-08 Cable/Booster Pumps/Temperature Sensors bid contract is up for renewal. As stated on the bid under Contract Term: The initial term of the contract is three (3) years with two (2) one-year options to renew, subject to availability of funds and agreement between the parties.

If GPE agrees to renew this contract, please acknowledge by signing below;

1/29/19 Date:

Sedfrey Linsangan, President.

Your response on this matter will be greatly appreciated

Sincerely,

Vince Guerrero, CPM Supply Management Administrator



GUAM WATERWORKS AUTHORITY

"Better Water. Better Lives." Gloria B. Nelson Public Services Building 688 Route 15, Mangilao, Guam 96913 Tel: (671) 300-6027 Fax: (671) 649-3750

EXHIBIT H

JMI Edison 125 North Marine Drive P.O. Box 6577 Tamuning, Guam 96931 Ph: 646-6400 Fax: 649-4835

Project No:GWA IFB 2015-08Project Name:Cable/Booster Pumps/Temperature SensorsRef:Contract Renewal FY 2019

Hafa Adai Mr. Oriondo,

We would like to inform you IFB 2015-08 Cable/Booster Pumps/Temperature Sensors bid contract is up for renewal. As stated on the bid under Contract Term: The initial term of the contract is three (3) years with two (2) one-year options to renew, subject to availability of funds and agreement between the parties.

If JMI Edison agrees to renew this contract, please acknowledge by signing below;

Romeo Oriondo, Operations Manager.

Date: 17-9/19

Your response on this matter will be greatly appreciated

Sincerely b

Vince Guerrero, CPM Supply Management Administrator



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Issues for Decision

Resolution No. 22-FY2019

Relative to Approval of Fund Increase to the Agat/Santa Rita Wastewater Treatment Plant Construction Project

What is the projects objective and is it necessary and urgent?

GWA has executed multiple Change Orders to the project's scope of work (SOW) and anticipates additional Change Order(s) to address necessary improvements, including enhancements to the main electrical service, additional paving to the existing entrance road, and other miscellaneous modifications recommended by GWA Operations, will be required. GWA management is seeking CCU approval to increase the funding authorization for the project.

Where is it at?

The construction activities are located in the Village of Agat across from the Navy Camp Covington.

How much will it cost?

The funding authorization will increase an additional Five Hundred Forty Thousand Dollars (\$540,000.00) to bring the total authorized funding to Fifty-Nine Million Five Hundred Fifty Thousand Dollars (\$59,550,000.00)

When will it be completed?

GWA expects the contractor to be completed with all work by June 2019.

What is the funding source?

The funding for this project will be from the Bond Funds under the line items CIP WW 11-08 "Agat/Santa Rita STP Replacement", System Development Charges and Internally Funded CIP, where applicable.



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

RESOLUTION NO. 22–FY2019

RELATIVE TO APPROVAL OF FUND INCREASE TO THE AGAT/SANTA RITA WASTEWATER TREATMENT PLANT CONSTRUCTION PROJECT

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

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

WHEREAS, GWA currently has a number of critical Court Order ("CO") projects including a complete evaluation of the Agat Santa Rita WWTP to determine what improvements are necessary at the plant to achieve compliance with the WWTP's NDPES permit and eliminate by-passes at the plant, as stated in Paragraph 10 of the 2011 Court Order; and

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WHEREAS, the system evaluation report prepared in December of 2013 by EA 20 Engineering, a sub-consultant to GWA's Program Management Office, resulted in a recommendation to GWA and the USEPA that the existing Agat Santa Rita WWTP needs to be replaced; and

WHEREAS, in March of 2014 GWA began the procurement process to find a consulting engineering team to design the new WWTP and via Resolution 34-FY14, approved by the CCU in August of 2014, GWA management was authorized to enter into a contract with Duenas Camacho and Associates to design the new wastewater treatment plant on property already designated for WWTP use and located adjacent to the Tipalao Sewer Pump Station; and

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WHEREAS, GWA has determined that the most expedient process to meeting the Court Order Paragraph 11 deadline of December 31, 2016 was to break the construction activities into

two phases with Phase I for Clearing and Grading and Phase II for all vertical and plant process
 construction; and

WHEREAS, GWA management obtained CCU and PUC approval via Resolution 28-FY15 and PUC Order 15-06, respectively, to reallocate 2013 bonds proceeds in the amount of \$48,200,000.00 to the CIP line Item WW 11-08 "Agat/Santa Rita STP Replacement" as means of ensuring GWA will have sufficient funding to enter into a contract with the lowest responsible and responsive bidder for the Phase II construction project; and

WHEREAS, Resolution 10-FY2016 was approved by the CCU on December 10, 2015, which authorizes a funding total in an amount not to exceed Fifty-Nine Million Ten Thousand Dollars (\$59,010,000); and

WHEREAS, GWA executed the construction contract with SMCC on January 8, 2016, as GWA Project No. S14-007-BND, in the amount of Fifty-Six Million Two Hundred Thousand Dollars (\$56,200,000); and

WHEREAS, GWA has executed multiple Change Orders to the project's scope of work (SOW) which has increased the construction contract value to Fifty-Eight Million Two Hundred Ninety-Three Thousand Seven Hundred Ninety-Two Dollars and Eighty-Three Cents (\$58,293,792.83); and

WHEREAS, GWA anticipates further change orders will be forthcoming to address a variety of construction issues, including additional paving, electrical system enhancements, and miscellaneous modifications, and as such GWA management seeks CCU approval to increase the funding authority an additional Five Hundred Forty Thousand Dollars (\$540,000.00) to bring the total funding authorization to Fifty-Nine Million Five Hundred Fifty Thousand Dollars (\$59,550,000); and

WHEREAS, funding for this project will be from the Bond Funds under the line items CIP WW 11-08 "Agat/Santa Rita STP Replacement", System Development Charges, Internally Funded CIP, if applicable; and

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2	NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities
3	does hereby approve the following:
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5	1. The recitals set forth above hereby constitute the findings of the CCU.
6	2. The CCU finds that the terms of the conditions set by GWA relative to
7	commencement of work activities are fair and reasonable and serve as a
8	measure of Quality Assurance/Quality Control (QA/QC).
9	3. The CCU hereby approves the increase in funding authorization an additional
10	Five Hundred Forty Thousand Dollars (\$540,000.00) to bring the total authorized funding for the project to Fifty-Nine Million Five Hundred Fifty
11	Thousand Dollars (\$59,550,000).
12	 The CCU hereby further approves funding for this project to be from the Bond
13	Funds under the line items CIP WW 11-08, System Development Charges
14 15	and Internally Funded CIP, if applicable.
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17	RESOLVED , that the Chairman certified and the Board Secretary attests to the adoption
18	of this Resolution.
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20	DULY AND REGULARLY ADOPTED , this 25 th day of April 2019.
21	
22	Certified by: Attested by:
23	
24	JOSEPH T. DUENAS MICHAEL T. LIMTIACO
25	Chairperson Secretary
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SECRETARY'S CERTIFICATE

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

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

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GUAM WATERWORKS AUTHORITY "Better Water, Better Lives." Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913 Tel: (671) 300-6846

Issues for Decision

Resolution No. 23- FY2019

Relative to Approval of Change Order No. 8 for Agat-Santa Rita Wastewater Treatment Plant Upgrade Construction Management Contract

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

The construction management change order(s) for CM services will allow for a continuity of services as it relates to any construction extension at the new Agat-Santa Rita WWTP Upgrades project due to delays in construction completion. The construction contractor, Sumitomo Mitsui Construction Company (SMCC), now projects that project completion will be at the end of June 2019.

Currently the remaining major items to be completed are the equalization basin and maintenance building.

Where is the location?

The project location is at the New Agat Santa Rita Wastewater Treatment Plant in Agat.

How much will it cost?

The fees for CM services is approximately One Hundred Twenty-Five Thousand Dollars (\$125,000.00) a month, therefore GWA management is seeking approval to increase authorized funding for Two Hundred Fifty Thousand Dollars (\$250,000.00) for the months of May and June 2019.

When will it be completed?

The construction contractors latest schedule shows the project completion will be by the end of June 2019.

What is the funding source?

Funding for Change Order to GHD will be from any available bond funds under the line item - WW 11-08 "Agat/ Santa Rita STP Replacement", System Development Charge funds, Internally Funded CIP funds as well as Liquidated Damages of \$5,000 per day from the contractor beginning September 1, 2018.

The RFP/BID responses (if applicable):

Not Applicable.



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RESOLUTION NO. 23-FY2019

RELATIVE TO APPROVAL OF CHANGE ORDER NO. 8 FOR THE AGAT SANTA RITA WASTEWATER TREATMENT PLANT UPGRADE CONSTRUCTION MANAGEMENTCONTRACT

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

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

16 WHEREAS, GWA currently has a number of critical Court Order ("CO") projects including work required at the Agat Santa Rita Wastewater Treatment Plant that is necessary for 18 the plant to achieve compliance with the WWTP's NDPES permit, eliminate by-passes at the plant, ensure that solids generated by the WWTP are adequately stabilized and dewatered, and to comply with sludge and biosolids requirements 40 C.F.R. Part 503 as stated in Paragraph 11 of the 2011 Court Order; and

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WHEREAS, GWA executed contracts with Sumitomo Mitsui Construction Company (SMCC) to construct the new WWTP and with GHD, Inc. to provide construction management services; and

WHEREAS, the construction activities have been delayed and completion of all construction activities by SMCC is now expected to extend through June 2019; and

WHEREAS, the CM Services have been extended only through April 30, 2019, as per Change Order No. 7 which was authorized via Resolution No. 17-FY2018, and

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WHEREAS, with the new anticipated construction completion moving to the end of June 2019 GWA estimates additional CM services being provided on a time & material basis would not exceed One Hundred Twenty-Five Thousand Dollars (\$125,000.00) per month, based on scope and effort estimates which GWA is currently finalizing with GHD; and

WHEREAS, GWA management seeks CCU approval to increase the funding authorization an additional amount not to exceed Two Hundred Fifty Thousand Dollars (\$250,000) to compensate GHD for CM services through June 30, 2019; and

WHEREAS, approval of the funding authorization increase and subsequent Change Order will result in a total contract amount for CM services to be Six Million Three Hundred Fifty Thousand Eight Hundred Ten Dollars (\$6,350,810.00); and

WHEREAS, funding for this project will be from the bond funds under the line item -WW 11-08 "Agat/ Sta Rita STP Replacement", System Development Charges, Internally Funded CIP, as well as Liquidated Damages of \$5,000 per day from the contractor beginning September 15, 2018, where applicable; and

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU finds that the terms of the conditions set by GWA relative to commencement of subsequent work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- 3. The CCU hereby approves an increased funding authorization to an amount not to exceed of Two Hundred Fifty Thousand Dollars (\$250,000).
- 4. The CCU hereby further approves GWA management execute a Change Order with GHD for additional CM services to bring the total contract amount to Six Million Three Hundred Fifty Thousand Eight Hundred Ten Dollars (\$6,350,810.00).

	GWA Work Session - April 16, 2019 - ISSUES FOR DECISION
1 2 3 4 5	 The source of funding for the additional CM services will be from the bond funds under the line item - WW 11-08 "Agat/ Sta Rita STP Replacement", System Development Charges, Internally Funded CIP, as well as Liquidated Damages of \$5,000 per day from the contractor beginning September 15, 2018.
6 7 8 9	RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption of this Resolution.
10	DULY AND REGULARLY ADOPTED , this 25 th day of April, 2019.
11 12	Certified by: Attested by:
13 14	
15 16	JOSEPH T. DUENAS ChairpersonMICHAEL T. LIMTIACO Secretary
17 18	SECRETARY'S CERTIFICATE
19 20	I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:
21 22 23 24	The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:
25	AYES:
26 27	NAYS:
28	ABSTENTIONS:
29 30	ABSENT:
31 32	///
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GUAM WATERWORKS AUTHORITY "Better Water, Better Lives." Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913 Tel: (671) 300-6846

Issues for Decision

Resolution 26-FY2019

Relative to Approval of Change Oder No. 2 for Asan Springs Rehabilitation Project

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

The objective of the change order is to authorize additional design and environmental services that are necessary for GWA to complete our on-going project to improve water distribution system functionality and reliability for areas serviced by Asan Springs. The project's design scope is on-going, however, following the discovery that about one-third of the facility sits on property owned by the National Park Service, a more detailed condition assessment of the site and discussion with federal agencies, have revealed that additional environmental assessment and biological investigation are required to determine the environmental impact of the project. This will include a biological surveys and investigations to determine the presence of any endangered species or their habitats exist on the site. These environmental requirements have increased due in part to the use of federal lands on the project, making the additional work necessary for the construction of the project.

Due to the size and complexity of the project, GWA finds that it is in the best interest of the Authority to have the current engineering consultant conduct the additional work so as to expedite the design package preparation. Having the current consultant handle the additional work also flattens the learning curve, given the design consultant is already are familiar with the site, entities involved and the system improvement needs.

How much will it cost?

The proposal is still being negotiated but Management estimates the cost for the additional design services not to exceed the latest proposal of Three Hundred Eighty-Two Thousand Five Hundred Ninety-Five Dollars (\$382,595.00).

When will it be completed?

The design schedule will extend to October 2019, however, there are potential land acquisition issues for the site thus additional time may be needed. GWA will not know until the property conflicts are resolved.

What is the funding source?

The source of funding will be from Bond Funds under CIP line item PW 05-15.



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23 24 CONSOLIDATED COMMISSION ON UTILITIES Guam Power Authority | Guam Waterworks Authority P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

RESOLUTION NO. 26-FY2019

RELATIVE TO APPROVAL OF CHANGE ORDER NO. 2 FOR ASAN SPRINGS WATER SUPPLY FACILITIES

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

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

WHEREAS, GWA is currently working to revitalize the Asan Springs facility to distribute the source water to the surrounding customers; and to reduce or eliminate the water purchased from the Navy; and

WHEREAS, the CCU has approved Resolution No. 46-FY2016 in July 2016 that authorizes GWA to enter into contract with HDR for design services related to Asan Springs Rehabilitation project for an amount of Three Hundred Seventy-Four Thousand Four Hundred Seventy Dollars (\$374,470.00); and

WHEREAS, the CCU also approved a ten percent (10%) contingency of Thirty-Seven 25 Thousand Four Hundred Forty-Seven Dollars (\$37,447.00) to bring the total authorized funding 26 amount to Four Hundred Eleven Thousand Nine Hundred Seventeen Dollars (\$411,917.00) for 28 the design services; and

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WHEREAS, the design services HDR is already required to perform for Asan Springs Rehabilitation includes:

(1) site investigations, and system evaluations of the existing Asan Springs Water Facility, and

(2) development of design plans and specifications for repairing historical damage to a 100,000-gallon spring water impoundment, booster station upgrades, instrumentation and control upgrades, control valve upgrades, pipe upgrades, installation of new disinfection equipment and other general site and system upgrades; and

WHEREAS, GWA issued Change Order No. 1 to HDR in January 2019 in the amount of Thirty-Five Thousand Five Hundred Ninety-Nine Dollars (\$35,599.00) for additional services required for land acquisition and federal permitting needs in which the total value of the Contract was increased to Four Hundred Ten Thousand Sixty-Nine Dollars (\$410,069.00); and

WHEREAS, GWA engineering has further determined, through the course of the design work with the engineering consultant, that additional water distribution system improvements associated with the work noted above require increased detailed design as well as additional environmental work needed to address NEPA requirements due to federal property ownership, thus expanding the designer's scope of work; and

WHEREAS, GWA management finds that the design of the necessary water distribution system improvements and related environmental work would be best handled by the current design consultant given the alternative solutions were provided by them; and

WHEREAS GWA management expects the final design to be completed expeditiously and that savings in consulting costs would be realized in using the existing consultant, as opposed to issuing a whole new Request for Proposal for the necessary design and consulting work; and

WHEREAS, GWA is requesting for additional environmental and design work which includes the following:

- (1) a National Environmental Policy Act (NEPA) Environmental Assessment with associated planning and agency coordination,
- (2) additional coordination with USACE to confirm that no Clean Water Act Section 404 permitting is required,

- (3) additional documentation and coordination for compliance with the Coastal Zone Management Act,
- (4) federal biological resources investigation and biological assessment of the site to address the possibility of newly listed endangered species being present on the Asan Springs site and assess the potential impacts to those species,
- (5) and possible translocation and monitoring of the endangered species, should any be found

WHEREAS, GWA engineering and HDR are in negotiations for the price for the services to be provided, and the current proposal is in the amount of Three Hundred Eighty-Two Thousand Five Hundred Ninety-Five Dollars (\$382,595.00) (Exhibit A – Scope of Work and Fees); and

WHEREAS, GWA Management is seeking CCU approval of a not-to-exceed amount as outlined in the current fee proposal relative to Change Order No. 2 in the amount of Three Hundred Eighty-Two Thousand Five Hundred Ninety-Five Dollars (\$382,595.00) to fund the additional design and environmental services; and

WHEREAS, GWA Management further seeks CCU approval of the total fund authorization for the design contract with HDR for a not-to-exceed amount of Seven Hundred Ninety-Four Thousand Five Hundred Twelve Dollars (\$794,512.00); and

WHEREAS, funding for this project will be from 2010 Bond Funds under CIP line item PW 05-15 Rehabilitation of Asan Springs; and

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU finds that the terms of the fee proposal submitted by HDR are fair and reasonable.

1	3. The CCU finds that the terms of the conditions set by GWA relative to the
2	commencement of subsequent work activities are fair and reasonable and
3	serve as a measure of Quality Assurance/Quality Control (QA/QC).
4	4. The CCU hereby authorizes GWA management to execute a Change Order with
5	HDR (Exhibit A) in the amount of Three Hundred Eighty-Two Thousand Five
6	Hundred Ninety-Five Dollars (\$382,595.00).
7	5. The CCU hereby further approves the funding authorization to an amount of
8	Seven Hundred Ninety-Four Thousand Five Hundred Twelve Dollars
9	(\$794,512.00).
10	6. The CCU hereby further approves the funding will be Bond Funds under the
11	CIP line items PW 05-15 "Rehabilitation of Asan Springs".
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13	RESOLVED , that the Chairman certified and the Board Secretary attests to the adoption
14	of this Resolution.
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16	DULY AND REGULARLY ADOPTED , this 25 th day of April 2019.
17	
18	Certified by: Attested by:
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22	JOSEPH T. DUENAS MICHAEL T. LIMTIACO Chairperson Secretary
23	Secretary
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	GWA Work Session - April 16, 2019 - ISSUES FOR DECISION
1	SECRETARY'S CERTIFICATE
2	I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as
3	evidenced by my signature above do hereby certify as follows:
4	The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular
5	meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was
6	present and the members who were present voted as follows:
7	AYES:
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10	ABSTENTIONS:
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Exhibit A

February 1, 2019

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

SUBJECT: Engineering Design Services – Change Order #2-Revised, Asan Springs Rehabilitation Project RFP-11-ENG-2015, GWA Project No. W11-003-BND

Dear Mr. Railey,

HDR appreciates the opportunity that we have had to provide design services in relation to this project. As our work has progressed and continues to progress, we have identified areas that have exceeded what our original scope of work and proposal fee had included. We have detailed these below:

Task 5 – Detailed Design

a. The original scope of work was prepared based upon our initial review of the site and anticipated effort prior to conducting any detailed condition assessment of the site. In our initial estimate for the construction drawings, we had estimated approximately 25 sheets to be prepared by HDR, which included a combination of general information, process flow, civil, minor structural, electrical and instrumentation sheets. Additionally, approximately 4 sheets were planned to be produced by our subconsultant, Coffman Engineers, for the mechanical design for the project to bring a total sheet count to approximately 30 sheets.

The design has resulted in our total sheet count to increase by approximately 28 sheets for a total sheet count of 58 sheets, excluding sheets that were prepared in association with the new chlorination building. These new sheets have included additional sheets needed for the drainage, concrete ditch, additional structural sheets needed for the impoundment repairs after a structural investigation was performed on the interior and exterior of the structure, additional electrical/instrumentation for the chlorination building and SCADA requirements, and lastly additional detail sheets.

hdrinc.com

134 W Soledad AvenueSuite 404Hagåtña, GU 96910-5079 (671) 989-5558

Total Task 5a Additional Fee: \$83,555 (Excluding GRT)

New Task 8 – Environmental Services

Subtask 8.1 – National Environmental Policy Act (NEPA) – Environmental Assessment

It is anticipate that a categorical exclusion is not the appropriate level of NEPA for construction activity associated with restoring the Asan Springs Water Supply Facility (ASWSF) to full production capacity. Therefore, HDR believes that an Environmental Assessment (EA) is the appropriate level of impact assessment for this project. It is anticipated that the National Park Service (NPS) will be identified as the lead federal agency for preparing this document, therefore the remaining scope is prepared with the assumption that NPS is the lead federal agency and all work products will be developed under the supervision of NPS.

HDR will develop an EA in compliance with the Council on Environmental Quality (CEQ) regulations implementing the National Environmental Policy Act (NEPA) at 40 CFR 1500-1508, the NPS NEPA compliance guidance handbook (Director's Order [DO]-12, *Conservation Planning, Environmental Impact Analysis, and Decision-making*), and the recent Department of Interior (DOI) Secretarial Order regarding streamlining NEPA (SO 3355).

This task will include conducting the following:

Subtask 8.1a – Planning and Agency Coordination

• HDR will begin the development of the EA by setting up an Administrative Record (AR) with an index system from the outset. In keeping with NEPA's implementing regulations, the AR will consist of any documents and materials that will directly or indirectly be considered by the NPS, regardless of whether such documents or materials are supportive or contrary to the final agency action. HDR will prepare the AR in accordance with Federal Administrative Record Guidelines. We have developed a system for receiving, organizing, archiving, and making all Administrative Record documents available to the entire project team - including HDR and client team members - using SharePoint sites. All electronic Administrative Record documents and an updated index would be accessible to NPS throughout the duration of the project.

Subtask 8.1b – Kickoff Meeting and Scoping

- Following the implementation of this change order, HDR's NEPA Project Manager will collaboratively facilitate and organize the project kick-off meeting. Inclusion of all major involved resource leads in the kick-off meeting would allow consensus and confirmation of the roles and responsibilities of each party; early identification and understanding of critical points in the process ahead, and establishment of communication and work flow protocols would facilitate efficiency and collaboration throughout the remainder of the NEPA process.
- HDR's NEPA Project Manager will also refine the project schedule and internally distribute the document template and guidelines. HDR will utilize existing data, whenever available, to develop the associated EA in accordance with NPS policies. HDR will work with NPS to define the Purpose and Need and Description of the Proposed Action. In coordination with NPS and as part of the scoping process, we will determine which environmental resource topics should be included for detailed analysis and which should be dismissed from further consideration in the EA to ensure a streamlined and focused document. Key resource areas anticipated for consideration in the EA include water, soils, vegetation, wildlife, noise, land use, cultural resources, aesthetics, park operations, and socioeconomics.
- Our environmental resource leads will identify and analyze the environmental impacts of the proposed action and no action alternative. This may include, but not necessarily be limited to: conducting literature searches; preparing graphs, maps, charts and tables; calculating; interviewing experts; and documenting such research, analyses, or use of professional judgment in the absence of preexisting information. We will utilize GIS for any needed data analysis and mapping. GIS data will be compiled from existing sources. If available, aerial photography will be used as a backdrop for much of the GIS in the desktop evaluation and in maps and figures. Data deliverables will comply with the standards established by the Spatial Data Standards for Facilities, Infrastructure, and Environment, as well as a Federal Geographic Data Committee, and other data standards as needed.

Subtask 8.1c – NEPA Preliminary Draft EA

Prepare a preliminary draft EA analyzing the proposed action and no action alternative.

Subtask 8.1d – NEPA Draft EA

• Prepare a public draft EA after receiving and addressing comments from both GWA and the National Park Service.

• Conduct the required 30 day public review of the draft EA.

Subtask 8.1e – NEPA Final EA

 Prepare a final EA after receiving and addressing public comments. HDR will also prepare a draft Findings of No Significant Impacts (FONSI), if determined to be appropriate.

Deliverables:

- One (1) Electronic copy of kickoff meeting materials and minutes.
- One (1) Electronic copy of mailing list
- One (1) Electronic copy of scoping notices and stakeholder letters
- Two (2) Scoping Notice Placements in local newspapers or record and mailing of letters
- One (1) Electronic copy of scoping report
- Two (2) Hard copies and electronic copies of Preliminary Draft EA to GWA and NPS.
- Two (2) Electronic copies of Draft EA to GWA and NPS.
- Six (6) Hard copies, six (6) electronic copies of Draft EA to repositories.
- One (1) Electronic copy of notice of availability and stakeholder letters
- Two (2) Notice of Availability placed in local newspaper of record and mailing of letters
- One (1) Electronic copy of public comment report
- Two (2) Hard copies and two (2) electronic copies of Final EA to GWA and NPS each.
- One (1) Electronic copy of Administrative Record.

Total Task 8.1a Additional Fee: \$15,100 (Excluding GRT)

Total Task 8.1b Additional Fee: \$23,080 (Excluding GRT)

Total Task 8.1c Additional Fee: \$49,355 (Excluding GRT)

Total Task 8.1d Additional Fee: \$29,755 (Excluding GRT)

Total Task 8.1e Additional Fee: \$29,955 (Excluding GRT)

Subtask 8.2 - Clean Water Act 404 Permitting

- United State Army Corps of Engineers (USACE) has made a preliminary determination that the existing site is part of the Waters of the Territory and under USACE jurisdiction, however, there are no anticipated activities that will be placing fill or dredged material within the Waters of the Territory. Because of this, no Individual Permit or Nationwide Permit Applications are required.
- HDR proposes to prepare a letter to USACE outlining the basis for why no CWA Section 404 permit is required and requesting that USACE provide GWA a "No permit required" letter in response. This letter will involve listing out in detail the individual construction activities that will occur on the site.
- This task also includes additional coordination, as required, with USACE.

Deliverable: One (1) hard copy and one (1) electronic copy of the letter.

Total Task 8.2 Additional Fee: \$2,850 (Excluding GRT)

Subtask 8.3 – Bureau of Statistics and Plans – Guam Coastal Management Program - Federal Consistency Permit

In compliance with the Coastal Zone Management Act, any project that affects any land use, water use or natural resource of the coastal zone must comply with the Guam Costal Management Program. HDR will assist GWA and/or the Federal agency responsible for the submission by providing the supporting documentation and coordination, as needed.

Total Task 8.3 Additional Fee: \$9,280 (Excluding GRT)

Subtask 8.4 – Federal Biological Resources Investigation and Biological Assessment

Because of the newly listed endangered species that became effective on November 1, 2015 and the letter received by GWA on October 12, 2018, from the United States Fish and Wildlife Service (USFWS), HDR is proposing a biological resources site visit and investigation to determine the presence of any endangered species on the site or the habitat to support the endangered species.

It is highly anticipated that the endangered Partula radiolata (Guam tree snail) will be found within the affected area of the site, therefore it is anticipated that a translocation will be

required. This work has also been included within this scope, along with anticipated monitoring requirements. Final requirements will have to be determined after consultation with USFWS.

This task would include performing the following:

Subtask 8.4a – Federal Biological Resources Site Visit & Investigation

 Pre-Construction Federally Listed Snail Survey and Report – A pre-construction survey will be conducted by a USFWS approved biologist to identify if any federally listed snails are found within the project area as shown on Exhibit 1 included in this proposal. It is estimated that the fieldwork can be conducted within three (3) days. It is anticipated that USFWS will require this work to be conducted during the wet season of the year.

Subtask 8.4b – Federal Biological Resources Mapping and Biological Assessment

 Findings will be presented in a biological assessment with appropriate mapping indicating locations of any findings of federally listed species. The biological assessment will also analyze the potential impacts to any federally listed species that have the potential to occur in the project area.

Deliverable: One (1) hard copy and one (1) electronic copy of the biological assessment.

Subtask 8.4c - Federally Listed Snail Translocation

Should federally listed snails be identified within the project area, a snail translocation will be performed in coordination with the USFWS to a location approved by USFWS. The translocation assumes that no more than two (2) separate day visits will be required to locations where snails had been recorded in the project area to perform translocation and assumes that three (3) separate day visits with negative finds will be required to satisfy USFWS that all snails have been translocated. Additionally, the translocation assumes that no more than 50 listed snails are located within the project area to be relocated. It is anticipated that USFWS will require this work to be conducted during the wet season of the year.

Subtask 8.4d - Federally Listed Snail Translocation Monitoring and Final Report

 A one (1) year, bi-weekly monitoring will be conducted for snails that were translocated under Task 8.4c. A final report summarizing the results of the translocation and monitoring efforts, data sheets and geospatial data will be developed.

Deliverable: One (1) hard copy and one (1) electronic copy of the field report.

Total Task 8.4a Additional Fee: \$17,640 (Excluding GRT)

Total Task 8.4b Additional Fee: \$21,830 (Excluding GRT)

Total Task 8.4c Additional Fee: \$28,670 (Excluding GRT), as applicable

Total Task 8.4d Additional Fee: \$49,060 (Excluding GRT), as applicable

Exclusions/Assumptions:

- An EA is the appropriate level of NEPA documentation.
- NPS will be the lead federal agency.
- Only the Proposed Action and No Action Alternative will be assessed in full.
- Visual simulations will not be required as part of the scope.
- No public meetings are anticipated to be required, therefore they have been excluded from this scope.
- No cultural resource surveys are included in this scope.
- No US Archaeological Resources Protection Act (ARPA) permits are included in this scope to be prepared.
- No other environmental permits are included in this scope to be prepared.

Schedule

It is proposed that services for Task 8.1a to 8.4b will be performed over a time period not to exceed six (6) months from the receipt of this change order. Services for Task 8.4c and 8.4d are dependent on the requirements of USFWS, but are not expected to exceed twelve (12) months of monitoring with an additional one (1) month for preparation of the final monitoring report.

Compensation

It is proposed that services for Task 5 and Task 8.3a be performed on a lump sum basis and all other tasks be performed on a time and materials basis.

The table below summarizes the total change order fee for the services as outlined in Task 5 and new Tasks 8.1a through 8.4d. Since Tasks 8.4c & 8.4d are dependent on the outcome of Task 8.4a, these have been listed separately as optional additional fees as shown in the table below. All fees listed in the table are inclusive of GRT.

Total Contracted Fee (Inclusive of Change Order #1)	\$410,069
Total Change Order Fee (Task 5 & 8.4a)	\$105,412
Total Change Order Fee (Task 8.1a - 8.1e, 8.2, 8.3 & 8.4b)	\$196,213
Total Change Order Fee (Task 8.4c) (Optional)	\$29,865
Total Change Order Fee (Task 8.4d) (Optional)	\$51,104
Subtotal of Change Order #2	\$382,595
Total Revised HDR Fee	\$792,664

A summary of the change order fee in the requested GWA format is attached to this letter.

Sincerely, HDR Engineering, Inc.

Clifford P. Lum, P.E. Water Business Group Manager

FSS

Design Services for Asan Springs Water Treatment Facility GWA Project No. W11-003-BND Change Order #2 Lump Sum Fee Worksheet

Page: 1 of 3

HDR																
Task Number	Task Description	Principal Engineer	Project Manager	QA/QC	Senior Water Process Engineer	Senior Engineer - Structural	Senior Engineer - Electrical	Project Engineer	Senior Biologist	Biologist	GIS Analyst	Technical Editor	CAD	Accounting	Clerical	Sum Total
	Hourly Labor Rates/Unit Prices	\$255	\$195	\$255	\$255	\$205	\$205	\$145	\$165	\$125	\$125	\$100	\$140	\$115	\$75	
5.0	Detailed Design		-					-								
5.27	Additional Drawings	0	24	14	16	16	92	65	0	0	0	0	230	0	0	\$76,095
5.28	Additional Specifications	0	4	4	8	4	8	8	0	0	0	0	0	0	0	\$7,460
	SUBTOTAL	0	28	18	24	20	100	73	0	0	0	0	230	0	0	\$83,555
8.0	Environmental Services															
8.0	Federally Listed Biological Resources Investigation -			1	1	1	1		1	1		1	1	1		
8.4a	Fieldwork	0	0	0	0	0	0	0	50	24	8	0	0	8	0	\$13,170
0.14	SUBTOTAL	0	0	0	0	0	0	0	50	24	8	0	0	8	0	\$13,170
														Airfare		\$2,500
													Ho	tel/Rental	Car	\$1,500
														Per Diem		\$350
													Mileag	e Reimbur	sement	\$0
													Printing,	Scanning a	nd Binding	\$0
													Field	l Supplies,	Misc.	\$120
HDR SUBTOTAL (Tasks 1-8) \$101,195																
NDK 301	DIVIAL (103KS 1-0)															\$101,195
Total Subc	ontractor Subtotal															\$0
	Itant Markup (10%)	İ														\$0
		-														
Total Sub	total Fee (Task 1-8)															\$101,195
GUAM G	RT TAX (4.167%)															\$4,217
	UMP SUM FEE (Task 1-8)															\$105,412

Last Updated: 1/31/2019



Design Services for Asan Springs Water Treatment Facility GWA Project No. W11-003-BND Change Order #2 Time and Materials Fee Worksheet

Page: 2 of 3

																			Subconsultant	S
HDR Search																				
age of the second secon	Principal Engineer	Project Manager	Technical Advisor - QA/QC	Senior Water Process Engineer	Senior Engineer - Structural	Senior Engineer - Electrical	Environmental Scientist	Project Engineer	NEPA Project Manager	Senior NEPA Specialist	NEPA Analyst	Senior Biologist	Biologist	GIS Analyst	Technical Editor	CAD	Accounting	Clerical		Sum To
Hourly Labor Rates/Unit Prices	\$255	\$195	\$255	\$255	\$205	\$205	\$125	\$145	\$195	\$170	\$125	\$165	\$125	\$125	\$110	\$140	\$115	\$75	-	
8.0 Environmental Services																				
8.1a NEPA Planning, Agency Coordination	0	24	0	0	0	0	0	0	40	10	0	0	0	0	0	0	8	0		\$15,10
8.1b NEPA Kickoff and Scoping	0	10	0	0	0	0	0	0	40	20	40	0	0	30	0	0	0	8		\$22,50
8.1c NEPA Preliminary Draft EA	0	2	16	0	0	0	0	0	80	40	60	60	0	40	24	0	0	0		\$51,91
8.1d NEPA Draft EA	0	2	0	0	0	0	0	0	40	40	40	40	0	20	20	0	0	0		\$31,29
8.1e NEPA Final EA	0	2	16	0	0	0	0	0	40	40	40	20	0	20	20	0	0	0		\$32,07
8.2 CWA 404 Agency Letter	0	8	2	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0		\$2,85
8.3 CZMA Support	0	4	0	0	0	0	0	0	10	0	0	30	0	8	6	0	0	0		\$9,34
Federally Listed Biological Resources Investigation -																				
8.4b Biological Assessment	0	24	0	0	0	0	8	0	0	0	0	60	32	12	6	0	0	0		\$21,74
8.4c Federally Listed Snail Translocation	0	8	0	0	0	0	0	0	0	0	0	72	56	12	0	0	16	0		\$23,78 \$48,66
8.4d Federally Listed Snail Monitoring and Report SUBTOTAL	0	48 132	2	0	0	0	0	0	0 254	0	0 180	26 308	240 328	36 178	0 76	0	0 24	0	\$0	\$48,60
																	A.i.	fare		\$2.50
																		ental Car		\$1,80
																	Per	Diem		\$490
																	lileage Re	imburseme	r	\$300
																	ing, Scan	ning and Bir	1	\$60
																	Mailing, I	Vewspaper		
																	Ads,	Misc.		\$1,16
R SUBTOTAL																				\$266,0
al Subcontractor Subtotal																				\$0
consultant Markup (10%)																				\$0
al Subtotal Fee																				\$266.0
AM GRT TAX (4.167%)																				\$200,0
TAL TIME AND MATERIALS FEE																				\$277.1
TAL LUMP SUM FEE (FROM PAGE 2)																				\$105.4
																				φ100,

Last Updated: 1/31/2019

FC

Design Services for Asan Springs Water Treatment Facility GWA Project No. W11-003-BND Change Order #2 Rate Schedule for Professional Services

<u>Category</u>	Assigned Hourly Rate
Principal Engineer	\$255
Technical Advisor/QAQC	\$255
Project Manager	\$195
Senior Water Process Engineer	\$255
Senior Engineer (Structural/Electrical)	\$205
NEPA Project Manager	\$195
Senior NEPA Specialist	\$170
NEPA Analyst	\$125
Environmental Scientist	\$125
Senior Biologist	\$165
Mechanical Engineer (Coffman)	\$155
Electrical Engineer (Coffman)	\$155
Project Engineer	\$145
NEPA Analyst	\$140
Biologist	\$140
CAD Designer	\$140
GIS Analyst	\$125
Archaeological Monitor (SEARCH)	\$125
Technical Editor	\$100
Accounting	\$110
Administration	\$75

Reimbursable Expenses:

Printing 22"x34" Large Format Print Scanning 22"x34" Large Format Scan Report Binding	\$1/sheet \$1/sheet
8.5"x11" Report Size	Actual rate of binding for each report deliverable
Mileage Airfare Hotel Car Per Diem Newspaper Ads	Reimbursed at the effective IRS allowable rate (Currently \$0.58/mile) Reimbursed at actual cost (Estimated at \$2500 round trip) Reimbursed at actual cost (Estimated at \$200/night) Reimbursed at actual rental cost + fuel cost (Estimated at \$100/day) \$70/day (Includes travel days) Actual rate of advertisement for each printed newspaper

Compensation for services shall be at the hourly billing rates identified in the schedule above. If additional labor categories are used on the project, they and their billing rates will be submitted to GWA for approval. Billing rates are subject to annual adjustments for changes in salary. In addition to compensation for labor, the CONSULTANT shall be reimbursed for subcontractor costs and other direct costs associated with the project.

1. Subconsultants are charged at cost plus ten percent (10%).

1. The Guam Revenue Tax (GRT) in effect at the time of billing will be applied to each monthly invoice total for work.





GUAM WATERWORKS AUTHORITY "Better Water, Better Lives." Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913 Tel: (671) 300-6846

Issues for Decision

GWA Resolution No. 27-FY2019 / GPA Resolution No. 2019-_

Relative to the Re-evaluation and Implementation of the Revised GPWA Drug and Alcohol-Free Workplace Policy.

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

The GPWA Drug and Alcohol-Free Workplace Policy was approved by the CCU on 26 September 2017 for implementation on 01 October 2017. On 10 October 2017, GWA Legal Counsel received Attorney General's Opinion Memorandum, dated 06 October 2017 stated, random drug testing for *all government of Guam employees*, without regard to the nature of the employee's duties and specific violation intended to be addressed, will offend constitutional protections against warrantless searches.

GWA Management conducted research and found that a supporting opinion of the Authority's Legal Counsel is sufficient in determining inclusion of safety-sensitive positions to its current list of Testing Designated Position(s) (TDP). This guidance is stated on the Substance Abuse and Mental Health Services Administration's (SAMHSA) 2013 Guide for Selection of TDPs, dated 06 May 2013.

GWA Legal Counsel has reviewed and updated the list of safety-sensitive TDP to be used for determining which employees are subject to random drug testing. The list includes 110 different positions comprised of 287 employees or approximately 77% of the current GWA workforce;

The 35th Guam Legislature passed Bill No. 32-35, known as the Guam Cannabis Industry Act of 2019 in its Bill No. 32-35. The intent of this bill is to legalize the use, production and sale of cannabis by creating a regulated industry. The GPWA revised policy maintains the drug testing on its prohibited list of substances, including Marijuana/Cannabinoids (THC), consistent with the Drug-Free Workplace Act of 1988.

On April 4, 2019, Maga Haga' / Governor Lou Leon Guerrero signed into law Bill No. 32-35, the Guam Cannabis Industry Act of 2019, under Public Law 35-5, that legalizes possessing, growing, using and purchasing cannabis infused products. GWA and GPA still prohibits the use of cannabis by employees in the Drug-and-Alcohol Free Workplace Policy.

Moreover, Title 9 GCA, Chapter 67 Guam Controlled Substance Act, Article 1, Definitions (t) lists and defines Marijuana as a controlled substance.

Notwithstanding the implementation of Public Law 35-5, the objective of the resolution is to request GPWA be allowed to move forward and implement its Revised GPWA Drug and Alcohol-Free Workplace Policy and to authorize the Legal Counsel through documented support to add, delete and/or revise its TDP list as necessary, to effectively implement its Drug and

Alcohol-Free Workplace Policy. It is necessary and urgent to protect the public health and safety in the provision of utility services we provide.

GWA further requests for the CCU's support and approval to transition on its own (away from the DOA process) to seek drug testing, laboratory and medical review officer services to effectively implement the GPWA Drug and Alcohol-Free Workplace Policy.

Where is the location?

Guam Power Authority and Guam Waterworks Authority

How much will it cost?

The estimated annual cost to implement the GPWA Drug and Alcohol-Free Workplace Policy for the GPA is Sixty Thousand Dollars (\$60,000.00) and for the GWA is Thirty-One Thousand Dollars (\$31,000.00).

When will it be completed?

This is an on-going process, however, the revised Drug and Alcohol-Free Workplace full implementation will take effect 01 October 2019.

What is the funding source?

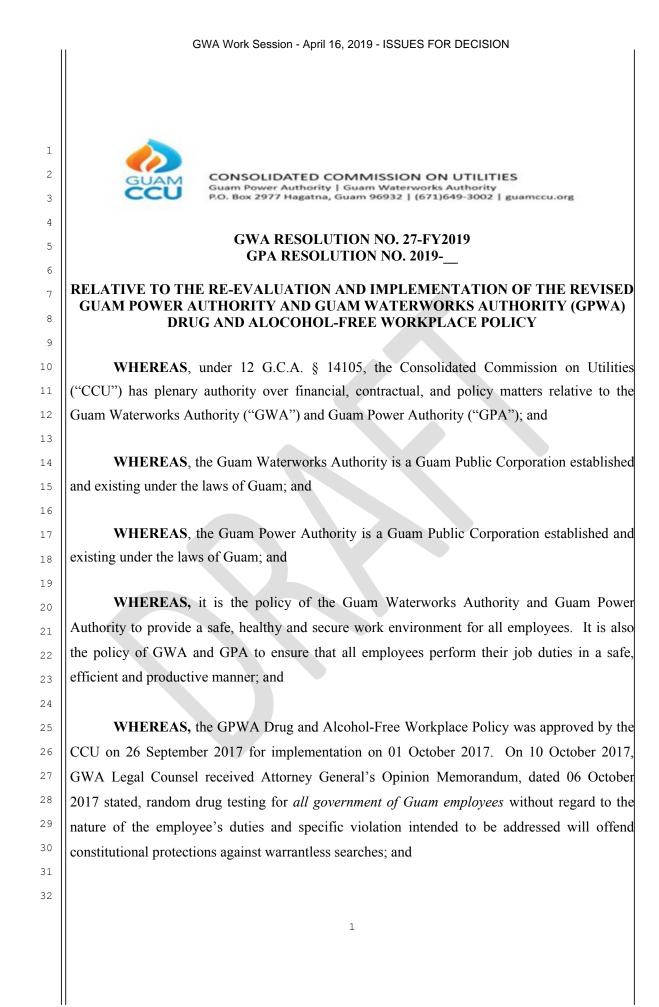
Drug Testing is revenue funded.

The RFP/BID responses (if applicable):

Upon the approval by the CCU to transition on its own, GWA management will seek drug testing, laboratory and medical review officer services.

D&AFWP Research References:

- 35th Guam Legislature Bill 32-35 Guam Cannabis Act of 2019
- 9 GCA, Chapter 67 Guam Controlled Substance Act
- Substance Abuse and Mental Health Services Administration (SAMHSA) 2013 Guidance for Selection of Testing Designated Positions (TDP)
- Guam Attorney General Opinion Memorandum, Ref: LEG 17-0547, dated 06 October 2017 – Opinion Request Relative to Random Drug Testing for All Government Employees
- Memorandum dated 22 March 2018, transmitted to DOA 06 April 2018 Addition to
 DFWP TDP List
- Drug-Free Workplace Act of 1988
- Emerald Steel v. Bureau of Labor and Industries Employer does not have a duty to accommodate an employee who used medical marijuana outside the workplace because marijuana is illegal under federal law.
- Coats v. Dish Network, LCC Colorado Supreme Court ruling; the state's lawful activities (medicinal marijuana) does not protect a worker's off-duty use of medical marijuana because this activity is not lawful under federal law.
- Ross v. Raging Wire Telecomms California Supreme Court ruling; employers do not have to accommodate their employees' off-site medical marijuana use.



WHEREAS, GWA Management conducted research and found that a supporting opinion of the Authority's Legal Counsel is sufficient in determining inclusion of safety-sensitive positions to its current list of Testing Designated Position(s) (TDP). This guidance is stated on the Substance Abuse and Mental Health Services Administration's (SAMHSA) 2013 Guide for Selection of TDPs, dated 06 May 2013; and

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24 25 WHEREAS, GWA Legal Counsel has reviewed and updated the list of safety-sensitive TDP to be used for determining which employees are subject to random drug testing. The list includes 110 different positions comprised of 287 employees or approximately 77% of the current GWA workforce; and

WHEREAS, the 35th Guam Legislature passed Bill No. 32-35, also known as the Guam Cannabis Industry Act of 2019, relative to the use, production and law enforcement of recreational marijuana, and to legalize the use, production and sale of cannabis by creating a regulated industry. The GPWA revised policy maintains the drug testing on its prohibited list of substances, including Marijuana/Cannabinoids (THC), consistent with the Drug-Free Workplace Act of 1988. On April 4, 2019, the Guam Cannabis Industry Act of 2019 was enacted into law, therefore legalizing the possession of, growing, using and purchasing cannabis infused products. GWA and GPA still prohibits the use of cannabis by employees in the Drug and Alcohol-Free Workplace Policy; and

WHEREAS, Title 9 GCA, Chapter 67 Guam Controlled Substance Act, Article 1, Definitions (t) lists and defines Marijuana as a controlled substance; and

WHEREAS, since it is now a Public Law, it is GPWA's request to move forward and implement its Revised GPWA Drug and Alcohol-Free Workplace Policy and to authorize the legal counsel through documented support to add, delete and/or revise its TDP list as necessary, to effectively implement its Drug and Alcohol-Free Workplace Policy. Therefore, GWA further requests for the CCU's support and approval to transition on its own (away from the DOA process) to seek drug testing, laboratory and medical review officer services to effectively implement the GPWA Drug and Alcohol-Free Workplace Policy; and

WHEREAS, the estimated annual cost to implement the GPWA Drug and Alcohol-Free Workplace Policy for the GPA is Sixty Thousand Dollars (\$60,000.00) and for the GWA is Thirty-One Thousand Dollars (\$31,000.00).

NOW, THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION ON UTILITIES as follows:

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The GPWA's request to move forward and implement its Revised GPWA Drug and Alcohol-Free Workplace Policy and to authorize the legal counsel through documented support to add, delete and/or revise its TDP list as necessary, to effectively implement its Drug and Alcohol-Free Workplace Policy is hereby approved.
- 3. GWA is further authorized and approved to transition on its own (away from the DOA process) to seek drug testing, laboratory and medical review officer services to effectively implement the GPWA Drug and Alcohol-Free Workplace Policy.
- The Drug and Alcohol-Free Workplace full implementation will take effect 01 October 2019.
- 5. This policy shall be effective for the Guam Waterworks Authority and the Guam Power Authority.

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

DULY AND REGULARLY ADOPTED, this 25th day of April, 2019.

Certified by:

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JOSEPH T. DUENAS Chairperson MICHAEL T. LIMTIACO Secretary

Attested by:

1	
2	SECRETARY'S CERTIFICATE
3	
4	I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as
5	evidenced by my signature above do hereby certify as follows:
6	The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular
7	meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was
8 9	present and the members who were present voted as follows:
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11	AYES:
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13	NAYS:
14	ABSTENTIONS:
15	ABSENT:
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<u>GUAM POWER and GUAM WATERWORKS AUTHORITY (GPWA)</u> <u>Drug-and Alcohol-Free Workplace Policy</u>

I. <u>Statement of Policy</u>

It is the policy of the GPWA to provide a safe, healthy and secure work environment for all employees and to ensure that all employees perform their job duties in a responsible, efficient and productive manner.

GPWA employees are responsible to ensure that its equipment and facilities are maintained and utilized appropriately so as not to pose a risk of harm to customers or the community. The use of drugs and the misuse of alcohol are inconsistent with delivering services, protecting water resources and GPWA assets in a safe, productive and reliable manner. Furthermore, employees who illegally use drugs or abuse alcohol may be a danger to themselves, other people and the environment as well as cause various work-related problems including tardiness, absenteeism, substandard job performance, disruptive behavior, delays in completing tasks and poor service. Accordingly, to protect the health, safety and welfare of employees, citizens, visitors and persons who interact with GPWA employees during the course and scope of their employment, GPWA has adopted this Drug-and Alcohol-Free Workplace Policy. GPWA will not tolerate illegal use of drugs or abuse of alcohol by enforcing a policy of zero-tolerance.

II. <u>Prohibited Conduct</u>

The following violations of the Drug and Alcohol-Free Workplace Policy constitute gross misconduct and shall result in immediate termination:

- 1. Unauthorized use, possession, sale, or solicitation for purchase/sale of drugs. drug paraphernalia or alcohol on GPWA property, in GPWA vehicles or while the employee is on duty.
- 2. Reporting to work or engaging in any work activity whatsoever on behalf of the GPWA in a condition which could pose a threat of harm to the employee or any other person, or reporting to or engaging in any work on behalf of the GPWA in a condition which could impair the ability to satisfactorily perform any essential function of the job, due to the use of drugs or misuse of alcohol. Should any detectable amount of drugs, or alcohol in a concentration of 0.04 breath alcohol content (BAC) or greater be established, the employee is in violation of the GPWA Drug & Alcohol-Free Workplace Policy. No employee shall perform their job functions within four hours after using alcohol.
- Abusing or misusing prescription drugs or over-the-counter medication when such conduct could reasonably interfere with the safe or satisfactory performance of any essential job function. This includes, but is not limited to, the use, possession, sale or solicitation for the purpose of purchase or sale any prescription medication for

which the employee lacks a valid prescription. Use of prescriptions prohibited in the policy such as medical marijuana are a violation Section III(1)(a).

- 4. Hindering, obstructing or refusing to cooperate or participate in any investigation involving suspected violations of this policy. This includes, but is not limited to, providing false, misleading or incomplete information in response to any inquiry from a supervisor related to a suspected violation of this policy. It also includes refusing to undergo a drug or alcohol test(s).
 - a) Refusal by an applicant to sign a consent form will be considered a refusal to submit to a drug and/or alcohol test as a condition of employment and will be considered the equivalent of receiving a confirmed "positive" result for employment and disqualification purposes. Such applicant will have his/her name removed from the certified list of eligible candidates and the position eligibility listing.
 - b) Refusal by an employee to sign a consent form will be considered a refusal to submit to a drug and/or alcohol test as a condition of employment and will be considered the equivalent of receiving a confirmed "positive" result for employment and subject to immediate termination.
- 5. Hindering, delaying or obstructing a drug or alcohol test(s), including but not limited to, tampering with a sample or interfering in any way with the chain of custody.

III. Prohibited Substances

As used in this policy, "prohibited substances" include but are not limited to, the following:

- 1. "Drugs" refers to marijuana, cocaine, amphetamines, opiates (including heroin and codeine), phencyclidine, and all other "controlled substances" as defined in Title 9 GCA Chapter 67 Guam Uniform Controlled Substances Act.
 - a) Specimens from applicants and employees will be screened in all cases to identify the following classes of substances:
 - i. Marijuana/Cannabinoids (THC);
 - ii. Cocaine Metabolites;
 - iii. Opiates;
 - iv. Phencyclidine (PCP);
 - v. Amphetamines/Methamphetamine; and
 - vi. Barbiturates
 - b) GPWA reserves the right to change, add or delete any combination of "controlled substances" for screening as new forms become available.
- 2. "Alcohol" includes any beverage or substance containing alcohol manufactured for the primary purpose of personal consumption.
- 3. "Prescription drugs" means any substance, which is attainable only by lawful prescription from a physician.
- 4. "Over-the-counter medication" includes any substance which does not require a prescription but has the capacity to affect a person physically, mentally, or emotionally or which could otherwise affect a person's ability to safely perform his/her duties.

IV. <u>When Testing is Required</u>

- 1. Random Testing: Positions listed on Appendix A as Testing Designated Positions (TDPs) at GPWA shall be subject to random testing as follows:
 - a) Tests will be ordered on a random, unannounced basis from the entire population of GPWA list of TDP employees.

- i. A scientifically valid method such as a random number table or a computer-based random number generator will be used to select employees, thereby allowing each employee an equal chance of being tested each quarter.
- ii. At least 25% of the employees will be selected for drug testing each quarter of the testing year.
- iii. An employee's name will remain in the potential testing population after being selected so that every employee will have an equal chance of being tested each time selections are made. Therefore, it is possible that any employee, who is randomly selected for testing, may be randomly selected again every quarter.
- iv. Every employee selected for random testing must be tested unless that employee is excused by the General Manager for reasons such as long-term leave, disability or termination of employment.
- v. Any employee who has not had an equal chance of being tested each time a selection was made will be tested on or before September 30 of any year.
- b) GPWA reserves the right to increase or decrease the frequency of testing based on the needs of each utility, availability of resources, and experience in the program, consistent with the duty to achieve a drug free workplace.
- c) GPWA reserves the right to add or delete positions it deems as health, safety and security sensitive in nature to its TDP list, with supporting opinion by its Legal Counsel in accordance with the Substance Abuse and Mental Health Services Administration's (SAMHSA) Guidance for Selection of Testing Designated Positions.
- 2. All competitive and non-competitive recruitments within GPWA will be tested after a conditional offer of employment has been extended. Drug testing will be required for but, not limited to the following:
 - a) Pre-Employment
 - (Probational/Unclassified/Exempt/Provisional/Temporary): Applicants selected for positions within GPWA must report for pre-employment drug testing within three business days of receiving a conditional offer of employment. An applicant who refuses a drug test(s) or who tests positive, or fails to comply with this subsection shall not be extended a final offer of employment.
 - b) **Promotions, Transfers, Reclassification from non-TDP to TDP:** Employees within GPWA will be tested upon the General Manager's approval for selection/reclassification. An employee who refuses a drug test(s) or who tests positive, shall be subject to immediate termination.

Except for emergency situations, applicants and employees will not be permitted to reschedule drug testing after they are notified that such testing is scheduled.

- 3. Return to Duty Testing: Employees who are absent from work without approval for more than fifteen calendar (15) days shall be tested for drugs and alcohol immediately after returning to work and before performing any job duties.
- 4. Reasonable Suspicion: All employees will be subject to testing when there is reasonable suspicion that the employee has used drugs or misused alcohol in violation of this policy. Grounds for reasonable suspicion testing shall include, but not be limited to personal observation of the employee's job performance, appearance, behavior, speech or odor which causes reasonable suspicion that the employee
 - a) is impaired by drugs or alcohol,

- b) has used drugs or alcohol while on duty,
- c) or poses a threat to personal safety or others due to the use of drugs or misuse of alcohol in violation of this policy.
- 5. When specific and objective facts indicate that drug or alcohol use by an employee may have caused or been a contributing factor to an on-duty motor vehicle accident. An alcohol test(s) shall be completed within two (2) hours of the accident and a drug test(s) within twenty-four (24) hours of the accident. The following facts, if present, may independently or collectively, depending upon the circumstances, give rise to reasonable suspicion:
 - a) the appearance, behavior, speech or odor of the employee immediately prior to or after the accident;
 - b) the employee left the scene or attempted to leave the accident scene without legal authority or permission to do so;
 - c) the employee acted contrary to a safety rule, established safety practice or otherwise engaged in demonstrably unsafe behavior for which there is no reasonable explanation;
 - d) the employee was arrested or received a traffic citation;
 - e) the employee or any person received medical attention as a result of the accident;
 - f) the employee has been involved, as a contributing factor, in a pattern of repetitive on-duty motor vehicle accidents whether they involved actual or potential injury.
- 6. When specific and objective facts indicate that drug or alcohol use by an employee may have caused or been a contributing factor to an on the job accident. An alcohol test(s) shall be completed within two (2) hours of the accident and a drug test(s) within forty-eight (48) hours of the accident. The following facts, if present, may independently or collectively, depending on the circumstances, give rise to reasonable suspicion:
 - a) The appearance, behavior, speech or odor of the employee immediately prior to or after the accident;
 - b) The employee left the accident scene or attempted to leave the accident scene without legal authority or authorization to do so, or failed to report the accident to the appropriate individual or otherwise attempted to keep appropriate persons from learning about the accident or the extent of the accident;
 - c) The employee acted contrary to a safety rule, established safety practices or otherwise engaged in demonstrably unsafe behavior without a reasonable explanation.
 - d) The employee or any other person received medical attention because of the accident;
 - e) The employee has been involved as a contributing factor in a pattern of onduty accidents whether or not they involved actual or potential injury.
- 7. Drugs, drug paraphernalia, alcohol or containers indicating the presence of drugs or alcohol are observed or discovered in a location in which the employee had primary control or access, including but not limited to, desks, lockers, equipment, machines or vehicles. The employee must have accessed the location within eight (8) hours prior to the discovery of such items.
- 8. Consent: By acknowledging receipt of this Policy in writing, the employee is providing his or her consent to any and all testing required to comply with the Policy.

V. <u>Who May Request a Reasonable Suspicion Drug or Alcohol Test(s)</u>

- 1. Any supervisor who has received training in the signs and symptoms of drug and alcohol use and impairment may request an employee to undergo a reasonable suspicion test(s) for drugs or alcohol based upon
 - a) the personal observation of the employee by the trained individual, or
 - b) personal observation of the employee by another employee who has fully disclosed the observations to the trained individual, or
 - c) observation of the employee by a nurse or physician engaged in the treatment or evaluation of a work-related injury who has disclosed such observation to the trained individual.
- 2. Any untrained supervisor may request a reasonable suspicion test(s) for drugs or alcohol based upon his personal observation of the employee, under the following circumstances:
 - a) The employee has been independently observed by a trained supervisor, or
 - b) A trained supervisor has reviewed the underlying facts and agrees that reasonable suspicion exists to require a test.
 - c) Any supervisor, personnel of managerial capacity, or personnel of the Safety and Human Resources Divisions trained in detecting drug and alcohol impairment, may request a reasonable suspicion drug or alcohol test(s) following a work-related accident based upon personal observation of the employee or upon review of the specific and objective facts underlying the accident.

VI. <u>Testing Procedures</u>

- 1. Whenever there is reasonable suspicion to require a drug or alcohol test(s) under this policy, the General Manager, department/division heads or designees and Human Resources shall be notified of the circumstances necessitating the test(s) as soon as possible.
- 2. All circumstances causing reasonable suspicion to require a drug or alcohol test(s) shall be fully documented by the supervisor(s) and/or managerial personnel and all appropriate witnesses as soon as possible.
- 3. All GPWA-issued equipment, property and facilities, including but not limited to, desks, lockers, and vehicles (collectively "materials") are subject to inspection at any time and for any reason. No employee shall have any privacy interest whatsoever in any GPWA issued materials. No personal property may be searched unless the owner of the property has consented or a search is otherwise legally permissible.
- 4. Alcohol screening will be conducted using a federally approved evidential breathtesting device. An initial screening test of one (1) breath sample will be conducted first, and if an initial test detects any level of alcohol, a second confirmation test of one (1) additional breath sample will be completed.
- 5. Testing will be performed by a certified, licensed forensic laboratory. Drug test methods, collection, security and chain of custody procedures will conform to federal regulations. The drug test will include marijuana, cocaine, amphetamines, methamphetamines, opiates (including heroin and codeine), and phencyclidine (PCP) and barbiturates. Other "controlled substances" may be added as new forms become available. All specimens identified as positive for illegal drugs on the initial

screening will be confirmed using the gas chromatography/mass spectrometry technique.

- 6. All positive test results for drugs will be interpreted by a physician approved by GPWA as a medical review officer (MRO) before the results are reported to the GPWA. Prior to notifying GPWA, the MRO will make reasonable efforts to contact the employee for the purpose of allowing the employee to offer an alternative medical explanation for the positive test result. If the MRO is able to contact the employee and determines there is a legitimate medical explanation for the positive test, the result will be communicated as negative to GPWA. The MRO's inability to contact the employee before providing test results to the GPWA will not void the test result or make the test result unusable in any subsequent disciplinary action. Because the employee is present for interpretation of an alcohol test, the procedure concerning prior notification by the MRO is not applicable.
- 7. Upon notification by the MRO of a verified positive result for drugs, the employee may request that the remaining portion of his split specimen undergo a second confirmation test at his expense. The results of the second confirmation test, upon review by the MRO, will be determinative. If the results from the second confirmation test is negative, all prior positive tests will be disregarded and shall not be the basis for any disciplinary or adverse action.
- 8. The GPWA will make reasonable efforts to notify the employee of a positive drug test within five (5) days from the date it receives the test results. Because the results of a breath alcohol test are immediately available, this provision will not apply to alcohol tests conducted in such a manner.
- 9. Any employee ordered to be tested, based upon reasonable suspicion, shall be immediately removed from duty, escorted to the testing facility and taken home (unless other suitable arrangements have been made to transport the employee including calling a cab). The employee shall turn in keys to a GPWA vehicle, building or office, their identification badge or any other property belonging to the GPWA. The employee shall be placed on paid administrative leave pending the results of the test.
- 10. An employee who tests positive for drugs or alcohol shall immediately be relieved from duty, required to turn in keys to a GPWA vehicle, building or office, identification badge or any other property that belongs to the GPWA, placed on paid administrative leave, and sent home pending disciplinary action, if appropriate. A supervisor may take an employee home. If a supervisor is not comfortable taking an employee home, however, a cab may be called to come and take the employee home at the employee's expense.
- 11. In situations in which the employee has been ordered to be tested or tests positive and the employee refuses assistance in leaving the building and walks out or insists on leaving in his/her own vehicle, document the situation and, depending upon the circumstances, call Guam Police Department's non-emergency phone number. Give the police the employee's name, vehicle description, and license plate number. However, if the employee is extremely agitated, violent or is making threats of violence, leaves the premises in a GPWA vehicle, or you believe the employee has violated the law, call the Guam Police Department at 9-1-1.
- 12. A refusal to consent to a drug or alcohol test is a violation of the Policy and will be considered the equivalent of receiving a confirmed "positive" result for employment and subject to immediate termination.

13. If it is not reasonable under the circumstances to conduct an alcohol test, based on a breath test, GPWA reserves the right to test for the presence of alcohol by a blood test analysis. If this procedure is used, the GPWA will attempt to notify the employee of the results within five (5) days after the results are received. An MRO will not be used when a blood test for alcohol is conducted.

VII. Training

- All Department Heads, Managers and Supervisors and Leads are required to participate in GPWA Drug and Alcohol-Free Workplace Policy training every two (2) years. All new employees and any employee who is hired or promoted into a supervisory position must receive training on this policy within sixty (60) days of hire or promotion. The training shall include the following topics:
 - a) The requirements of the Drug-Free Workplace Policy, including supervisor responsibilities.
 - b) Behavioral indicators of drug and alcohol use in the workplace.
 - c) The prevalence of alcohol and drug abuse and its impact on the workplace.
 - d) Proper procedures including documentation for applying the Drug and Alcohol-Free Workplace Policy.
- 2. All employees are required to participate in GPWA Drug and Alcohol-Free Workplace Policy training. The training shall be required every two years and include the following topics:
 - a) The requirements of the Drug-Free Workplace Policy and Zero-tolerance.
 - b) The prevalence of alcohol and drug abuse and its impact on the workplace.
 - c) Behavioral indicators of drug and alcohol use in the workplace.
 - d) The progression of the disease of addiction.
 - e) What types of assistance are available in the community.

VIII. Employee Assistance Program

Prior to September 30, 2019, any employee who self-refers to a GPWA Employee Assistance Program (EAP) or a similarly available treatment program will not be subject to disciplinary action. Failure to comply with all requirements of a treatment program will result in termination. Employees that do not self-refer for assistance with a drug or alcohol abuse problem who are found in violation of Section II of this policy will be subject to immediate termination.

Beginning on October 1, 2019, employee entry into the EAP upon voluntary identification by himself or herself as a user of drugs or abuser of alcohol will not be protected from disciplinary action if found in violation of Section II of this policy.

IX. Arrests for Drug and Alcohol Related Offenses

Any employee who is arrested for a drug or alcohol related offense must notify the General Manager of the arrest immediately. GPWA will decide at that time whether the arrest causes a temporary or permanent disqualification from holding that position, or constitutes grounds for disciplinary action. All convictions for alcohol or drug related offenses must be reported immediately by an employee to the General Manager. GPWA reserves the right to take appropriate action based upon such conviction.

All employees who are required to operate a GPWA vehicle as a regular part of their job must report any drug or alcohol arrest, temporary or permanent suspension of driving privileges, and any drug/alcohol related conviction to the General Manager immediately. GPWA reserves the right to take appropriate action, including relieving the employee from duty, transferring the employee to a non-driving position, or instituting disciplinary action up to and including termination.

X. Alcohol at GPWA Sponsored Events

At GPWA sponsored social events where alcohol is present, legal age employees may consume moderate and responsible amounts of alcohol. Any employee misconduct as a result of the consumption of alcohol is subject to disciplinary action. All employees are responsible for behaving in a professional and courteous manner consistent with GPWA code of conduct standards regardless of any consumption of alcohol.

XI. <u>Confidentiality</u>

All reports of test results for drug and alcohol, searches, or any employee referral, or participation in an EAP program or treatment program for addictive disorders, will be maintained in strict confidence. Any person authorized to have access to such confidential information, who, without authorization, discloses it to another person shall have engaged in gross misconduct and be subject to severe disciplinary action up to and including dismissal. The confidentiality of such information shall not apply to any use by or communication to the GPWA General Counsel, or where the information is relevant to the GPWA's defense in an administrative or civil action. Such information may also be disclosed to the extent required by any federal, state or local law, statute, ordinance or regulation.

XII. Effective Date

This policy will go into effect upon CCU adoption by resolution and will apply to all employees of GPWA regardless of status or classification. The policy will be strictly enforced.

GPWA Drug-and Alcohol-Free Workplace Policy

Existing TDP Listing	Approved Additional TDP Listing
ENGINEERING	ASSISTANT GENERAL MANAGERS
Chief Engineer	Assistant General Manager of Compliance & Safety
Engineer I	Assistant General Manager of Operations
Engineer II	Assistant General Manager of Administration & Support
Engineer III	LABORATORY & COMPLIANCE
Engineering Supervisor	Chemist I
Engineering Technician I	Chemist II
Engineering Technician II	Chemist III
Construction Inspector I	Laboratory Technician I
Construction Inspector II	Laboratory Technician II
Construction Inspector III	Laboratory Technician Supervisor
FACILITIES, MAINTENANCE, & EQUIPMENT	Utility Laboratory Technician I
Equipment Maintenance Superintendent	Utility Laboratory Technician II
Equipment Operator I	Utility Laboratory Technician Leader
Equipment Operator II	Utility Laboratory Technician Supervisor
Equipment Operator III	Monitoring Laboratory Services Administrator
Equipment Operator IV	Cross Connection Control Manager
Equipment Operator Leader I	Source Control Manager
Equipment Operator Leader II	Utility Compliance Inspector I
Equipment Operator Supervisor	Utility Compliance Inspector II
Heavy Equipment Mechanic I	Utility Compliance Inspector Leader INFORMATION TECHNOLOGY
Heavy Equipment Mechanic II	Computer Operator I
Heavy Equipment Mechanic Leader Heavy Equipment Mechanic Supervisor	Computer Operator I
COMPLIANCE & SAFETY	Computer Operator III
Safety Inspector I	Information Security Administrator
Safety Inspector II	Information Technology Manager
Safety inspector III	Network Systems Administrator
Safety Inspector Supervisor	Network Analyst
OPERATIONS & MAINTENANCE	Programmer Analyst I
Pumping Station Leader	Programmer Analyst II
Pumping Station Operator I	Systems & Programming Administrator
Pumping Station Operator II	OPERATIONS & MAINTENANCE
Pumping Station Supervisor	Operations & Maintenance Manager
Sewer Plant Leader	Leak Detection
Sewer Plant Operator I	Leak Detection Technician I
Sewer Plant Operator II	Leak Detection Technician II
Sewer Plant Supervisor	Leak Detection Technician Leader
Wastewater Construction-Maintenance Superintendent	Leak Detection Technician Supervisor
Wastewater Maintenance Mechanic I	Electric/Instrument Technicians
Wastewater Maintenance Mechanic II	Plant Instrument Technician I
Wastewater Maintenance Mechanic Leader	Plant Instrument Technician II
Wastewater Maintenance Mechanic Supervisor	Plant Instrument Technician Leader
Wastewater Plant Superintendent	Plant Electrical Instrument Superintendent
Wastewater Systems Assistant Manager	Maintenance & Related
Wastewater Systems Manager	Water Meter Maintenance & Repair Worker I
Water Distribution Systems Assistant Manager	Water Meter Maintenance & Repair Worker II
Water Distribution Systems Manager	Water Meter Maintenance & Repair Supervisor
Water Plant Operator I	Water Meter Reader I
Water Plant Operator II	Water Meter Reader II
Water Plant Operator Leader	Water Meter Reader Leader
Water Plant Operator Supervisor	Water Meter Reader Supervisor
Water Treatment Plant Superintendent	Centralized Wastewater Maintenance Superintendent
Water-Sewer Maintenance Supervisor	Wastewater Collection Superintendent
Water-Sewer Maintenance Worker I	Systems Control Center
Water-Sewer Maintenance Worker II	Water & Wastewater Systems Control Dispatcher I
Water-Sewer Maintenance Worker Leader	Water & Wastewater Systems Control Dispatcher II
	Trouble Dispatcher
General Manager	Trouble Dispatcher Supervisor
	Trades

APPENDIX A GWA Test Designated Position List

2019 Revised GPWA DAFWP

GWA Utility Services Division Monthly Status Report Month ending Mar 30, 2019

JTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE FEB 2018	FEB 2019 MONTHLY TOTAL	WEEK ENDING: 3/9/2019	WEEK ENDING: 3/16/2019	WEEK ENDING: 3/23/2019	WEEK ENDING: 3/30/2019	WEEKLY AVERAGE MARCH 2019	MARCH 2019 MONTHLY TOTAL
Collections Unit								
I. Number of accounts cut for nonpayment:	209	834	183	198	214	124	180	719
II. Number of accounts restored for nonpayment:	147	587	176	196	167	116	164	655
III. Number of No water reports responded to:	2	7	2	4	2	2	3	10
IV. Number of Secure/Unsecure valve reports responded to:	1	4	3	7	2	3	4	15
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 :	269	1074	227	243	205	174	212	849
VII. Number of active pay plans negotiated and ongoing :	2168	8670	1844	2013	2138	2225	2055	8220
VIII.Number of inactive accounts with a payment arrangement:	0	1	3	0	0	0	1	3
IX. Number of broken payment plans:	94	377	125	74	80	87	92	366
Customer Service Unit I. Service Delivery Points:								
a. GBN Public Service Building – Fadian								
i. Total Customers Assisted :	283	1133	263	280	272	269	271	1084
ii. Total Abandoned Requests :	15	59	20	26	15	11	18	72
iii. Average Wait Time:	11 minutes		12 minutes	11 minutes	8 minutes	8 minutes	10 minutes	
iv. Average Service Time:	19 minutes		14 minutes	14 minutes	5 minutes	10 minutes	11 minutes	
v. Breakdown by request type:			1		-			
1. Apply for water	49	197	54	72	56	60	61	242
2. Restore water cut for non payment	38	152	26	37	32	13	27	108
3. Terminate Water	14 28	57 112	8 26	18 21	16 32	12 33	14 28	54 112
 Copy of Bill Billing Dispute 	85	338	66	77	69	77	72	289
6. Billing Dispute follow up	5	20	3	3	3	2	3	11
7. General Questions & Other	34	137	42	33	41	38	39	154
8. Report a water leak	2	7	2	1	0	1	1	4
9. Report water theft	0	0	0	0	0	0	0	0
10. Payment Arrangement	31	123	39	21	26	35	30	121
 b. Julale Satellite Office – Hagatna 								
i. Total Customers Assisted :	275	1100	298	286	268	263	279	1115
ii. Total Abandoned Requests :	17	68	19	10	19	23	18	71
iii. Average Wait Time:	14 minutes		11 minutes	5 minutes	7 minutes	9 minutes	8 minutes	
iv. Average Service Time:	10 minutes		9 minutes	9 minutes	9 minutes	13 minutes	10 minutes	
v. Breakdown by request type:	10	101			45	50		475
1. Apply for water	46	184	41	37	45	52	44	175
 Restore water cut for non payment Terminate Water 	31	125 85	51 23	36 16	23 17	25 26	34 21	135 82
 I erminate water Copy of Bill 	55	221	62	60	68	50	60	240
5. Billing Dispute	68	272	74	74	58	72	70	240
6. Billing Dispute follow up	3	10	0	3	1	5	2	9
7. General Questions & Other	22	88	23	25	36	29	28	113
8. Report a water leak	2	6	1	2	0	0	1	3
9. Report water theft	0	0	0	0	0	0	0	0
10. Payment Arrangement	37	149	27	43	22	27	30	119
c. Upper Tumon Satellite Office – Upper Tumon								
i. Total Customers Assisted :	403	1610	396	397	399	383	394	1575
ii. Total Abandoned Requests :	32	128	39	32	21	28	30	120
iii. Average Wait Time:	15 minutes		17 minutes	14 minutes	9 minutes	14 minutes	14 minutes	
iv. Average Service Time:	12 minutes		10 minutes	11 minutes	10 minutes	11 minutes	11 minutes	

- iii. Average Wait Time:
- iv. Average Service Time: v. Breakdown by request type:
 - - Apply for water
 Restore water cut for non payment
 - 3. Terminate Water
 - 4. Copy of Bill
 - 5. Billing Dispute
 - 6. Billing Dispute follow up
 - 7. General Questions & Other
 - 8. Report a water leak
 - 9. Report water theft
 - 10. Payment Arrangement

75	301	73	85	71	79	77	308
58	232	64	67	82	44	64	257
36	145	30	35	29	30	31	124
66	265	84	62	77	44	67	267
122	488	135	104	106	131	119	476
4	16	4	10	4	5	6	23
55	219	43	76	57	59	59	235
3	13	7	6	5	1	5	19
0	1	0	0	0	0	0	0
54	215	43	47	38	38	42	166

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GWA Utility Services Division Monthly Status Report Month ending Mar 30, 2019

	WEEKLY	FEB 2019	WEEK	WEEK	WEEK	WEEK	WEEKLY	MARCH 2019
UTILITY SERVICES DIVISION ACTIVITIES:	AVERAGE FEB 2018	MONTHLY TOTAL	ENDING: 3/9/2019	ENDING: 3/16/2019	ENDING: 3/23/2019	ENDING: 3/30/2019	AVERAGE MARCH 2019	MONTHLY TOTAL
d. Customer Call Center	2018	TUTAL	3/9/2019	3/10/2019	3/23/2019	3/30/2019	WARCH 2019	TUTAL
i. Calls Recieved :	1641	6562	1933	1772	2000	1345	1763	7050
ii. Calls Immediately Answered :	779	3117	648	729	981	706	766	3064
iii. Calls Abandoned	68	273	88	71	84	53	74	296
iv. Calls Handled by Voice mail:	793	3170	1195	970	934	585	921	3684
v. Average duration of calls answered	5 MINUTES		3 MINUTES	4 MINUTES	4 MINUTES	5 MINUTES	4 MINUTES	
vi. Breakdown by request type:							•	
1. Apply/Terminate info.	22	89	19	16	21	22	20	78
2. Automated Telphone Call	2	7	3	9	22	7	10	41
3. Balance Inquiry	95	378	86	102	113	101	101	402
4. Call Back	74	295	43	69	46	50	52	208
5. Dispatch	30	119	22	19	23	30	24	94
6. Dispute	17	68	12	11	14	12	12	49
7. Follow up	80	320	58	83	90	100	83	331
8. General Questions & Other	155	621	139	140	162	136	144	577
9. GWA Staff	98	391	66	85	71	116	85	338
10. No Water	36	143	26	55	38	37	39	156
11. Online/Phone App Help	17	69	14	22	15	21	18	72
12. Pay by Phone	132	527	112	110	135	102	115	459
13. Pay Plan	62	249	55	75	72	52	64	254
14. Restore Non-payment	64	254	70	45	49	22	47	186
15. Secure/Unsecure Valve	10	39	10	14	7	11	11	42
16. Voice Mail	88	350	113	89	88	49	85	339
17. Water leak	5	21	4	9	14	7	9	34

i. Emails Recieved :

- 1. customers@guamwaterworks.org
- Breakdown by request type (email):
 - a. Apply for water
 - b. Terminate Water
 - c. Copy of Bill

 - d. Billing Dispute & follow up
 e. General Questions & Other
 - f. Report a water leak
 - g. Report water theft h. Online services inquiry

2. gwaservesme@guamwaterworks.org (realtors and prop mgrs): ii. Emails Replied (both):

f. Saturday Services: 9AM TO 1PM ONLY

i. VISITS: Breakdown by request type:

- 1. Apply for water
- Restore water cut for non payment
- 3. Terminate Water
- 4. Copy of Bill
- 5. Billing Dispute
- 6. Billing Dispute follow up
- 7. General Questions & Other
- 8. Report a water leak
- 9. Report water theft
- 10. Payment Arrangement

52	206	63	51	36	31	45	181
1	5	2	2	1	1	2	6
3	13	1	1	2	2	2	6
1	4	1	4	2	0	2	7
12	46	21	19	14	11	16	65
23	92	26	19	13	15	18	73
4	14	2	5	3	1	3	11
0	0	0	0	0	1	0	1
8	30	10	1	1	0	3	12
1	2	0	0	0	0	0	0
38	150	44	51	23	29	37	147

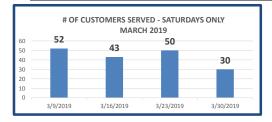
	AVERAGE
	51
1	

6
5
2
11
13
0
5
1
0

8

	3/9/2019	3/16/2019	3/23/2019	3/30/2019	AVERAGE
	52	43	50	30	44
11					

7	6	5	4	6
3	4	5	4	4
2	4	1	3	3
9	13	10	6	10
10	7	17	6	10
0	1	0	1	1
11	4	8	1	6
1	1	0	0	1
0	0	0	0	0
9	3	4	5	5



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GWA Utility Services Division Monthly Status Report Month ending Mar 30, 2019

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE FEB 2018	FEB 2019 MONTHLY TOTAL	WEEK ENDING: 3/9/2019	WEEK ENDING: 3/16/2019	WEEK ENDING: 3/23/2019	WEEK ENDING: 3/30/2019	WEEKLY AVERAGE MARCH 2019	MARCH 2019 MONTHLY TOTAL
ii. CALLS TO CALL CENTER (Saturday services only):			3/9/2019 26	3/16/2019 25	3/23/2019 32	3/30/2019 17		
		40 — 20 — 0 —	# OF C 26 3/9/2019	CALLS TO CALL MA 25 3/16/2019	CENTER-SATU RCH 2019 32 3/23/20	1		

Dispute Resolution & Document Control

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

Disconnect/Reconnect Unit

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

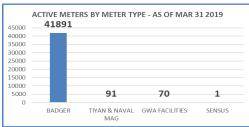
Meter Reading Unit

- I. Number of meters read:
 - a. Electronically Read Meters:
 - b. Manually Read Meters:
 - i. Unread meters (Meters scheduled to be read but not read):
 - ii. Number of data logs received:
 - iii. Number of data logs retrieved:
 - iv. Number of data logs pending field action:
 - v. Communication Errors/Reprogramming requests:
 - vi. Number of estimated readings (for the week):
 - vii. Reasons for Estimations:
 - 1. Cant locate meter:
 - 2. Temporary Obstruction
 - 3. Vicious Dog
 - 4. Flooded meter
 - 5. Corrective action requested (database corrections needed)
 - 6. Possible changed out meter:
 - 7. Communication/Programming error (code 92's):
 - 8. Other:
 - 1. Leaks detected on customer's private line:
 - 2. Reverse Flow Detected
 - 3. No Usage Detected
 - 4. Tamper Code
 - c. Electronic Read Percentage:

Revenue Protection Unit

I. Number of Inactive Still Consuming Reports rec'd & investigated: II.Number of Illegal Connection reports rec'd & investigated: III. Meter Replacement Project – Post 2010 Metron Famier & Sensus Status Report :

a. Account & Meter Type Count :



		3/9/2019	3/16/2019	3/23/2019	3/30/2019		
40	158	59	70	30	35	49	194
1618	6470	1698	1698	1701	1723	1705	6820
-							
337	1347	472	567	409	500	487	1948
1109	4437	970	817	595	634	754	3016

1	263	1052	306	230	223	245	251	1004
	296	1184	381	312	282	289	316	1264
	3	10	2	1	0	2	1	5

		3/9/2019	3/16/2019	3/23/2019	3/30/2019		
8959	37455	10300	12196	11760	7803	10515	42059
50	127	28	23	35	33	30	119
121	311	7	16	82	12	29	117
36	143	32	37	30	31	33	130
38	150	55	47	33	24	40	159
24	126	0	0	2	6	2	8
2	18	4	9	0	3	4	16
113	172	1984	2569	2450	1447	2113	8450

0	8	0	0	1	2	0	3
5	10	4	2	5	1	5	12
2	6	0	0	0	0	2	0
1	4	1	0	1	1	1	3
0	1	0	0	0	0	0	0
8	91	5	11	77	8	8	101
2	8	0	1	0	1	2	2
13	32	3	3	3	1	13	10
1000	5026	1295	1738	1427	802	1000	5262
122	802	90	174	235	146	122	645
28	2082	575	620	677	468	28	2340
518	81	11	20	24	17	518	72
99%		99.7%	99.7%	99.0%	99.4%	99%	
1	4	0	0	1	1	1	2

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Engineering Monthly Report April 2019

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

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A. Summary Table of 2010, 2013 and 2016 Bond

Potable Water

					Π						
CIP #	OID Description		%			0040 D	%	or	0040 D	%	or
•	CIP Description	2010 Bond Allotme			_		encumbered			encumbered	
PW 05-01	Ground Water Disinfection	\$ 500,00					N/A	N/A	\$-	N/A	N/A
PW 05-03	Santa Rita Springs Booster Pump Rehab Phase II	\$	- N/A	N/A		\$ 100,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW-05-05	*A Series Well Transmission Line	\$ 475,70				\$ 369,846.00	100.00%	0.00%	\$-	N/A	N/A
PW 05-06	Water Booster Pump Station	\$ 500,00		87% 22.13		\$ 1,679,964.00	99.16%	0.84%	\$ -	N/A	N/A
PW 05-07	Meter Replacement Program	\$ 10,450,00		42% 12.58		\$ 996,532.00	100.00%	0.00%	\$ 1,400,000.00		
PW 05-08	Barrigada Tank Repair/Replacement	\$ 5,450,00		55% 0.45		\$ 4,987,000.00	99.32%	0.68%	\$-	N/A	N/A
PW 05-09	Leak Detection	\$ 200,00				\$ 16,916.00	100.00%	0.00%	\$ 100,000.00		
PW 05-10	Potable Water System Planning	\$ 200,00				\$ 624,000.00	100.00%	0.00%	\$ 876,294.00		
PW 05-11	Implement Ground Water Rule	\$ 1,699,99	9.00 100	00% 0.00)%	\$ 1,000,000.00	100.00%	0.00%	\$-	N/A	N/A
PW 05-12	Brigade II (Ugum Lift) BPS Upgrade	\$ 1,900,00		89% 81.11			N/A	N/A	\$-	N/A	N/A
PW 05-13	Deep Well Rehabilitation	\$ 548,00				\$ 200,000.00	100.00%	0.00%	\$ 250,000.00	44.01%	
PW 05-14	New Deep Wells at Down Hard	\$ 485,74	3.00 100	00% 0.00	0%		N/A	N/A	\$ 1,190,000.00		100.00%
PW 05-15	Rehabilitation of Asan Springs	\$ 1,100,00	0.00 34	39% 65.61	%	\$ -	N/A	N/A	\$-	N/A	N/A
PW 05-16	Master Meters	\$ 1,489,95	7.00 100	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	\$ 700,00	0.00 96	06% 3.94	1%	\$ 859,801.00	51.20%	48.80%	\$-	N/A	N/A
PW 09-02	Water Wells	\$	- N/A	N/A		\$ 3,030,029.00	69.90%	30.10%	\$ 2,500,000.00	6.80%	93.20%
PW 09-03	Water Distribution System	\$ 3,174,74	3.00 100	03% -0.03	3%	\$ 10,912,453.00	95.02%	4.98%	\$-	N/A	N/A
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	\$ 775,00	2.00 100	00% 0.00)%	\$ -	N/A	N/A	\$-	N/A	N/A
PW 09-08	Mechanical/Electrical Equipment	\$ 1,200,00	0.00 96	75% 3.25	5%	\$ 426,799.00	96.19%	3.81%	\$-	N/A	N/A
PW 09-09	Water Reservoir Internal/External	\$ 2,150,00	0.00 83	72% 16.28	3%	\$ -	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	\$ 1,050,00	0.00 100	00% 0.00	0%	\$ 13,878,000.00	100.00%	0.00%	\$ 58,830,170.00	26.75%	73.25%
PW 11-01	Distribution System Upgrades	\$ 474,15	9.85 100	00% 0.00	0%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 11-02	Ugum Water Treatment Plant Reservoir	\$	- N/A	N/A		\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-01	Water Audit Program & Water Loss Control Plan	\$ 78.45	9.00 19	16% 80.84	1%	\$ -	N/A	N/A	\$ 550,000,00	70.83%	29.17%
PW 12-02	Production Plan / Reduce Navy Purchases	\$ 100,00	0.00 100	00% 0.00	0%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-03	Hydraulic Assessment of Tanks	\$ 500,00	0.00 100	00% 0.00	0%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-04	Agana Heights & Chaot Tanks	\$ 4,700,00	0.00 100	00% 0.00	0%	\$ 1.330.287.00	100.00%	0.00%	\$ 1.220.000.00	40.98%	59.02%
PW 12-05	Tank Major Repair Yigo #1, Mangilao #2, Astumbo#1	\$ 1.848.01		57% 2.43		\$ 11,605,000.00	100.00%	0.00%	\$ 1,822,133.00		0.00%
PW 12-06	Tank Replacement Piti & Hyundai	\$	- N/A	N/A		\$ -	N/A	N/A	\$ 7,300,000,00		0.00%
PW 12-07	Assessment of Maloiloi Elevated & Yigo Elevated	\$ 200.00				\$ 485,117.00	100.00%	0.00%	\$ -	N/A	N/A
PW 12-08	Public Water System Asset Inventory/ Condition Assessment	\$ 100.00		00% 0.00			N/A	N/A	\$-	N/A	N/A
PW 12-09	Public Water System GIS & Mapping	\$ 50,00		00% 0.00		\$-	N/A	N/A	\$-	N/A	N/A
PW 14-01	Fire Hydrant Replacement Program	\$ 50,00	- N/A	N/A		\$ -	N/A	N/A	\$ 1,200,000.00		
		\$ 42.099.78				\$ 53,550,914.00	1		\$ 81,331,136.00	0.0070	

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	Wastewater Vehicles	\$ 235,000.00	100.00%	0.00%	\$-	N/A	N/A	\$-	N/A	N/A
WW 05-07	NDWWTP - Chlorine Tanks	\$ 250,000.00	100.00%	0.00%	\$-	N/A	N/A	\$-	N/A	N/A
WW 09-01	Lift station upgrades	\$-	N/A	N/A	\$ 563,148.00	118.21%	-18.21%	\$ 1,714,755.00	28.78%	69.20%
WW 09-06	Wastew ater Collection System Repl/ Rehabilitation	\$ 1,001,323.00	103.40%	-3.40%	\$ 660,313.00	110.04%	-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	\$ 1,488,378.00	95.67%	4.33%	\$ 9,656,874.00	99.69%	0.31%	\$ 22,663,776.00	100.00%	0.00%
WW 11-04	Facilities Plan/Design for Umatac-Merizo WWTP	\$ 853,858.00	105.52%	-5.52%	\$ 371,699.00	100.00%	0.00%	\$ 252,105.00	100.00%	0.00%
WW 11-08	Agat/Santa Rita STP Replacement	\$ 2,217,700.00	100.06%	-0.06%	\$ 67,200,000.00	99.53%	0.47%	\$ 2,002,331.00	97.00%	3.00%
WW 12-01	Northern District WWTP Primary Treatment Upgrade	\$ 11,743,514.00	100.00%	0.00%	\$-	N/A	N/A	\$-	N/A	N/A
WW 12-02	Biosolids Management Plan	\$ 200,000.00	100.00%	0.00%	\$-	N/A	N/A	\$-	N/A	N/A
WW 12-03	Agana WWTP Interim Measures	\$ 11,300,000.00	101.77%	0.00%	\$ 673,000.00	100.00%	0.00%	\$-	N/A	N/A
WW 12-04	I&I SSES Southern	\$ 800,000.00	100.00%	0.00%	\$-	N/A	N/A	\$-	N/A	N/A
WW 12-05	I&I SSES Central	\$ 850,000.00	100.00%	0.00%	\$-	N/A	N/A	\$-	N/A	N/A
WW 12-06	I&I SSES Northern	\$-	N/A	N/A	\$-	N/A	N/A	\$-	N/A	N/A
WW 12 -07	Umatac Merizo Replacement	\$ 250,000.00	100.00%	0.00%	\$-	N/A	N/A	\$ 20,800,000.00	99.06%	0.94%
WW 12-08	Wastewater System GIS & Mapping	\$-	N/A	N/A	\$-	N/A	N/A	\$-	N/A	N/A
WW 12-09	Wastewater Facility Back Up Power	\$-	N/A	N/A	\$-	N/A	N/A	\$-	N/A	N/A
WW 12-10	Wastewater System Asset Inventory	\$-	N/A	N/A	\$-	N/A	N/A	\$-	N/A	N/A
WW 17-01	Wastew ater Sew er System Expansion	\$-	N/A	N/A						
WW 17-02	Northern District WWTP Secondary Treatment Upgrade	\$ 1,000,000.00	94.83%	5.18%						
		\$ 35,813,403.00			\$ 79,775,935.00			\$ 48,801,428.00		

Electrical Engineering Support

			%			%			%	
CIP #	CIP Description	2010 Bond Allotment		% available	2013 Bond Allotment		% 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%	\$-	N/A	N/A
EE 09-02	Electrical Upgrade - Water Wells	\$ 354,227.00	100.00%	0.00%	\$ 1,500,000.00	100.00%	0.00%	\$-	N/A	N/A
EE 09-03	Electrical Upgrade - Water Booster	\$-	N/A	N/A	\$-	N/A	N/A	\$-	N/A	N/A
EE 09-04	Electrical Upgrade - Water Booster	\$-	N/A	N/A	\$ 977.00	100.00%	0.00%	\$-	N/A	N/A
EE 09-05	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	\$ 24,956.00	100.00%	0.00%	\$ 722,359.00	100.00%	0.00%	\$ 1,077,497.00	70.53%	29.47%
EE 09-09	SCADA Improvements - Phase 4	\$ -	N/A	N/A	\$-	N/A	N/A	\$ 4,378,118.00	90.08%	9.92%
		\$ 1,748,119.00			\$ 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	\$ 499,688.00	100.00%	0.00%	\$ 1,052.00	100.05%	-0.05%	\$ 1,260,524.00	100.00%	0.00%
MC 09-01	General Plant Improvements	\$ 7,241,000.00	100.00%	0.00%	\$ 2,441,737.00	44.96%	55.04%	\$ 1,543,757.00	97.07%	2.93%
MC 15-01	Information Technology Intergration Improvements							\$ 500,000.00	48.81%	51.19%
		\$ 7,740,688.00			\$ 3,614,254.00			\$ 4,431,281.00		

	2010 Bond Allotment	2013 Bond Allotment	2016 E	ond Allotment
CIP Water	\$ 42,099,790	\$ 53,550,914	\$	81,331,136
CIP Wastewater	\$ 35,813,403	\$ 79,775,935	\$	48,801,428
CIP Electrical	\$ 1,748,119	\$ 2,383,897	\$	5,455,615
CIP Miscellaneous	\$ 7,740,688	\$ 3,614,254	\$	4,431,281
	\$ 87,402,000	\$ 139,325,000	\$	140,019,460

Bond Fund	Construction Fund Amount (\$M)	Estimated # of mont fund available for us	e	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	98	**	\$82.270	94.13%	10.07			
2013	\$139.325	61	**	\$135.877	97.53%	26.73			
2015	\$140.019	31		\$84.237	60.16%	32.61			
	* - End date November 2013 via CCU Resolution 06-FY2014								
	** - Includes mon	th of March 2019							

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 anyw	here indicates a change from the last report.

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

BID PACKAGE PW 09-02 <50% Complete	New Well Construction (AG-10-Y-8 & AG- 12) 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. GWA executed Change Order with GHD to update the design plans specific to the new well locations.	
Project Description:	The project is to construct three new production w as installation of a water main to connect the new the Ysengsong Reservoirs.	

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

BID PACKAGE	Fire Hydrant Replacement Phase I	
PW 14-01		
70% Complete	Activities/Notes:	
	Bid opening is scheduled for May 3, 2019.	
Project Description:	The work performed under this project consist of replacing all know dry barrel fire hydrants down to the lateral as well as any defective wet barrel fire hydrant. Where necessary the gate valve for the fire hydrant may also be replaced.	

BID PACKAGE PW 09-03, PW 09- 04 AND PW 09-11	Northern/Southern Tanks (Santa Rita, Santa Rosa and Sinifa) Construction	
70% Complete	Activities/Notes: Bid opening is extended until April 30, 2019.	
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 PW 05-07	Groundwater Well Production Meter Replacement Project	
50% Complete	Activities/Notes: Design drawings and specification under review by GWA engineering.	
Project Description:	The work performed under this project procurement shall consist of replacing the production well meter and associated well head piping tree.	

<u>RFP</u> WW 12-03	Hagatna Wastewater Treatment Plant (HWWTP) Interim Disinfection	
85% Complete	Activities/Notes: Project has been awarded and under fee negotiation.	
Project Description:	Conduct a feasibility and pilot study for the use of an interim disinfection process using Peracetic Acid (PAA) for our chemically enhanced primary treatment facility at the Hagåtña Wastewater Treatment Plant (HWWTP).	

BID PACKAGE	NDWWTP Upgrade to Secondary Project
OEA GRANT	
70% Complete	Activities/Notes:
-	Bid opening is extended until May 24, 2019.
Project Description:	The work performed under this project procurement shall consist of constructing new oxidation ditches, clarifier, headworks at the newly acquired property adjacent to the NDWWTP as well as a new disinfection facility within the existing NDWWTP. Some structures at the existing NDWWTP will undergo improvements works and a 16-inch watermain will be extended to the entrance of the existing plant.

BOX KEY FOR PROJECT:

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

C. CIP Water Section

INSPECTION CIP PW 05-02	Inspection & Maintenance Repairs to GWA Island-Wide Steel Water Tank Reservoirs Phase 2 (DCA)	Start Date: April 2010
80% Complete	Activities/Notes: GWA awaiting from A/E the new bid package for by-pass and repairs.	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) 95% (Design)	Activities/Notes: GWA received 100% design submittal. Review comments for specifications transmitted back to designer.	Completion Date: Design services during construction December 2020
N/A	Engineering design services	
Project Description:	The design project is intended to assess system water supply feed from the north as well as Ugum WTP and the water demands downstream from the Brigade BPS so as to reconfigure the piping into the BPS and resize the pumps to me system head requirements.	

DESIGN 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	Northern and Southern Guam Reservoir	Start Date:
PW 09-11	Design (TG Engineers)	May 2015
65% Complete	Activities/Notes: Santa Rosa, Sinifa and Santa Rita design to be packaged in one IFB. Package out to bid on 1/4/19. Inarajan – Land procurement second site related to new BPS's still on-going. Ugum – Both properties acquired by GWA. Design of new tank started.	Completion Date: Update: Due to property acquisitions issues for Inarajan and Ugum, design completion 6 months after property issue resolved.
CO 29 (b)(4)	Engineering design services	
Project Description:	The design services will consist of preparation of plans, specifications, and estimates (PS&E), which includes Basis of Design, design calculations, hydraulic modeling (EPANET), computational fluid dynamic modeling (CFD), construction schedule, topographical survey, property research, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction. The tank locations are Ugum, Santa Rita, Santa Rosa, Inarajan and Sinifa.	

DESIGN	Central Guam Reservoirs Design	Start Date:
PW 12-04	(GHD Inc.)	May 2015
65% Complete	Activities/Notes: Chaot #2 – Change Order complete. AIC started mobilization to site.	Completion Date: Update: Due to property acquisitions
	Tumon #2 – tank under construction. Hyundai – tank under construction. Piti – GWA still evaluating alternative solutions to storage needs in Piti area. Manenggon – 90% design near complete. Tumon #1 – GWA still waiting for GIAA relative to land issues. Design of new tank started.	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	Line Replacement Phase IV (Giant	Start Date:
PW 09-03	Construction)	February 14, 2016
92% Complete	Activities/Notes:	Completion Date:
	Change Order has been approved.	September 30, 2019
		per approved
		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	Asan Spring Rehabilitation Design	Start Date:
PW 05-15	(HDR)	August 24, 2016
95% Complete	Activities/Notes: GWA transmitted comments for the 100% design. Property use issue remains unresolved. GWA received A/E change order proposal to assist with permitting required for use/easement of NPS property and endangered species mitigation. Engineering design services	Completion Date: Design services during construction estimated June 2020
Project Description:	 Perform site visits and condition assessment for determine demolition and rehabilitation require equipment condition, structural condition, and e condition assessment shall include all discipling project. Review and validate the current property bound confirm the available space for the project developermits as needed. Perform an environmental impact study and propermits as needed. Perform an archeological and historical resource potential impact to the project, prepare all required. Coordinate with Guam Historic Resources Divireservation Office (SHPO) on historical resource and Wildlife Resources (DAWR) on vegetation necessary reports and documents required by Identify the existing and projected service area Identify and recommend conceptual water trea Perform a Class 4 engineering cost estimate ar American Association of Cost Engineers (AAC) Estimate Classification System for construction and are necessary to execute the project. All costs dollars and escalated to the estimated midpoin 	ment, process electrical system. Site es to execute the dary information to elopment. epare all required ces study to identify ired permits as sion State Historic urces study. Prepare ed by SHPO. ure, Division of Aquatic clearance. Prepare all DAWR. a, period of design. tment system. ccording to the E) International Cost of fee. Cost must administration that will be in current

CONSTRUCTION PW 09-11, PW 12-05	Yigo/Astumbo Tank Construction (Pernix)	Start Date: December 1, 2016
98% Complete	Activities/Notes: Yigo #1: tank on-line, final punch list on-going, pump station not commissioned yet. Yigo #2: tank on-line, punch list on-going. GWA received inspection report for existing 2.5MG steel tank, cost for tank repairs under evaluation. GWA working to Change Order repair work for Astumbo #2 steel tank. New Concrete Astumbo #1 was placed on line however remaining work include electrical and waterline.	Completion Date: 10/31/18 (LD are being totaled)
	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
98% complete	Activities/Notes: Processing submittals and on-site inspection	Completion Date:
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
25% complete	Activities/Notes: Conducting field inspection, reviewing submittals from contractor.	Completion Date: Due to changes with AIC contractor CM services to extend to 04/31/20
NA	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of three water reservoirs; 0.5MG Chaot #2, 1MG Tumon #2 (Nissan)	

and 1MG Hyundai. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be
delivered efficiently and professionally.

CONSTRUCTION PW 12-04, PW 12- 06 AND PW 09-11	Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction (AIC)	Start Date: February 8, 2018
25% Complete	Activities/Notes: Nissan tank site: tank wall three pour ongoing 4/15; formwork and off-site piping work on- going.	Completion Date: April 30, 2020
	Hyundai tank site: Temporary tank in service; by-pass line installation complete. Demo of steel tank started; Foundation work for BPS on-going.	
	Chaot #2 tank: permit received mobilization on- going.	
	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. Construction Management services	Completion Date: June 2019
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of three water reservoirs; 1MG Santa Rosa, 1MG Sinifa and 1MG Santa Rita. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

DESIGN	Pressure Zone Realignment and Tank	Start Date:
CIP PW 05-12	Repair-Replacement (GHD)	August 2018
10% Complete Design will be done in Phases. Phase 1 - 90% (Design)	Activities/Notes: GWA has reviewed the 90% submittal from the 1st Phase (six sites). GWA anticipating receiving 100% plans and specification 5/15/19. Water audit for District Metering Area (DMA) started.	Completion Date: Due to property acquisition issues GWA anticipate December 2020
N/A	Engineering design services	
Project Description:	The design project is intended to assess current and	
	recommended pressure zones, and design and install control	

valves (PRVs, PRSVs) to properly control and measure system flow between zones. Scope also includes setting up pilot DMAs; and design for new or repaired water tanks needed to complete the court order tank requirements.

D. CIP Wastewater Section

DESIGN WW 11-08	Agat-Santa Rita WWTP Replacement (DCA)	Start Date: October 2014
100% Design	Activities/Notes: CCU approved funding increase for design services with Change Order executed 012819. Design services during construction work on- going.	Completion Date: Nov. 2015 (design); June 2019 (design services during construction)
CO 11	Engineering design services	
Project Description:	The engineering design consultant is required to design a new wastewater treatment facility that will meet secondary treatment limits. The new facilities will incorporate provisions for redundancy to improve reliability and facilitate operations and maintenance activities at the existing facility	

CONSTRUCTION MANAGEMENT WW 11-08	Agat Santa Rita WWTP CM (GHD)	Start Date: End of June 2019
100% (PH 1) 100% Complete (PH 2, Part 1) 93% Complete (PH 2, Part B)	Activities/Notes: CCU approved funding increase for CM services with Change Order executed 012819. CM work on-going.	Completion Date: Completion date to coincide with construction completion.
CO 11	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of the Agat Santa Rita WWTP Phase II project. GWA plans to replace the existing wastewater treatment plant for a new plant that can meets permit limits. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

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

DESIGN WW 09-08, WW11-03	Baza Gardens Cross Island Sewer Design (DCA)	Start Date: February 5, 2016
100% Design 75% Construction Services	Activities/Notes: DCA providing engineering services during construction.	Completion Date: Delayed, June 2019 projected
CO 11	Engineering design services	
Project Description:	The intent of this project for an engineering firm to prepare design drawings and specification for a sewer conveyance from the Baza Garden WWTP to the new Agat Santa-Rite WWTP. The design will take into account growth in the Baza Gardens/Talofofo areas as wells as new connection along the Route 17 route.	

DESIGN WW 09-06	Bayside SPS Improvements Design (EMPSCO)	Start Date: July 29, 2016
100% Design 0% Construction Services	Activities/Notes: Bid will be advertised late April or early May.	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
99% Complete	Activities/Notes: Gravity and new SPS active; Work to complete punch list items on-going. GWA negotiating potential Change Order to address water seepage around SPS. SCADA System is not complete.	Completion Date: Change requests via Change Orders may be completed by Mid-May 2019
	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: Continuous monitoring of Phase III completion, and added features for Phases I and II.	Completion Date: End of June 2019

	Construction Management services	
Project Description:	The work performed under this project shall consi Management and Inspection Services for the cons main, force mains and sewer pump station as wel basin at the Baza Garden WWTP.	struction of gravity

CONSTRUCTION WW 09-08, WW 11-03	Baza Gardens Cross Island Road Sewer Conveyance Construction Phase II (BME and Sons)	Start Date: March 2017
99% Complete	Activities/Notes: SCADA system and punch list items on-going. Construction services	Completion Date: Mid-May 2019
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
85% Complete	Activities/Notes: Disposal of sludge from existing tankage is high - additional cost; EQ Tank needed online prior to rainy season.	Completion Date: End of June 2019
Project Description:	Construction servicesThe work performed under this project consist of construction of, but notlimited to, 10,481' of force mains and sewer pump station at existingWWTP, equalization tanks, stand-by generator, improved headworks,grit removal system, and associated equipment.	

CONSTRUCTION	Umatac Merizo WWTP Design Build	Start Date:
WW 11-04	Improvements Project (CoreTech)	June 2017
100% Design 50% Construction	 Activities/Notes: Headworks gate remedy approved. Walls to be chipped to make space for gate frames and grouted in-place. Materials proposed for treating the rebar, bonding agent, and grout material approved. DN Tank completed the tank and ladders. Interior inspection performed and deficiencies noted corrected 3/4/19. UV structure walls poured. Northern terrace completed, receiving effluent to irrigate planted grasses. Grading of Southern terrace underway. Change Proposals: Compensation request for multiple weather delays anticipated. CO #5 - unanticipated rock excavation - evaluated, reviewed with GWA and response sent to CHL. Applicable percentages for overhead and profit discussed and agreed to. CHL to resubmit accordingly. 	Completion Date: August 2019

	 CO #6 - unanticipated drain to capture groundwater flow in tank area and overland flow terraces - evaluated, reviewed with GWA and response sent to CHL. Applicable percentages for overhead and profit discussed and agreed to. CHL to resubmit accordingly. CO #7 - permitting, GWA delays, and delay due to rock and water infiltration - evaluated, reviewed with GWA and response sent to CHL. BC and CTHD discussed CO#7 to negotiate alterations to initial GWA position. Recommendations sent to GWA and CTHD. Applicable percentages for overhead and profit discussed and agreed to. CHL to resubmit if they agree with BC recommendations. Additional RCOs anticipated. Will be addressed when received. Payment application #11 draft received 4/15. 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 terraces are being regraded to ensure appropriate distribution of effluent through the entire terrace.	

CONSTRUCTION MANAGEMENT WW 11-04	Umatac Merizo WWTP Design Build Improvements Project (SSFM Inc)	Start Date: September 7, 2017
65%	Activities/Notes: Continuing on-site inspection of field activities.	Completion Date: August 2019
Project Description:	Construction Management services The work performed under this project procurement shall consist of Construction Management and Inspection Services for the improvements works at the aeration basin, new sewer pump station, overland field improvements, effluent storage tank. The overall goal of the On-Site Representative is to ensure materials are installed and installation conforms to the contract plans and specifications and that all required testing is performed and passes.	

DESIGN WW 09-01	Yigo SPS Flood Protection and Rehabilitation Design (AECOM)	Start Date: August 2, 2018
90% Complete	Activities/Notes: GWA received 90% design submittal. Design under review with major items being modified. Engineering design services	Completion Date: June 2019
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 Control and Data Acquisition (SCADA) system for wastewater systems, and to provide support servi construction. The 22 sites will consist of a combin such as production wells, reservoirs, booster pum wastewater sites include sewer treatment plants a stations. Executed by approved change orders, n original design scope has changed from 22 sites t of High Water Alarm for 20 critical sewer pump sta added. Scope also includes bid and construction s build project of GPWA SCADA EMS project.	GWA's water and ces during bid and ation of water facilities p station and and sewer pump number of sites in to 19 sites and design ations has been

CONSTRUCTION EE 09-08, EE 09-09	SCADA Phase A1 Construction (G4S Security)	Start Date: July 13, 2018
7% construction	Activities/Notes: Deductive change order with time extension pending contractor signature.	Completion Date: December 2019
	Construction services	
Project Description:	The work performed under this project procureme Construction of SCADA ready instrumentation at 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
35%	Activities/Notes:	Completion Date:
	Reviewing material submittals.	December 2019
	Construction Management services	
Project Description:	The work performed under this project procureme Construction Management and Inspection Service SCADA ready instrumentation at several water ar facilities throughout the island. The overall goal o Manager (CM) is to manage the entire construction project can be delivered efficiently and profession	es for the installation nd waste water f the Construction on process so that the

F. GIS Section

MAPPING MC 05-02	Island Wide Survey- (Duenas, Camacho & Ass.)	Start Date: December 2007
99% complete	Activities/Notes: Two maps are still pending due to issues associated with the property outside of GWA control. Change Order No. 2 was signed by the Contractor and GWA. \$3,370.16 was deducted from the final contract. Survey services	Completion Date: April 2019.
	Survey services	
Project Description:	The contracted land surveyor is required to condu- property valuation and mapping of property bound facilities are located, including the lots which are n GWA's name.	daries where GWA

MAPPING MC 05-02	Island Wide Survey PH II - (Duenas, Camacho & Ass.)	Start Date: August 30, 2017			
65% complete	Activities/Notes: First set (25): from previous remaining 15 that were remaining, seven have been submitted to DLM, and eight back to DCA for minor revision. Second set (20): from previous remaining 10 property maps GWA still waiting for DCA to revised signatory block due to new administration. Third set (20): 20 maps submitted to GWA for review and comment.	Completion Date: June 2019			
	Survey services				
Project Description:	The work performed under this project procureme professional land surveyor conducting field work t existing government properties as a means of sev the larger property to be deeded to GWA. Survey all necessary maps and documents for recording	o mark corners of /ering out portions of /or shall also prepare			

G. Permits Section

PERMITS MONTHLY REPORT 2019

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

r broonlage no	
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 4/16/19	
1	Northern District SSES & I/I Study	study (SSES) and inflow and infiltration (I/I) study designed to evaluate high I/I areas within the	J. Davis	Design	1	10/10/2014	2/29/2016	\$ 792,979.97	Stanley	100% Complete.	
				Construction				The project does n	roject does not involve construction.		
		Northern sewer basin with the goal of identifying projects to eliminate them.		Const. Mgmt							
2	Southern SSES Rehabilitation	Rehabilitation of segments of sewer lines in Umatac, Merizo,	Brown & Caldwell	Design				The design was pre	viously comple	ted under bond funding.	
	(Agat-Santa Rita- Umatac-Merizo)	Agat, and Santa Rita where the Sanitary Sewer Evaluation Study recommends rehabilitation.		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	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	
		concrete that is dilapidated and some areas have disintegrated crowns.		Construction	2	11/9/2018	3/8/2020	\$6,275,782.88	InfraTech	 CM working with contractor to work through permitting, submittals, and schedule; Contractor working through submittals for permits, in particular the bypass. InfraTech has finished CCTV/Cleaning of section around break; they are confident they can do spot repair and line. Subcontractor to return back to island beginning of May to continue CCTV of other sections when Vactor truck arrives; all ID of pipes recorded for CIPP orders. 	
				Const. Mgmt	2	8/3/2017	3/8/2020	\$ 870,610.41	DCA	o CM working with contractor to work through permitting, submittals, and schedule.	
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	3	8/31/2017	10/1/2018	\$ 4,554,451.00	ProPacific	 PPBC still needs to complete bench/channel on SMH #9 & #10. Working on last pipe between SMH #9 and 10. Mandrel tests completed. No deficiencies noted. Lamp testing completed. Flushing and CCTV ongoing; contractor working to get water meter to complete flushing. PPBC continues discharging/dewatering water to sewer; GWA metering discharge. GWA still has not ordered a stop. C0 expected for additional time and additional costs for archeological monitoring; CMworking with PPBC on PCOs. Contractor Invoice #14 with GWA. 		
				Const. Mgmt	3	9/19/2017	10/1/2018	\$ 584,725.00	TG Engineers	• CM work on-going.	

5	Brown & Caldwell Project	Brown & Caldwell to provide program management services	T. Cruz	Design	4	3/24/2015	2/28/2019	\$ 2,640,220.00	B&C	Project underway.	
	Management	and support.		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	Project complete	
				Construction				The project does no	ot involve const	ruction.	
				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	Brown & Caldwell	Design	6	5/27/2016	2/28/2018 (for design only)	\$ 1,758,247.00	AECOM	Design services during construction on hold until construction IFB is issued	
		to be rehabilitated are A-2, A-7, A- 12, D-5, & F-3.		Construction		8/15/2019	8/30/2020			GWA has received SRF grant 96902619 therefore GWA to work to schedule procurement for construction activities by May 2019 with actual start occurring sometime in August 2019.	
					Const. Mgmt		8/15/2019	8/30/2020			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	Brown & Caldwell	Design	7	6/24/2016	10/30/2017 for design only	\$ 572,089.00	TG Engineers	 TGE to provide engineering services during bid process. 	
		occur in Tumon San Vitores.		Construction		12/1/2018	12/31/2019			Given that the bids received for just the Tamuning Hotspots have come in much higher than the engineers cost estimates GWA is planning to separate the bids for Tumon Hotspots from the Tamuning bids	
				Const. Mgmt	See Project 15	5/31/2019	5/31/2020	See Project 15	Am Orient	Procurement 100%: Contract fully executed. CM services to be on hold until bidding restarted.	
9	Critical Sewer Pump Stations	Rehabilitation of various components of 7 pump stations	CDM	Design				The design will be i	ncorporated in	to the design/build package.	
	(7 stations)	that were identified to by the CDM design team: Macheche, Ypaopao, Astumbo 1, Fujita, Santa Ana, Southern Link, and Route 1.	J. Davis	Design/Build	1	8/8/2016	3/30/2018	\$ 1,542,979.01	ProPacific	Design Build complete	
				Const. Mgmt	4	9/9/2016	3/30/2018	\$ 329,353.52	Stanley	CM complete	
10	Sewer Pump	This project will design and	C. Yam	Design				The design will be i	ncorporated in	to the design/build package.	
	Station High Water Alarm Systems (20 stations)	installed telemetry equipment/SCADA type alarms that will alert when pump station failure occurs		Design	8	8/12/2016	02/30/2017	\$ 183,171.00	AECOM	Design complete	
		failure occurs.		Construction	4	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	Construction of the housing and installation of new generators for	B. Cruz	Design				The design will be ii	ncorporated in	to the design/build package.
	Power (2 stations)	the Casimero pump station (Mongmong) and the Namo pump station (Yona central).		Design/Build	2	6/24/2016	9/30/2017	\$ 362,692.53	ProPacific	Design Build project complete.
				Const. Mgmt				B. Cruz is the const	ruction manag	er.
12	RT4 Relief Sewer Line Rehabilitation and Replacement	Rehabilitation of sewer lines that are located from Agana McDonalds to Marine Drive that	Brown & Caldwell	Design	9	3/1/2016	4/22/2017	\$ 794,000.00	AECOM	AECOM to provided services during construtcion.
		have been known to overflow due to structural issues.		Construction	5	9/3/2018	12/26/2019	\$ 3,998,688.00	Insituform	Contractor working through permitting; permit still with GEPA. Working on submittals with CM. Still waiting on cost proposal for removing laterals, and additional traffic control/bypass for the removal of the concrete plug. Insituform adjusting schedule again delaying finishing date to beginning of November (an additional 2 months); reviewing contract to see if there is something that we can use to prevent this additional delay.
				Construction	6	9/25/2018	12/19/2019	\$ 3,407,848.00	ProPacific	 Contractor working through permitting; Building permit now with DPW. Working on submittals with CM. Still waiting on cost proposal for additional time and possibly addition overhead.
				Const. Mgmt	6	11/15/2018	12/31/2019	\$ 702,678.13	EMPSCO	 Planning and coordination on-going to ensure project site managed accordingly.
13	Groundwater Wells Rehabilitation	Rehabilitation of existing deep wells and/or in cases where pipe	Brown & Caldwell	Design				The design was pre	viously comple	ted under bond funding.
	(D-3, D-17, D-18, D- 22, M-9)	column needs replacing will be re-drilled. D-3, D-17, D-18, D-22, and M-9.		Construction	7	8/19/2016	3/30/2018 (completion date under analysis)	\$ 6,158,240.67	Pacific Rim	§ Main issues remaining: Reviewed Change Order Requests. Recommending approval of about \$176,000 (\$88,000 is power bills). D-03 permit issued by GEPA. They still need to complete the following items on D-03 per the original contract. Final control check out. They are using one of the spare ejectors that were not yet turned over to GWA (CM had it). Chlorination system operation verification performed 3/5/19. Final Record drawings submitted on 4/2.
				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 of segments of sewer lines in Windward Hills,	Brown & Caldwell	Design				The design was pre	viously comple	ted under bond funding.
	Rehabilitation (Baza Gardens- Talofofo)	Talofofo area where the Sanitary Sewer Evaluation Study recommends rehabilitation.		Construction	8	8/2/2016	Due to issue related to Santa Rita sewer project completion under analysis.	\$ 1,189,815.00		 § Lift Station Design/Construction: No -cost Change Order Documents PPBC signed on 4/2/2019. GWA/BC will not sign until after NEPA is completed. NEPA Letters sent to agencies 3/11/2019 Responses from: SHPO § Submit a draft AMDP for review § Submit a draft AMDP for review § Submit a draft TM after project is completed FWS § Recommends conducting surveys Property Owner Notification Sent draft notification letter to GWA for review/comment GWA developing sketch of area to include with notification letter USEPA Accepts using remaining funds towards the lift station § Baza Gardens: CIPP Status 3506-3510: Accepted. 4136-3418: Conditionally accepted due to blister. 4161-4161: Conditionally accepted due to bulges. 4213-4214: Requested re-CCTV § Talofori: Work is complete. § CM: Met with EMPSCO on 1/18/2019 to discuss remaining work on the project. Change Order No. 6: Additional CM services for Baza Gardens/Talofofo Closeout executed on 3/28/2019. CM activities will commence after all BG CIPP is accepted.
				Const. Mgmt	8	7/29/2016	5/28/2017	\$ 347,945.93	EMPSCO	 Met with EMPSCO on 1/18/2019 to discuss remaining work on the project. Change Order No. 6: Additional CM services for Baza Gardens/Talofofo Closeout executed on 3/28/2019. CM activities will commence after all BG CIPP is accepted.
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 transitioning plan required.
				Const. Mgmt	9	3/31/2019	3/31/2020	\$531,000.75	Am Orient	Procurement 100%: Contract fully executed. CM services to be on hold until bidding restarted.

16	Talofofo Sewer	Design and construction of 4	J. Davis							
10	Pump Stations (4 stations)	sewer lift stations in the Talofofo village where sewer lines are installed but never completed.		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	9	12/27/2018	4/27/2020	\$2,363,718	Giant Const.	Contractor submittals on-going. Still waiting for building permit.
				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 in	ncluded with th	e Talofofo Pump Station design project.
				Construction		5/15/2019	3/30/2020			
				Const. Mgmt		5/15/2019	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		6/15/2019	6/30/2020			USEPA Grant Funding FY18 in hand. Anticipate advertising construction April 2019.
				Const. Mgmt		6/15/2019	6/30/2020			USEPA Grant Funding FY18 in hand. Anticipate advertising CM April 2019.
19		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	10	9/16/2016	3/30/2018	\$ 379,994.38	Am Orient	CM work complete.
20	Asan-Adelup-	Rehabilitation of sewer line in	Brown & Caldwell	Design				Design cost covere	d under Projec	t 3 above.
	Hagatna Rt. 1 Sewer Line Rehabilitation and Replacement Emergency Repairs	Asan that collapsed and which is current fitted with a temporary pumping system.		Construction	10	3/8/2017	12/30/2017	\$ 2,470,658.00	Pacific Rim	Project complete. PMO to transmit project documents.
				Const. Mgmt	11	1/24/2017	12/30/2017	covered under Project 3	HDR	CM work complete.
21		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	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

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GUAM WATERWORKS AUTHORITY Balance Sheet March 31, 2019

SCHEDULE A

ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	Unaudited March 31, 2019	Audited September 30, 2018	Increase (Decrease)
Current Assets	March 31, 2013	September 30, 2010	(Decrease)
Cash			
Unrestricted (Schedule F) Restricted Funds (Schedule F)	8,197,513	3,094,379	5,103,135
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of \$6,605,545 at Mar 31, 2019 and \$5,516,074 at Sep 30, 2018	83,788,392 13,900,191	84,228,994 16,610,663	(440,602 (2,710,472
Federal Receivable	2,006,874	3,837,146	(1,830,272
Other Receivable	1,698,745	1,330,800	367,945
Materials & Supplies Inventory, Net of Allowance for Obsolescence of \$64,131 at Mar 31, 2019 and \$64,131 at Sep 30, 2018	2,914,230	3,342,557	(428,327
Total Current Assets	112,505,946	112,444,539	61,406
Property, Plant and Equipment Utility plant in service			
Water system	350,637,056	348,812,303	1,824,753
Wastewater system	300,407,082	300,053,427	353,655
Non-utility property	21,981,906	21,720,023	261,884
Total property	673,026,044	670,585,753	2,440,29
Less Accumulated Depreciation	(313,573,837)	(303,019,447)	(10,554,39
Land	3,861,120	3,681,120	180,000
Construction Work in Progress	216,046,845	178,443,926	37,602,91
Property, Plant and Equipment, net	579,360,173	549,691,353	29,668,820
ther noncurrent assets			
Restricted cash (Schedule F)	131,205,605	159,753,667	(28,548,062
Investments (Schedule F)	45,813,049	43,097,913	2,715,130
Other Prepaid Expenses Total other noncurrent assets	<u>739,386</u> 177,758,039	<u>677,828</u> 203,529,408	61,558 (25,771,368
iotal Assets			
otal Assets	869,624,157	865,665,299	3,958,858
eferred outflows of resources			
Debt defeasance due to bond refunding	12,393,584	12,810,787	(417,20
Deferred outflows from pension	4,233,576	4,220,075	13,50
Deferred outflows from OPEB otal Assets and Deferred Outflows of Resources	9,070,814 895,322,131	9,070,814 891,766,976	3,555,15
<u>urrent Liabilities</u> Current maturities of long-term debt Series 2010 Bond	1,800,000	1,800,000	-
Series 2014 Refunding	3,620,000	3,620,000	-
Series 2017 Refunding	295,000	295,000	-
Notes Payable	3,286,627	3,203,870	82,75
Accounts Payable -Trade	4,803,002	5,442,000	(638,99
Interest Payable	6,413,354	6,427,669	(14,31
Accrued Payroll and Employee Benefits	1,603,257	1,608,219	(4,96
Accrued Annual Leave	1,069,408	1,059,161	10,24
Current portion of employee annual leave	614,673	607,382	7,29
Contractors' Payable	13,087,970	25,680,792	(12,592,82
Customer and Other Deposits	2,152,371	2,131,242	21,12
Other Liabilities	82,446	106,997	(24,55
Total Current Liabilities	38,828,109	51,982,331	(13,154,22
ong Term Debt, less current maturities	4 005 000	4 005 000	
Series 2010 Revenue Bond Series 2013 Revenue Bond	1,895,000	1,895,000	-
Series 2013 Revenue Bond	172,630,000 68,900,000	172,630,000 68,900,000	-
Series 2016 Revenue Bond	143,310,000	143,310,000	-
Series 2017 Refunding Bond	107,365,000	107,365,000	-
Unamortized Bond Premium/Discount	32,582,365	33,300,619	(718,25
Notes Payable	656,311	2,325,154	(1,668,84
Net pension liability	45,451,352	45,451,352	
Net OPEB obligation	88,950,661	88,950,661	-
Employee Annual Leave, Less Current Portion	826,194	822,821	3,37
otal Liabilities	701,394,993	716,932,938	(15,537,94
eferred inflows of resources:	/		
Deferred inflows from pension Deferred inflows from OPEB	1,870,114 8,741,900	1,857,164 8,741,900	12,950
otal Liabilities and Deferred Inflows of Resources	712,007,007	727,532,002	(15,524,996
·		164,234,973	19,080,151
Vet Assets	183,315,124	104,234,975	10,000,10

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GUAM WATERWORKS AUTHORITY

Statement of Operations and Retained Earnings Comparative Budget vs. Actual for the period ending March 31, 2019 SCHEDULE B

	Month to	Variance		
	Budget A March-19	Actual (Unaudited) March-19	Favorable / (Unfavorable)	
OPERATING REVENUES	March-19	Warch-19	(Ullavorable)	
Water Revenues	5,813,246	6,027,093	213,84	
Wastewater Revenues	3,247,265	3,210,062	(37,20	
Legislative Surcharge	294,667	299,746	5,07	
Other Revenues	38,254	54,619	16,36	
System Development Charge	97,773	72,819	(24,95	
Total Operating Revenues	9,491,205	9,664,339	173,13	
OPERATING AND MAINTENANCE EXPENSES				
Water Purchases	687,577	569,607	117,97	
Power Purchases	1,231,315	1,231,315		
Total Utility Costs	1,918,892	1,800,922	117,97	
0.1.1	1 700 005			
Salaries and Wages	1,782,365	1,657,555	124,81	
Pension and Benefits	562,238	519,858	42,38	
Total Salaries and Benefits	2,344,603	2,177,412	167,19	
Capitalized Labor and Benefits	(308,333)	(308,333)	(
Net Salaries and Benefits	2,036,269	1,869,079	167,19	
Administrative and General Expenses				
Sludge removal	153,771	151,750	2,02	
Chemicals	185,801	185,327	47	
Materials & Supplies	141,606	79,246	62,36	
Transportation	38,648	38,308	33	
Communications	15,054	14,357	69 8.41	
Claims	8,417	-	- /	
Insurance Training & Travel	79,461 30.417	75,172 14,457	4,28 15,96	
Advertising	12,500	8,149	4,35	
Miscellaneous	92,632	86,189	6,44	
Regulatory Expense	25,029	17,455	7,57	
Bad Debts Provision	191,148	190,562	58	
Total Administrative and General Expense	974,483	860,971	113,51	
Depreciation Expense	1,759,065	1,759,065	(
Contractual Expense	, ,	,,	,	
Audit & Computer Maint.	58,783	33,698	25,08	
Building rental	38,361	35,211	3,15	
Equipment rental	79,980	78,658	1,32	
Legal	512	-	51	
Laboratory	34,862	1,966	32,89	
Other	213,458	172,019	41,43	
Total Contractual Expense	425,956	321,551	104,40	
Retiree Supp. Annuities and health care costs	249,871	238,096	11,77	
Contribution to Government of Guam	51,975	50,000	1,97	
Total Retiree Benefits	301,846	288,096	13,75	
Total Operating Expenses	7,416,512	6,899,685	516,82	
Earnings (Loss) from Operations	2,074,693	2,764,654	689,96	
Interest Income-2010/13/14/16/17 Series Bond	84,943	281,057	196,11	
Interest Income-Other Funds	13,856	59,085	45,22	
Interest Income-SDC	2,072	17,868	15,79	
Interest Expense- 2010/13/14/16/17 Series Bond	(2,387,785)	(2,137,785)	250,00	
Interest Expense- ST BOG	(19,762)	(16,959)	2,80	
Federal Expenditures	-	-	-	
Loss on Asset Disposal AFUDC	- 1,157,306	1,157,306	-	
Amortization of Discount. Premium and Issuance Costs	(17,798)	119,709	137,50	
Defeasance due to bond refunding	(16,201)	(69,534)	(53,33	
Deferred outflows from pension	(10,201)	(03,004)	(55,55	
Prior Year Adjustment	-	(2,607)	(2,60	
Total non-operating revenues (expenses)	(1,183,369)	(591,859)	591,51	
Net Income (Loss) before capital contributions	891,324	2,172,795	1,281,47	
Capital Contributions		, ,	, - ,	
Grants from US Government	5,533,205	2,091,233	(3,441,97	
Grants from GovGuam & Others	-	-	-	
Total Capital Contributions	5,533,205	2,091,233	(3,441,97	
Change in Net Assets	6,424,529	4,264,028	(2,160,50	
Debt Service Calculation				
Earnings From Operations	2,074,693	2,764,654		
System Development Charge	(97,773)	(72,819)		
Retiree COLA	51,975	50,000		
Interest/Investment Income	13,856	59,085		
Depreciation Relance Available for Dabt Service per Section 6.12	1,759,065	1,759,065		
Balance Available for Debt Service per Section 6.12	3,801,817	4,559,986		
Working Capital Reserve Available for Debt Service	934,811	954,001		
Transfer to Working Capital- Debt Service Reserve	-	-		
Transfer to Working Capital- O&M Reserve	-	-		
Balance Available for Debt Service inclusive of reserves	4,736,628	5,513,986		
Debt Service		170 05-		
Principal	476,250	476,250		
Interest	2,137,785	2,137,785		
Total	2,614,035	2,614,035		
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.74		
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.81	2.11		

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

SCHEDULE C

Materwater Revenues 3.210,002 3.191,724 1 Logister Sectorage 287,46 289,209 1 System Dovelsomes 6,4619 43,224 1 System Dovelsomes 9,64513 43,224 1 OPERATION AND MANTENANCE EXPENSES 9,666,333 6,144,635 51 Water Purchases 1,231,315 1,223,874 16 Total Utility Costs 1,280,522 1,44 43 Statics and Bonefits 1,267,755 1,444,423 10 Capitalized Labor and Bonefits 1,308,527 1,256,527 1,256,528 1,23 Administrative and Bonefits 1,265,527 1,244,542 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,23 1,33 1,34 1,34 1,34 1,34 1,34 1,34 1,34 1,34 1,34 1,34 1,34 1,34 1,35 1,35 1,34 1,35 1,34 <th></th> <th>Month t Actual (Unaudited) March-19</th> <th>Actual (Audited) March-18</th> <th>Variance Favorable / (Unfavorable)</th>		Month t Actual (Unaudited) March-19	Actual (Audited) March-18	Variance Favorable / (Unfavorable)
Waterwater Revenues 3.210,062 3.191,784 1 Lagislative Sucharge 299,74 289,74 289,72 Other Revenues 5.4019 3.234 1 System Devices 96,60330 9,144,633 51 OPERATION AND MAINTENANCE EXPENSES 96,603,330 9,144,633 51 OPERATION AND MAINTENANCE EXPENSES 96,603,330 9,144,632 51 Water Purchases 1,223,315 1,223,874 0 Total Villy Costs 1,805,922 1,44 1,444,423 1(1) Subtime and Maynes 1,875,55 1,464,423 1(1) 1 Subtime and Mericits 1,875,55 1,464,423 1(1) 1 Net Salaries and Benefits 1,865,97 1,545,542 0,32 0,333 (2,66,147) 1 Net Salaries and Benefits 1,865,97 1,244,542 0,32 0,333 (2,66,147) 1 Net Salaries and Benefits 1,87,57 1,464,654 0,33 0,303 1,464,423 0,103 1 Salaries and				
Legislive Surcharge 289,746 289,200 1 Other Revorues 72,219 89,249 (1) Total Openating Revorues 9,641,333 51 OPN Water Parchases 9,649,33 51 Power Parchases 1,800,822 1,847,822 14 Statistics and Wages 1,807,555 1,444,423 (19) Power Parchases 1,809,822 1,847,822 14 Statistics and Bondits 1,899,5333 (265,147) 15 Total Ullity Costs 1,869,5333 (265,147) 15 Administrative and General Expenses 1,875,55 1,444,422 (2) Studge removal 151,750 125,633 (2) (2) Cheminaks 3,899 10 2,262 (4) Administrative and General Expenses 151,750 125,633 (2) (2) Cheminaks 3,899 144,452 (2) (4) (2) (2) Administrative and General Expense 7,712 76,005 (1) (1) (2)				495,79
Other Revenues 54.619 43.224 1 System Devolupment Charge 72.819 89.249 (1 Other Revenues 0.666.339 9.144.833 51 Other Aurchases 59.807 727.778 15 Water Purchases 1.600.822 1.917.622 14 Total Utility Costs 1.800.822 1.917.622 14 Statines and Wages 1.657.55 1.644.423 (14 Total Utility Costs 1.800.822 1.917.626 (14 Total Utility Costs 1.800.92 1.844.842 (20 Statings and General Expenses 1.800.97 1.844.842 (20 Statings and General Expense 1.917.50 125.638 (20 Communications 1.43.57 1.47.78 1 Communications 1.44.57 1.47.78 1 Tarseportation 38.206 64.001 22 Communications 1.47.77 17.050 1 Tarseportation 38.206 52.101.202.0 1 Tara				18,27
System Development Charge 7.2.819 8.9.249 (1 OPERATING AND MAINTENANCE EXPENSES 9.661.339 51.4383 51 OPERATING AND MAINTENANCE EXPENSES 9.661.339 51.4383 51 Water Furchases 1.231.315 1.223.372 1 Protein and Bonefits 1.800.922 1.44 423 Statires and Wages 1.667.555 1.444.423 (10) Pransic and Bonefits 2.177.412 1.640.829 (20) Captalized Lobit and Benefits (200.822) 1.625.327 1.826.829 (20) Schemicals 1.855.327 1.826.825 (20) (2				10,53 11,32
Total Operating Revenues 9,664,339 9,144,833 51 OperAtino AD MANTENACE EXPENSES 569,607 723,744 15 Water Purchases 1,231,315 1/22,074 1 Total Utility Costs 1,800,922 1,847,822 14 Statisties and Wages 1,657,555 1,644,423 10 Presion and Benefits 2,131,315 1,222,042 14 Total Utility Costs 1,869,073 723,744 15 Operation and Benefits 1,869,073 722,764 16 Total Utility Costs 1,869,073 722,869 13 Administrative and Benefits 2,077,412 1,800,072 14 Transportation 38,306 44,001 2 Communications 1,43,57 14,764 14 226 Calamas 77,72,74 16,80,071 2 16 Materials & Supplies 72,246 180,926 10 Transportations 71,727 75,000 10 Tanaportations 71,727 75,000				(16,43
OPERATING AND MAINTENANCE EXPENSES 569,607 723,745 15 Power Purchases 1,221,315 1,223,874 () Toral Unity Costs 1,800,822 1,947,622 1,44 Staties and Wages 1,657,655 1,464,423 () () Capitalize Labor and Benefits 2,117,412 1,840,689 (3) (3) Capitalize Labor and Benefits (3,60,333) (2),864,147,7 1 (3) (3) (2),864,147,7 1 Net Staties and Benefits (3,60,33) (2),864,147,7 (1) (3) (3) (2),864,147,7 (1) (3) (3) (2) (3) (3) (2) (3) (3) (2) (3) (3) (3) (3) (4) (4) (3) (4)<				519,50
Prover Purchases 1.231,315 1.223,874 (Toroll Ulling Costs 1.800,822 1.947,622 1.4 Salaries and Benefits 519,656 3.76,266 (.4) Toroll Subars and Benefits 2.177,472 1.840,689 (.3) Capitabara Labor and Benefits (.306,330) (.286,147) 1 Admitstrative and General Expenses 1.850,757 1.84,462 (.22 Subdays removal 1.51,750 1.25,638 (.2 (.2 Chemicals 1.92,77 1.44,542 (.2 <t< td=""><td></td><td></td><td>-,,</td><td>,</td></t<>			-,,	,
Total Utility Costs 1.820.922 1.947.622 14 Statistics and Benefits 510.968 37.6.465 (14 Total Statistics and Benefits 2.177.412 1.860.679 (38 Capitalized Labor and Benefits (38,333) (28,147) (38 Administry 1.859.079 1.544.542 (32 Chemicals 1.859.079 1.544.542 (32 Watarials & Supples 1.917.7475 (30 (33 Communications 14.4357 147.456 (44 Claims - 1.080.979 1.544.542 (44 Materials & Supples - 1.080.979 1.64.542 (44 Claims - 1.080.979 1.64.543 (14 Claims - 1.080.971 17.55 (14 Total Administrative and General Expense 860.871 978.632 (15 Depreciation Expense 1.990.6697 (15 (15 (15 (16 (16,85 89.077 11 Laboratory 1.996.63.841	Water Purchases	569,607	723,748	154,14
States and Wages 1.657.555 1.464.423 (19) Pension and Benefits 21.77.412 1.840.689 (33) Capitalized Labor and Benefits (305.333) (246.147) 1 Mission and Benefits (305.333) (246.147) 1 Admission and Benefits (305.333) (246.147) (305.333) Transing Admission and Benefits (306.33) (306.33) (400.33) 1 Transing A Taviel (44.357) (44.357) (44.357) (44.357) (44.35) (11) Training A Taviel (44.477) (246.242) (246.22) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11)	Power Purchases	1,231,315	1,223,874	(7,44
Persion and Benefits 519.858 376.266 (14 Total Salaries and Benefits (206.333) (296,147) 1 Net Salaries and Benefits (306.333) (296,147) 1 Statigs termoval 151,750 (125,538) (2 Chemicals 5,327 162,625 (1 Materials & Supplies 73,246 180,959 10 Training & Tavel 151,750 125,537 12 2 Advertising 8,149 14,457 22,862 14 Advertising 8,149 14,226 15 16 Miscellaneous 86,189 84,664 (C 16<	Total Utility Costs	1,800,922	1,947,622	146,70
Persion and Benefits 519.888 376.286 (14 Total Salaries and Benefits 2.177.412 1.84.0689 (33 Capitalized Labor and Benefits (306.333) (286.147) 1 Net Salaries and Benefits (306.333) (286.147) 1 Studge removal 151.750 (125.538) (2 Chemicals 152.527 182.625 (1 Materials & Supplies 73.246 180.965 10 Training & Tavel 14.377 22.862 (1 Advertising 8.149 14.226 (1 Operation out and the second seco	Salaries and Wages	1 657 555	1 464 423	(193,13
Total Salaries and Benefits 2,177,412 1,440,648 (30,33) (226,147) 1 Net Salaries and Benefits (30,33) (226,147) 1 1,545,542 (32 Sildage removal (15,750) 1,545,542 (33 (32 (34 (33 (32 (34 (33 (34 (33 (34 (33 (34 (33 (33 (34 (34 (35				(143,59
Capitalized Labor and Benefits (306.333) (296.147) 1 Net Sciences and Benefits 1.864.942 (32 Administrative and General Expenses 15.1750 125.658 (2 Studge removal 185.327 182.625 (Matterials & Supplies 19.33.08 64.001 2 Communications 14.357 14.750 1 Communications 14.457 122.653 (Communications 14.457 122.652 (Communications 14.457 122.653 (2 Communications 14.457 122.652 (1				(336,72
Net Salaries and Benefits 1.866.079 1.544.542 0.22 Situdge removal 151.750 125.638 0.2 Chemicals 195.2625 0 Materials & Supples 79.246 180.995 0 Transportation 38.308 64.001 2 Communications 14.357 125.638 0 Claims - 12.646.54 0 Transportation 38.308 64.001 2 Communications 14.437 12.663 1 Transportation 75.172 70.005 1 Muticalianeous 86.189 46.564 0 Meclalaneous 86.199 45.658 1 Communication Kapense 17.76.022 11 Contractual Expense 190.562 160.246 1 Audit & Computer Maint. 33.698 58.815 2 Subiding remails 35.211 36.603 42 Contractual Expense 280.966 712.414 42 Contractua				12,18
Sludge removal 151,750 125,658 (2 Chemicals 185,327 125,625 (0 Transportation 38,308 64,001 2 Communications 14,357 14,756 2 Claims 14,357 14,756 2 Claims 14,457 22,652 4 Advertising 8,149 14,257 22,652 Advertising 8,149 14,252 1 Miscellaneous 86,189 84,554 (1 Bad Debt Provision 190,652 160,245 (1 Total Administrative and General Expense 35,058 58,815 2 Building rental 35,521 36,063 1 36,063 1 Laboratory 172,019 200,655 3 0 1 1,066 144,17 Contractual Expense 231,651 130,203 1 1 1 1,066 1 1,051 1 1 1,051 1 1,051 1 1,051				(324,53
Chemicals 185.327 182.625 (1) Materials & Supples 79.246 180.995 10 Transportation 38,308 64.001 2 Communications 14,457 12.662 11 Insurance 75,172 76,005 11 Training & Travel 14,457 22.662 11 Advertsing 81,499 14,226 12 Macoellaneous 86,199 84,564 (1) Depreciptic Matministrative and General Expense 190.562 100.246 (1) Depreciptic Matministrative and General Expense 176.066 1,666,877 (1) Audit & Computer Maint. 35.211 36.603 2 10 Audit & Computer Maint. 35.211 36.603 2 11 10 Laboratory 1,666 44.441 3 3 3 3 Total Contractual Expense 238.096 72.2441 42 4 4 Contractual Expense 2.80.097 2.255.374 2 <td< td=""><td>Administrative and General Expenses</td><td></td><td></td><td></td></td<>	Administrative and General Expenses			
Materials & Supplies 72/246 180.995 10 Transportation 33,308 64,001 2 Communications 14,357 14,756 2 Claims - 10,803 1 Insurance 75,172 76,005 7 Training & Travel 84,449 14,226 4 Miscelianeous 86,189 84,564 (Regulatory Expense 17,455 22,121 1 Total Administrative and General Expense 660,971 978,632 11 Depreciation Expense 33,698 58,815 2 Audit & Computer Maint. 33,691 58,815 2 Contractual Expense 1966 92,007 1 Laboratory 1,968 383 42 Other 1,968 14,414 42,226 Total Particle Expense 22,051 419,271 2 Controlutic and haping cross from Operations 2,764,654 19,352,11 42 Total Administrative and Partins 2,26,957	Sludge removal	151,750	125,638	(26,11
Transportation 38,308 64,001 2 Communications 14,457 14,766 1 Claims - 10,803 1 Insurance 75,172 76,005 1 Advertising 14,457 22,652 1 Advertising 81,189 84,564 0 Regulatory Expense 17,455 22,121 1 Bad Debts Provision 190,562 180,246 1 Otratactual Expense 33,698 58,815 2 Audit & Computer Maint. 33,698 58,815 2 Building rental 7,858 89,207 1 Legal - - - Total Contractual Expense 221,557 419,721 9 Prefere Sup. Annulies and health care costs 230,096 662,281 42 Contractual Expense 230,096 662,281 42 Contractual Expense 230,096 662,281 42 Total Retire Expense 50,000 49,333 14 <td></td> <td>185,327</td> <td></td> <td>(2,70</td>		185,327		(2,70
Communications 14.357 14.756 Claims - 10.803 1 Insurance 75.172 76.005 1 Training & Travel 8.144 14.457 22.652 Adventsing 8.144 14.267 22.652 Adventsing 8.149 14.267 22.652 Depresention Expense 19.0562 180.246 (1 Total Administrative and beath care costs 32.809 682.551 22 Total Contractual Expense 228.096 712.414 24 Total Refere Benefits 72.019 200.655 2 Total Refere Benefits 2280.096 712.414 42 Total Contractual Expense 2.0007 41.352 11 Interest Income-Other Funds 2.809.655 2				101,74
Claims - 10.03.0 1 Insurance 75,172 76,005 1 Advertising 14,457 22,652 1 Advertising 81,149 84,256 0 Regulatory Expense 190,552 180,246 0 Contractual Expense 190,552 180,246 0 Depreciation Expense 190,552 180,246 0 Contractual Expense 1759,055 1.606,687 0 Audit & Computer Maint. 33,698 58,815 2 Building rental 7,856 89,207 1 Legal - - - Total Contractual Expense 221,551 419,721 9 Total Contractual Expense 232,056 682,581 42 Controlution to Government of Guam 50,000 49,833 30 Total Retiree Benefits 280,066 712,414 42 Interest Income-20tor Funds 50,000 49,832 1 Total Retiree Benefits 280,066				25,69
Insurance 75,172 76,005 Training & Treel 14,457 22,652 Advertising 8,149 14,256 Miscellaneous 86,189 84,564 (Bad Debts Provision 190,562 180,246 (1 Total Administrative and General Expense 060,071 978,632 11 Depreciation Expense 1,759,065 100,668 (15 Audit & Computer Maint. 33,698 58,815 2 Building rental 78,658 89,207 1 Laboratory 1,966 34,441 3 Other 122,019 200,0655 2 Total Contractual Expense 28,096 712,413 42 Contractual Expense 128,096 712,414 42 Total Contractual Expense 28,096 712,414 42 Contractual Expense 28,096 712,414 42 Contractual Expense 110,573,306 1,417,306 1,414,716 42 Contractual Expenditumes 2,764,654 1				39
Training & Travel 14.457 22.652 Advertising 8.149 4.266 Miscellaneous 86,189 84.564 (Regulatory Expense 17.455 22.121 (Bad Debts Provision 190.562 180.246 (1 Contractual Expense 960.971 978.852 (1) Contractual Expense 1,759.065 1.606.687 (1) Contractual Expense 35.211 36.063 2 Audit & Computer Maint. 33.698 58.815 2 Building renal 78.658 89.207 1 Legal - - - Total Contractual Expense 221.651 419.721 9 Retires Sup. Annutities and headra costs 50.000 49.833 42 Contratual Expense 201.01371.41617 42 42 Total Contractual Expense 208.056 72.200.618 30 Earning Lespense 201.01371.41617 56.57 22 42 Total Contractual Expense 201.01				10,80
Advertising 8,149 14,226 Miscellaneous 86,189 84,564 (Bad Debts Provision 17,445 22,121 (Total Administrative and General Expense 980,971 978,832 11 Deprication Expense 1,759,065 1,606,687 (15 Contractual Expense 33,688 58,815 2 Audit & Computer Maint. 33,688 58,815 2 Audit & Computer Maint. 33,688 58,815 2 Contractual Expense 1,720,105 200,655 2 Total Contractual Expense 321,651 419,721 9 Total Contractual Expense 238,096 662,261 42 Contractual Expenses 50,000 48,833 10 Total Contractual Expense 50,000 48,833 30 Total Contractual Expense 50,000 48,833 30 Total Retiree Benefits 280,096 1,932,515 62 Total Contractual Expenses 50,000 49,845 1 <				83
Mscellaneous 86,189 84,564 (Regulatory Expense 17,455 22,121 Bad Debts Provision 190,562 180,246 (1 Contractual Expense 190,562 180,246 (1 Contractual Expense 1,780,9065 1,800,887 (15 Audit & Computer Maint. 33,698 58,815 2 Building renal 35,211 36,603 1 Legal - - - - Laboratory 1,866 34,441 3 3 Other 172,019 200,655 2 2 - - - - - Total Contractual Expense 238,096 662,281 44 - <t< td=""><td></td><td></td><td></td><td>8,19</td></t<>				8,19
Regulatory Expense 17.456 22.121 Bad Debts Provision 190,562 180,246 (1 Total Administrative and General Expense 860,971 978,852 11 Depreciation Expense 1,759,065 1,606,687 (15 Audia & Computer Main. 33,698 58,815 2 Building rental 35,211 36,603 2 Legal 78,652 141 3 Equipment rental 35,211 36,603 2 Charl Contractual Expense 324,1551 419,721 9 Total Contractual Expense 324,1551 419,721 9 Total Contractual Expenses 238,096 662,281 42 Contractual Expenses 6,899,685 7,204,614 42 Total Contractual Expenses 6,899,685 7,204,614 1,395,215 Entrings Loss of thom Operations 2,764,654 1,395,215 62 Interest Income-Other Funds 59,085 45,645 1 Interest Income-Other Funds 59,085 1,662,314 2<				6,07 (1,62
Bai Debts Provision 190,562 160,246 (1) Total Administrative and General Expense 860,971 976,632 11 Depreciation Expense 1,759,065 1,806,687 (15) Contractual Expense 33,608 58,815 2 Building rental 33,608 58,815 2 Equipment rental 76,558 89,207 1 Laboratory 1,966 34,441 3 Other 21,2019 200,655 2 Total Contractual Expense 238,096 662,581 42 Total Contractual Expense 58,096 7,712,414 42 Cator parting Expenses 6,899,685 7,200,618 30 Earnings (Loss) from Operations 2,764,654 1,935,215 82 Interest Income-20101/31/41/61/17 Series Bond 1,167,306 1,041,766 11 Amortization of Discount, Premium and Issuance Costs 1,167,306 1,041,766 11 Amortization or Discount, Premium and Issuance Costs 1,167,306 1,041,766 11 Attion c				4,66
Total Administrative and General Expense 860.971 976.632 11 Contractual Expense 1,759.065 1,806.687 (15 Contractual Expense 33.698 58.815 2 Audit & Computer Maint. 33.698 58.815 2 Building rental 35.211 33.603 1 Legal - - - Laboratory 1,966 34.441 3 Other 122.019 200.655 2 Total Contractual Expense 231.551 419.721 9 Retiree Super Nomities and health care costs 238.096 672.2414 42 Total Contractual Expenses 288.096 712.414 42 Total Compositions 2.764.654 1.935.215 82 Interest Income-SDC 201013/14/16/17 Series Bond 281.067 225.374 2 Interest Income-SDC 17.868 1.3852 1 1 Interest Income-SDC 201013/14/16/17 Series Bond 2.177.785 (2.177.786) 1 ArbUC <				(10,31
Depreciation Expense 1,759,085 1,806,687 (15 Contractual Expense 33,608 58,815 2 Building rental 33,608 58,815 2 Building rental 33,608 58,815 2 Laboratory 1,966 34,441 3 Other 1,966 34,441 3 Total Contractual Expense 231,551 419,721 9 Retiree Supp. Annuities and health care costs 238,096 662,581 42 Total Contractual Expense 288,096 7,12,414 42 Total Retiree Benefits 288,096 7,12,414 42 Total Poertaing Expenses 6,699,685 2.00 43,832 Interest Income-2010/13/14/16/17 Series Bond 17,7868 1,3852 1 Interest Income-2010 17,686 1,3852 1 1 Interest Income-2010 16,77,206 1,047,766 1 Artid Romerseance due to bord refunding (69,534) (62,240) (62,240) Defeasance due to bond refunding 2,2				117,66
Contractual Expense 33,698 56,815 2 Audi 8 Computer Maint. 33,698 56,815 2 Building rental 36,603 1 Equipment rental 76,658 89,207 1 Legal 1,966 34,441 3 Contractual Expense 321,551 419,721 9 Total Contractual Expense 2323,096 662,551 42 Contrabution to Government of Guam 50,000 48,833 56,814 42 Total Contractual Expenses 6,899,885 7,720,618 30 Enrings (Loss) from Operations 2,746,454 1,935,215 62 Interest Income-Other Funds 59,085 46,645 1 Interest Income-SDC 17,868 13,852 1 Interest Expense- 2010/3/14/16/17 Series Bond (21,37,785) (2,177,468) 3 Interest Expense- 2010/3/14/16/17 Series Bond (1,57,306 1,041,766 1 Interest Expense- 2010/3/14/16/17 Series Bond (1,57,306 1,041,766 1 Arbid Captial Contributions </td <td></td> <td></td> <td></td> <td>(152,37</td>				(152,37
Audit & Computer Maint. 33,698 58,815 2 Building rental 35,211 36,603 1 Laboratory 1,966 34,441 3 Other 172,019 200,655 2 Total Contractual Expense 321,551 419,721 9 Retiree Supp. Annuities and health care costs 238,096 662,581 42 Contribution to Government of Guam 50,000 49,833 1 Total Retiree Benefits 288,096 712,414 42 Catol Portaring Expenses 6,899,085 7,209,618 30 Earnings (Loss) from Operations 2,764,654 1,935,215 82 Interest Income-2010/13/14/16/17 Series Bond (2,137,785) (2,177,748) 3 Interest Income-2010/13/14/16/17 Series Bond (2,137,785) (2,070,11 1 1 Interest Expenses 7206 (1,41,766 1 1 1 1 6 2220 6 Laboratin Income-2010/13/14/16/17 Series Bond (2,137,785) (2,717,488) 3 1			1,000,001	(102,01
Building renial 35,211 36,603 Equipment rental 78,658 89,207 1 Legal 1,966 34,441 3 Other 1,219 200,665 2 Total Contractual Expense 321,551 419,721 9 Retires Supe, Annuities and health care costs 230,096 662,581 42 Contribution to Government of Guam 50,000 49,833 44 42 Total Operating Expenses 6,899,665 7,209,618 30 Earnings (Loss) from Operations 2,764,654 1,935,215 82 Interest Expenses - St BOG 17,868 1,3852 1 Interest Expense - St BOG (16,559) (30,702) 1 Federal Expenditures - (62,200) 6 Loss on Asset Disposal - (16,259) (30,702) 1 Aft Lob 1,157,306 1,041,766 11 1 Defered outflows from pension - 32,502 (3 (2,607) 13,219 (1 <td< td=""><td></td><td>33,698</td><td>58.815</td><td>25.11</td></td<>		33,698	58.815	25.11
Equipment rental 78,658 99,207 1 Lagal - - - Laboratory 1,966 34,441 3 Other 220,655 2 Total Contractual Expense 221,651 419,721 9 Retiree Supp. Annuities and health care costs 238,096 662,581 42 Contribution to Government of Guam 200,000 49,833 - Total Poerating Expenses 6,899,665 7,209,618 30 Earnings (Loss) from Operations 2,764,654 1,935,215 82 Interest Income-Other Funds 59,065 7,209,618 30 Interest Income-Other Funds 59,065 7,209,618 30 Interest Expense- 2010/13/14/16/17 Series Bond (2,137,785) (2,177,468) 3 Interest Expense- ST BOG (16,959) (30,702) 1 Federal Expenditures - (62,220) 6 Lass on Asset Disposal - (16,2136) 16 ArUDC 105,0000, 149,431,766 (2,403) (6				1,39
Laboratory 1,966 34,441 3 Other 172,019 200,655 2 Total Contractual Expense 221,551 419,721 9 Retiree Supp. Annuities and health care costs 238,096 662,581 42 Contribution to Government of Guam 50,000 49,833 44 Total Retiree Benefits 288,096 712,414 42 Contractural Retiree Benefits 288,096 712,414 42 Cold Operating Expenses 6,899,085 7,209,618 30 Earnings (Loss) from Operations 2,764,654 1,935,215 68 Interest Income-SDC 17,668 13,852 1 Interest Expenses - ST BOG (2,137,785) (2,177,468) 3 Interest Expenses - ST BOG (16,959) (30,702) 1 Federal Expensitures - (162,136) 16 Loss on Asset Disposal - (162,136) 16 AFUDC 1,157,306 1,041,766 11 Total Anon-operating revenues (expenses) (591,343)				10,54
Other 172,019 200,655 2 Total Contractual Expense 321,551 419,721 9 Retiree Supp. Annulties and health care costs 230,996 662,881 4.2 Contribution to Government of Quam 50,000 49,833 - Total Retiree Benefits 280,996 772,414 42 Total Contractual Expenses 6,899,685 7.209,618 30 Earnings (Loss) from Operations 2,764,654 1,935,215 62 Interest Income-Other Funds 59,085 45,645 1 Interest Expense- ST BG (2,137,785) (2,177,468) 3 Interest Expense- ST BG (1,6359) (3,0702) 1 Areudo C 1,157,306 1,041,766 11 Aroutization of biscount, Premium and Issuance Costs 119,709 (42,691) 16 Defeasance due to bond refunding (69,534) (62,043) (69,534) 62 Capital Contributions 2,127,795 800,402 1,37 54 Grants from Us Government 2,091,233 1,244,712		-	-	-
Total Contractual Expense 321,551 419,721 9 Retiree Supp. Annuities and health care costs 238,096 662,581 42 Contribution to Government of Guam 280,006 48,833 30 Total Retiree Benefits 288,096 712,414 42 Chall Operating Expenses 6,899,685 7,209,618 30 Earnings (Loss) from Operations 2,764,654 1,935,215 82 Interest Income-2010/13/14/16/17 Series Bond 17,7868 13,852 1 Interest Expense - ST BOG 17,7869 3 3 Interest Expense - ST BOG (16,999) (30,702) 1 Federal Expension - (162,136) 16 AFUDC - (162,136) 16 AFUDC - (162,136) 16 Defered outflows from pension - 32,552 (3 Prior Year Adjustment (2,007) 13,219 (1 Total Activation on perating revenues (expenses) (591,859) (1,134,813) 54 System Development Charge	Laboratory	1,966	34,441	32,47
Retiree Supp. Annuities and health care costs 238,096 662,581 42 Contribution to Government of Guam Total Retiree Benefits 268,096 712,414 42 Total Solution to Government of Guam 281,057 255,374 22 Interest Income-2010/13/14/16/17 Series Bond 21,07,785 2(7,17,468) 33 Interest Expense- 2010/13/14/16/17 Series Bond (2,137,785) (2,177,468) 3 Interest Expense- 2010/13/14/16/17 Series Bond (2,137,785) (2,17,766) 11 AFUDC 1,157,306 1,041,766 11 1,157,306 1,041,766 11 Arburd 2,2607	Other	172,019	200,655	28,63
Contribution to Government of Guam Total Retirve Benefits 50,000 49,833 Total Operating Expenses 288,096 7,12,414 42 Contribution to Government of Guam Total Operating Expenses 2,809,685 7,209,618 30 Earnings (Loss) from Operations 2,764,654 1,935,215 62 Interest Income-2010/13/14/16/17 Series Bond 17,768 13,852 1 Interest Income-2010/13/14/16/17 Series Bond (2,137,785) (2,177,468) 3 Interest Expense- ST BOG (16,959) (30,702) 1 Federal Expenditures - (62,203) (66,234) (62,043) (66,234) (62,043) (10,27,95) (21,77,468) 3 Defeasance due to bond refunding (9,9334) (62,043) (62,043) (62,043) (62,043) (62,043) (11,37,36) (21,77,48) 3 Capital Contributions 2,172,795 800,402 1,37 Capital Contributions 2,172,795 800,402 1,37 Capital Contributions 2,091,233 1,244,712 84 2,661,022 2,661 (2	Total Contractual Expense	321,551		98,16
Total Retiree Benefits 288.096 712.414 42 Total Operating Expenses 6,899.685 7.209.618 30 Earnings (Loss) from Operations 2.764.654 1,335.215 82 Interest Income-2010/13/14/16/17 Series Bond 281,057 255.374 2 Interest Income-2010 59,085 45,645 1 Interest Expense-SDC 17,868 13,852 1 Interest Expense-SDG (2,137,785) (2,177,468) 3 Interest Expense-ST BOG (16,959) (30,702) 1 Federal Expenditures - (62,220) 6 AFUDC 1,157,306 1,041,766 11 Amorization of Discount, Premium and Issuance Costs 11,97,09 (42,691) 16 Defeasance due to bond refunding (63,534) (62,043) (0 Cator Adjustment 2,2007 13,219 (1 Total Apria Adjustment 2,091,233 1,244,712 84 Grants from US Government 2,017,392 82 2,067,392 82 Change				424,48
Total Operating Expenses 6.899.685 7.209.618 30 Earnings (Loss) from Operations 2,764.654 1.935.215 82 Interest Income-2010/13/14/16/17 Series Bond 281.057 225.374 2 Interest Income-2010/13/14/16/17 Series Bond 17.868 13.852 1 Interest Income-2010/13/14/16/17 Series Bond (2.137.785) (2.177.468) 3 Interest Expense- ST BOG (16.99) (30.702) 1 Federal Expenditures - (62.220) 6 Loss on Asset Disposal - (162.136) 16 AFUDC 1.157.306 1.041.766 11 Defered outflows from pension - 32.592 (3 Prior Year Adjustment (2.607) 13.219 (1 Total Contributions 2.172.795 800.402 1.37 Grants from US Government 2.091.233 1.244.712 84 Grants from GovGuam & Others - 2.2681 (2 Total Capital Contributions 2.764.654 1.935.215 System Development Charge (7.24				(16
Earnings (Loss) from Operations 2,764,654 1,935,215 82 Interest Income-Other Funds 59,085 45,645 1 Interest Income-Other Funds 17,868 13,852 1 Interest Expense- 2010/13/14/16/17 Series Bond (2,137,785) (2,177,468) 3 Interest Expense- ST BOG (16,959) (30,702) 1 Federal Expenditures - (62,220) 6 Loss on Asset Disposal - (16,959) (30,702) 1 Arontization of Discount, Premium and Issuance Costs 11,157,306 1,041,766 11 Defeasance due to bond refunding (68,534) (62,043) (6 Defeasance due to bond refunding (2,607) 13,219 (1 Total convertations 2,172,795 800,402 1,337 Capital Contributions 2,091,233 1,244,712 84 Grants from US Government 2,091,233 1,247,795 800,402 1,337 Total Capital Contributions 2,012,33 1,267,992 82 Change in Net Assets 2,091,233 <td></td> <td></td> <td></td> <td>424,31</td>				424,31
Interest Income-2010/13/14/16/17 Series Bond 281.057 255.374 2 Interest Income-Other Funds 59.085 45.645 1 Interest Expense- 2010/13/14/16/17 Series Bond (2.137.785) (2.177.468) 3 Interest Expense 2010/13/14/16/17 Series Bond (2.137.785) (2.177.468) 3 Interest Expense 2010/13/14/16/17 Series Bond (2.137.785) (2.177.468) 3 Interest Income DEc 1,157.306 1.041.766 11 ArbUDC - (2.607) 13.219 (1 Total non-operating revenues (expenses) (591.859) (1.134.813) 54 Net Income (Loss) before capital contributions				309,93
Interest Income-Other Funds 59.085 45.645 1 Interest Income-SDC 17.868 13.852 Interest Expense-SD 2010/13/14/16/17 Series Bond (2.137.785) (2.177.468) 33 Interest Expense-SD EXOG (16.959) (30.702) 1 Federal Expenditures - (62.220) 6 Loss on Asset Disposal - (162.136) 16 AFUDC 1,157.306 1,041.766 11 Amortization of Discount, Premium and Issuance Costs 119.709 (42.691) 16 Deferad outflows from pension - 32.592 (3 Prior Year Adjustment (2.607) 13.219 (1 Total non-operating revenues (expenses) (591.859) (1,134.813) 54 Net Income (Loss) before capital contributions 2.091.233 1,244,712 84 Grants from US Government 2.091.233 1,247.92 82 Change in Net Assets 2.091.233 1,247.92 82 Debt Service Calculation - 2.061.794 2.19 Retiree COLA				829,44
Interest Income-SDC 17,868 13,852 Interest Expense- 2010/13/14/16/17 Series Bond (2,137,785) (2,177,468) 3 Interest Expense- ST BOG (16,959) (30,702) 1 Federal Expenditures - (162,220) 6 Loss on Asset Disposal - (162,136) 16 AFUDC 1,157,306 1,041,766 11 Amortization of Discount, Premium and Issuance Costs 119,709 (42,691) 16 Deferasance due to bond refunding (69,534) (62,043) (6 Defered outflows from pension - 32,592 (3 Prior Year Adjustment (2,607) 13,219 (1 Total non-operating revenues (expenses) (591,859) (1,134,813) 54 Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 Grants from US Government 2,091,233 1,244,712 84 Grants from US Government 2,091,233 1,247,792 82 Change in Net Assets - 22,681 (2 Debt				25,68 13,44
Interest Expense - 2010/13/14/16/17 Series Bond (2,137,785) (2,177,468) 3 Interest Expense - ST BOG (16,959) (30,702) 1 Federal Expenditures - (62,220) 6 Loss on Asset Disposal - (162,136) 16 AFUDC 1,157,306 1,041,766 11 Amortization of Discount, Premium and Issuance Costs 119,709 (42,691) 16 Deferead outflows from pension - 32,592 (3 Prior Year Adjustment (2,607) 13,219 (1 Total non-operating revenues (expenses) (591,859) (1,134,813) 54 Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 Capital Contributions 2,091,233 1,247,712 84 Grants from US Government 2,091,233 1,247,792 82 Change in Net Assets 2,091,233 1,247,792 82 Debt Service Calculation - 2,2681 (2 Earnings From Operations 2,764,654 1,935,215 59,965 <t< td=""><td></td><td></td><td></td><td>4,01</td></t<>				4,01
Interest Expense- ST BOG (16,959) (30,702) 1 Federal Expenditures - (62,220) 6 Loss on Asset Disposal - (162,136) 16 AFUDC 1,157,306 1,041,766 11 Amortization of Discount, Premium and Issuance Costs 119,709 (42,691) 16 Defeasance due to bond refunding (69,534) (62,043) (62,043) (62,043) (7,02) 1,3219 (1,13,413) 54 Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 54 Capital Contributions 2,091,233 1,244,712 84 Grants from US Government 2,091,233 1,242,712 84 Grants from Operations 2,091,233 1,242,712 84 Change in Net Assets 2,091,233 1,247,712 84 Debt Service Calculation 2,091,233 1,247,712 84 Earnings From Operations 2,764,654 1,935,215 5 System Development Charge (72,819) (89,249) 82 Retiree COLA 50,000 49,833 1 1,606,687				39,68
Federal Expenditures - (62,220) 6 Loss on Asset Disposal - (162,136) 16 AFUDC 1,157,306 1,041,766 11 Amortization of Discount, Premium and Issuance Costs 119,709 (42,691) 16 Defeasance due to bond refunding (69,534) (62,043) (Deferred outflows from pension - 32,592 (3 Prior Year Adjustment (2,607) 13,219 (1 Total non-operating revenues (expenses) (591,859) (1,134,813) 54 Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 Capital Contributions 2,091,233 1,244,712 84 Grants from US Government 2,091,233 1,267,392 82 Change in Net Assets 2,091,233 1,267,392 82 Change in Net Assets 2,764,654 1,935,215 5 System Development Charge (72,819) (89,249) Retiree COLA 50,000 49,833 Interest/Investment Income 59,085 4,5645				13,74
Loss on Asset Disposal - (162,136) 16 AFUDC 1,157,306 1,041,766 11 Amortization of Discount, Premium and Issuance Costs 119,709 (42,691) 16 Defered outflows from pension - 32,592 (3 Prior Year Adjustment (2,607) 13,219 (1 Total non-operating revenues (expenses) (591,859) (1,134,813) 54 Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 Grants from US Government 2,091,233 1,244,712 84 Grants from GovGuam & Others - 22,681 (2 Total Capital Contributions 2,091,233 1,246,7392 82 Change in Net Assets 2,091,233 1,267,392 82 Change in Net Assets 2,001,233 1,267,392 82 Change in Net Assets 2,001,233 1,267,392 82 Change in Net Assets 2,000,00 49,833 1 Barrings From Operations 2,764,654 1,935,215 5 S			(, ,	62,22
AFUDC 1,157,306 1,041,766 11 Amortization of Discount, Premium and Issuance Costs 119,709 (42,691) 16 Defeasance due to bond refunding (69,534) (62,043) (7 Deferred outflows from pension - 32,592 (3 Prior Year Adjustment (2,607) 13,219 (1 Total non-operating revenues (expenses) (591,859) (1,134,813) 54 Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 Capital Contributions 2,091,233 1,244,712 84 Grants from Govgam & Others - 22,081 (2 Total Capital Contributions 2,091,233 1,267,392 82 Change in Net Assets 2,091,233 1,267,392 82 Debt Service Calculation 2,064,028 2,067,794 2,19 Retiree COLA 50,000 49,833 1 Interest/Investment Income 59,085 45,645 59,086 3,548,131 Working Capital Reserve Available for Debt Service 95,001 945,164 - Transfer to Working Capital- Debt Service Reserve		-		162,13
Defeasance due to bond refunding (69,534) (62,043) (Deferred outflows from pension - 32,592 (3 Prior Year Adjustment (2,607) 13,219 (1 Total non-operating revenues (expenses) (591,859) (1,134,813) 54 Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 Capital Contributions 2,091,233 1,244,712 84 Grants from US Government 2,091,233 1,267,392 82 Change in Net Assets 2,091,233 1,267,392 82 Change in Net Assets 2,091,233 1,267,392 82 Debt Service Calculation 2,064,028 2,067,794 2,19 Retiree COLA 50,000 49,833 1 Interest/Investment Income 59,085 45,645 1,935,215 Depreciation 1,759,065 1,606,687 1,759,065 1,606,687 Balance Available for Debt Service Per Section 6.12 4,559,986 3,548,131 1 Working Capital Reserve Available for Debt Service Reserve -<		1,157,306		115,54
Deferred outflows from pension - 32,592 (3) Prior Year Adjustment (2,607) 13,219 (1) Total non-operating revenues (expenses) (581,859) (1,134,813) 54 Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 Capital Contributions 2,091,233 1,244,712 84 Grants from GovGuam & Others - 22,681 (2 Total Capital Contributions 2,091,233 1,267,392 82 Change in Net Assets 2,091,233 1,267,392 82 Debt Service Calculation 2,091,233 1,267,392 82 Earnings From Operations 2,764,654 1,935,215 89,249) System Development Charge 2,764,654 1,935,215 82 Debt Service CoLA 50,000 49,833 1 Interest/Investment Income 59,085 45,645 1,759,065 1,606,687 Balance Available for Debt Service Reserve - - - - Transfer to Working Capital - Debt Service Reserve -	Amortization of Discount, Premium and Issuance Costs	119,709	(42,691)	162,40
Prior Year Adjustment Total non-operating revenues (expenses) (2,607) 13,219 (1 Total non-operating revenues (expenses) (591,859) (1,134,813) 54 Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 Grants from US Government Grants from GovGuam & Others 2,091,233 1,244,712 84 Change in Net Assets 2,091,233 1,267,392 82 Change in Net Assets 2,091,233 1,267,392 82 Debt Service Calculation 2,091,233 1,267,392 82 Earnings From Operations System Development Charge Depreciation 2,764,654 1,935,215 59 Balance Available for Debt Service per Section 6.12 4,259,986 3,548,131 456,6687 Balance Available for Debt Service Reserve Transfer to Working Capital- Debt Service Reserve - - - Principal Interest 476,250 433,333 1 476,250 433,333 Interest 2,137,785 1,794,910 2,28,243 -	Defeasance due to bond refunding	(69,534)	(62,043)	(7,49
Total non-operating revenues (expenses) (1) Total non-operating revenues (expenses) (3) Total non-operating revenues (expenses) (3) Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 Capital Contributions 2,091,233 1,244,712 84 Grants from US Government 2,091,233 1,267,392 82 Total Capital Contributions 2,091,233 1,267,392 82 Change in Net Assets 2,091,233 1,267,392 82 Debt Service Calculation 2,091,233 1,267,392 82 System Development Charge (72,819) (89,249) 82 Retiree COLA 50,000 49,833 1 Interest/Investment Income 59,085 45,645 1,959,065 1,606,687 Balance Available for Debt Service Reserve - - - - Transfer to Working Capital - Debt Service Reserve - - - Transfer to Working Capital - Debt Service Reserve - - - Principal 476,250	Deferred outflows from pension	-		(32,59
Net Income (Loss) before capital contributions 2,172,795 800,402 1,37 Capital Contributions 2,091,233 1,244,712 84 Grants from US Government 2,091,233 1,247,795 800,402 1,37 Total Capital Contributions 2,091,233 1,267,392 82 Change in Net Assets 2,091,233 1,267,392 82 Change in Net Assets 2,067,794 2,19 Debt Service Calculation 2,764,654 1,935,215 System Development Charge (72,819) (89,249) Retiree COLA 50,000 49,833 Interest/Investment Income 59,085 45,645 Depreciation 1,759,065 1,606,687 Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 Working Capital Reserve Available for Debt Service Reserve - - Transfer to Working Capital - Debt Service Reserve - - Transfer to Working Capital - O&M Reserve - - Principal 476,250 433,333 Interest 2,137,785		(2,001)		(15,82
Capital Contributions 2,091,233 1,244,712 84 Grants from US Government 2,091,233 1,247,712 84 Grants from GovGuam & Others 2,091,233 1,267,392 82 Total Capital Contributions 2,091,233 1,267,392 82 Change in Net Assets 4,264,028 2,067,794 2,19 Debt Service Calculation 2,764,654 1,935,215 5 System Development Charge (72,819) (89,249) 8 Retiree COLA 50,000 49,833 1 Interest/Investment Income 59,085 45,645 1,006,687 Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 Working Capital Reserve Available for Debt Service Reserve - - Transfer to Working Capital Debt Service Reserve - - Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Debt Service - - - Principal 476,250 433,333 Interest 2,137,785 1,794,910				542,95
Grants from US Government 2,091,233 1,244,712 84 Grants from GovGuam & Others - 22,681 (2 Total Capital Contributions 2,091,233 1,267,392 82 Change in Net Assets 4,264,028 2,067,794 2,19 Debt Service Calculation - 2,614,028 2,067,794 2,19 Retiree COLA 1,935,215 5 5,9365 45,645 Depreciation 59,085 45,645 50,000 49,833 Interest/Investment Income 59,085 45,645 1,066,687 Depreciation 1,759,065 1,606,687 1,059,986 3,548,131 Working Capital Reserve Available for Debt Service Reserve - - - Transfer to Working Capital - Debt Service Reserve - - - Principal 476,250 433,333 1 Interest 2,137,785 1,794,910 2,614,035 2,228,243		2,172,795	800,402	1,372,39
Grants from GovGuam & Others Total Capital Contributions - 22,681 (2 Change in Net Assets 2,091,233 1,267,392 82 Change in Net Assets 4,264,028 2,067,794 2,19 Debt Service Calculation 2,764,654 1,935,215 5 System Development Charge (72,819) (89,249) 82 Netree COLA 50,000 49,833 1 Interest/Investment Income 59,085 45,645 1,066,687 Depreciation 1,759,065 1,606,687 83,548,131 Working Capital Reserve Available for Debt Service Reserve - - - Transfer to Working Capital- Debt Service Reserve - - - Balance Available for Debt Service inclusive of reserves - - - Transfer to Working Capital- Debt Service Reserve - - - Balance Available for Debt Service inclusive of reserves - - - Principal 476,250 433,333 - Interest 2,137,785 1,794,910 -	•			
Total Capital Contributions 2,091,233 1,267,392 82 Change in Net Assets 4,264,028 2,067,794 2,19 Debt Service Calculation 2,764,654 1,935,215 2,19 Retiree COLA 50,000 49,833 1 Interest/Investment Income 59,085 45,645 1,006,687 Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 44,559,986 Working Capital Reserve Available for Debt Service Reserve - - - Transfer to Working Capital - Debt Service Reserve - - - Balance Available for Debt Service inclusive of reserves - - - Principal 476,250 433,333 1 Interest 2,137,785 1,794,910 2,2614,035 2,228,243		2,091,233		846,52
Change in Net Assets 4,264,028 2,067,794 2,19 Debt Service Calculation Earnings From Operations 2,764,654 1,935,215 2,067,794 2,19 Retiree COLA 50,000 49,833 1 1 1,759,065 1,606,687 Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 1 Working Capital Reserve Available for Debt Service Reserve - - - Transfer to Working Capital - Debt Service inclusive of reserves 5,513,986 4,493,295 - Balance Available for Debt Service inclusive of reserves - - - - Transfer to Working Capital - Debt Service inclusive of reserves 5,513,986 4,493,295 - - Debt Service -		-		(22,68
Debt Service Calculation Earnings From Operations 2,764,654 1,935,215 System Development Charge (72,819) (89,249) Retiree COLA 50,000 49,833 Interest/Investment Income 59,085 45,645 Depreciation 1,759,065 1,606,687 Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 Working Capital Reserve Available for Debt Service Reserve - - Transfer to Working Capital - Debt Service Reserve - - Transfer to Working Capital- O&M Reserve - - Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Debt Service - - - Transfer to Working Capital- O&M Reserve - - Principal 476,250 433,333 Interest 2,137,785 1,794,910 Total 2,614,035 2,228,243				<u>823,84</u> 2,196,23
Earnings From Operations 2,764,654 1,935,215 System Development Charge (72,819) (89,249) Retiree COLA 50,000 49,833 Interest/Investment Income 59,085 45,645 Depreciation 1,759,065 1,606,687 Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 Working Capital Reserve Available for Debt Service Reserve - - Transfer to Working Capital - O&M Reserve - - Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Det Service - - - Transfer to Working Capital - O&M Reserve - - Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Debt Service - - - Principal 476,250 433,333 - Interest 2,137,785 1,794,910 - Total 2,614,035 2,228,243 -		1,201,020	2,001,101	2,100,20
System Development Charge (72,819) (89,249) Retiree COLA 50,000 49,833 Interest/Investment Income 59,085 45,645 Depreciation 1,759,065 1,606,687 Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 Working Capital Reserve Available for Debt Service Reserve 954,001 945,164 Transfer to Working Capital-O&M Reserve - - Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Debt Service - - - Transfer to Working Capital-O&M Reserve - - - Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 - Debt Service - - - - - Principal 476,250 433,333 - - - - - Interest 2,137,785 1,794,910 - 2,214,035 2,228,243	Debt Service Calculation			
Retiree COLA 50,000 49,833 Interest/Investment Income 59,085 45,645 Depreciation 1,759,065 1,606,687 Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 Working Capital Reserve Available for Debt Service Reserve Transfer to Working Capital- Debt Service Reserve 954,001 945,164 Balance Available for Debt Service Reserve - - Transfer to Working Capital- Debt Service Reserve - - Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Debt Service - - - Principal 476,250 433,333 Interest 2,137,785 1,794,910 Total 2,614,035 2,228,243	Earnings From Operations	2,764,654	1,935,215	
Interest/Investment Income 59,085 45,645 Depreciation 1,759,065 1,606,687 Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 Working Capital Reserve Available for Debt Service Reserve 954,001 945,164 Transfer to Working Capital- Debt Service Reserve - - Balance Available for Debt Service Reserve - - Transfer to Working Capital- O&M Reserve - - Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Debt Service - - - Principal 476,250 433,333 Interest 2,137,785 1,794,910 Total 2,614,035 2,228,243		(72,819)	(89,249)	
Depreciation 1,759,065 1,606,687 Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 Working Capital Reserve Available for Debt Service 954,001 945,164 Transfer to Working Capital - O&M Reserve - - Balance Available for Debt Service inclusive of reserves - - Balance Available for Debt Service inclusive of reserves - - Brincipal 476,250 433,333 Interest 2,137,785 1,794,910 Total 2,614,035 2,228,243				
Balance Available for Debt Service per Section 6.12 4,559,986 3,548,131 Working Capital Reserve Available for Debt Service 954,001 945,164 Transfer to Working Capital- O&M Reserve - - Balance Available for Debt Service Reserve - - Transfer to Working Capital- O&M Reserve - - Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Debt Service - - Principal 476,250 433,333 Interest 2,137,785 1,794,910 Total 2,614,035 2,228,243				
Working Capital Reserve Available for Debt Service 954,001 945,164 Transfer to Working Capital- Debt Service Reserve - - Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Debt Service - - Principal 476,250 433,333 Interest 2,137,785 1,794,910 Total 2,614,035 2,228,243				
Transfer to Working Capital- Debt Service Reserve Transfer to Working Capital- 0&M ReserveBalance Available for Debt Service inclusive of reserves5,513,986Debt Service Principal Interest4,493,295Comparison4,493,295Det Service Principal Interest1,794,910Comparison 2,614,0352,228,243	•			
Transfer to Working Capital- 0&M Reserve Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Debt Service 7 4 4 4 4 4 4 4 4 9,295 1 <th1< th=""> 1 <th1< th=""> 1 <th1< th=""> 1 1 1</th1<></th1<></th1<>		954,001 -	945,164 -	
Balance Available for Debt Service inclusive of reserves 5,513,986 4,493,295 Debt Service - </td <td></td> <td>-</td> <td>-</td> <td></td>		-	-	
Principal 476,250 433,333 Interest 2,137,785 1,794,910 Total 2,614,035 2,228,243	Balance Available for Debt Service inclusive of reserves	5,513,986	4,493,295	
Interest 2,137,785 1,794,910 Total 2,614,035 2,228,243				
Total 2,614,035 2,228,243	•			
Dept Service Coverage (1.25A)- per Section 6.12 (indenture) 1/4 159				
Debt Service Coverage (1.75X) inclusive of reserves (PUC) 2.11 2.02		1.74	1.59	

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

SCHEDULE D

		Actual (Unaudited)	Variance Favorable /
OPERATING REVENUES	March-19	March-19	(Unfavorable)
Water Revenues	34,879,479	33,707,252	(1,172,226
Wastewater Revenues	19,483,590	19,248,932	(234,659
Legislative Surcharge	1,768,001	1,768,395	394
Other Revenues	229,523	275,886	46,363
System Development Charge	586,635	338,550	(248,085
Total Operating Revenues	56,947,228	55,339,015	(1,608,213
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	4,125,463	3,091,845	1,033,618
Power Purchases Total Utility Costs	7,387,891 11,513,354	7,286,554 10,378,399	<u>101,337</u> 1,134,955
	11,010,004	10,376,399	1,134,933
Salaries and Wages	10,694,191	9,832,265	861,925
Pension and Benefits	3,373,426	3,103,108	270,319
Total Salaries and Benefits	14,067,617	12,935,373	1,132,244
Capitalized Labor and Benefits	(1,850,000)	(1,850,000)	-
Net Salaries and Benefits	12,217,617	11,085,373	1,132,244
Administrative and General Expenses			
Sludge removal	797,628	776,547	21,081
Chemicals	1,114,809	1,004,659	110,150
Materials & Supplies	869,633	830,970	38,663
Transportation	253,885	253,469	416
Communications	90,325	69,744	20,581
Claims	50,500	35,899	14,601
Insurance	476,765	451,068	25,697
Training & Travel	182,500	91,170	91,330
Advertising Miscellaneous	75,000 555,790	40,297 525,531	34,703 30,260
Regulatory Expense	555,790 150,174	525,531 81,710	
Bad Debts Provision	1,089,890	1,089,411	68,464 479
Total Administrative and General Expense	5,706,899	5,250,473	456,425
Depreciation Expense	10,554,390	10,554,390	430,423
Contractual Expense	10,004,000	10,004,000	(0
Audit & Computer Maint.	352,700	265,856	86,844
Building rental	230,166	211.265	18,901
Equipment rental	551,878	551,583	294
Legal	3,073	-	3,073
Laboratory	209,174	138,959	70,215
Other	1,348,745	1,348,347	398
Total Contractual Expense	2,695,736	2,516,010	179,726
Retiree Supp. Annuities and health care costs	1,499,225	1,423,635	75,590
Contribution to Government of Guam	311,850	300,000	11,850
Total Retiree Benefits	1,811,075	1,723,635	87,440
Total Operating Expenses	44,499,070	41,508,279	2,990,790
Earnings (Loss) from Operations	12,448,158	13,830,735	1,382,577
Interest Income-2010/13/14/16/17 Series Bond	509,658	2,033,973	1,524,315
Interest Income-Other Funds	83,137	392,662	309,525
Interest Income-SDC Interest Expense- 2010/13/14/16/17 Series Bond	12,431 (14,326,707)	86,919 (12,826,707)	74,488 1,500,000
Interest Expense- 2010/13/14/16/17 Series Bond	(14,326,707) (118,572)	(12,826,707) (109,600)	8,971
Federal Expenditures	(110,372)	(109,000)	0,971
Loss on Asset Disposal		-	-
AFUDC	6,943,836	6,943,836	(0)
Amortization of Discount, Premium and Issuance Costs	(106,788)	718,253	825,041
Defeasance due to bond refunding	(97,206)	(417,204)	(319,998
Deferred outflows from pension	-	-	-
Prior Year Adjustment	-	(282,844)	(282,844)
Total non-operating revenues (expenses)	(7,100,210)	(3,460,712)	3,639,498
Net Income (Loss) before capital contributions	5,347,948	10,370,023	5,022,075
Capital Contributions			
Grants from US Government	33,199,230	8,658,249	(24,540,982)
Grants from GovGuam & Others	-	51,879	51,879
Total Capital Contributions	33,199,230	8,710,128	(24,489,102)
Change in Net Assets	38,547,178	19,080,151	(19,467,027)
Dekt Comies Colouistion			
Debt Service Calculation	40	40 000 705	
Earnings From Operations	12,448,158	13,830,735	
System Development Charge Retiree COLA	(586,635)	(338,550)	
Retiree COLA Interest/Investment Income	311,850	300,000	
Depreciation	83,137 10,554,390	392,662 10,554,390	
Balance Available for Debt Service per Section 6.12	22,810,900	24,739,237	
Working Capital Reserve Available for Debt Service		5,724,005	
Transfer to Working Capital- Debt Service Reserve	5,608,867	5,724,005	
Transfer to Working Capital- Debt Service Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	28,419,767	30,463,242	
Debt Service	20,710,707	00,700,272	
Principal	2,857,500	2,857,500	
Interest	12,826,707	12,826,707	
Total	15,684,207	15,684,207	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.58	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.81	1.94	
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GUAM WATERWORKS AUTHORITY Statement of Operations and Retained Earnings Comparative for the period ending March 31, 2019 and 2018

SCHEDULE E

	Year to I Actual (Unaudited) March-19	Date Actual (Audited) March-18	Variance Favorable / (Unfavorable)		
OPERATING REVENUES	- Maron 15		(onlavorable)		
Water Revenues	33,707,252	33,187,782	519,470		
Wastewater Revenues	19,248,932	19,150,703	98,229		
Legislative Surcharge	1,768,395	1,735,254	33,141		
Other Revenues System Development Charge	275,886 338,550	259,765 535,493	16,121 (196,942		
Total Operating Revenues	55,339,015	54,868,996	470,018		
OPERATING AND MAINTENANCE EXPENSES		0 1,000,000	11 0,0 10		
Water Purchases	3,091,845	4,342,487	1,250,642		
Power Purchases	7,286,554	7,343,243	56,689		
Total Utility Costs	10,378,399	11,685,730	1,307,331		
Only days and We may	0.000.005	0 700 540	(4.045.705		
Salaries and Wages Pension and Benefits	9,832,265 3,103,108	8,786,540 2,257,596	(1,045,725		
Total Salaries and Benefits	12,935,373	11,044,136	<u>(845,512)</u> (1,891,237)		
Capitalized Labor and Benefits	(1,850,000)	(1,776,882)	73,118		
Net Salaries and Benefits	11,085,373	9,267,254	(1,818,119		
Administrative and General Expenses	i	• •	, , , , ,		
Sludge removal	776,547	753,827	(22,720		
Chemicals	1,004,659	1,095,753	91,094		
Materials & Supplies	830,970	1,085,969	254,999		
Transportation	253,469	384,005	130,536		
Communications	69,744	88,533	18,789		
Claims Insurance	35,899 451.068	64,821 456,030	28,922 4,962		
Training & Travel	91,170	135,913	4,902		
Advertising	40,297	85,354	45,058		
Miscellaneous	525,531	507,385	(18,146		
Regulatory Expense	81,710	132,727	51,018		
Bad Debts Provision	1,089,411	1,081,475	(7,936		
Total Administrative and General Expense	5,250,473	5,871,791	621,318		
Depreciation Expense	10,554,390	9,640,125	(914,265		
Contractual Expense	005 050	050.000	07.004		
Audit & Computer Maint. Building rental	265,856	352,890 219,618	87,034 8,353		
Equipment rental	211,265 551,583	535,241	(16,342		
Legal	-	-	(10,542		
Laboratory	138,959	206,648	67,689		
Other	1,348,347	1,203,929	(144,418		
Total Contractual Expense	2,516,010	2,518,326	2,316		
Retiree Supp. Annuities and health care costs	1,423,635	3,975,484	2,551,849		
Contribution to Government of Guam	300,000	299,000	(1,000		
Total Retiree Benefits	1,723,635	4,274,484	2,550,849		
Total Operating Expenses	41,508,279	43,257,709	1,749,430		
Earnings (Loss) from Operations	13,830,735	11,611,287	2,219,448		
Interest Income-2010/13/14/16/17 Series Bond Interest Income-Other Funds	2,033,973 392,662	1,532,245 273,869	501,727 118,793		
Interest Income-SDC	86,919	83,111	3,808		
Interest Expense- 2010/13/14/16/17 Series Bond	(12,826,707)	(13,064,807)	238,099		
Interest Expense- ST BOG	(109,600)	(184,213)	74,613		
Federal Expenditures	-	(373,322)	373,322		
Loss on Asset Disposal	-	(972,815)	972,815		
AFUDC	6,943,836	6,250,598	693,238		
Amortization of Discount, Premium and Issuance Costs	718,253	(256,147)	974,401		
Defeasance due to bond refunding	(417,204)	(372,261)	(44,943		
Deferred outflows from pension Prior Year Adjustment	- (282,844)	195,552 79,314	(195,552		
Total non-operating revenues (expenses)	(3,460,712)	(6,808,876)	(362,158) 3,348,164		
Net Income (Loss) before capital contributions	10,370,023	4,802,411	5,567,612		
Capital Contributions		.,,	-,,		
Grants from US Government	8,658,249	7,468,271	1,189,978		
Grants from GovGuam & Others	51,879	136,083	(84,204		
Total Capital Contributions	8,710,128	7,604,354	1,105,774		
Change in Net Assets	19,080,151	12,406,764	6,673,387		
Debt Service Calculation	40 000 705	11 014 007			
Earnings From Operations System Development Charge	13,830,735 (338,550)	11,611,287 (535,493)			
Retiree COLA	300,000	299,000			
Interest/Investment Income	392,662	273,869			
Depreciation	10,554,390	9,640,125			
Balance Available for Debt Service per Section 6.12	24,739,237	21,288,788			
Working Capital Reserve Available for Debt Service	5,724,005	5,670,983			
Transfer to Working Capital- Debt Service Reserve	-	-			
Transfer to Working Capital- O&M Reserve	<u> </u>	-			
	30,463,242	26,959,771			
Balance Available for Debt Service inclusive of reserves					
Debt Service		_			
Debt Service Principal	2,857,500	2,600,000			
Debt Service Principal Interest	12,826,707	10,769,460			
Debt Service Principal					

GUAM WATERWORKS AUTHORITY Restricted and Unrestricted Cash Summary FY2019

SCHEDULE F

UNRESTRICTED 2.000 2.000 - Change Fund 5.000 5.000 - BOG Deposit Accounts 8.199.514 3.087,379 5.103.135 Subtatal Unrestricted 8.199.514 3.094,379 5.103.135 RESTRICTED 0 0 0 0 0 ANZ Bank 6.031 11.864 (4.933) Bank Pacific Surcharge 6.031 11.864 (4.933) Bank Pacific Surcharge 810,708 298.98 511.810 Bank Pacific Surcharge 660,663 660.254 410 BOG Customer Refunds - - 1.860,120 (1.860,120) BOG Subordinate Security Fund 65.233 65.293 4 500 Gereation and Maintennee Fund 3.043,482 - BOG Operation and Maintennee Fund 3.04549 300.569 (1.1,80,120) BOG Caperation and Maintennee Fund 8.158,874 6.533,779 1.23.095 BOG Operation and Maintennee Fund 4.892,564 1.582,774 1.582,774 1.582,774 1.582,774 1.582,075 1.582,077	Description	Unaudited March 31, 2019	Audited September 30, 2018	Increase (Decrease)
Petry Cash 5,000 5,000 - BOG Deposit Accounts 8,190,514 3,094,379 5,103,135 Sub-total Unrestricted 8,197,513 3,094,379 5,103,135 RESTRICTED 0 (0) 0 ANZ Bank 6,931 11,864 (4,933) Bank Acific 6,931 11,864 (4,933) Bank Pacific Surcharge 810,708 298,898 511,810 Bank Pacific Surcharge 810,708 298,898 511,810 Bank Pacific Surcharge 810,708 298,898 511,810 Boog Customer Refunds - 1,860,120 (1,860,120) BOG Geneme Refunds - 1,820,213 - BOG Geneme Trust - 1,820,214 - BOG Geneme Trust Fund 8,158,874 6,533,779 1,623,025	•			(,
BOG Deposit Accounts 8.190.514 3.087.379 5.103.135 Stub-total Unrestricted 8.197.513 3.094.379 5.103.135 RESTRICTED 0 0 0 0 ANZ Bank 0 10 0 0 Bank of Hawaii 179.484 189.144 (4.963) Community First FCU 3.007 4.392 (1.362) Bank Pacific Score Deposit 660.663 660.254 410 BOG Sewer Hookup Revolving Fund 6.233 662.29 4 BOG Gustomer Refund 6.233 869.233 - BOG Operation and Maintenance Fund 3.083.482 - - BOG Revenue Trust 3.064.59 3.002.26 - BOG Capital Improvement Revenue Fund 8.158.874 6.532.779 1.623.050 BOG Capital Improvement Revenue	Change Fund	2,000	2,000	-
Sub-total Unrestricted 8,197,513 3,094,379 5,103,135 RESTRICTED 0 (0) 0 ANZ Bank 0 (0) 0 Bank Pacific 6,931 11,864 (4,933) Bank Pacific Surcharge 8,017 4,382 (1,385) Bank Pacific Surcharge 8,01708 298,898 511,810 Bank Pacific Surcharge 8,01708 298,898 511,810 Bank Pacific Surcharge 8,01708 298,898 511,810 BOG Customer Refunds - 1,860,120 (1,860,120) BOG Sever Hockup Revolving Fund 6,233 6,529 4 BOG Operation and Maintenace Fund 6,233 6,529 79 BOG Subordinate Security Fund 86,9233 859,233 - BOG Revenue Trust 300,449 300,3482 - BOG Revenue Trust 300,439 300,569 (10,111) BOG Revenue Trust 816,8874 6,533,779 1,623,095 BOG Capter Kind 1,443,094 1,043,994 1,0673,01		5,000	5,000	-
RESTRICTED 0 00 00 00 Bank Pacific 6,931 11,864 (4,933) Bank Pacific 6,931 11,864 (4,933) Community First FCU 3,007 4,392 (1,362) First Hawaiia 179,484 189,144 (9,661) Community First FCU 3,007 4,392 (1,362) Bank Pacific Scrow Deposit 660,663 660,254 410 DOG Emergency Reserve Fund 6,233 6,229 4 DOG Sewer Hockup Revolving Fund 66,233 6,223 - DOG Operation and Maintenance Fund 3,03,482 3,083,482 - DOG Sewer Hockup Revolving Fund 859,233 859,233 - DOG Operation and Maintenance Fund 3,083,482 3,083,482 - DOG Revenue Trust 360,459 3,00,226 - DOG Captal Improvement Revenue Fund 4,852,504 1,582,273 1,-623,095 DOG Captal Improvement Revenue Fund 4,852,504 1,582,774 1,623,004 DOG Captal Improvement Re	BOG Deposit Accounts	8,190,514	3,087,379	5,103,135
ANZ Bank 0 (0) 0 Bank Pacific 6,931 11,864 (4,933) Bank of Hawaii 179,484 189,144 (9,661) Community First FUU 3,007 4,392 (1,385) First Hawaiian Bank 8,643 22,105 (13,462) Bank Pacific Surcharge 810,708 298,898 511,810 Book Caustomer Refunds - 1,860,120 (1,860,120) BOG Emergency Reserve Fund 6,233 6,6229 4 BOG Sowert Nookup Revolving Fund 66,239 65,449 799 BOG Subordinate Security Fund 859,233 859,233 - BOG Revenue Trust 350,459 360,659 (10,111) BOG Revenue Trust 350,459 360,659 (10,111) BOG Revenue Trust 350,459 30,659 (10,111) BOG Revenue Trust 350,459 30,059 (1,111) BOG Capital Improvement Revenue Fund 4,892,504 1,582,778 3,310,226 BOG O Serite S12 1,686,109 127,772	Sub-total Unrestricted	8,197,513	3,094,379	5,103,135
Bank Pacific 6,931 11,864 (4,933) Bank of Hawaii 179,484 189,144 (9,661) Community First FCU 3,007 4,392 (1,385) First Hawaiian Bank 8,643 22,105 (12,462) Bank Pacific Escrow Deposit 660,653 660,254 410 BoG Customer Refunds - 1,860,120 (1,860,120) BOG Sevent Pookup Revolving Fund 6,6233 6,62,29 4 BOG Subordinate Security Fund 859,233 859,233 - BOG Operation and Maintenance Fund 30,03,482 3,003,482 - BOG Revenue Trust 350,499 300,569 (10,111) BOG Revenue Trust 350,499 300,569 (10,111) BOG Aperation and Maintenance Fund 8,182,504 1,582,773 1,623,095 BOG Capital Improvement Revenue Fund 8,182,604 1,582,773 1,623,095 BOG Cape Reserve 11,443,994 16,073,011 (4,589,017) BOG Socies 13 Construction Fund 74,235,618 74,044,146 (6906,528)	RESTRICTED			
Bank of Hawaii 179,484 189,144 (9,661) Community First FCU 3,007 4,392 (1,385) First Hawaiian Bank 8,643 22,105 (13,462) Bank Pacific Surcharge 810,706 298,898 511,810 Bank Pacific Escrow Deposit 660,663 660,254 410 BOG Customer Refunds - 1,860,120 (1,860,120) BOG Subordinate Security Fund 62,233 6,229 4 BOG Sower Hookup Revolving Fund 62,233 6,5499 799 BOG Sower Thookup Revolving Fund 8,158,474 6,6569 (10,111) BOG Revenue Trust 350,459 360,569 (10,111) BOG Revenue Trust Fund 8,158,874 6,535,779 1,623,095 BOG O & M Reserve 13,793,882 13,866,109 127,772 BOG Bobt Service Reserve 11,443,009 11,341,967 106,043 BOG - SDC Deposit 1,552,774 2,934,848 (1,382,074) BOG - SDC Cobs 9,000,000 7,250,000 1,750,000 BOG Serie	ANZ Bank	0	(0)	0
Community First FCU 3:007 4:392 (1:385) First Hawaiian Bank 8:643 22,105 (13:462) Bank Pacific Surcharge 810,706 298.898 511.810 Bank Pacific Escrow Deposit 660,663 660,254 410 BOG Customer Refunds - 1,860,120 (1:860,120) BOG Energency Reserve Fund 62,233 62,29 (4 BOG Subordinate Security Fund 859,233 859,233 - BOG Operation and Maintenance Fund 3,083,482 - - BOG Revenue Trust 350,459 360,569 (10,111) BOG Revenue Trust 350,459 1,623,095 1,623,095 BOG Capital Improvement Revenue Fund 4,892,264 1,582,778 3,310,226 BOG D & M Reserve 13,793,882 13,666,199 127.772 BOG CapEx Fund 14,483,994 16,073,011 (4,589,071) BOG - SDC CDs 9,000,000 7,250,000 1,750,000 BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935)	Bank Pacific	6,931	11,864	(4,933)
First Hawaiian Bank 8,643 22,105 (13,462) Bank Pacific Surcharge 810,708 298,898 511,810 Bank Pacific Surcharge 810,708 298,898 511,810 BOG Customer Refunds - 1,860,120 (1,860,120) BOG Superation and Maintenance Fund 6,233 6,229 4 BOG Subordinate Security Fund 859,233 65,293 - BOG Operation and Maintenance Fund 3,083,482 3,083,482 - BOG Revenue Trust 350,459 360,569 (10,111) BOG Revenue Trust 3,162,276 1,582,777 1,623,095 BOG O & M Reserve 13,793,882 13,866,109 127,772 BOG Bobit Service Reserve 11,448,099 11,441,967 106,043 BOG Service Reserve 11,552,774 2,934,848 (1,382,074) BOG Service Reserve 11,552,774 2,934,848 (1,382,074) BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 2,3618,128 36,222,062 <		-, -		,
Bank Pacific Surcharge 810,708 298,888 511,810 Bank Pacific Escrow Deposit 660,663 660,254 410 BOG Customer Refunds - 1,860,120 10,806,120 BOG Sevent Pookup Revolving Fund 6,233 6,229 4 BOG Sourchinate Security Fund 662,929 65,499 799 BOG Subordinate Security Fund 859,233 859,233 - BOG Revenue Trust 3083,482 3003,482 - BOG Revenue Trust Fund 8,158,874 6,535,779 1,623,095 BOG Capital Improvement Revenue Fund 4,892,504 1,582,278 3,310,226 BOG Apex Meserve 13,793,882 13,666,109 127,772 BOG Debt Service Reserve 11,448,099 11,341,967 106,043 BOG - SDC Deposit 1,552,774 2,934,848 (1,382,074) BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 14 Refunding Construction Fund 6,767,851	•			,
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BOG Customer Refunds - 1.860,120 (1,860,120) BOG Emergency Reserve Fund 6,233 6,229 4 BOG Sewer Hookup Revolving Fund 66,239 65,499 799 BOG Subordinate Security Fund 859,233 859,233 - BOG Operation and Maintenance Fund 3,083,482 3,083,482 - BOG Revenue Trust 350,459 360,569 (10,111) BOG Revenue Trust 350,459 360,569 (10,111) BOG Revenue Trust Fund 8,158,874 6,535,779 1,623,095 BOG Capital Improvement Revenue Fund 4,892,504 1,582,278 3,310,226 BOG De & M Reserve 11,448,009 11,341,967 106,043 BOG Sol & SDC Desorit 1,552,774 2,934,848 (1,382,074) BOG - SDC Deposit 9,000,000 7,250,000 1,750,040 BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 16 Construction Fund 2,3618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 2,3618,128				
BOG Emergency Reserve Fund 6,233 6,229 4 BOG Subordinate Security Fund 66,299 66,499 799 BOG Subordinate Security Fund 859,233 859,233 - BOG OMRRF Fund 17,423,213 17,423,213 - BOG Revenue Trust 350,459 360,569 (10,111) BOG Revenue Trust Fund 8,158,674 6,535,779 1,623,095 BOG OM Revenue Trust Fund 8,158,674 6,535,779 1,623,095 BOG Capital Improvement Revenue Fund 4,892,504 1,582,773 3,310,226 BOG CapEx Fund 11,483,094 16,073,011 (4,589,017) ROG - SDC Deposit 1,552,774 2,934,848 (1,382,074) BOG - SDC Deposit 1,552,774 2,934,848 (1,382,074) BOG - SDC Deposit 1,552,777 2,934,848 (1,382,074) BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 13 Refunding Construction Fund 2,360,451	•	660,663		
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BOG Subordinate Security Fund 859,233 859,233 - BOG Operation and Maintenance Fund 3,083,482 3,083,482 - BOG OMRRF Fund 17,423,213 17,423,213 - BOG Revenue Trust Fund 8,158,874 6,535,779 1,623,095 BOG Capital Improvement Revenue Fund 4,892,504 1,582,278 3,310,226 BOG O & M Reserve 13,793,882 13,666,109 127,772 BOG Debt Service Reserve 11,448,009 11,341,967 106,043 BOG - SDC Deposit 1,552,774 2,934,848 (1,382,074) BOG - SDC CDs 9,000,000 7,250,000 1,750,000 Total Restricted 83,788,392 84,228,994 (440,602) Reserve Funds 100,070,794 116,036,000 (15,965,206) 6,758,579 14,142 BOG Series 13 Construction Fund 2,3618,128 36,222,062 (12,603,935) BOG Series 17 Refunding Construction Fund 10,0070,794 116,036,000 (15,965,206) 6,936 BOG Series 13 Construction Fund 2,383,061 2,360,451 2,610 USB		,		-
BOG Operation and Maintenance Fund 3,083,482 3,083,482 3,083,482 - BOG OMRRRF Fund 17,423,213 17,423,213 17,423,213 - BOG Revenue Trust Fund 8,158,874 6,535,779 1,623,095 BOG Capital Improvement Revenue Fund 4,892,504 1,582,278 3,310,226 BOG Debt Service Reserve 11,443,090 11,341,967 106,043 BOG - SDC Deposit 1,552,774 2,934,848 (1,382,074) BOG - SDC CDs 9,000,000 7,250,000 1,750,000 Total Restricted 83,788,392 84,228,994 (440,602) Reserve Funds 23,618,128 36,222,062 (12,603,935) BOG Series 14 Refunding Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 14 Refunding Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 14 Refunding Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 14 Refunding Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 14 Refunding Dobt Service Fund 10,00,	1 0	,	· · · · ·	799
BOG OMRRRF Fund 17,423,213 17,423,213 - BOG Revenue Trust Fund 350,459 360,569 (10,111) BOG Revenue Trust Fund 8,158,874 6,555,779 1,623,095 BOG Capital Improvement Revenue Fund 4,892,504 1,582,278 3,310,226 BOG O & M Reserve 13,793,882 13,666,109 127,772 BOG Capital Improvement Revenue Fund 4,892,504 1,582,278 3,310,226 BOG Debt Service Reserve 11,448,009 11,31,967 106,043 BOG - SDC Deposit 1,552,774 2,934,848 (1,382,074) BOG - SDC CDs 7,250,000 7,750,000 1,750,000 Total Restricted 83,788,392 84,228,994 (440,602) Reserve Funds 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 17 Refunding Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 17 Refunding Construction Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Se				
BOG Revenue Trust 350,459 360,569 (10,111) BOG Revenue Trust Fund 8,158,874 6,535,779 1,623,095 BOG Capital Improvement Revenue Fund 4,892,504 1,582,278 3,310,226 BOG Capital Improvement Revenue Fund 1,3793,882 13,666,109 127,772 BOG Capital Improvement Revenue Fund 1,448,099 11,341,967 106,043 BOG Capital Service Reserve 11,448,099 11,341,967 106,043 BOG - SDC Deposit 1,552,774 2,934,848 (1,362,074) BOG - SDC CDs 9,000,000 7,250,000 1,750,000 Total Restricted 83,788,392 84,228,994 (440,602) Reserve Funds 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 16 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 17 Refunding Construction Fund 100,070,794 116,06,000 (15,965,206) BOG Series 10 Construction Fund 2,383,061 2,360,451 22,4194		, ,	, ,	-
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BOG Capital Improvement Revenue Fund 4,892,504 1,582,278 3,310,226 BOG O & M Reserve 13,793,882 13,666,109 127,772 BOG Capits Fund 11,448,099 11,341,967 106,043 BOG S CapEx Fund 11,448,099 16,073,011 (4,589,017) BOG - SDC Deposit 1,552,774 2,934,848 (1,382,074) BOG S - SDC CDs 9,000,000 7,250,000 1,750,000 Total Restricted 83,788,392 84,228,994 (440,602) Reserve Funds 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 2748,832 741,895 6,936 BOG Series 14 Refunding Construction Fund 748,832 741,895 6,936 BOG Series 17 Refunding Construction Fund 6,767,851 6,753,709 14,142 Total Restricted - Held by Trustee 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Reserve Fund 12,031,688 - - USB Series 2010 Debt				
BOG O & M Reserve 13,793,882 13,666,109 127,772 BOG Debt Service Reserve 11,448,009 11,341,967 106,043 BOG CapEx Fund 73,235,618 74,044,146 (808,528) BOG - SDC Deposit 9,000,000 7,250,000 1,750,000 BOG - SDC CDs 9,000,000 7,250,000 1,750,000 Total Restricted 83,788,392 84,228,994 (440,602) Reserve Funds 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 16 Construction Fund 100,070,794 116,036,000 (15,965,206) BOG Series 17 Refunding Construction Fund 6,767,851 6,753,709 14,142 Total Restricted - Held by Trustee 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2014 Refunding Debt Service Fund 1,822,858 1,805,556 1,332,235 1,832,898 USB Series 2016 Debt Service Reserve Fund 1,822,858 1,805,556	BOG Capital Improvement Revenue Fund	, ,	, ,	
BOG CapEx Fund 11,483,994 16,073,011 (4,589,017) BOG - SDC Deposit 73,235,618 74,044,146 (808,528) BOG - SDC Deposit 1,552,774 2,934,848 (1,382,074) BOG - SDC CDs 9,000,000 7,250,000 1,750,000 Total Restricted 83,788,392 84,228,994 (440,602) Reserve Funds 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 748,832 741,895 6,936 BOG Series 16 Construction Fund 100,070,794 116,036,000 (15,965,206) BOG Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Fund 12,031,688 1,833,235 1,832,898 USB Series 2013 Debt Service Fund 2,360,451 22,610 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 1,622,858 1,805,556 17,302 USB Series 2014 Refunding Debt Service Reserve Fund 7,748,049 7,972,243 (224,194) USB Series 2010 Debt Service Fund 1,522,858 1,805,556	BOG O & M Reserve	13,793,882	13,666,109	
T3,235,618 74,044,146 (608,528) BOG - SDC Deposit BOG - SDC CDs Total Restricted 1,552,774 2,934,848 (1,382,074) BOG - SDC CDs Total Restricted 9,000,000 7,250,000 1,750,000 1,750,000 Reserve Funds BOG Series 13 Construction Fund BOG Series 14 Refunding Construction Fund BOG Series 16 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 16 Construction Fund BOG Series 17 Refunding Construction Fund 748,832 741,895 6,936 BOG Series 17 Refunding Construction Fund USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Fund USB Series 2014 Refunding Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2014 Refunding Debt Service Fund 12,031,688 12,031,688 - USB Series 2016 Debt Service Fund 1,822,858 1,805,556 17,302 USB Series 2010 Debt Service Rund 7,592,000 7,594,603 (2,603) USB Series 2017 Refunding Debt Service Reserve Fund 1,411,234 503,751 907,483 USB Series 2017 Debt Service Fund 1,411,234 503,751 907,483 USB Ser	BOG Debt Service Reserve	11,448,009	11,341,967	106,043
BOG - SDC Deposit 1,552,774 2,934,848 (1,382,074) BOG - SDC CDs 9,000,000 7,250,000 1,750,000 Total Restricted 83,788,392 84,228,994 (440,602) Reserve Funds 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 748,832 741,895 6,936 BOG Series 16 Construction Fund 100,070,794 116,036,000 (15,965,206) BOG Series 2013 Debt Service Fund 6,767,851 6,753,709 14,142 Total Restricted - Held by Trustee 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Fund 13,668 1,2031,688 - USB Series 2014 Refunding Debt Service Fund 13,668,133 1,832,235 1,832,898 USB Series 2016 Debt Service Reserve Fund 7,748,049 7,972,243 (224,194) USB Series 2016 Debt Service Reserve Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2017 Debt Service Reserve Fund 1,4	BOG CapEx Fund	11,483,994	16,073,011	(4,589,017)
BOG - SDC CDs 9,000,000 7,250,000 1,750,000 Total Restricted 83,788,392 84,228,994 (440,602) Reserve Funds 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 14 Refunding Construction Fund 748,832 741,895 6,936 BOG Series 16 Construction Fund 100,070,794 116,036,000 (15,965,206) BOG Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Fund 12,031,688 12,031,688 - USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2014 Refunding Debt Service Fund 12,031,688 12,031,688 - USB Series 2014 Refunding Debt Service Fund 3,666,133 1,833,235 1,832,898 USB Series 2014 Refunding Debt Service Reserve Fund 7,748,049 7,972,243 (224,194) USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2010 Debt Service Reserve Fund 7,592,000		73,235,618	74,044,146	(808,528)
Total Restricted 83,788,392 84,228,994 (440,602) Reserve Funds BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 14 Refunding Construction Fund 748,832 741,895 6,936 BOG Series 16 Construction Fund 100,070,794 116,036,000 (15,965,206) BOG Series 17 Refunding Construction Fund 6,767,851 6,753,709 14,142 Total Restricted - Held by Trustee 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 12,031,688 12,031,688 - USB Series 2014 Refunding Debt Service Fund 3,666,133 1,833,235 1,832,898 USB Series 2016 Debt Service Reserve Fund 1,822,858 1,805,556 17,302 USB Series 2010 Debt Service Reserve Fund 7,582,000 7,594,603 (2,603) USB Series 2017 Debt Service Reserve Fund 1,411,234 503,751 907,483 USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 USB Seri	BOG - SDC Deposit	1,552,774	2,934,848	(1,382,074)
Reserve Funds 23,618,128 36,222,062 (12,603,935) BOG Series 13 Construction Fund 748,832 741,895 6,936 BOG Series 14 Refunding Construction Fund 100,070,794 116,036,000 (15,965,206) BOG Series 17 Refunding Construction Fund 6,767,851 6,753,709 14,142 Total Restricted - Held by Trustee 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Rund 3,666,133 1,833,235 1,832,898 USB Series 2014 Refunding Debt Service Fund 3,666,133 1,832,898 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Fund 1,822,858 1,805,556 17,302 1,822,858 1,805,556 17,302 USB Series 2010 Debt Service Fund 1,411,234 503,751 907,483 1,591,566 1,429,927 161,640 USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 1,591,566 1,429,927 161,640 USB Series 2017 Debt Service Fund 1,591,566	BOG - SDC CDs	9,000,000	7,250,000	1,750,000
BOG Series 13 Construction Fund 23,618,128 36,222,062 (12,603,935) BOG Series 14 Refunding Construction Fund 748,832 741,895 6,936 BOG Series 16 Construction Fund 100,070,794 116,036,000 (15,965,206) BOG Series 17 Refunding Construction Fund 6,767,851 6,753,709 14,142 Total Restricted - Held by Trustee 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Fund 12,031,688 12,031,688 - USB Series 2014 Refunding Debt Service Fund 3,666,133 1,833,235 1,832,898 USB Series 2016 Debt Service Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Reserve Fund 1,822,858 1,805,556 17,302 USB Series 2010 Debt Service Reserve Fund 7,566,460 7,566,460 - USB Series 2017 Refunding Debt Service Reserve Fund 1,591,566 1,429,927 161,640 USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 </td <td>Total Restricted</td> <td>83,788,392</td> <td>84,228,994</td> <td>(440,602)</td>	Total Restricted	83,788,392	84,228,994	(440,602)
BOG Series 14 Refunding Construction Fund 748,832 741,895 6,936 BOG Series 16 Construction Fund 100,070,794 116,036,000 (15,965,206) BOG Series 17 Refunding Construction Fund 6,767,851 6,753,709 14,142 Total Restricted - Held by Trustee 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Reserve Fund 12,031,688 12,031,688 - USB Series 2014 Refunding Debt Service Fund 3,666,133 1,833,235 1,832,898 USB Series 2016 Debt Service Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Fund 7,592,000 7,594,603 (2,603) USB Series 2010 Debt Service Reserve Fund 1,411,234 503,751 907,483 USB Series 2017 Debt Service Reserve Fund 1,591,566 1,429,927 161,640 USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136	Reserve Funds			
BOG Series 16 Construction Fund 100,070,794 116,036,000 (15,965,206) BOG Series 17 Refunding Construction Fund 6,767,851 6,753,709 14,142 Total Restricted - Held by Trustee 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Reserve Fund 12,031,688 12,031,688 - USB Series 2014 Refunding Debt Service Fund 3,666,133 1,833,235 1,832,898 USB Series 2016 Debt Service Reserve Fund 7,748,049 7,972,243 (224,194) USB Series 2016 Debt Service Reserve Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2017 Debt Service Reserve Fund 1,411,234 503,751 907,483 USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136	BOG Series 13 Construction Fund	23,618,128	36,222,062	(12,603,935)
BOG Series 17 Refunding Construction Fund 6,767,851 6,753,709 14,142 Total Restricted - Held by Trustee 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Reserve Fund 12,031,688 12,031,688 - USB Series 2014 Refunding Debt Service Reserve Fund 3,666,133 1,833,235 1,832,898 USB Series 2016 Debt Service Reserve Fund 7,748,049 7,972,243 (224,194) USB Series 2016 Debt Service Reserve Fund 1,822,858 1,805,556 17,302 USB Series 2010 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2017 Debt Service Fund 1,411,234 503,751 907,483 USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136	BOG Series 14 Refunding Construction Fund	748,832	741,895	6,936
Total Restricted - Held by Trustee 131,205,605 159,753,667 (28,548,062) USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Reserve Fund 12,031,688 12,031,688 - USB Series 2014 Refunding Debt Service Fund 3,666,133 1,833,235 1,832,898 USB Series 2016 Debt Service Reserve Fund 7,748,049 7,972,243 (224,194) USB Series 2016 Debt Service Reserve Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2010 Debt Service Fund 1,411,234 503,751 907,483 USB Series 2017 Refunding Debt Service Reserve Fund 1,591,566 1,429,927 161,640 USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136		100,070,794	116,036,000	(15,965,206)
USB Series 2013 Debt Service Fund 2,383,061 2,360,451 22,610 USB Series 2013 Debt Service Reserve Fund 12,031,688 12,031,688 - USB Series 2014 Refunding Debt Service Fund 3,666,133 1,833,235 1,832,898 USB Series 2016 Debt Service Fund 7,748,049 7,972,243 (224,194) USB Series 2016 Debt Service Reserve Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2010 Debt Service Fund 1,411,234 503,751 907,483 USB Series 2017 Refunding Debt Service Reserve Fund 7,566,460 - - USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136	5			
USB Series 2013 Debt Service Reserve Fund 12,031,688 12,031,688 - USB Series 2014 Refunding Debt Service Fund 3,666,133 1,833,235 1,832,898 USB Series 2014 Refunding Debt Service Reserve Fund 7,748,049 7,972,243 (224,194) USB Series 2016 Debt Service Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2010 Debt Service Fund 1,411,234 503,751 907,483 USB Series 2017 Refunding Debt Service Reserve Fund 7,566,460 - - USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136	Total Restricted - Held by Trustee	131,205,605	159,753,667	(28,548,062)
USB Series 2013 Debt Service Reserve Fund 12,031,688 12,031,688 - USB Series 2014 Refunding Debt Service Fund 3,666,133 1,833,235 1,832,898 USB Series 2014 Refunding Debt Service Reserve Fund 7,748,049 7,972,243 (224,194) USB Series 2016 Debt Service Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2010 Debt Service Fund 1,411,234 503,751 907,483 USB Series 2017 Refunding Debt Service Reserve Fund 7,566,460 - - USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136				
USB Series 2014 Refunding Debt Service Fund 3,666,133 1,833,235 1,832,898 USB Series 2014 Refunding Debt Service Reserve Fund 7,748,049 7,972,243 (224,194) USB Series 2016 Debt Service Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2010 Debt Service Fund 1,411,234 503,751 907,483 USB Series 2017 Refunding Debt Service Reserve Fund 7,566,460 - - USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136		2,383,061	2,360,451	22,610
USB Series 2014 Refunding Debt Service Reserve Fund 7,748,049 7,972,243 (224,194) USB Series 2016 Debt Service Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2010 Debt Service Fund 1,411,234 503,751 907,483 USB Series 2017 Refunding Debt Service Reserve Fund 7,566,460 - USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136		, ,		-
USB Series 2016 Debt Service Fund 1,822,858 1,805,556 17,302 USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2010 Debt Service Fund 1,411,234 503,751 907,483 USB Series 2017 Refunding Debt Service Reserve Fund 7,566,460 - USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 USB Series 2017 Debt Service Fund 45,813,049 43,097,913 2,715,136				, ,
USB Series 2016 Debt Service Reserve Fund 7,592,000 7,594,603 (2,603) USB Series 2010 Debt Service Fund 1,411,234 503,751 907,483 USB Series 2017 Refunding Debt Service Reserve Fund 7,566,460 7,566,460 - USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136	5			,
USB Series 2010 Debt Service Fund 1,411,234 503,751 907,483 USB Series 2017 Refunding Debt Service Reserve Fund 7,566,460 - - USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136		, ,	, ,	,
USB Series 2017 Refunding Debt Service Reserve Fund 7,566,460 - USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136				
USB Series 2017 Debt Service Fund 1,591,566 1,429,927 161,640 Total Investments 45,813,049 43,097,913 2,715,136				907,483
Total Investments 45,813,049 43,097,913 2,715,136	0			- 161 6/0
Total Restricted and Unrestricted Cash 269,004,560 290,174,953 (21,170,393)		.0,010,040	10,001,010	_,. 10,100
	Total Restricted and Unrestricted Cash	269,004,560	290,174,953	(21,170,393)

Guam Waterworks Authority Accounts Receivable - Government (Active)

March 31, 2019

	A G I N G											
Customer Name	No of Accounts	Current		1-60 days		61-90 days	91	-120 days		ver 120 days		Total
Guam Int'l Airport Authority		\$ 26,257		51,533	\$	30,122	\$	31,534	\$	261,453	\$	400,898
Guam Power Authority	25	148,882	2	24,155		-		-		-		173,037
Guam Memorial Hospital Authority	5	34,228		28,255		40,237		2,054		-		104,775
University of Guam	46	9,510		-		-		-		-		9,510
Guam Housing & Urban Renewal Authority	9	1,522		-		-		-		-		1,522
Guam Housing Corporation	1	28	3	-		-		-		-		28
	94	\$ 220,427	′\$	103,943	\$	70,359	\$	33,589	\$	261,453	\$	689,770
Dept of Education	54	\$ 308,506	s \$	198,198	\$	171,460	\$	19,386	\$	11,892	\$	709,441
Dept of Public Health & Social Services	8	3,229)	1,000		687		366		103,817		109,100
Mayors Council of Guam	60	57,647	,	1,087		293		24		32		59,083
Dept of Parks & Recreation	17	27,150		2,754		-		-		-		29,903
Dept of Military Affairs/Guarng	1	9,409)	-		-		-		-		9,409
Dept of Chamorro Affairs	7	8,098	3	419		-		-		-		8,516
Guam Fire Department	11	6,996	5	-		-		-		-		6,996
Office of The Governor	2	5,301		-		-		-		-		5,301
Sanctuary Inc	1	3,267	,	-		-		-		-		3,267
Superior Court of Guam	2	3,042	2	-		-		-		-		3,042
Office of Civil Defense	2	527	,	627		614		517		492		2,777
Dept of Public Works	11	2,332	2	-		-		-				2,332
Dept of Youth Affairs	1	1,144	Ļ	93		-		-				1,237
Guam Police Department	7	1,157	,	-		-		-		-		1,157
Dept of Agriculture	6	1,129)	-		-		-		-		1,129
Division of Senior Citizens, Dph&Ss	2	368	3	187		164		-		-		719
Dept of Administration	2	404	ŀ	-		-		-		-		404
Dept of Mental Health	2	319)	-		-		-		-		319
Guam Enviromental Protection Agency	2	223	3	-		-		-		-		223
Guam Energy office	1	83	3	38		79		-		-		200
The Office of The Dededo Mayor	1	161		-		-		-		-		161
Guam Veterans Affairs Office	2	143	3	-		-		-		-		143
Guam Public Library	6	136	5	-		-		-		-		136
Dept of Corrections	8	107		-		-		-		-		107
Merizo Mayor	1	46		-		-		-		-		46
Vietnam Veteran of America	1	40)	-		-		-		-		40
	218	\$ 440,965	i \$	204,401	\$	173,297	\$	20,294	\$	116,233	\$	955,190
Total March 31, 2019	312	\$ 661,392	2 \$	308,344	\$	243,656	\$	53,883	\$	377,686	\$	1,644,961
TOTAL September 30, 2018	326	\$ 793,948	\$	424,797	\$	324,413	\$	190,444	\$	975,977	\$	2,709,580
	-4%	-17%	6	-27%)	-25%		-72%		-61%		-39%

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

PROJECT NAME	Available oject Funds	Total Expenditures	Total Outstanding Encumbrances	Total penditures and incumbrances	Total Unobligated Funds
<u>SDC - Water</u> Central Guam Reservoirs Line Replacement Phase IV South Paulino Heights Waterline Upgrade		22,079	280,040 256,937 95,706	280,040 256,937 117,785	
	\$ 5,769,770	\$ 22,079	\$ 632,683	\$ 654,762	\$ 5,115,008
<u>SDC - Wastewater</u> Agat-Santa Rita Wastewater Treatment Plant Replacement Baza Gardens Wastewater Cross Island Pumping & Conveyance Route 4 Relief Sewerline Rehab & Replacement Northern WWTP (Land Purchase) Talofofo Sewer Improvement Umatac-Merizo Wastewater Treatment Plant Upgrade		160,335 399,453 - 1,000,000 - -	1,041,672 666,395 399,869 - 241,142 248,979	1,202,006 1,065,847 399,869 1,000,000 241,142 248,979	
	\$ 5,893,049	\$ 1,559,787	\$ 2,598,056	\$ 4,157,843	\$ 1,735,206
Grand Totals	\$ 11,662,819	\$ 1,581,866	\$ 3,230,738	\$ 4,812,605	\$ 6,850,215

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

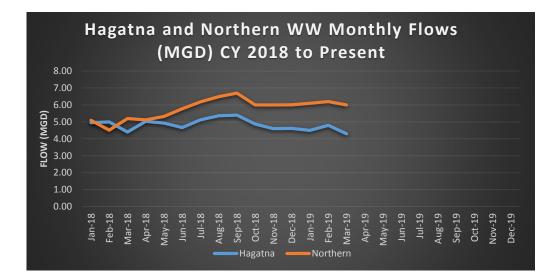
SCHEDULE H

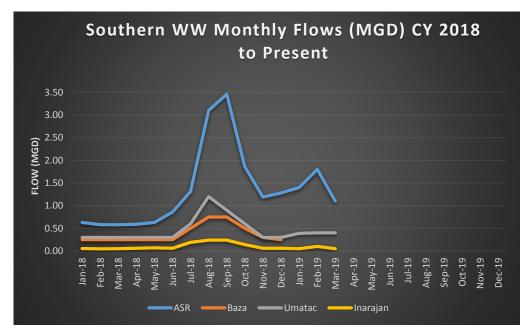
2017	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-17	6.00	5.69	0.89	0.31	0.35	0.09
Feb-17	6.00	5.61	0.76	0.24	0.30	0.09
Mar-17	6.00	5.62	0.78	0.24	0.30	0.06
Apr-17	6.00	5.58	0.95	0.24	0.30	0.08
May-17	5.59	5.26	0.86	0.25	0.30	0.06
Jun-17	6.00	5.36	0.77	0.23	0.30	0.05
Jul-17	5.94	5.33	0.74	0.25	0.30	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

Wastewater Treatment Plant Average Monthy Flows Million Gallons Per Day

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

2019	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-19	4.50	6.10	1.40		0.39	0.05
Feb-19	4.80	6.20	1.80		0.40	0.10
Mar-19	4.30	6.00	1.10		0.40	0.05
Apr-19						
May-19						
Jun-19						
Jul-19						
Aug-19						
Sep-19						
Oct-19						
Nov-19						
Dec-19						
2018 Average MGD	4.53	6.10	1.43		0.40	0.07
2018 Total MGY	1,655	2,227	523	-	145	24



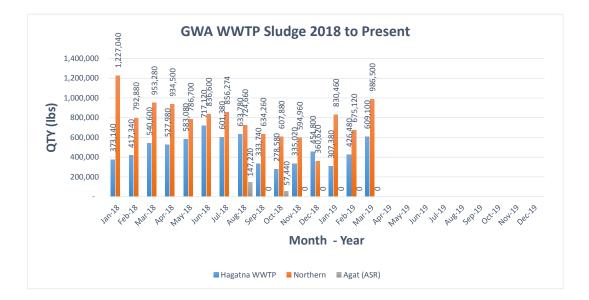


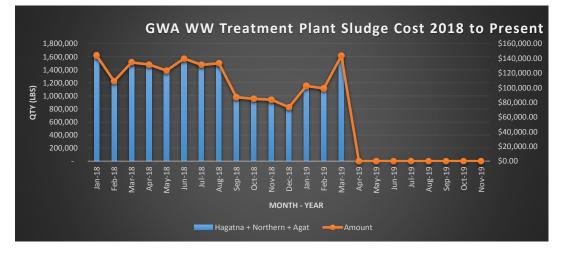
	ASR \	WWTP	North	nern	Hagatna an	d Northern
2018	Qty	Amount	Qty	Amount	Qty	Amount
Month-Yr	lbs	\$	lbs	\$	lbs	\$
Jan-18	247,440	\$22,269.60	1,283,000	\$115,470.00	1,530,440	\$137,739.60
Feb-18	282,180	\$25,396.20	920,480	\$82,843.20	1,202,660	\$108,239.40
Mar-18	497,660	\$44,789.40	880,780	\$79,270.20	1,378,440	\$124,059.60
Apr-18	577,246	\$51,952.14	796,560	\$71,690.40	1,373,806	\$123,642.54
May-18	660,840	\$59,475.60	859,260	\$77,333.40	1,520,100	\$136,809.00
Jun-18	505,160	\$45,464.40	913,760	\$82,238.40	1,418,920	\$127,702.80
Jul-18	462,420	\$41,617.80	1,423,168	\$128,085.12	1,885,588	\$169,702.92
Aug-18	694,420	\$62,497.80	690,200	\$62,118.00	1,384,620	\$124,615.80
Sep-18	341,020	\$30,691.80	981,280	\$88,315.20	1,322,300	\$119,007.00
Oct-18	474,020	\$42,661.80	846,180	\$76,156.20	1,320,200	\$118,818.00
Nov-18	500,020	\$45,001.80	968,260	\$87,143.40	1,468,280	\$132,145.20
Dec-18	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 Qty Amount		North	nern	Agat (ASR)	Hagatna + Northern + Agat		
2018			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	601,380	\$54,124.20	856,274	\$77,064.66			1,457,654	\$131,188.86	
Aug-18	633,780	\$57,040.20	724,660	\$63,469.35	147,220	\$12,894.25	1,505,660	\$133,403.80	
Sep-18	333,740	\$30,036.60	634,260	\$57,083.40	0	\$0.00	968,000	\$87,120.00	
Oct-18	278,580	\$25,072.20	607,880	\$54,709.20	57,440	\$4,992.61	943,900	\$84,774.01	
Nov-18	335,020	\$30,151.80	594,960	\$53,546.40	0	\$0.00	929,980	\$83,698.20	
Dec-18	454,800	\$40,932.00	360,620	\$32,455.80	0	\$0.00	815,420	\$73,387.80	
Grand Total	5,796,560	\$521,690.40	9,309,654	\$836,118.81	204,660	\$17,886.86	15310874	###########	

	Hagatna WWTP		North	nern	Agat (ASR)	Hagatna + Northern + Agat		
2019	.,		Qty Amount Qty Amount		Qty	Amount	Qty Amount		
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$	
Jan-19	307,380	\$27,664.20	830,460	\$74,741.40	0	\$0.00	1,137,840	\$102,405.60	
Feb-19	426,480	\$38,383.20	675,120	\$60,760.80	0	\$0.00	1,101,600	\$99,144.00	
Mar-19	609,100	\$54,819.00	986,500	\$88,785.00	0	\$0.00	1,595,600	\$143,604.00	
Apr-19		\$0.00		\$0.00		\$0.00	-	\$0.00	
May-19		\$0.00		\$0.00		\$0.00	-	\$0.00	
Jun-19		\$0.00		\$0.00		\$0.00	-	\$0.00	
Jul-19		\$0.00		\$0.00		\$0.00	-	\$0.00	
Aug-19		\$0.00		\$0.00		\$0.00	-	\$0.00	
Sep-19		\$0.00		\$0.00		\$0.00	-	\$0.00	
Oct-19		\$0.00		\$0.00		\$0.00	-	\$0.00	
Nov-19		\$0.00		\$0.00		\$0.00	-	\$0.00	
Dec-19		\$0.00		\$0.00		\$0.00	-	\$0.00	
Grand Total	1,342,960	\$120,866.40	2,492,080	\$224,287.20	-	\$0.00	3835040	\$345,153.60	

Hagatna and Northern WWTP Sludge Report 2018 to present, GWA Operations $kcog\,/$ df, 4/10/2019





Hagatna and Northern WWTP Sludge Report 2018 to present, GWA Operations kcog / df, 4/10/2019



Guam Waterworks Authority VEHICLE FLEET STATUS 4/12/2019

	EQUI	PMENT ST	FATUS			SUMMARY									
Description	Number of Equipment	Number of Equipment Available	Number of Equipment Not Available	Percentage	Operational	Operational w/Rprs Pending	In Shop-Accident Repairs	In Shop-Assessment Pending	In Shop-Repairs Pending	In Shop-Vendor Repairs	Recommend Survey				
Backhoe	4	1	3	25%	1	0	0	0	0	2	1				
Bobcat	1	0	1	0%	0	0	0	0	0	0	1				
Boom Truck	2	1	1	50%	1	0	0	0	0	0	1				
Crane	1	1	0	100%	0	1	0	0	0	0	0				
Dump Truck	3	1	2	33%	1	0	0	0	0	0	2				
Flat Bed	0	0	0	#DIV/0!	0	0	0	0	0	0	0				
Forklift	6	6	0	100%	6	0	0	0	0	0	0				
Fuel Tanker	1	1	0	100%	1	0	0	0	0	0	0				
Heavy Duty	8	6	2	75%	6	0	0	0	1	0	1				
Hoist Rig	1	0	1	0%	0	0	0	0	0	1	0				
Light	155	108	47	70%	103	5	0	6	8	8	25				
Mini Backhoe	4	2	2	50%	2	0	0	0	0	2	0				
Pumper Truck	1	1	0	100%	1	0	0	0	0	0	0				
Skidster	1	0	1	0%	0	0	0	0	1	0	0				
Sludge Truck	5	3	2	60%	3	0	0	0	0	2	0				
Tow	0	0	0	0%	0	0	0	0	0	0	0				
Tractor	2	2	0	100%	1	1	0	0	0	0	0				
Tractor Mower	1	1	0	100%	1	0	0	0	0	0	0				
Trailer	15	11	4	73%	11	0	0	0	0	3	1				
Trencher	1	1	0	100%	1	0	0	0	0	0	0				
Vaccon	1	1	0	100%	1	0	0	0	0	0	0				
Vacuum Truck	3	0	3	0%	0	0	0	0	0	3	0				
Water Buffalo	2	2	0	100%	2	0	0	0	0	0	0				
Water Tanker	4	4	0	100%	4	0	0	0	0	0	0				
Compressor	1	1	0	100%	1	0	0	0	0	0	0				
Total	252	176	69		176	7	0	6	10	21	32				

1	Guam	ı Waterwoi	·ks Authori	ity	Date:	4/12/2019			1					
				5	Time:		and the second							
-			RE	VIEWS			GUAM WATERWORKS AUTHORITY							
	TOTAL PUMPS IN	NSTALLED	50	OVERA	L AVERAGE	97%		WATER DISTRIBUTION FACILITIES REPORT						
т	TOTAL PUMPS OP	ERATIONAL	48	% OF OPEI	RATING PUMPS	96%								
						00/0								
тот	TAL BOOSTER PU	JMP STATIONS	25											
No	orthern Distri	ict												
NO:	FACILITY	PUMP HORSEPOWE	NO OF INSTALLED	NO OF OPERATIONAL	PUMP	GENERATOR OPERATIONAL	ATS	PUMP UNIT REMARKS	WORK ORDER	VALVES, ELECTRICAL,STRUCTURAL	WORK	ESTIMATED REPAIR DATE	PUMP AND MOTOR	
NO.	PACIENT	R	PUMPS	PUMPS	AVAILABILITY %	FAULT	MANUAL/AUTO	POMP UNIT REMARKS	NO:	REMARKS	ORDER NO:	ESTIMATED REPAIR DATE	INVENTORY	
1		20	2	2	100%	OP	A							
2		25	2	2	100% 50%	OP OP	A	Maintananaa baing parformed or runne 0	1		L			
3	Santa Rosa Hyundai	15 40	2	1	50%	OP	A	Maintenance being performed on pump 2. Pump # 1 requires pump and motor.				Station under renovation.		
5	Access	60	2	2	100%	OP	A	Fump # Trequires pump and motor.				Station under renovation.		
6		5	2	2	100%	N/A	~~~~~							
7	Nimitz Hill	7.5	2	2	100%	N/A								
8	Adawag	1.5	1	1	100%	N/A								
9	Pale Kiren	1	1	1	100%	N/A								
10		1	2	2	100%	OP	A							
11		15	2	2	100%	N/A								
	TOTAL = 11	-	20	18	90%									
		f an antional au												
pum	np availability =no of	i operational pur	nps/no of pumps	s*100%										
_	entral District		nps/no of pumps	s*100%										
_	entral District	t PUMP HORSEPOWE	NO OF	NO OF OPERATIONAL	PUMP AVAILABILITY %	GENERATOR OPERATIONAL	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK	VALVES, ELECTRICAL,STRUCTURAL	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES	
Ce		t PUMP HORSEPOWE R	NO OF INSTALLED PUMPS	NO OF	AVAILABILITY %	OPERATIONAL FAULT	MANUAL/AUTO	PUMP UNIT REMARKS			WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES	
Ce NO:	entral District	t HORSEPOWE R 150 / 100	NO OF INSTALLED PUMPS 3	NO OF OPERATIONAL PUMPS 3	AVAILABILITY % 100%	OPERATIONAL FAULT 0P	MANUAL/AUTO A	PUMP UNIT REMARKS	ORDER	ELECTRICAL, STRUCTURAL		ESTIMATED REPAIR DATE	UPDATES	
Ce NO:	entral District FACILITY Pago Brigade	t HORSEPOWE R 150 / 100 60	NO OF INSTALLED PUMPS 3 3	NO OF OPERATIONAL PUMPS 3 3	AVAILABILITY % 100% 100%	OPERATIONAL FAULT OP OP	MANUAL/AUTO A A	PUMP UNIT REMARKS	ORDER	ELECTRICAL, STRUCTURAL		ESTIMATED REPAIR DATE	UPDATES	
Ce NO:	entral District FACILITY Pago Brigade Windward Hills	t HORSEPOWE R 150 / 100 60 200 / 75	NO OF INSTALLED PUMPS 3	NO OF OPERATIONAL PUMPS 3	AVAILABILITY % 100%	OPERATIONAL FAULT 0P	MANUAL/AUTO A	PUMP UNIT REMARKS	ORDER	ELECTRICAL, STRUCTURAL		ESTIMATED REPAIR DATE	UPDATES	
Ce NO:	Pago Brigade Windward Hills Santa Rita Spring	t HORSEPOWE R 150 / 100 60 200 / 75 40	NO OF INSTALLED PUMPS 3 3 3	NO OF OPERATIONAL PUMPS 3 3 3	AVAILABILITY % 100% 100% 100%	OPERATIONAL FAULT OP OP OP	A A A A	PUMP UNIT REMARKS	ORDER	ELECTRICAL,STRUCTURAL REMARKS		ESTIMATED REPAIR DATE	UPDATES	
Ce NO: 1 2 3 4 5	Entral District FACILITY Pago Brigade Windward Hills Santa Rita Spring Santa Ana (Lower	t PUMP HORSEPOWE R 150 / 100 60 200 / 75 40 r) 25	NO OF INSTALLED PUMPS 3 3 3 2 2	NO OF OPERATIONAL PUMPS 3 3 3 2 2 2	AVAILABILITY % 100% 100% 100% 100% 100% 100%	OPERATIONAL FAULT OP OP OP OP N/A	A A A A	PUMP UNIT REMARKS	ORDER	ELECTRICAL,STRUCTURAL REMARKS		ESTIMATED REPAIR DATE	UPDATES	
Ce NO: 1 2 3 4 5 6	Pago Brigade Windward Hills Santa Rita Spring Santa Ana (Lower Camacho	t HORSEPOWE R 150 / 100 60 200 / 75 40	NO OF INSTALLED PUMPS 3 3 3	NO OF OPERATIONAL PUMPS 3 3 3	AVAILABILITY % 100% 100% 100%	OPERATIONAL FAULT OP OP OP OP N/A	A A A A	PUMP UNIT REMARKS	ORDER	ELECTRICAL,STRUCTURAL REMARKS		ESTIMATED REPAIR DATE	UPDATES	
Ce NO: 1 2 3 4 5 6 7	Entral District FACILITY Pago Brigade Windward Hills Santa Rita Spring Santa Ana (Lower	t HORSEPOWE R 150/100 60 200/75 40 r) 25 1	NO OF INSTALLED PUMPS 3 3 3 2 2 2 1	NO OF OPERATIONAL PUMPS 3 3 2 2 2 1	AVAILABILITY % 100% 100% 100% 100% 100% 100%	OPERATIONAL FAULT OP OP OP OP N/A	A A A A	PUMP UNIT REMARKS	ORDER	ELECTRICAL,STRUCTURAL REMARKS		ESTIMATED REPAIR DATE	UPDATES	
Ce NO: 1 2 3 4 5 6 7	Pago Brigade Windward Hills Santa Rita Spring Santa Ana (Lower Camacho Tenorio	t HORSEPOWE R 150 / 100 60 200 / 75 40 1 225 1 1.5	NO OF INSTALLED PUMPS 3 3 3 2 2 2 1 1 1 5	NO OF OPERATIONAL PUMPS 3 3 2 2 1 15	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 10	OPERATIONAL FAULT OP OP OP OP N/A	A A A A	PUMP UNIT REMARKS	ORDER	ELECTRICAL,STRUCTURAL REMARKS		ESTIMATED REPAIR DATE	UPDATES	
Ce NO: 1 2 3 4 5 6 7 7	Pago Brigade Windward Hills Santa Rita Spring Santa Ana (Lower Carnacho Tenorio Total=7	t PUMP HORSEPOWE R 150/100 60 200/75 40 r) 25 1 1.5 f operational pur	NO OF INSTALLED PUMPS 3 3 3 2 2 2 1 1 1 5	NO OF OPERATIONAL PUMPS 3 3 2 2 1 15	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 10	OPERATIONAL FAULT OP OP OP OP N/A	A A A A	PUMP UNIT REMARKS	ORDER	ELECTRICAL,STRUCTURAL REMARKS		ESTIMATED REPAIR DATE	UPDATES	
Ce NO: 1 2 3 4 5 6 7 7	Provide a construction of the second	t PUMP HORSEPOWE R 150/100 60 200/75 40 r) 25 1.5 f operational pur rict	NO OF INSTALLED PUMPS 3 3 2 2 2 1 1 15 mps/no of pumps	NO OF OPERATIONAL PUMPS 3 3 2 2 2 1 1 1 5 *100%	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 10	OPERATIONAL FAULT 0P OP OP N/A N/A	AANUAL/AUTO A A A A	PUMP UNIT REMARKS	ORDER NO:	ELECTRICAL_STRUCTURAL REMARKS	ORDER NO:	ESTIMATED REPAIR DATE	UPDATES	
Ce NO: 1 2 3 4 5 6 7 7	entral District FACILITY Pago Brigade Windward Hills Santa Rita Spring Santa Ana (Lower Camacho Tenorio Total-7 np availabity =no di buthern Distri	t PUMP HORSEPOWE R 150/100 60 200/75 40 1 225 1 1.5 1 operational pur ict PUMP HORSEPOWE	NO OF INSTALLED PUMPS 3 3 2 2 1 1 15 mps/no of pumps NO OF INSTALLED	NO OF OPERATIONAL PUMPS 3 3 2 1 15 s*100%	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 100% PUMP	OPERATIONAL FAULT OP OP OP N/A N/A N/A SENERATOR OPERATIONAL	AANUAL/AUTO A A A A A	PUMP UNIT REMARKS	ORDER NO:	ELECTRICAL_STRUCTURAL REMARKS Valve has to be operated manually prior to start up of pump. VALVES, ELECTRICAL,STRUCTURAL	ORDER NO:	ESTIMATED REPAIR DATE	UPDATES	
Ce NO: 1 2 3 4 5 6 7 7 9 0 0 NO:	entral District FACILITY Pago Brigade Windward Hills Santa Rita Spring Santa Ana (Lower Camacho Tenorio	t PUMP HORSEPOWE R 150/100 60 200/75 40 150/100 60 200/75 1 40 150/100 60 200/75 1 40 150/100 60 200/75 1 40 150/100 60 200 7 5 40 150/75 150/70 150/70 150/75 150/70 150/70 150/75	NO OF INSTALLED PUMPS 3 3 2 2 1 1 15 nps/no of pumps NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS 3 3 2 1 15 s*100%	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 10	OPERATIONAL FAULT 0P OP OP OP N/A N/A N/A OP GENERATOR OPERATIONAL FAULT	ANUAL/AUTO A A A A A A A A MAUAL/AUTO		ORDER NO:	ELECTRICAL,STRÜCTURAL REMARKS Valve has to be operated manually prior to start up of pump. VALVES,	ORDER NO:			
Ce NO: 1 2 3 4 5 6 7 7 9 0 0 NO: NO: 1	entral District FACILITY Pago Brigade Brigade Brigade Brigade Santa Rita Spring Santa Ana (Lover Camacho Tenorio Total=7 Total=7 Total=7 Total=7 total=7	t PUMP HORSEPOWE R 150/100 60 200/75 40 125 1.5 1.5 f operational pur FICE PUMP HORSEPOWE R 125/50	NO OF INSTALLED PUMPS 3 3 3 2 2 1 1 1 NO OF INSTALLED PUMPS 3	NO OF OPERATIONAL PUMPS 3 3 3 2 2 1 1 1 5 *100%	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 10	0PERATIONAL FAULT 0P 0P 0P 0P N/A N/A N/A N/A SERERATOR 0PERATIONAL FAULT 0P	MANUAL/AUTO A A A A A A A MANUAL/AUTO A		ORDER NO:	ELECTRICAL_STRUCTURAL REMARKS Valve has to be operated manually prior to start up of pump. VALVES, ELECTRICAL,STRUCTURAL	ORDER NO:			
Ce NO: 1 2 3 4 5 6 7 7 pum SO NO: 1 2	entral District FACILITY Pago Brigade Windward Hills Santa Rita Spring Santa Ana (Lower Camacho Camacho pavailability =no of tenofo Total=7 pavailability =no for tenter FACILITY Halojioj Line Geus	t PUMP HORSEPOWE 150/100 60 220/75 40 15 1 1.5 1 coperational pur HORSEPOWE R 1225/50 25	NO OF INSTALLED 9UMPS 3 3 3 2 2 1 1 1 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1	NO OF OPERATIONAL PUMPS 3 3 2 1 15 \$*100% POPERATIONAL PUMPS 3 2	AVAIL ABILITY % 100% 100% 100% 100% 100% 100% 100% 10	OPERATIONAL FAULT 0P	ANUAL/AUTO A A A A A A A A MAUAL/AUTO		ORDER NO:	ELECTRICAL_STRUCTURAL REMARKS Valve has to be operated manually prior to start up of pump. VALVES, ELECTRICAL,STRUCTURAL	ORDER NO:			
Ce NO: 1 2 3 4 5 6 7 7 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PAGE INTERPORTED I	t PUMP HORSEPOWE R 150/100 60 2200/75 40 200/75 40 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	NO OF INSTALLED PUMPS 3 3 2 1 15 mps/ho of pumps NO OF INSTALLED PUMPS 3 2 1 15 2 2 3 2 3 2 2 2 2 2	NO OF OPERATIONAL PUMPS 3 3 2 1 15 s*100%	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 10	OPERATIONAL FAULT OP OP OP NA N/A N/A GENERATOR OPERATIONAL FAULT OP OP N/A	MANUAL/AUTO A A A A A A A MANUAL/AUTO A A A	PUMP UNIT REMARKS	ORDER NO:	ELECTRICAL_STRUCTURAL REMARKS Valve has to be operated manually prior to start up of pump. VALVES, ELECTRICAL,STRUCTURAL	ORDER NO:			
Ce NO: 1 2 3 4 5 6 7 pum So NO: 1 2 3 4	entral District FACILITY Pago Binade Windward Hills Santa Ana (Lover Camacho Camacho Tenoño Total-7 np availability =no of uthern Distri FACILITY Malojioj Line Geus Pigua Toguan	PUMP HORSEPOWE R 150/100 60 200/75 40 1 1.5 1 1.5 doperational pure R PUMP HORSEPOWE R 125/50 25 25	NO OF INSTALLED PUMPS 3 3 3 2 2 1 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	NO OF OPERATIONAL PUMPS 3 3 3 2 2 1 1 5 5*100% 0PERATIONAL PUMPS 3 2 2 2 2	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 10	ОРЕRАТIONAL FAULT 0P 0P 0P 0P 0P N/A N/A N/A 0PERATOR 0PERATONAL FAULT 0P 0P N/A 0P	MANUAL/AUTO A A A A A A MANUAL/AUTO A A A	PUMP UNIT REMARKS	ORDER NO:	ELECTRICAL_STRUCTURAL REMARKS Valve has to be operated manually prior to start up of pump. VALVES, ELECTRICAL,STRUCTURAL	ORDER NO:			
Ce NO: 1 2 3 4 5 6 7 pum 1 2 3 4 5 6 7 pum 1 2 3 4 5	FACILITY Pago Brigade Windward Hills Santa Rita Spring Santa Ana (Lower Camacho Tenorio Total=7 Total=7 rotal=7 pavailability=no of uthern Distr FACILITY Malojloj Line Geus Pigua Toguan WBP-2	t PUMP HORSEPOWE R 150/100 60 200/75 40 200/75 1.5 1.5 1.5 1.5 C PUMP HORSEPOWE R 125/50 25 7.5 25 25	NO OF INSTALLED PUMPS 3 3 3 2 2 1 1 5 5 2 2 1 1 5 5 1 5 1 5 1 5 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NO OF OPERATIONAL PUMPS 3 3 3 3 1 15 s*100%	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 10	ОРЕRАТIONAL FAULT 0P 0P 0P 0P 0P N/A N/A N/A N/A N/A N/A 0PERATIONAL FAULT 0P 0P 0P 0P 0P	MANUAL/AUTO A A A A A A A MANUAL/AUTO A A A A A	PUMP UNIT REMARKS	ORDER NO:	ELECTRICAL_STRUCTURAL REMARKS Valve has to be operated manually prior to start up of pump. VALVES, ELECTRICAL,STRUCTURAL	ORDER NO:			
Ce NO: 1 2 3 4 5 6 7 pum NO: 1 2 3 4 5 6 7 Pum NO: 1 2 3 4 5 6 7 7 Pum NO: 1 2 3 4 4 5 6 7 7 Pum NO: 1 2 3 4 5 6 7 7 Pum NO: 1 1 2 3 4 1 5 6 7 7 Pum NO: 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	FACILITY Pago Bridade Santa Ana (Lower Carmacho Santa Ana (Lower Carmacho Total=7 pavailability =no of there n Distr FACILITY Malo/loj Line Geus Pigua Toguan Toguan WBP-1	t PUMP HORSEPOWE R 150/100 60 200/75 40 15 1 15 1 15 1 1 1 1 1 1 1 1 1 1 1 1 1	NO OF INSTALLED PUMPS 3 3 3 2 2 1 1 5 15 15 15 15 15 15 15 15 15 15 15	NO OF OPERATIONAL PUMPS 3 3 2 2 1 1 5 5*100% NO OF OPERATIONAL PUMPS 3 2 2 2 2 2 2 2 2 2 2	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 10	OPERATIONAL FAULT OP OP OP OP N/A N/A N/A OP OP	MANUAL/AUTO A A A A A A MANUAL/AUTO A A A A A A A A	PUMP UNIT REMARKS	ORDER NO:	ELECTRICAL_STRUCTURAL REMARKS Valve has to be operated manually prior to start up of pump. VALVES, ELECTRICAL,STRUCTURAL	ORDER NO:			
Ce NO: 1 2 3 4 5 6 7 pum NO: 1 2 3 4 5 6 7 Pum NO: 1 2 3 4 5 6 7 7 Pum NO: 1 2 3 4 4 5 6 7 7 Pum NO: 1 2 3 4 5 6 7 7 Pum NO: 1 1 2 3 4 1 5 6 7 7 Pum NO: 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Harrish District FACILITY Pago Brigade Brigade Brigade Hills Santa Rita Spring Santa Ana (Lover Camacho Tennio Total=7 np availability=no of uthern Distr FACILITY Malojio Line Geus Figua Toguan WBP-2 WBP-1	t PUMP HORSEPOWE R 150/100 60 200/75 40 15 1 15 1 15 1 1 1 1 1 1 1 1 1 1 1 1 1	NO OF INSTALLED PUMPS 3 3 3 2 2 1 1 5 5 2 2 1 1 5 5 1 5 1 5 1 5 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NO OF OPERATIONAL PUMPS 3 3 2 1 15 s*100%	AVAILABILITY % 100% 100% 100% 100% 100% 100% 100% 10	ОРЕRАТIONAL FAULT 0P 0P 0P 0P 0P N/A N/A N/A N/A N/A N/A 0PERATIONAL FAULT 0P 0P 0P 0P 0P	MANUAL/AUTO A A A A A A A MANUAL/AUTO A A A A A	PUMP UNIT REMARKS	ORDER NO:	ELECTRICAL_STRUCTURAL REMARKS Valve has to be operated manually prior to start up of pump. VALVES, ELECTRICAL,STRUCTURAL	ORDER NO:			
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