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11/25/20	5:43 PM	11/24/20	CCU-Meeting packet, Minutes and Resolutions for Regular Board Meeting held on November 24, 2020.*	Consolidated Commission on Utilities	35GL-20-2454

Sinseru yan Minagåhet,

Office of the Speaker • Tina Rose Muña Barnes
Committee on Public Accountability, Human Resources & the Guam Buildup

35th Guam Legislature
I Mina'trentai Singko na Liheslaturan Guåhan

Guam Congress Building | 163 Chalan Santo Papa | Hagatna, GU 96910
T: (671) 477-2520/1
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Gumai pribilehu yan konfedensia este siha na mensåhi. Solo espesiåtmente para hågu ma entensioña pat ma aturisa para unrisibi. Sen prubidu kumu ti un ma aturisa para manribisa, na'setbe, pat mandespåtcha. Yanggen lachi rinisibu-mu nu este na mensåhi , put fabot ago' guatu gi I numa'huyong gi as speaker@guamlegislature.org yan despues destrosa todu siha I kopian mensåhi. Si Yu'os ma'åse'.

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Dear Governor and Speaker:

Pursuant to P.L. 31-233, attached are the meeting packet, Minutes and Resolutions related to the CCU Meeting of 11/24/20.

Respectfully,
B, Lou Sablan
CCU Recording Secretary

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8 items

CCU 11.24.20.pdf
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GPA Resoltuion 2020-24 Petition PUC for No Change in LEAC for Period Feb-July2021.pdf
104 KB

GPA Resolution 2020-23 Authorized Bank Signatories.pdf
62.8 KB

GWA Resolution 03-FY2021 Relative to Rte 1 Sewer Rehab ConstrContract and Asan-Adelup-Hagatna Replacement Project.pdf
1.51 MB

GWA Resolution 04-FY2021 Relataive to Change Order ConstrMgmt Contract Rte1 Sewerline Rehab & Replacement Project.pdf
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GWA Resolution 05-FY2020 Relative to Creation of Asst GM of Engineering Job Claassification Standard.pdf
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CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | guamccu.org

RESOLUTION NO. 2020-24

AUTHORIZING THE MANAGEMENT OF THE GUAM POWER AUTHORITY TO PETITION THE GUAM PUBLIC UTILITIES COMMISSION FOR NO CHANGE IN THE LEVELIZED ENERGY ADJUSTMENT CLAUSE

WHEREAS, the Guam Public Utilities Commission (GPUC) has established a Tariff under which the Guam Power Authority (GPA) is allowed to recover its fuel costs and fuel related costs under a factor which is reset and trued up every (6) six months through the Levelized Energy Adjustment Clause (LEAC); and

WHEREAS, the deadline for the next filing is December 15, 2020; and

WHEREAS, for the LEAC period covered from February 1, 2020 through July 31, 2020, GPA requested and was approved for an adjustment to the LEAC rate of $0.134474/kWh that was approved for meters read on or after February 1, 2020 in anticipation of projected declining prices of black oil in the fuel market and to recover the under-recovery balance of fuel cost at the end of the period. At the time of original the original filing, the average projected cost for black oil and diesel was $62.05/bbl; and

WHEREAS, on March 24, 2020, GPA filed for an Interim LEAC Factor of $0.110039/ kWh as the projected price of diesel dropped about $24/bbl bringing the average projected cost for both types of fuel down to $53.36/bbl. The interim LEAC factor was approved for meters read on or after April 1, 2020; and

WHEREAS, in May 2020, the Interim LEAC Factor of $0.086800/kWh effective June 1, 2020, as ordered by the Public Utilities Commission, included the additional rate of $0.003109/kWh establishing the funding source for the Demand Side Management (DSM) Program that would provide roughly $1.5M for a six-month period.

Total revenues collected for the DSM Program between the five-month period of June through October 2020 is $1.6M, or an average of $320 thousand per month; and

WHEREAS, for the regular biannual LEAC period of August 1, 2020 thru January 31, 2021, the Public Utilities Commission ordered to maintain the Interim LEAC Factor of $0.086800/kWh and the rates for the alternative voltage levels effective June 1, 2020, including the imbedded rate of $0.003109/kWh for the Demand Side Management (DSM) Program; and

WHEREAS, the average market price of residual fuel oil and diesel used in the initial filing for the current period was approved at $39.30/bbl for the (6) six-month period ending January 31, 2021, the current projection for the same period is $48.50/bbl. The projected average price of residual fuel oil and diesel for the period ending July 31, 2021 is expected to reach $53.82/bbl; and

WHEREAS, the most recent Morgan Stanley market projections indicate rising fuel prices and projected under-recovery for the period ending July 31, 2021 at the current LEAC rate of $.0868000/kWh is $30.3M; and

WHEREAS, GPA initially proposed a gradual true up of fuel cost by increasing the LEAC rate to recover 50% of the total projected under recovery from $0.0868000/kWh to $0.111653/kWh or a 28.63% increase from the current LEAC rate for secondary voltage customers for the periods of February 1, 2021 through July 31, 2021; and

WHEREAS, at the bequest of the CCU, GPA was ordered to seek ways to mitigate LEAC increase in order to further assist ratepayers during this pandemic period; and

WHEREAS, GPA has identified $5M in internally funded CIP to be delayed in FY'2021 and used to off-set the projected LEAC under recovery; and

WHEREAS, GPA has $20M in the self-insurance fund reserve for typhoons and other disasters and if approved by the Guam Public Utilities Commission could be utilized to mitigate a LEAC increase at this time; and

WHEREAS, a $10M withdrawal from the self-insurance fund could be refunded by activating the surcharge beginning August 1, 2021 to fully restore the fund back to $20M over a five-year period; and

WHEREAS, the use of the fund will be in the best interest of the ratepayers; and

WHEREAS, GPA now is requesting the Consolidated Commission on Utilities to authorize the Authority to file such petition with the Guam Public Utilities Commission; and

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

The General Manager is authorized to petition the Guam Public Utilities Commission to maintain the current LEAC rate of $0.086800/kWh, and to use $10M of the self-insurance fund to off-set the projected LEAC under recovery, and therefore maintain the current LEAC rate of $0.086800/kWh effective for the period from February 1, 2021 to July 31, 2021.

The General Manager is further authorized to reduce the internally funded CIP budget by $5M in FY'2021 to be used to off-set the projected LEAC under recovery.

The General Manager is further authorized to petition the Guam Public Utilities Commission to pay back the $10M withdrawal from the self-insurance fund over a five-year period beginning August 1, 2021.

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 24th DAY OF NOVEMBER 2020

Certified by:

JOSEPH T. DUENAS
Chairperson
Consolidated Commission on Utilities

Attested by:

MICHAEL T. LIMTIACO
Secretary
Consolidated Commission on Utilities

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

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

Ayes: 5

Nays: ø

Abstentions: ø

Absent: ø

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

RESOLUTION NO.: 2020-23

TO CHANGE THE SIGNATORIES THAT MAY AUTHORIZE BANKING TRANSACTIONS ON BEHALF OF GPA

WHEREAS, the Guam Power Authority (GPA) maintains a variety of bank accounts, Letter of Credit facilities and other financial instruments and accounts at institutions including but not limited to the Bank of Guam, Bank of Hawaii, First Hawaiian Bank, ANZ Guam Inc., Coast 360 Federal Credit Union, Bank Pacific, Community First Credit Union, US Bank; and

WHEREAS, the Guam Power Authority has designated certain employees to sign checks and financial instruments including but not limited to Letters of Credit and to authorize transactions on behalf of the Utility; and

WHEREAS, GPA has determined that due to staffing changes, it is appropriate that a change be made to the authorized signatories; and

WHEREAS, the limitation for the amount of checks requiring two (2) signatories has not been modified since October 27, 2015 and remains unchanged; and

NOW THEREFORE, BE IT RESOLVED BY THE CCU, AS THE GOVERNING BODY OF THE GPA, AS FOLLOWS:

1. The following persons are authorized to sign financial instruments including checks, Letters of Credits, bank transfers and other transaction documents and to authorize other types of payments on behalf of the Guam Power Authority:

JOHN M. BENAVENTE, P.E., General Manager
MELINDA C. MAFNAS, P.E., Assistant General Manager of Operations
JOHN J.E. KIM, Chief Financial Officer
MARIPAZ N. PEREZ, Assistant Chief Financial Officer
LENORA M. SANZ, Controller

2. Transaction amounts of $10,000.00 or less will require a single signatory. All other transactions will require two (2) signatories.

3. The Chairman and Secretary of the Consolidated Commission on Utilities are authorized to sign resolutions which are generally consistent with the authorizations.

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 24th DAY OF NOVEMBER 2020

Certified by:

JOSEPH T. DUENAS
Chairperson
Consolidated Commission on Utilities

Attested by:

MICHAEL T. LIMTIACO
Secretary
Consolidated Commission on Utilities

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

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

Ayes:	5
Nays:	ø
Abstentions:	ø
Absent:	ø



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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., November 24, 2020

AGENDA

1. **CALL TO ORDER**

2. **APPROVAL OF MINUTES**

3. **PUBLIC COMMENTS [*Limit to 2 minutes*]**

4. **GWA**
   - **4.1 GM Report**
   - **4.2 Financials**
   - **4.3 Resolution 03-FY2021 Relative to Rte1 Sewer Rehab and Asan-Adelup-Hagatna Replacement Project**
   - **4.4 Resolution 04-FY2021 Relative to ChangeOrder ConstrMgmt Contract Rte1 Sewerline Rehab & Replacement Project**
   - **4.5 Resolution 05-FY2021 Relative to Creation of Asst GM of Engineering Job Classification Standard**

5. **GPA**
   - **5.1 GM Report**
   - **5.2 Financials**
   - **5.3 Resolution 2020-23 Relative to Updating Authorized Bank Signatory**
   - **5.4 Resolution 2020-24 Relative to LEAC Adjustment**
   - **5.4 Resolution 2020-25 Relative to Award of PMC for Yigo Diesel Generators**

6. **OTHER DISCUSSION**
   - **6.1 CCU Rules Update**

7. **ANNOUNCEMENTS**
   - **7.1 Next CCU Meetings: No GWA/GPA Work Session; CCU Mtg – 12/3 [tentative]**

8. **ADJOURNMENT**

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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., September 22, 2020

MINUTES

1. CALL TO ORDER

The CCU Chairman called the September 22 , 2020 CCU Regular Meeting to order at 5:33 p.m. He said four [4[Commissioners were present for a quorum and that Comm. Sanchez was excused. Others in attendance include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis E. Santos	CCU Vice Chairman
Michael T. Limtiaco	CCU Secretary
Judith P. Guthertz	CCU Treasurer

Executive Mgmt.:

John Benavente	GM / GPA
Melinda Mafnas	AGMA / GPA
Tricee Limtiaco	AGMA / GPA
Chris Budasi	AGMA / GWA
John Kim	CFO / GPA
Taling Taitano	CFO / GWA
Graham Botha	Legal Counsel / GPA
Kelly Clark	Legal Counsel / GWA

Management & Staff:

Vien Wong	IT Support / GPA
Vlad Novasca	IT Support / GPA
Patti Diego	Communications / GPA
Ann Borja-Gallarde	Management Analyst IV / GWA Ex.Office
Lou Sablan	Board Secretary / CCU

2. APPROVAL OF MINUTES

The Minutes of June 23, 2020 was presented for approval.

Comm. Limtiaco motioned to approve the Minutes subject to verification and written correction second by Comm. Guthertz. There was no objection or discussion and the motion passed unanimously.

3. PUBLIC COMMENTS - None

4. GWA

4.1 GM Report

GM Miguel gave his usual GM Summary – highlights are noted below.

GWA Workforce availability as of September 11, 2020

Healthy	357	94.4%
Sick, not COVID-19 related	4	1.1%
COVID-19 Quarantined	2	0.5%
Employee diagnosed with COVID-19	1	0.3%
COVID-19 Medical Risk		0.0%
Military Leave	13	3.4%
LTD	1	0.3%
	378	**100%**

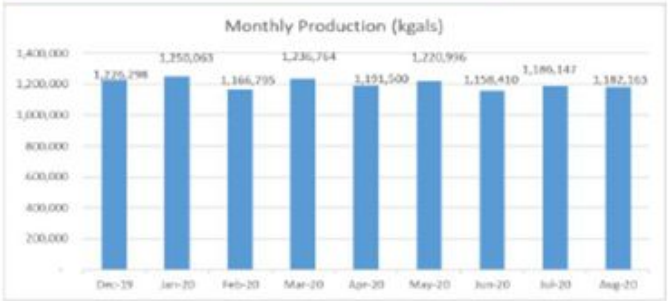
	Total	
Healthy/Reporting for duty at worksite	267	70.6%
Healthy/Reporting for duty - Part Teleworking and Part Reporting for duty at worksite	39	10.3%
Healthy/Reporting for duty - Teleworking	48	12.7%
Employee sick - symptoms unrelated to COVID-19	4	1.1%
Military Leave	13	3.4%
LTD/Workers Comp	1	0.3%
Employee wants to electively self-quarantine; status not considered vulnerable - does not report for duty	3	0.8%
Employee's direct exposure to a household member - COVID-19 confirmed case	1	0.3%
Employee diagnosed with COVID-19	1	0.3%
Employee's direct exposure to a household member being tested for COVID-19	1	0.3%
	378	**100%**

Operations Update

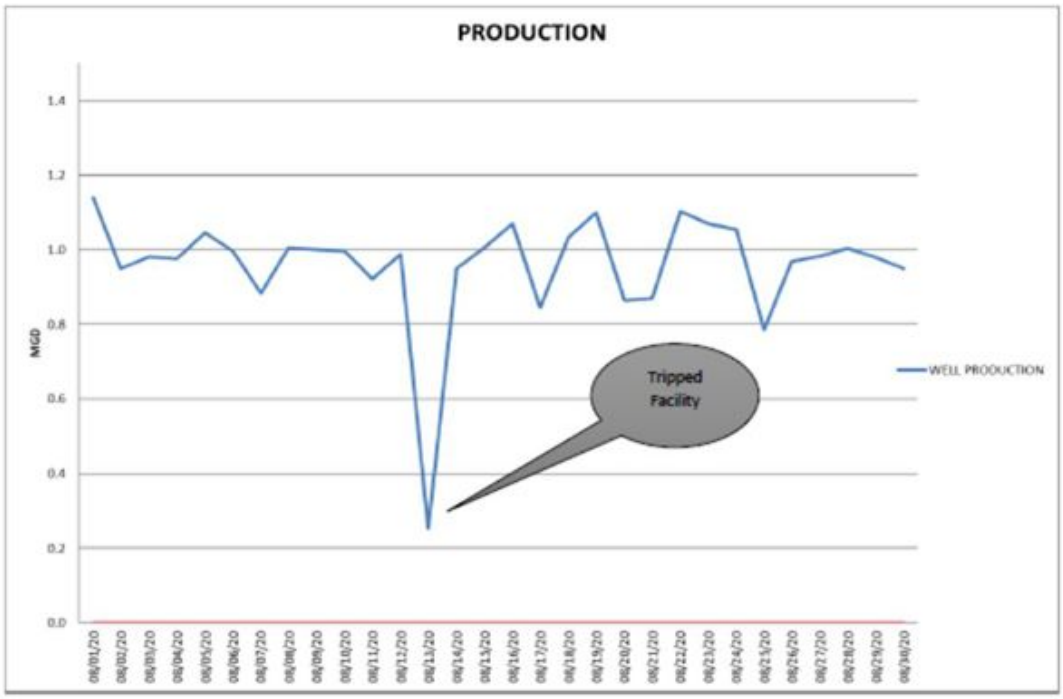
Production (August 2020)

Monthly Production Summary - August 2020				
Deep Wells			34.8	MGD
Active wells =	88	of 120		
Avg days in operation =	31	days		
Total Production =	1,078,387	Kgals		
Springs			0.18	MGD
Avg days in operation =	31	days		
Total Production =	5709	Kgals		
Ugum Surface Water Plant			2.2	MGD
Avg days in operation =	31	days		
Total Production =	68,309	Kgals		
Tumon Maui Well			0.96	MGD
Avg days in operation =	31	days		
Total Production =	29,758	Kgals		
	1,182,163	Kgals	38.1	MGD

DW Status as of 8/31/2020		
Active	88	
Grounded motor or Pump Failure	8	A26-D02-D03-D10-F06-F13-Y13-Y32
Out of commission	8	A02-A07-A28-D05-D13-MSA-M05-M05
Temporarily Secured	2	A23-A26
Standby	14	A10-A12-A29-D20-D24-F04-F05-F10-F20-M09-MC3-MLTA-Y01-Y02
TOTAL	120	



Tumon Maui Well Production (August 2020)



Distribution (August 2020)

Monthly Distribution Summary - August 2020					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	13	26	24	92.3%
	Central	7	15	15	100.0%
	Southern	7	15	15	100.0%
		27	56	54	96.4%



Wastewater Collections (August 2020)

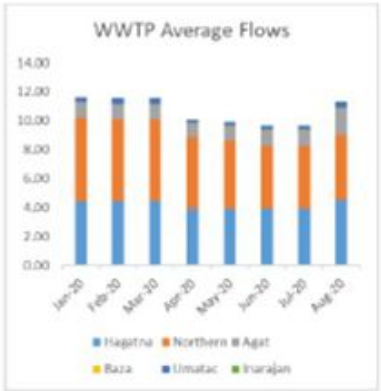
Monthly Collections Summary - August 2020					
Wastewater Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	47	90.4%
	Central	29	63	57	90.5%
	Southern	26	56	53	94.6%
		77	171	157	91.8%





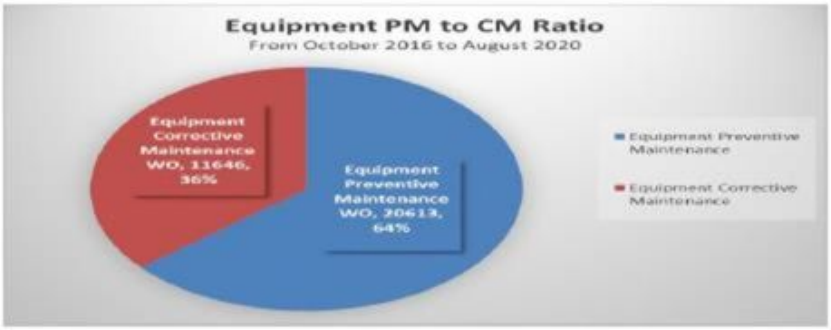
Wastewater Treatment (August 2020)

Monthly Wastewater Treatment Summary - August 2020				
WW Treatment Plants - Flows				
	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. ($)
	Hagatna	4.56	264,940	$ 23,845
	Northern	4.5	661,740	$ 59,557
	Agat	1.8	20,680	$ 1,861
	Baza	0		
	Umatac	0.40		
	Inarajan	0.09		
		11.35	947,360	$ 85,263

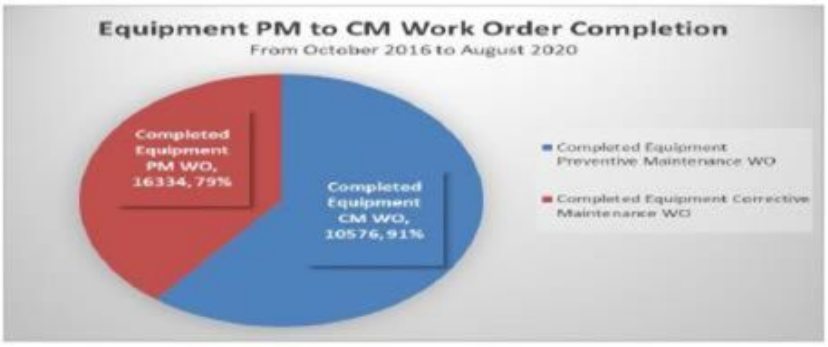


Asset Management (August 2020)

I. Equipment Preventive Maintenance to Corrective Maintenance ***Ratio***

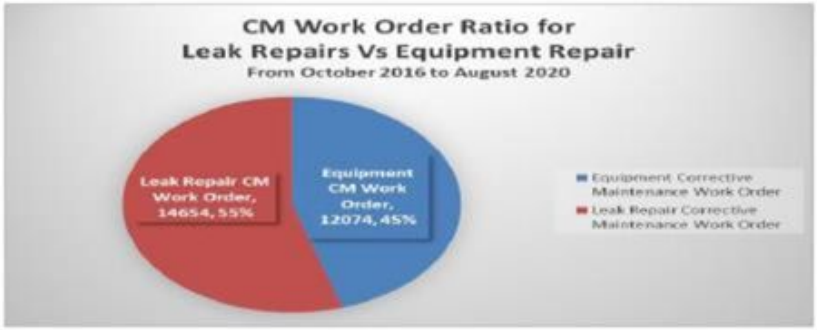


II. Equipment Preventive Maintenance to Corrective Maintenance ***Work Order Completion***

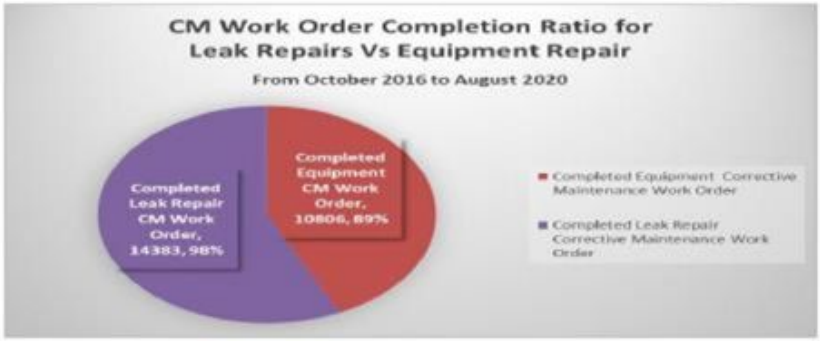


Asset Management (August 2020)

III. Corrective Maintenance Work Order ***Ratio*** for Leak Repairs vs. Equipment Repair

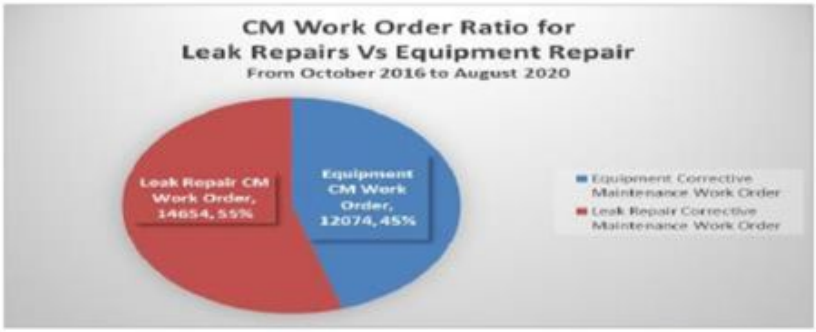


IV. Corrective Maintenance Work Order ***Completion*** for Leak Repairs vs. Equipment Repair



Asset Management (August 2020)

III. Corrective Maintenance Work Order *Ratio* for Leak Repairs vs. Equipment Repair



IV. Corrective Maintenance Work Order *Completion* for Leak Repairs vs. Equipment Repair



Backbilling through August 2020

Guam Waterworks Authority
Collections Report[1] on Accounts Backbilled thru August 31, 2020
For fiscal years 2015 thru 2020 (Aug)

Accounts Billed			Collection Status											
			Amounts Collected			Amounts Adjusted			Total Uncollected (Active)			Total Uncollected (Inactive)		
FY Billed	No. of Accounts	Amount	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%
FY2015														
FY2016	17	$ 882	17	$ 882	100%	0	$ -		0	$ -		0	$ -	
FY2017	537	$ 397,450	462	297,758	75%	18	38,487	10%	31	35,336	9%	26	25,869	7%
FY2018	1,374	$ 742,109	1,199	559,140	75%	60	69,706	9%	67	71,743	10%	48	41,520	6%
FY2019	8,325	$ 3,064,384	7,511	2,091,485	68%	185	169,997	6%	401	694,204	23%	228	108,697	4%
FY2020	2,980	$ 903,704	2,158	385,973	43%	34	17,145	2%	742	488,903	54%	46	11,683	0%
Total	13,233	$ 5,108,529	11,347	$ 3,335,238	65%	297	$ 295,336	6%	1,241	$ 1,290,186	25%	348	$ 187,769	4%

[1] Collections thru September 9, 2020

One Guam Update (August 2020)

- Tumon Maui Well
  - Quarterly Inspection - awaiting lab results
    - New log book for GPA generator maintenance placed at TMW for easy verification during inspections.
  - DOD unable to locate missing keys for property adjacent to St John's.
    - GWA was given permission to cut the locks, replace with their own, and provide Navy with a copy of the keys.
  - GWA and DoD in discussions on next steps when license renewals expire.
- 02-AG1
  - Fence proposal update (for independent GWA access to well)
    - GWA identified crew and equipment to locate water lines.
  - GWA and DoD in discussions on modification of license production rates
    - license allowance is 5M gallons/month (~115 gpm)
    - Permitted capacity is 7.6M gallons/month (~174 gpm)
    - Andersen will look at modifying the license.
- 04-OEA Projects
  - Observation Wells/NGLA
    - No update on TCEs.
    - Maria requested cost breakdown by well from WERI and USGS to develop the MOU for annual cost for monitoring and maintenance for the DOD wells.
- 05-Interagency Utility service agreement
  - GWA and DoD met to discuss how to move forward.
- 07-Property Transfers
  - Transfer of Navy Laterals at Murray Road to GWA – no update.
- 30-Other
  - Marine Corps Base – Forest Enhancement Irrigation (FEI)
    - Updated water requirements were received.
    - GWA to determine methods of delivery available.
  - Umatac / Cetti Bay Easement
    - GWA Legal to move forward on determining in-kind request options.
  - Intergovernmental Service Agreement / Bulk Water Sales
    - Maria met with Miguel to begin the process.

Court Order Summary (August 2020)

	Total Items	On-time Items Completed / Continuous	In Progress - late	Completed - Late	In Progress - on time	Performance %
Court order total	93	78	1	14	0	98.90%



	Court Order Items	%	Performance (on-time or completed)
Completed/Continuous - on time	78	84%	
Completed - late	14	15%	
In Progress - on time	0	0%	
In Progress - late	1	1%	98.9%
Totals	93	100%	

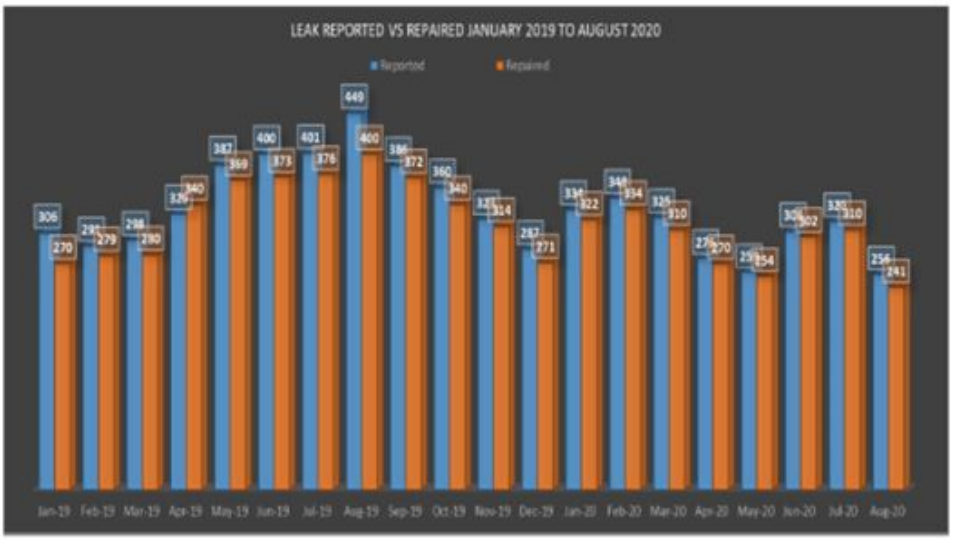
Court Order – Status Information (August 2020)

- 1 item delayed - The Court Order is down to one item remaining, § II, (C), (29) – Storage tank Repair. Restoration, Replacement or Relocation – which is the item that will take longer than the "end" of the court order. That makes us 98.9% done with the CO.
- Final Date to complete all Court Order items will be delayed past December 31, 2020.
  - CO 29(b) has been expanded by 31% beyond the original Court Order Requirements
  - General Counsel is drafting filing for submission to District Court
  - Additional impact resulted from delay of 2020 Bond issuance and there is also delay due to COVID-19 impacts
- Overflow or Bypass events reported to USEPA:
  - 8.27.20 - Vietnam Veterans Highway, Barrigada - sewer overflow SSO #220 - rain
  - 8.27.20 - Chalon Canton Tasi, Hagatña - sewer overflow SSO #221 - rain
  - 8.13.20 – Limtiaco Street, Asan - #210 - contractor pump capacity, insufficient - rain
  - 8.31.20 – Mendioka Street, Dededo - SO#230- manhole overflow - FOG
  - 9.05.20 - 209 Chalan Guagua, Dededo - sewer overflow SSO #232 – FOG
  - 9.05.20 - 132 Taigigao Street, Agaña Heights - sewer overflow SSO #235 – FOG
  - 9.07.20 - 136 Tun Justo Dungca Street, Tamuning - sewer overflow SSO#233 – FOG

Land Acquisition Summary (August 2020)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo	Gov't. - CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. Follow up update status request emailed to DLM 05/14/2020.
	Piti	Private	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 form.
	Airport	Private	Email response from property owners on GWA offer letter, pending review from family attorney 09/01/2020.
Deep Wells	AG-12	Dept. of Agriculture/Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2nd follow up sent on 09/12/18. 3rd follow up sent on 04/10/19. Retracement Survey Property Map filed and recorded at DLM 7/10/19.
Booster Pump Station	Agfayan	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19.
Asan Springs	Asan	Federal	In order for NPS to issue a land ROW agreement with GWA, NPS has to complete NEPA first. GWA has HDR under contract to perform this work and an Environmental Assessment will be developed. The permit for the biological survey was submitted on 6/12/2020 and is currently still in the hands of NPS. NPS is waiting to confirm with USFWS on the threatened and endangered species that are of concern at the project location. They are just waiting on USFWS confirmation.

Comparison of Leaks Reported vs. Leaks Repaired (August 2020)



4.2 Financials

CFO Taitano submitted the following financial update:

In response to the jump in cases in July and August, the Governor issued Executive Order (EO) 2020-27 on August 16 placing the island back in PCOR 1 for two weeks, closing essential businesses and restricting public access to government agencies. On August 27, the Governor issued EO 2020-29, continuing the stay at home order on a modified basis while allowing the GPWA drive thru's to open as well as public access to customer service lobbies. Subsequent EOs have extended the stay at home order to September 18th. Operations employees have continued to report to work, while most other employees are teleworking.

Using social media, GWA continues to encourage customers to conduct business online or via the phone. GWA also joined the *Going Online Together* campaign in June with several other organizations. Additionally, GWA has launched an automated customer service online support portal on its website.

Payments made online, on the mobile app, and over the phone increased as a percentage of total payments from 33% in June to 41% in August. Payments made at our facilities decreased as a percentage of total payments from 47% to 31%.

Collections appeared to return to pre-pandemic levels in June but have declined in July and August; August collections were more than $1M less than July. The closure of our cashiers' operations for a week after the PCOR 1 declaration likely influenced the decrease.

On April 28th, CCU Resolution 24-FY2020 granted the lifting of credit card limits on payments for non-residential accounts. Below is a summary of payments made and related fees exceeding the limit.

Month	Customer Count	Amount Paid	Fees	% of Fees to Payments
May 2020	18	$22,011	$543	2.46%
June 2020	21	$34,919	$702	2.01%
July 2020	35	$53,191	$1,069	2.01%
August 2020	32	$59,558	$1,197	2.01%

Year to Date consumption is slightly lower than last year (water consumption -1%, wastewater consumption 0%) and August 2020 consumption dipped below August 2019 (water consumption -3%, wastewater consumption 0%). Increases in residential demand continue to be offset by reductions in commercial demand. We continue to monitor bills as they drop to determine the impact of the closing of the economy. Visitors from low risk countries will not be quarantined if they stay less than 5 days. However, with the increase in COVID cases, their home countries may not be willing to ease quarantine requirements on their return.

Schools continue to remain closed during PCOR 1. This impacts demand as GDOE has been one of GWA's top ten customers for both water and wastewater services. See Schedule K for Water Demand for FY2015 to FY2020.

As revenues are monitored, the cost containment plan continues to be also adjusted as needed. While sufficient cash reserves are in place, management will continue to assess the situation and make any course corrections required to ensure continuity of services to our customers while keeping the safety of our staff the highest priority.

GWA refunded a portion of its Series 2013 Bonds and issued Series 2020B on August 26, 2020. The average coupon of the refunded bonds was 5.48% versus the average coupon of the new bonds at 3.61%. The net present value of savings is $11.9 million. GWA will save almost $1.5M in debt service in the first year and almost $1.9M annually between 2022 and 2027.

Balance Sheet

- Total Assets & Deferred Outflows of Resources of $915.7M in September 2019 grew by $195M or 21% to $1.1B in August 2020 largely due to funds from the sale of bonds. Current Assets decreased by $5.9M, Property, Plant and Equipment increased by $66.9M, and Other Noncurrent Assets increased by $114.9M. Schedule G contains a schedule of restricted and unrestricted cash and investments.
- Liabilities & Deferred Inflow of Resources of $714.2M in September 2019 similarly increased by $143.4M or 20% to $857.6M in August 2020 primarily due to the bond sales, increasing Long Term Debt by $157.3M.
- Accounts Receivable days were 49 in August 2020 as compared to 50 in September 2019 and Accounts Payable days were 32 in August 2020 as compared to 38 in September 2019.

Statement of Operations and Retained Earnings

- Note that the budget was adjusted to reflect the forecast adopted in the Series 2020B Official Statement.
- Total Operating Revenues for August 2020 of $8.4M were 5% or $474K less than budget and 10% or $911K less than August 2019 due to the impact of the COVID-19 public health emergency and offset by the 5% increase effective in March.
- Year to Date Operating Revenues as of August 2020 of $97.5M were about the same as budget or $258K more than budget and were $4.8M or 5% less than last year.
- Total Operating Expenses for August 2020 of $6.9M were $169K or 2% below budget. Total Operating Expenses for August 2020 were 8% or $591K less than August 2019 with decreases in most expense categories except for depreciation and retiree benefits.
- Year to Date Operating Expenses at August 2020 of $78.8M were $436K or 1% less than budget. Year to Date Operating Expenses at August 2020 were $1.7M or 2% more than last year's $77.1M mainly due to increases in Depreciation compared to the prior year.
- Earnings from Operations for August 2020 of $1.4M were 18% or $304K less than budget and 18% or $320K less than August 2019. Change in Net Assets for August 2020 of $5.2M were $2M more than the $3.2M budget mainly due to $4M more in Grants and $2.4M more than August 2019 due to $5.9M more in Grants offsetting the $3.2M decrease in Non-operating Revenues and Expenses.

- Year to Date Earnings from Operations as of August 2020 of $18.7M were 1% or $178K less than budget and 26% or $6.5M less than YTD Earnings as of August 2019. Year to Date Change in Net Assets as of August 2020 of $51.6M were $16.4M or 47% more than budget mainly due to $19.9M more in Grants than projected. Year to Date Change in Net Assets as of August 2020 were $17.4M or 51% more than YTD as of August 2019 mainly due to $43.1M more in Grants and $12.7M less in AFUDC and $3.3M less in interest income.

Key Financial Indicators

Indicator	Target	July 2020	August 2020
DSC YTD			
• Per Section 6.12 of Indenture	1.25	1.30	1.33
• Per PUC / CCU	1.40	1.30	1.33
YTD Month to Month Change in Net Assets		23%	13%
Days – Cash on Hand	120 days	296 days	291 days
Collection Ratio			
• Month to Date	*99%	101%	89%
• Year to Date	*99%	98%	98%
Days Billed	30	31	31
Account Receivable Days	*30	48	49
Account Payable Days	45	37	32
Employee Count	400 FTE	382 FTE	381 FTE
Water Demand			
• Month to Date	467,615	487,510	473,988
• Year to Date	3,740,923	4,794,023	5,268,011
Wastewater Flow			
• Month to Date	382,224	337,787	331,167
• Year to Date	2,775,095	3,394,712	3,725,878
Water Customers	42,724	42,904	42,992
Wastewater Customers	29,604	29,684	29,551

*Updated to reflect targets in Levels of Service

4.3 Resolution 36-FY2020 Relative to Approval of Amendment for the Indefinite Delivery/Indefinite Quantity Professional Project/Construction Management Services Contract for Task Order No. 7 Consent Decree and Hydraulic Modeling Assistance

GWA currently has an IDIQ contract with Brown and Caldwell. This Task Order would be added to the IDIQ Contract to provide technical input needed to complete the ongoing Consent Decree negotiations with the USEPA. The technical expertise is primarily required to define the criteria that will be used for the exiting capacity evaluations and for future expansion requirements for the wastewater collection system including the gravity sewer pipelines, pump stations and force mains. This work will also include updating of the existing wastewater collection system hydraulic models and calibration of the models for wet weather conditions.

Since the current USEPA negotiations are in progress the Consent Decree assistance is needed now. Also, since the hydraulic model analysis requires wet weather data that needs to be collected this wet season, work is needed to start on this component of the Task Order as well. The work anticipated under this task order will also include some work that is anticipated to be required under the expected Consent Decree later this year.

This Task Order will provide information exchange and a collection system Capacity Evaluation Report. The Consent Decree and hydraulic modeling work cover all of Guam. There are no construction activities associated with this Task Order.

The cost for this task Order No.7 is $325,750.00 with a 10% contingency of $32,575.00 for a total amount of $358,325.

The current authorized IDIQ contract amount is $1,742,860.00 that includes $166,231.00 not yet allocated to a Task Order. Task Orders issued to date include:

- Task Order 1 for the Consulting Engineers Report
- Task Order 2 for Project Management of the Route 4 Sewer Rehabilitation Project
- Task Order 3 for Project Management of the Route 1 Asan-Adelup Sewer Rehabilitation Project
- Task Order 4 for Project Management of the Southern SSES Sewer Project
- Task Order 5 for the Cost of Service Study
- Task Order 6 for Water Meter Technical Assistance

An additional $192,094.00 will be added to the IDIQ Contract to cover the Task Order 7 scope and a 10% contingency that will increase the IDIQ Contract amount to $1,934,954.00 and the funding source will be from GWA bonds and internally generated funds.

The Consent Decree assistance is anticipated to be complete by December 31, 2020 and the hydraulic modeling assistance work is anticipated to be completed by September 30, 2021.

Comm. Guthertz motioned to approve Resolution 36-FY2021 second by Comm. Limtiaco. There was no further discussion or objection and the motion passed 4 ayes and 1 absent.

4.4 Resolution 39-FY2020 Relative to Approving an Increase in Funding for the Tumon No. 2, Hyundai, Chaot No. 2 Tank and System Upgrades CM Services Contract

The project is part of the 2011 Court Order Paragraph 29 – Storage Tank/Reservoir Repair, Replacement, and Relocation Program. As a Court Order project, it is necessary and urgent to work towards meeting the Court Order deadlines. The project's objective is to provide construction management services for the construction of the Tumon No. 2, Hyundai, and Chaot No. 2 tanks and related distribution system upgrades, which include Hyundai booster pump station, transmission and distribution water lines for the Hyundai-Barrigada Heights area, St. John's PRVs, San Vitores PRVs, Dero Rd PRV, SCADA upgrades, chlorination upgrade at the Chaot and Agana Heights chlorination buildings and A-Series wells.

The objective of this Construction Management (CM) contract is to oversee and manage the construction of the work described above. The CCU authorized the initial CM contract in October 2017. The construction contractor was issued a Notice to Proceed on February 07, 2018 to begin work at the Tumon No. 2 and Hyundai tank and Chaot offsite work.

Change Order No. 1 was issued to the construction contractor on January 16, 2019 to include the construction of the Chaot No. 2 tank, Hyundai booster pump station, an 8-in and 12-in transmission and distribution line for the Hyundai-Barrigada Heights area.

Due to various delays in the construction work, the construction has been extended to February 2021. The main delays are the following:

1. Construction permit and highway encroachment permit delays for each individual site, which include the Marine Corps Drive waterline work, St. John's PRVs, San Vitores PRVs, Dero Road PRVs, and Hyundai-Barrigada Heights Sabana Road waterline work, and A-series well work;
2. COVID-19 pandemic delays, which include work shutdown, contractor staffing hold ups, and permitting agency (DPW) shutdown;
3. Inaccurate as-builts and record drawings for Marine Corps Drive and Hyundai-Barrigada Heights water lines, which led to GWA and Contractor troubleshooting the system and changes in design to accommodate for actual site conditions;
4. Design changes initiated by GWA for the Hyundai Booster Pump Station, additional SCADA work at all sites, and modification to the chlorination system at the Chaot and Agana Heights central chlorination buildings and A-series wells;

The original RFP for the CM services included all sites. The scope and fee were negotiated for only Tumon No. 2 and Hyundai tank and Chaot offsite work matching the Contractor's original contract. The CM services construction work performance period was from February 07, 2018 to April 7, 2019.

In order to reduce costs, GWA required the CM to adjust staffing without increasing the CM fee to cover the Chaot No. 2, Hyundai booster pump station, and waterline work. The adjustment covered the CM work for an additional 6-month period and allowed GWA to enter into negotiations with the CM last year to continue services to completion. The CM's original proposal included a fee for the work at Chaot No.2, which was not authorized at the time of CM contract issuance. GWA asked the CM to revisit this proposed amount, and include the additional work to match the construction contractor's scope. While negotiations were ongoing, the CM worked under the adjusted staffing levels and has nearly exhausted the original contract amount. The negotiations went through several iterations, over $200,000 in reductions and was agreed upon at $1,260,592.95 as detailed in Exhibit B.

A change order is required to continue the construction management construction phase services through to completion of the expanded construction scope.

<u>Tumon No. 2 Reservoir</u>
The existing steel reservoir will be replaced with a new concrete reservoir (1.0 MG). The work will also include upgrading three PRVs on Pale San Vitores Road and Marine Corps. Drive.

Tumon No. 2 is located off Marine Corps. Drive next to the Nissan dealership.

<u>Hyundai Reservoir</u>
The existing steel reservoir will be replaced with a new concrete reservoir (1.0 MG). The work will also include a new booster pump station at the reservoir site and water line upgrades in the surrounding service area.

Hyundai is located at the top of Barrigada Heights off of North Sabana Drive.

<u>Chaot Reservoir</u>

A new reservoir (0.5 MG) will be constructed adjacent to the Chaot No. 1 reservoir (0.5 MG). This will bring the capacity of the site back to 1.0 MG. The A-series wells that feed the Chaot and Agana Heights system will be disconnected from the distribution line; making the wells feed directly to the Sinjana-Agana Heights transmission lines. The chlorination systems at the central chlorination building will be modified. The Dero Road PRV will be rehabilitated.

Chaot No. 2 is located at the end of Dero Road. The A-series wells are located along Route 8.

Relative to cost, TGE's current contract is $1,954,089.00; TGE's change order no. 1 fee proposal is $1,260,592.95 and there is $195,408.90 contingency available in the current authorization. GWA is requesting $1,065,184.05 to supplement the available contingency to bring the available funding to $3,214,681.95. The funding source is from the Water System Reservoirs 2005 Improvements. The project completion is estimated for February 21, 2021.

Comm. Guthertz motioned to approve Resolution 39-FY2021 second by Comm. Limtiaco

In discussion Comm. Limtiaco asked if there was an additional 10% contingency on the cost and GM Bordallo said yes.

On the motion there was no further discussion or objection and the notion passed 4 ayes, 1 absent.

4.5 Resolution 40-FY2020 Relative to Approving an Increase in Funding for the Pressure Zone Realignment Construction Phase I Project

The project is part of the Guam Waterworks Authority's Master Plan as developed by Brown and Caldwell. The project's objective is to install (i.e. repair, rehabilitate, replace, relocate, or develop) pressure regulating or sustaining valves and their appurtenances in strategic locations to improve areas with inadequate service pressures and to develop defined pressure zones throughout the island.

Site construction has not started due to construction permitting and COVID-19 pandemic delays. The COVID-19 pandemic forced certain permitting agencies to halt permit review from March to June 2020. The building permit review process is still ongoing and approval is expected within the coming weeks.

While the permit has been pending, the urgency of improving the service pressure within zones affected by the additive bid PRV locations has become more pressing, thus urging us to award the additive bid work.

There are seven sites in this project's base bid: Carnation PRVs, Marbo PRVs, Okkodo PRV, Ysengsong PRV, Clara PRV, Kaiser Bypass PRV and Kaiser PRV (both near GWA Kaiser Reservoir), and electrical work at Yigo and Astumbo Reservoirs. All sites are located within the villages of Yigo, Dededo, and Mangilao. There are **two additive bid** sites that we are requesting funding to award: Terao PRV in Mangilao and Maimai PRV in Chalan Pago/ Ordot.

SMCC's cost estimate for the two sites is $962,000 and includes the following:Contractor furnishing all labor, tools, equipment and material necessary to complete the construction of Terao PRV(s) and Maimai PRV(s) to include but not be limited to: traffic control, demolition of current vaults and piping, construction and installation of meter vault(s) and meter device(s) with all necessary piping and appurtenances, construction and installation of PRV vault(s) and PRV(s) with all necessary appurtenances,

installation of electrical systems and SCADA instrumentation, and site and pavement restoration under the provision of the bid documents and in accordance with applicable GWA standards.
There is $412,000 of contingency available in the current authorization. GWA is requesting $550,000 to supplement the available contingency plus an additional contingency of $467,000.00 to replenish available contingency, bringing the total authorized funding to $5,549,000.00. Funding sources will be the Water Audit Program, the Master Metering Program and the USEPA Grant. The project completion is estimated at 365 days from the notice to proceed.

Comm. Limtiaco motioned to approve Resolution 40-FY2020 second by Comm. Santos. There was no further discussion or objection and the motion passed 4 ayes 1 absent.

4.6 Resolution 41-FY2020 Approval of Contract for Construction of Northern Guam Lens Aquifer (NGLA) Monitoring System Rehabilitation Project for the Guam Water and Wastewater Infrastructure Improvement Projects, Project No. W20-002-OEA

The ten (10) monitoring wells to be rehabilitated are located in various locations in Northern Guam, including the villages of Dededo, Barrigada, Chalan Pago, and Mangilao and used to monitor water level and other groundwater characteristics of the NGLA. This project is necessary to ensure GWA, in partnership with WERI and USGS, can continue to monitor the NGLA under its Comprehensive Water Monitoring Program, and the effects of increased water supply demand resulting from the relocation of U.S. Marines and their dependents to Guam to ensure a sustainable NGLA. The intent of this project is to perform rehabilitation activities on each monitoring well that will help prolong the life of each facility. The rehabilitation activities include the construction of new concrete structures, casing material upgrades, providing new wellhead enclosures and improvements. Additionally, since this project is funded by a U.S Department of Defense, Office of Economic Assistance (OEA) Grant, the project needs to be completed before the Grant deadline.

The cost of this construction contract is $965,204.04 with a 5% contingency of $48,260.20 for a total amount of $1,013,464.24 funded by OEA General Assistance Grants. Project completion is no later than August 31. 2021 Bids were received by ProPacific Builders Corporation and HDCC Guam.

GM Bordallo said that 52% of the total funding is grant funds.

Comm. Guthertz motioned to approve Resolution41-FY2020, second by Comm. Santos. There was no further discussion or objection and the motion passed. The vote was 4 ayes, 1 absent.

4.7 Resolution 42-FY2020 Approval of Contract for Construction of Northern Guam Lens Aquifer (NGLA) Monitoring System Expansion Project for the Guam Water and Wastewater Infrastructure Improvement Projects, Project No. W20-002-OEA

If approved Resolution 42-FY2020 will expand the ability to monitor and protect the NGLA through constructing seven (7) new monitoring wells in sub-basins of the aquifer for which there is very limited groundwater data available, and rehabilitate two (2) existing wells for the purposes of monitoring the water level and other groundwater characteristics of the NGLA. This project is necessary to build a more complete model of the NGLA and monitor the effects of increased water supply demand resulting from GWA's production and the relocation of U.S. Marines and their dependents to Guam to ensure a sustainable NGLA. General project activities include the construction of new concrete structures, well development, casing material upgrades, providing new wellhead enclosures and improvements.

Additionally, since this project is funded by a U.S Department of Defense, Office of Economic Assistance (OEA) Grant, the project needs to be completed before the Grant deadline.

The seven (7) new wells and two (2) existing wells for rehabilitation are located at various sites in Northern Guam on Department of Defense Property, including Anderson Air Force Base, Naval Computer and Telecommunications Site (NCTS), and Naval Communication Station Barrigada.

The cost of this construction contract is $3,489,092.84 with a 5% contingency of $174,454.64 for a total amount of $3,663,547.48 and will be funded from the OEA General Assistance Grants subject to an inter-grant transfer. The Construction Contract is anticipated to be complete no later than September 31, 2021. Out of 9 interested parties, only one bid was received for the project from HDCC Guam LLC.

Comm. Santos motioned to approve Resolution 42-FY2020 second by Comm. Guthertz.

There was discussion about WERI the GM said they are very interest in this well to get a better picture. Having this info and having WERI do the work is better to practice sustainable resource management. Comm. Duenas said WERI needs some funding and WERI works for us. Comm. Santos said UOG charges them an administrative fee so GWA should lead any discussion with WERI. The Chairman asked the GK to work on this, to put something together and to get back to the CCU. Comm. Santos added rather than ratepayers funding this cost, perhaps consider using SDC funds or the military.

On the motion there was no further discussion or objection and the motion passed r ayes, 1 absent.

5. GPA

5.1 GM Report

There was no GM Summary at this meeting.

5.2 Financials

The financials were not discussed at this meeting.

5.3 Resolution 2020-19 PMC Extension with TEMES for Dededo CT, Macheche CT & Yigo CT

The GPA Combustion Turbine Power Plants in Dededo, Macheche and Yigo provide 80 MW of additional capacity to support GPA's daily MW requirements, especially during major outages for the baseload units. Additionally, the Macheche and Yigo CT units are being dispatched daily to support system stability during the operation of GPA's 25-MW Solar Power Plant. The current PMC ensured that critical projects such as the rehabilitation of the Dededo CT #1 and #2, and turbine exchanges for Macheche CT and Yigo CT were completed, providing 80 MW of reliable additional capacity during critical periods beginning May 2016, through today. Partnering with the PMC allows for more efficient completion of critical projects, receiving technical advice on operations and maintenance, and sourcing of materials and resources. This request is to extend the PMC for three (3) years, starting March 1, 2021, with an option to extend for another two (2) years after February 28, 2024. Fixed Management Fees and O&M Budgets will be funded through revenue funds – O&M. CIP will also be funded through revenue funds, but will subject first to GPA review and approval.

Negotiations with TEMES as provided for in existing contract.

	Current	Year 6	Year 7	Year 8	Year 9	Year 10
Fixed Mgmt	$703,687	$774,056	$797,278	$821,196	$845,832	$871,207
Routine O&M	$549,756	$604,731	$622,873	$641,560	$660,806	$680,631
TOTAL COST	$1,253,443	$1,378,788	$1,420,151	$1,462,756	$1,506,638	$1,551,838
% Increase		10%	3%	3%	3%	3%

In discussion Comm. Limtiaco asked the outcome of the negotiations – were they higher. GM Benavente said yes by 39% with escalating cost of #% for the 5-year optioin.

Comm. Santos motioned to approve Resolution 2020-19, second by Comm. Guthertz. There were no further questions or objection and the notion passed.

6. OTHER DISCUSSION

6.1 CCU Rules Update

There was no discussion on this matter.

7. ANNOUNCEMENTS

7.1 Next CCU Meetings

The Chairman announced that the next meeting would be a GWA Work Session on October 20; a GPA Work Session on October 22 and the regular monthly CCU Meeting on October 27.

8. ADJOURNMENT

There being no other business to bring before the Commission.

Comm. Santos motioned to adjourn the meeting second by Comm. Guthertz. There was no objection or discussion and the meeting adjourned at 6:14 p.m.

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Attested

_____ _____

JOSEPH T. DUENAS, Chairman MICHAEL T. LIMTIACO Secretary

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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., September 3, 2020

MINUTES

1. CALL TO ORDER

The CCU Chairman Duenas called the September 3, 2020 CCU Regular Meeting to order at 5:32 p.m. He said all five [5[Commissioners were present for a quorum – Comm. Sanchez and he were physically present; Commissioners Guthertz, Santos and Limtiaco were attending electronically. Others in attendance include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis E. Santos	CCU Vice Chairman - virtual
Michael T. Limtiaco	CCU Secretary - virtual
Judith P. Guthertz	CCU Treasurer - virtual
Simon A. Sanchez	CCU Member

Executive Mgmt.:

John Benavente	GM / GPA
Miguel Bordallo	GM / GWA
Melinda Mafnas	AGMA / GPA
Tricee Limtiaco	AGMA / GPA
Chris Budasi	AGMA / GWA - virtual
John Kim	CFO / GPA
Taling Taitano	CFO / GWA
Graham Botha	Legal Counsel / GPA
Kelly Clark	Legal Counsel / GWA

Management & Staff:

Vien Wong	IT Support / GPA
Patti Diego	Communications / GPA - virtual
Yvonne Cruz	Budget Office / GWA - virtual
Ann Borja-Gallarde	Management Analyst IV / GWA Ex.Office
Lou Sablan	Board Secretary / CCU

Guest:

Tricia Granillo	AM Insurance -virtual

2. APPROVAL OF MINUTES

The Minutes of May 21, 2020 was presented for approval.

Comm. Sanchez motioned to approve the Minutes subject to verification and written correction second by Comm. Santos. There was no objection or discussion and the notion passed unanimously.

The Minutes of June 16, 2020 was presented for approval.

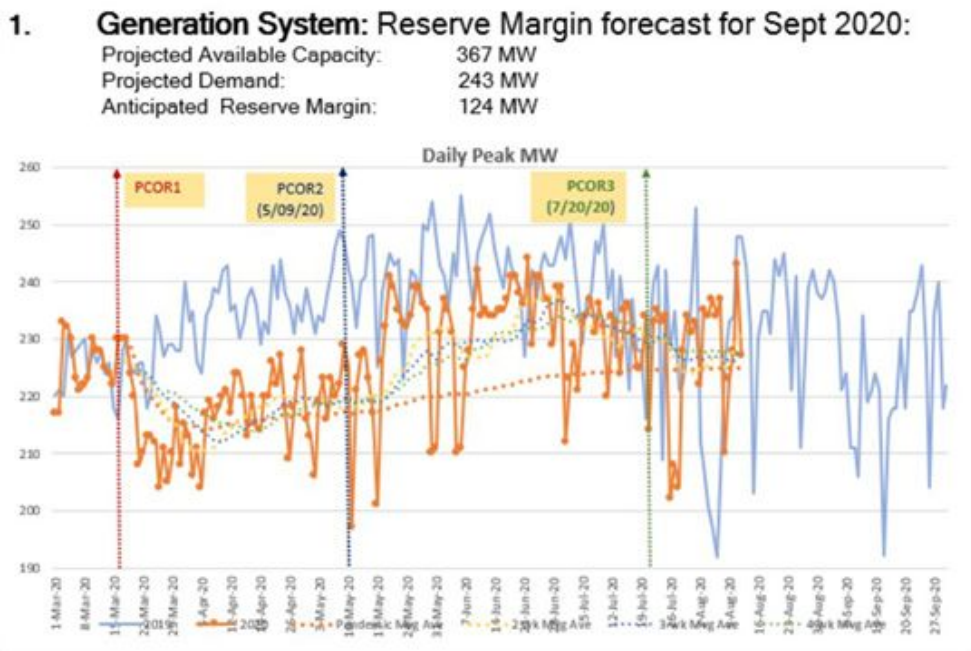
Comm. Sanchez motioned to approve the Minutes subject to verification and written correction second by Comm. Guthertz. There was no further discussion or objection and the motion passed unanimously.

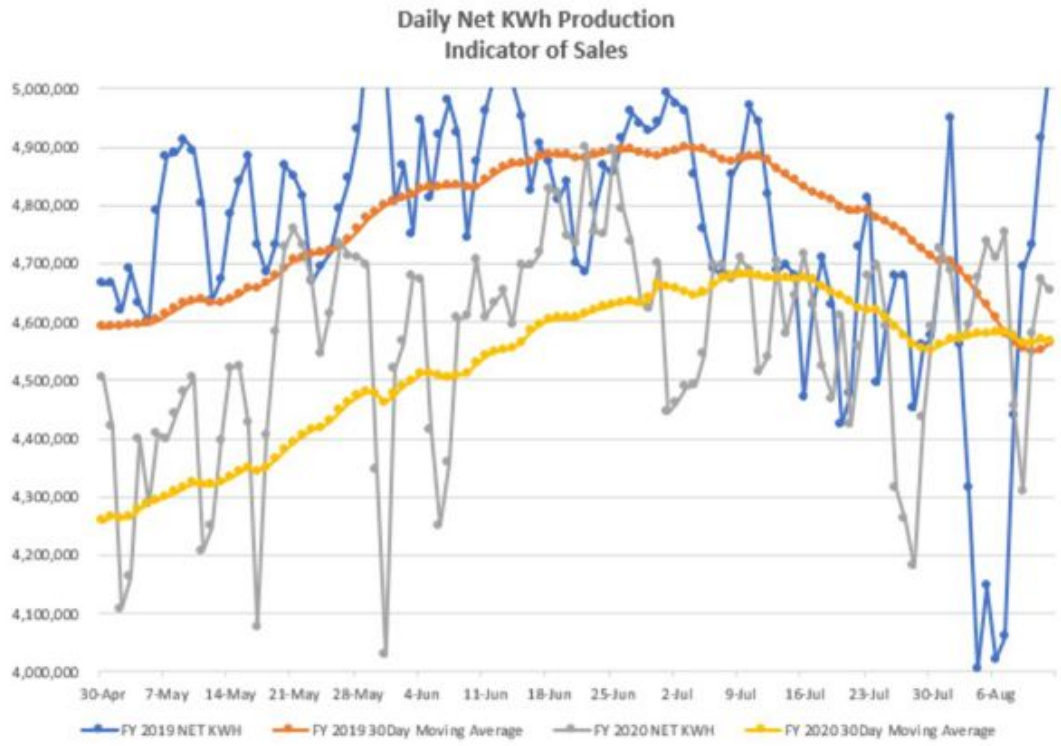
Due to technical difficulties with the audio, the Chairman called for a 5-minute recess to allow technicians to resolve the issue. It was 5:52 p.m.

The meeting was called back to order at 5:57 p.m.

3. GPA

3.1 <u>GM Report</u>

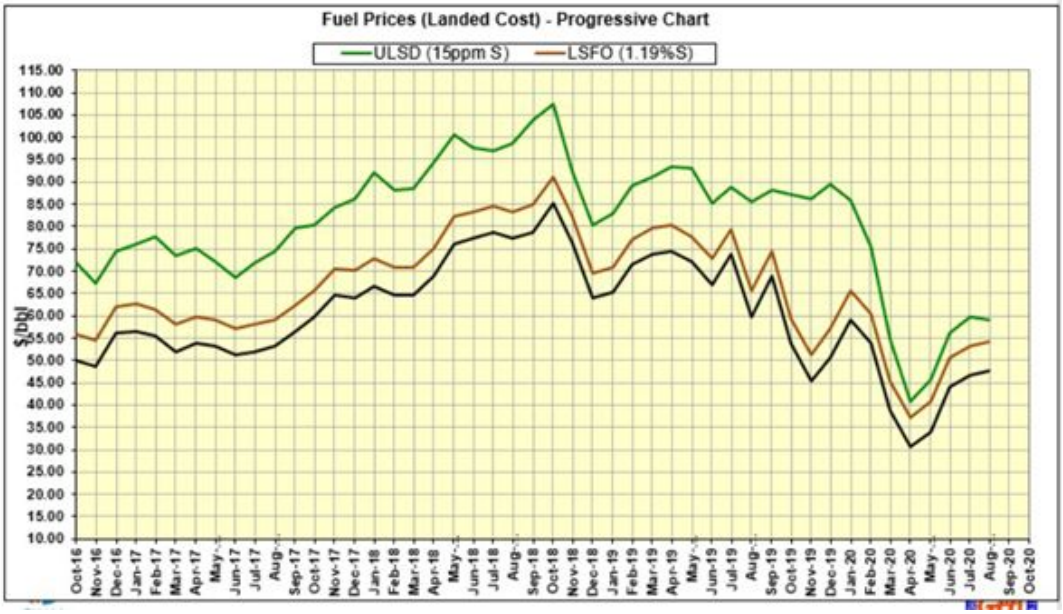




2. Net Metering (NEM) Growth Thru July 2020:



3. Fuel Prices (Per Barrel) Ending August 27, 2020



4. PUC Update:

- **No PUC meeting this month (August 2020) due to current Pandemic Condition of Readiness 1 (PCOR-1).**
- **PUC approved the following GPA dockets during its July 30, 2020 meeting:**
  - **GPA Docket 20-13**, LEAC, held rates to June 2020 LEAC of $0.086/kWh
  - **GPA Docket 20-15**, Performance Management Contract for Cabras 1 & 2 Plants
  - **GPA Docket 20-17**, Contract for Residual Fuel Oil No. 6 for the Baseload Plants
- **GPA dockets pending approval by the PUC:**
  - **GPA Docket 20-10,** Creation of Condominium Rate Schedule
  - **GPA Docket 20-16**, Petition to approve the Retirement of Piti 8 & 9 Units and to Procure 60MW of Renewable Energy.
  - **GPA Docket 20-18,** Petition to approve a one-month extension to the Contract for Residual Fuel Oil No. 6 for the baseload power generating plants.

5. Phase III Renewables Project Update:

- The Phase III Intent to Award to Engie for 40 MW of Solar PV with full supply shifting Energy Storage System has been under appeal with the OPA. Final briefs were filed on August 11, 2020. OPA decision is typically within 30 days.

6. Standby Generators:

- The following is an update on portable generators for support of GWA:

Typhoon Mangkhut FEMA Matching Grant - due September 30, 2020
Replacement units for ones damaged during the typhoon

300 kW	AG-2 (AGAFA GUMAS)
40 kW	ND-4 (MOGFOG, YPAOPAO ESTATES)
275 kW	DOC (MAIMAI, MANGILAO)
60 kW	SD-4 (UMATAC BRIDGE)
180 kW	UR MARKET (NCS, DEDEDO)
200 kW	Y-15 (YIGO, UPI SCHOOL)

GPA purchased portable Generator Update (Increased Inventory):

	Quantity	Status
25 kW	1	DELIVERED
60 kW	3	RE-BID – In Bid Evaluation Stage
150 kW	6	DUE 9/30
250 kW	3	DELIVERED
500 kW	3	DUE 9/30

7. Suit Against USEPA for Cabras Non-Attainment

- Environmental groups have filed a suit against the U.S. Environmental Protection Agency (EPA), alleging it has allowed two states and Guam to not turn in State Implementation Plans (SIPs) to clean up sulfur dioxide air pollution in their nonattainment areas. In the case of Guam, the federal lawsuit refers to the site of the problem as Piti-Cabras. The suit states the EPA "must ensure that states and U.S. territories have valid plans in place to clean up that pollution. But it has failed to do so in these areas, which are home to more than half a million people."

- Guam has a consent degree in place, announced last February, under which GPA agreed to pay $400,000 after the federal government filed a complaint alleging GPA violated federal air pollution laws. The settlement reached between GPA, Marianas Energy Company and the U.S. Department of Justice, on behalf of U.S. Environmental Protection Agency, was the result of settlement talks that began in 2013.

- GPA reported that the consent decree resolved its violations of the Clean Air Act. Under the settlement, the utility agreed to build a new, state-of-the-art dual-fire power plant, retire its older plants and build 100 megawatts of solar power capacity. GPA believes the settlement is a fair resolution of the alleged violations and will complete the work to satisfy the settlement terms, which will provide our ratepayers and the citizens of Guam with clean and green energy for years to come.

8. Outage Management System (OMS) Text Messaging Service



GPA POWER ALERTS

- OMS is a New text messaging service providing customers with real time information on outages directly affecting their homes or businesses, including the estimated time of restoration
- Texts only customers who have registered their mobile numbers with their customer accounts AND only those customers affected by an outage
- GPA Power Alerts toll free number **1-855-252-9998**
- All customers with valid mobile numbers associated with GPA accounts are automatically enrolled in the program
- Text:
  OUT - Reports power is out
  STATUS - Replies with known information about your service address and any power outages
  GPA HELP/HELP - Provides GPA's 24/7 Trouble Dispatch numbers
  QUIT/CANCEL/END/UNSUBSCRIBE/STOP - To stop receiving text messages
  GPA - To opt in and start receiving text messages again

9. Energy Storage System (ESS) Update:

- The contractor has resumed commissioning on Monday, August 10th and so far work is proceeding as scheduled. Again, the commissioning process would take two months and both the Talofofo 16MW ESS and the Hagatna 24MW ESS would be commissioned into full service by end of October 2020. Talofofo projected to operate by September 20, 2020 and Hagatna projected to operate by October 20, 2020.

10. Update GPA and GWA Customer Services During Mandated Shutdown

- A public service announcement was sent out on August 30th regarding Guam Power Authority (GPA)and Guam Waterworks Authority (GWA) Customer Service Options. The Guam Power Authority and Guam Waterworks Authority provide essential, continuous electrical power and water infrastructure service that are critical to our island. **GPA and GWA will ensure continuity of essential electric and water/wastewater services during the mandated shutdown for all our customers and will continue to remain open with some limitations.** GPA and GWA remain committed to protect the safety of all employees, ratepayers and the general public.

11. Generation KPI's:

- The following graphs show updated information through July 2020

3.2 Financials

Summary

The increase in net assets for the month ended was $1.3 million as compared to the anticipated net increase of $1.6 million projected at the beginning of the year. The total kWh sales for the month was 6.51% less than projected and non-fuel revenues were $1.0 million less than the estimated amounts. O & M expenses for the month were $6.2 million which was $0.4 million less than our projections for this year. Other expenses for the month such as interest expense, IPP costs, (net of interest income and other income) totaled to $3.2 million, which was $0.1 million over than projected amounts. There were no other significant departures from the budget during the period.

Analysis

Description	Previous Month	Current Month	Target
Quick Ratio	3.51	2.87	2
Days in Receivables	41	40	52
Days in Payables	13	27	30
LEAC (Over)/Under Recovery Balance -YTD	$2,981,020	$3,563,177	$3,592,541
T&D Losses	5.52%	5.63%	<7.00%
Debt Service Coverage	1.52	1.52	1.75
Long-term equity ratio	1.70%	1.96%	30 – 40%
Days in Cash	211	232	60

The Quick Ratio has been a challenge for GPA historically. However, the influx of cash from insurance proceeds continued to keep this ratio steady. GPA has current obligations of approximately $72 million and approximately $207 million in cash and current receivables. The LEAC under-recovery for the month was $1.2 million. Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

3.3 Resolution 2020-18 FY2021 Budget

GM Benavente asked the Commission to approve GPA's budget for FY2021.
Section 6.11 of the GPA Bond Indenture Agreement requires the Authority to provide a copy of an approved budget to the Bond Trustee prior to the beginning of each fiscal year. The General Manager has carefully reviewed and proposes the budget for Fiscal Year 2021 totaling $347,138,000 provision for bad debt of $1,045,000. The GM has reviewed and proposes a Revenue Funded Capital Improvement Project budget totaling $25,700,800. The Fiscal Year 2021 Budget is based on a Non-Fuel Revenue forecast of $155,000,000 and miscellaneous revenues of $2,160,000 and a Fuel Revenue forecast of $191,023,000 and less $1,045,000 provision for bad debt for total revenues of $347,138,000.

Total Operations and Maintenance budget includes Labor and Retiree's benefit costs of $50,254,251; Non-Labor cost of $31,227,935; less Capitalized O&M of $6,590,042 for total O&M Budget of $74,892,144; Bad Debt Expense of $1,045,000, Independent Power Producers costs plus Aggreko of $22,600,000; Debt Service of $47,763,000. Funds pledged for the Bond Reserves are not included in the overall budget amounts.

The General Manager of the Guam Power Authority has created and thoroughly reviewed the budget for Fiscal Year 2021 totaling $347,138,000. The CCU Commissioners noted that the budget provides funding of Revenue Funded Capital Improvement Projects totaling $25,700,800.

Some items mentioned – the total number of full time employees for FY21 is 490 the debt service comparison between FY20 and FY21 is 1.31 v. 133 respectively. The GM has transfer authority between accounts with exception of personnel.

Comm. Guthertz motioned to approve Resolution 2020-18, second by Comm. Sanchez.

In discussion Comm. Guthertz mentioned she was to ensure funding for PIO's initiatives. This is significant to ensure that enough resources are available to thoroughly address / actions all pandemic related communications and public outreach. GM Benavente assured the Commissioner that this is also a priority for him and agreed.

On the motion, there was no further discussion or objection and the motion passed unanimously – 5 ayes.

4. GWA

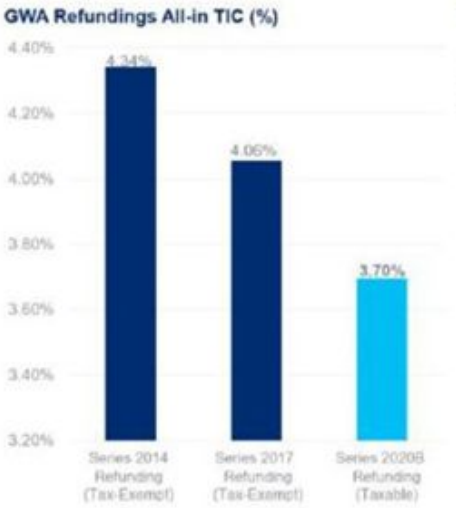
4.1 GM Report

Management Update

- Series 2020B Bonds – Taxable Refunding Final Information
  - Bond Par Amount: $166,075,000
  - Maturities Refunded 2029-2043
  - Net PV Savings: $11,927,792.44
  - % NPV Savings 8.36%
  - All-in New TIC: 3.696%
  - Annual Debt Service Savings: $1.5M-$1.9M to 2027
  - Sale Date: August 18/19, 2020
  - Closing Date: August 25/26, 2020

Comparison of GWA's Refunding Transactions

GWA's Series 2020B Bonds were able to achieve the highest PV savings and lowest TIC of any of GWA's three refunding transactions





GWA Workforce availability as of August 14

Healthy	354	93.4%
Sick, symptoms related to COVID-19	2	0.5%
Sick, not COVID-19 related	10	2.6%
COVID-19 Quarantined	1	0.3%
COVID-19 Medical Risk	1	0.3%
Military Leave	10	2.6%
LTD	1	0.3%
	379	**100%**

	Total	
Healthy/Reporting for duty at worksite	322	85.0%
Healthy/Reporting for duty - Part Teleworking and Part Reporting for duty at worksite	19	5.0%
Healthy/Reporting for duty - Teleworking	13	3.4%
Employee sick - symptoms related to COVID-19	2	0.5%
Employee sick - symptoms unrelated to COVID-19	10	2.6%
Employee's indirect exposure to individual that is: COVID-19 symptomatic, being tested for COVID-19 or confirmed COVID-19 (1+ person removed) - does not report for duty	1	0.3%
Employee or household member is at medical risk (i.e. COVID-19 vulnerable)	1	0.3%
Military Leave	10	2.6%
LTD/Workers Comp	1	0.3%
	379	**100%**

Operations Update

Production (July 2020)

Monthly Production Summary - JULY 2020				
Deep Wells			34.9	MGD
	Active wells =	91 of 120		
	Avg days in operation =	31 days		
	Total Production =	1,080,391 Kgals		
Springs			0.18	MGD
	Avg days in operation =	31 days		
	Total Production =	5,635 Kgals		
Ugum Surface Water Plant			2.3	MGD
	Avg days in operation =	31 days		
	Total Production =	70,510 Kgals		
Tumon Maui Well			0.96	MGD
	Avg days in operation =	31 days		
	Total Production =	29,611 Kgals		
		1,186,147 Kgals	38.3	MGD

DW Status as of 7/31/2020		
Active	91	
Grounded motor or Pump Failure	8	A12-A26-D03-F06-F13-Y01-Y12-Y21
Out of commission	8	A02-A07-A28-D05-D13-M14-M01-M05
Temporarily Secured	2	A23-A25
Standby	11	A10-A29-D01-D08-D19-D20-D24-F05-F10-F20-M12
TOTAL	120	



Distribution (July 2020)

Monthly Distribution Summary - JULY 2020					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	13	26	24	92.3%
	Central	7	15	15	100.0%
	Southern	7	15	15	100.0%
		27	56	54	96.4%



Wastewater Collections (July 2020)

Monthly Collections Summary - JULY 2020					
Wastewater Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	46	88.5%
	Central	29	63	56	88.9%
	Southern	26	56	54	96.4%
		77	171	156	91.2%

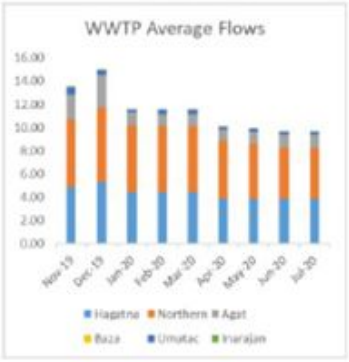




	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20
Target	5	5	5	5	5	5	5	5
Total Actual Miles	0.65	2.44	1.1	0.4	0	0	4.4	2

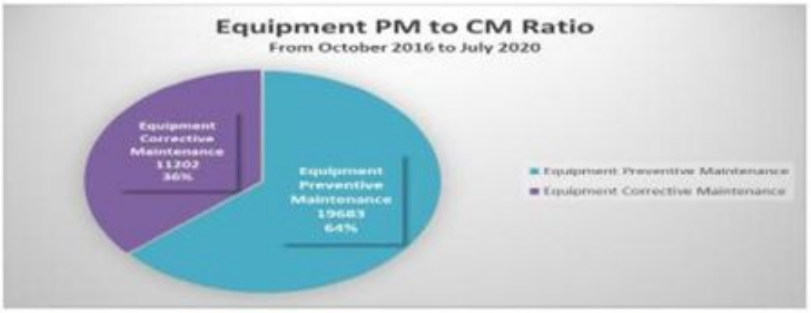
Wastewater Treatment (July 2020)

Monthly Wastewater Treatment Summary - July 2020				
WW Treatment Plants - Flows				
	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. ($)
	Hagatna	4.39	294,380	$ 26,494
	Northern	4.3	837,320	$ 75,359
	Agat	1.1	37,900	$ 3,411
	Baza	0		
	Umatac	0.19		
	Inarajan	0.07		
		10.05	1,169,600	$ 105,264



Asset Management (July 2020)

I. Equipment Preventive Maintenance to Corrective Maintenance ***Ratio***

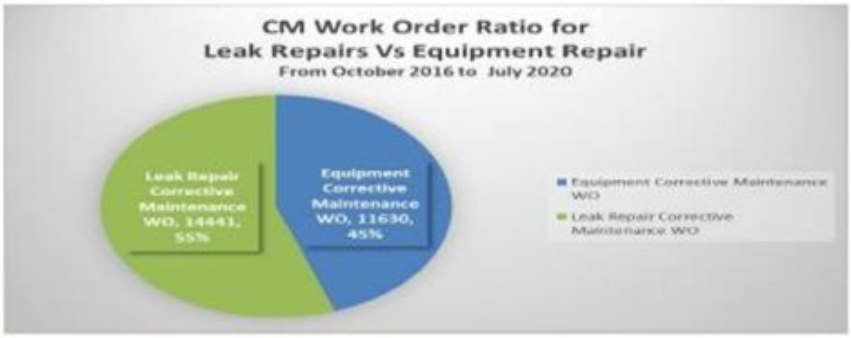


II. Equipment Preventive Maintenance to Corrective Maintenance ***Work Order Completion***



Asset Management (July 2020)

III. Corrective Maintenance Work Order ***Ratio*** for Leak Repairs vs. Equipment Repair



IV. Corrective Maintenance Work Order ***Completion*** for Leak Repairs vs. Equipment Repair



Meters from January 2017 through August 10, 2020

COMPLETED FIELD ACTIVITY JAN 2017 THRU AUG 10 2020	2017	2018	2019	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	TOTAL	COMPLETED FIELD ACTIVITIES (IN PROGRESS) TO BE POSTED IN CIS
GWA - Meter Exchange	6487	13353	10850	1079	714	548	117	44	59	148	20	33419	61

# OF METERS TESTED AS PER METER TEST FACILITY REPORTS:	6079	12259	9278	749	908	1116	341	662	635	694	32721	
AVG # OF FIELD STAFF PERFORMING CHANGE OUTS (MON THRU FRI):	10	10	7	7	7	7	7	1	1	1	1	
# OF ADMIN STAFF TO CREATE AND POST FIELD ACTIVITIES IN CIS:	10	6.3	5	5	5	2	1	1	1	1	1	
TOTAL:	29	22	12	12	12	9	8	2	2	2	2	

*project suspended effective 03/13/20 and resumed 07/01/20.

REMAINING ACTIVE BADGER LP MODELS TO BE REPLACED AS OF 08/10/20: 12

3/4" BADGER METERS IN STOCK AS OF Aug 06, 2020:

Stock #	Size	Meter Description	New Meters Passed	New Meters Untested	Passed Field Meters	MMP	Meters Available	Meters at MTF	Failed Meters	Total Count
60484	3/4"	METER, Badger AMR 5/8" X 3/4" RCDL Model M25 Disc Meter	96	0	278	0	373	0	28	401
74131	3/4"	METER, Badger AMR 5/8" x 3/4" ***WARRANTY*** RCDL Model M25	0	0	0	0	0	0	0	0
68293	3/4"	METER,Badger 5/8"x3/4" NSF61-G RCDL M25LL Disc Meter Integral	84	0	3	0	87	0	2	89
74131	3/4"	METER, Badger AMR 5/8" x 3/4" RCDL Model M25 ***RMA***	0	0	0	0	0	0	0	0
84769	3/4"	METER, Badger S-SERIES 5/8"X3/4" ULTRASONIC	960	0	1	0	961	0	5	966

Backbilling through July 2020

Guam Waterworks Authority
Collections Report[1] on Accounts Backbilled thru July 31, 2020
For fiscal years 2015 thru 2020 (Jul)

Accounts Billed			Collection Status											
			Amounts Collected[1]			Amounts Adjusted			Total Uncollected (Active)			Total Uncollected (Inactive)		
FY Billed	No. of Accounts	Amount	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%
FY2015														
FY2016	17	$ 882	17	$ 882	100%	0	$ -		0	$ -		0	$ -	
FY2017	537	$ 397,450	465	302,009	76%	18	38,487	10%	27	30,979	8%	27	25,974	7%
FY2018	1,374	$ 742,109	1,203	566,742	76%	60	69,706	9%	63	64,056	9%	48	41,605	6%
FY2019	8,325	$ 3,064,364	7,516	2,085,339	68%	182	159,195	5%	404	712,134	23%	221	107,717	4%
FY2020	2,482	$ 756,174	1,859	340,963	45%	30	15,366	2%	553	389,472	52%	41	10,472	0%
Total	12,735	$ 4,960,999	11,060	$ 3,295,835	66%	290	$ 282,754	6%	1,048	$ 1,196,641	24%	337	$ 185,769	4%

[1] Collections thru August 12, 2020

One Guam Update (July 2020)

- Tumon Maui Well
  - Additional Maintenance Required: GWA will be maintaining the gated portion of lot adjacent to the TMW treatment system as part of the existing license. GWA has installed a lock at the gate to ensure that access will be controlled.
- OEA Projects
  - Observation Wells/NGLA
    - Naval Base Guam's ECP assessment will be complete next week. The TCEs will be prepared for the locations of the Observation wells that will be on DOD property.
    - GWA's project is out for bid. The timeframe for TCE to be completed is needed to inform potential contractor.
    - The NTP is expected by the end of September.
- Strategy/Framework Discussion
  - GWA and DoD will be updating 2016 Framework for discussion, Strategy for an Integrated Water System for Guam.
  - GWA inquired about input from the technical experts' group to current discussions of the strategy.
  - The Aquifer Technical Experts Group will be contacted to discuss how to move forward with better monitoring, better planning better protection, etc.
  - A work session is scheduled for September to discuss options.
- Property Issues
  - Transfer of BPM-1: No change
  - Transfer of Navy Laterals at Murray Road to GWA: Pending the transfer memo, which is with the Navy's XO.
  - AG-1 Access for GWA/GPA:
    - GWA will go to the site before finalizing an option for review for the gate construction for access.
  - Marine Corps Base – Forest Enhancement Irrigation (FEI)
    - No update
    - The DOD want to make sure the water requirement is correct.
  - Umatac / Cetti Bay Easement
    - GWA General Counsel is still waiting on the attorneys from Land Management / CLTC.

Court Order Summary (July 2020)

	Total Items	On-time Items Completed / Continuous	In Progress - late	Completed - Late	In Progress - on time	Performance %
Court order total	93	78	1	14	0	98.90%



	Court Order Items	%	Performance (on-time or completed)
Completed/Continuous - on time	78	84%	
Completed - late	14	15%	
In Progress - on time	0	0%	
In Progress - late	1	1%	98.9%
Totals	93	100%	

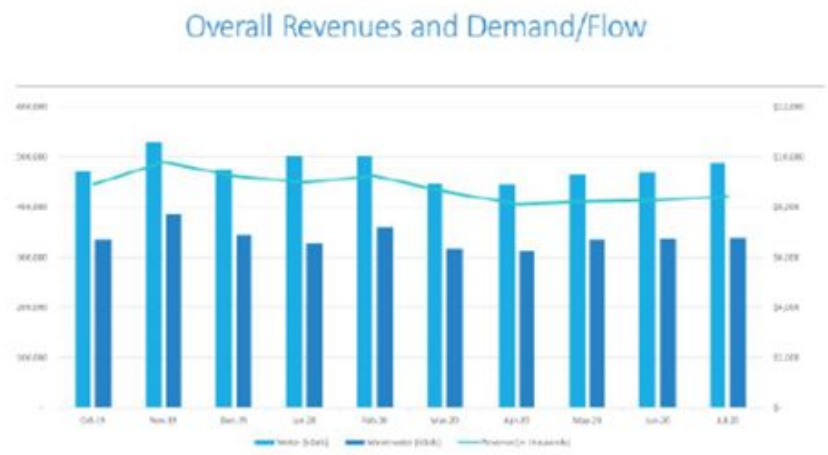
Court Order – Status Information (July 2020)

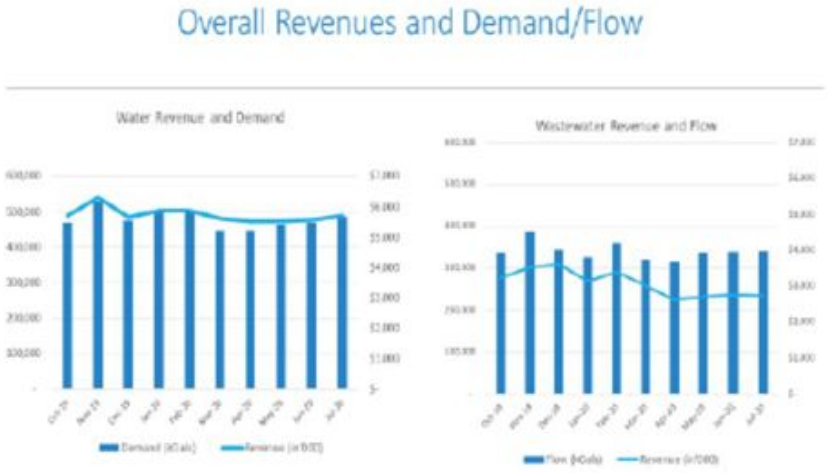
- 1 item delayed - The Court Order is down to one item remaining, § II, (C), (29) – Storage tank Repair. Restoration, Replacement or Relocation – which is the item that will take longer than the "end" of the court order. That makes us 98.9% done with the CO.
- Final Date to complete all Court Order items will be delayed past December 31, 2020.
  - CO 29(b) has been expanded by 31% beyond the original Court Order Requirements
  - General Counsel is drafting filing for submission to District Court
  - Additional impact resulted from delay of 2020 Bond issuance and there is also delay due to COVID-19 impacts
- Overflow or Bypass events reported to USEPA:
  - 06-25-2020, S. Marine Corp Drive, Asan – Sewer Line Bypass Hose broke
  - 07-02-2020, 4th Street, Tiyan, Cleanout - spill-contractor-broken cleanout cover
  - SSO#199 Royal Orchid, Tumon - Sewer Overflow – FOG
  - SSO#200 Pale San Vitores Rd., Tumon - Sewer overflow – FOG

Land Acquisition Summary (July 2020)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo	Gov't. - CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. Follow up update status request emailed to DLM 05/14/2020.
	Piti	Private	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 form.
	Airport	Private	Property owners need more time for discussion with family regarding GWA's Offer Letter 07/04/2020. Emailed follow up request to property owner on status 08/11/2020.
Deep Wells	AG-12	Dept. of Agriculture/Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2nd follow up sent on 09/12/18. 3rd follow up sent on 04/10/19. Retracement Survey Property Map filed and recorded at DLM 7/10/19.
Booster Pump Station	Agfayan	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19.
Asan Springs	Asan	Federal	In order for NPS to issue a land ROW agreement with GWA, NPS has to complete NEPA first. GWA has HDR under contract to perform this work and an Environmental Assessment will be developed. The permit for the biological survey was submitted on 6/12/2020 and is currently still in the hands of NPS. NPS is waiting to confirm with USFWS on the threatened and endangered species that are of concern at the project location. They are just waiting on USFWS confirmation.

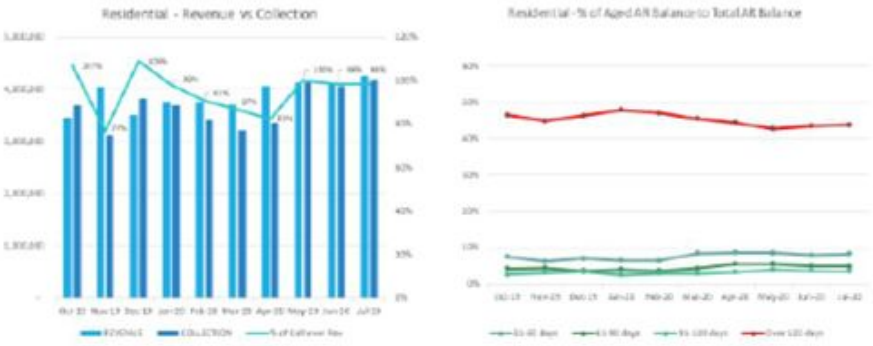
4.2 Financials







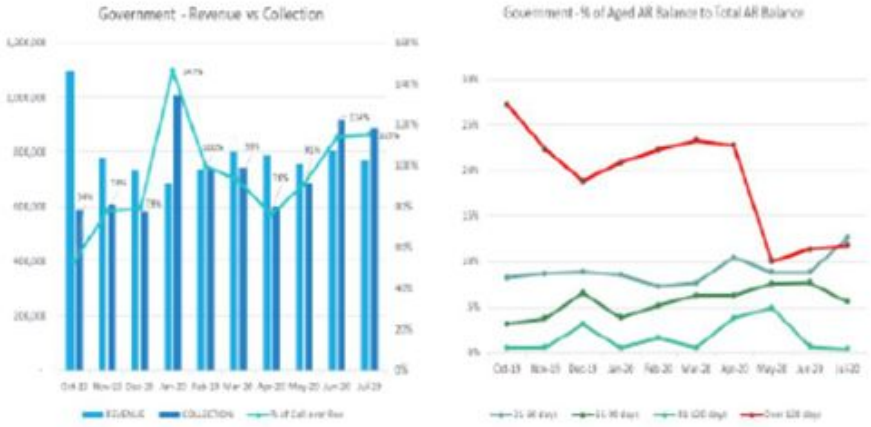
Residential Revenues and Collections



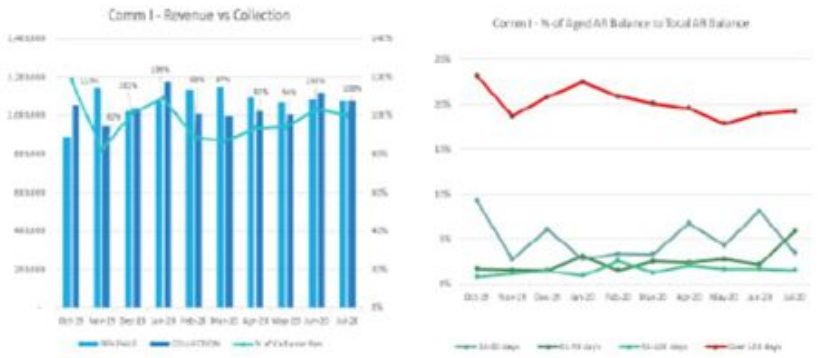
Hotel Revenues and Collections



Government Revenues and Collections



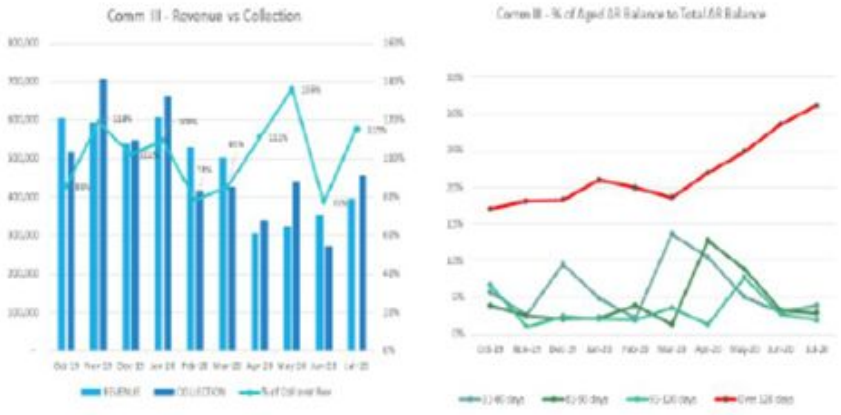
Commercial I Revenues and Collections



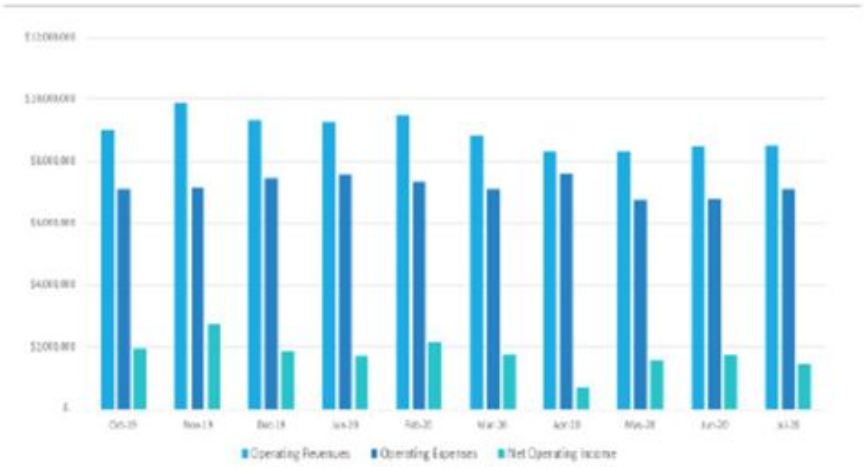
Commercial II Revenues and Collections



Commercial III Revenues and Collections



Income Statement FY2020



GWA Key Financial Indicators

Indicator	Target	June 2020	July 2020
DSC YTD			
• Per Section 6.12 of Indenture	1.25	1.27	1.30
• Per PUC / CCU	1.40	1.27	1.30
YTD Month to Month Change in Net Assets		22%	23%
Days – Cash on Hand	120 days	292 days	296 days
Collection Ratio			
• Month to Date	98%	103%	101%
• Year to Date	98%	98%	98%
Days Billed	30	31	31
Account Receivable Days	45	48	48
Account Payable Days	45	35	37
Employee Count	400 FTE	384 FTE	382 FTE
Water Demand			
• Month to Date	467,615	469,531	487,510
• Year to Date	3,740,923	4,306,513	4,794,023
Wastewater Flow			
• Month to Date	382,224	337,574	338,787
• Year to Date	2,775,095	3,055,924	3,394,712
Water Customers	42,724	42,838	42,904
Wastewater Customers	29,604	29,518	29,684

4.3 <u>Resolution No. 35-FY2020 Relative to Approval of Construction Contract Change Order No. 3 for the Route 4 Relief Sewerline Rehabilitation and Replacement Project S15-006-EPA</u>

If approved, Resolution 35-FY2020 will improve the sewer collection system, which included repairing and/or replacing sewer manholes and over 4,200 linear feet of gravity sewer line along Route 4 and Route 1 in the village of Agana. These sewer infrastructure elements have been identified by GWA, through an SSES investigation, to be subjected to either inactivity due to incomplete construction work or excessive infiltration and inflow (I&I). Successful completion of this project will result in proper maintenance and operation of the sewer collection system and USEPA agree that efforts to rehabilitate, repair or replace the sewer line are necessary.

Change Order No. 3 is necessary to compensate the contractor for additional work to install the sewer main where numerous unknown utilities and related concrete encasements were encountered while installing the new sewer main at the Rt.4/O'Brien intersection. These encountered utilities complicated work, slowed production, and required hand excavation due to space limitations. The contractor has asked for additional compensation that the construction manager reviewed and negotiated to a fair and reasonable amount based on field logs during actual work. Note that the funding for continued construction management services through September 2020 was approved under CCU Resolution 34-FY2020.

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

The total cost of Change Order No. 3 comes out to the amount of Fifty-Eight Thousand Three Hundred Seventy-Eight Dollars ($58,378.00). Change Order No. 2 consumed the balance of the contingency funds. Hence, GWA Management seeks CCU approval of PPBC's proposal for additional compensation for unknown underground utilities in the additional funding amount of Fifty-Eight Thousand Three Hundred Seventy-Eight Dollars ($58,378.00), to bring the total authorized funding amount to Three Million Eight Hundred Fifty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents ($3,854,867.54). The funding for this project will be from USEPA Title 2 Construction Grants Program and, if necessary, GWA Bond Funds with a maximum project budget of Three Million Eight Hundred Fifty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents ($3,854,867.54).

The additional construction work associated with the Change Order No. 3 has already been completed. The remainder of the project will be completed by September 2020.

Comm Limtiaco motioned to approve Resolution 35-FY2020, second by Comm. Guthertz. There was no further discussion or objection and the motion passed unanimously – 5 ayes.

4.4 Resolution No. 37-FY2020 Relative to Approving a Collective Bargaining Agreement with Guam Waterworks Authority and Guam Federation of Teachers Union

GWA recognizes the GFTU as the exclusive representative of GWA employees because the GFTU membership exceeds ten percent (10%) of the total number of GWA employees.

In June of 2019, the GWA entered negotiations with the GFTU to update the CBA between GWA and the GFTU that expired in May 2019; therefore, necessitating that the agreement be updated.

The objective of approving a new CBA with GFTU is to comply with the Public Employee-Management Relations Act (PEMRA) to negotiate a written agreement with the GFTU reflecting bilateral determination of specific terms and conditions of employment, subject to paramount law and regulations.

The GWA and GFTU, through their respective representatives, have negotiated a successor agreement describing the terms and conditions for employment for members of the GFTU.

The agreement includes modifications to the predecessor agreement generally described as follows:

1. Increased contract period to five (5) years.
2. Authorized stewards may participate in the preparation and revision of GWA Policies and Procedures at a subcommittee level.
3. Added mediation and arbitration as options under the grievance procedure.
4. Updated the performance evaluation section to reflect the pay for performance evaluation policy.
5. Added rules for compensations adjustments following a promotion or demotion.
6. Included the updated GWA Drug and Alcohol-Free Workplace Policy.
7. Added ergonomic assessments of work environment.

The GFTU presented the CBA for ratification by its members who are employees of GWA, and it was lawfully ratified unanimously. GWA management is requesting that the CCU approve entering into this agreement because it serves to promote employee relations with the members of the GFTU and preserves a constructive labor environment which is a benefit to all GWA ratepayers.

The GWA-GFTU CBA applies to all GWA work sites where employees are assigned. There are no additional costs incurred by GWA due to the CBA. Any associated costs with the CBA are already accounted for under existing Operations and Maintenance budgets. Effective date is upon the approval of the Consolidated Commission on Utilities and signature by the General Manager. Operations and Maintenance funds will be used for any related expenses

AGM Budasi provided update at last week's work session and noted changes between the previous and current agreements.

Comm. Santos motioned to approve Resolution 37-FY2020 for discussion, second by Comm. Sanchez

There was discussion on the cost and the possibility of sharing the cost with GFT. Counsel Clark said that this is voluntary remediation so GWA will not go forward unless there is confidence for positive outcome. If the matter cannot be resolved with GFT then it will move forward to the Civil Service Commission. Comm. Duenas said management has to agree to mediation and if they choose this route, GWA pays the cost because GWA invoked it.

Comm. Limtiaco asked Counsel if he thinks he negotiated the best agreement. Counsel Clark said yes.

After discussion ended the motion was put to vote – there were 4 ayes and 1 nay – the motion passed. For the record Comm. Santos voted nay.

4.5 Resolution No. 38-FY2020 Relative to Approving the Guam Waterworks Authority Fiscal Year 2021 Budget

The purpose is to approve amendments to GWA's Fiscal Year 2021 Budget

The Fiscal Year 2021 Budget totals $89 million. Operating costs are earmarked at approximately $25 million in salaries and benefits; $13 million in power purchases; $9 million in water purchases; $11 million in administrative and general expenses; $6 million in contractual expenses; $22 million in depreciation and $3 million in retiree supplemental annuities and health care.

The FY2021 Budget represents anticipated revenues and expenditures for the fiscal period of October 1, 2020 through September 30, 2021.

The FY21 budget reductions recommended for approval project operating revenue of $113 million derived from $70 million in water revenues; $39 million in wastewater revenue; $3 million in Legislative surcharges; $430 thousand in other revenue; and $920 thousand in system development charges.

Comm. Sanchez motioned to approve Resolution 38-FY2020 for discussion, second by Comm. Santos.

It was mentioned that at GWA's work session this matter was discussed in length and management did a good job with guesstimates; it was also mentioned that the projection includes PUC rates.

Comm. Duenas mentioned that GWA's rates will incur a 5% increase soon and asked if the Budget reflects this. Managements response was yes. He added that GWA's budget is realistic to GWA's needs however he strongly encourages management and employees to minimize cost to ratepayers where possible. It will take a very long time to recover economically and it is important to prove to the people of Guam that we are prudent. Be guided with a strong commitment to our people, our ratepayers.

Comm. Limtiaco asked if it is an accurate assumption that GWA can recover 80% of their normal consumption. GM Bordallo said it is the best that management knows right now. The projection is that we will continue on the current demand patter on this rate class.

Comm. Sanchez commented given the challenge of projecting did the CFO and GM look at what if scenarios. Management responded yes - that many various were discussed and the guesstimated in this budget reflects the best anticipated outcomes adding that this is the whole point of the cost constraints and stream line efforts. A month to month analysis will follow with adjustments accordingly.

Comm. Duenas asked how much do hotels represent in the overall revenue; CFO Taitano said about 20% overall adding the trend is that what is lost in hotels is made up in residentials.

On the motion there was no further discussion or objection and the motion passed unanimously – 5 ayes.

5 OTHER DISCUSSION

5.1 <u>CCU Rules Update</u>

This matter was not discussed.

6 ANNOUNCEMENTS

6.1 Next CCU Meetings

The Chairman announced that the next meeting would be the GWA work session on Sept. 15; the GPA work session on Sept. 17 and the regular monthly CCU meeting on Sept. 22

7. ADJOURNMENT

There being no other business to bring before the Commission, the meeting adjourned at 6:49 p.m.

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Bls

Attested

_____ _____

JOSEPH T. DUENAS, Chairman MICHAEL T. LIMTIACO Secretary

GUAM WATERWORKS AUTHORITY

Management Report
GPWA CCU Board Meeting, November 24, 2020



Update to Workforce Availability

GWA Workforce availability as of November 13, 2020

Healthy	353	94.4%
Sick, not COVID-19 related	3	0.8%
COVID-19 Quarantined	5	1.3%
Employee with COVID-19, active case	5	1.3%
COVID-19 Medical Risk	1	0.3%
Military Leave	5	1.3%
LTD	2	0.5%
	374	100%

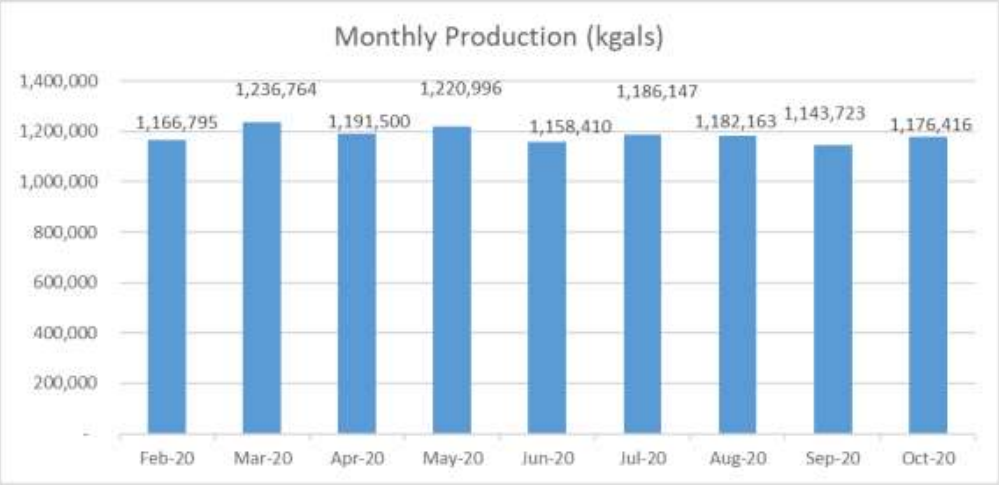
	Total	
Healthy/Reporting for duty at worksite	270	72.2%
Healthy/Reporting for duty - Part Teleworking and Part Reporting for duty at worksite	48	12.8%
Healthy/Reporting for duty - Teleworking	34	9.1%
Employee sick - symptoms unrelated to COVID-19	3	0.8%
Military Leave	5	1.3%
LTD/Workers Comp	2	0.5%
Employee wants to electively self-quarantine; status not considered vulnerable - does not report for duty	1	0.3%
Employee (to be) tested for COVID-19 with results pending	1	0.3%
Employee's direct exposure to a household member - COVID-19 confirmed case	2	0.5%
Employee with COVID-19, active case	5	1.3%
Employee or household member: Travel within last 14 days	1	0.3%
Employee or household member is at medical risk (i.e. COVID-19 vulnerable)	1	0.3%
Employee's indirect exposure to individual that is: COVID-19 symptomatic, being tested for COVID-19 or confirmed COVID-19 (1+ person removed) - does not report for duty	1	0.3%
	374	100%

Operations Update

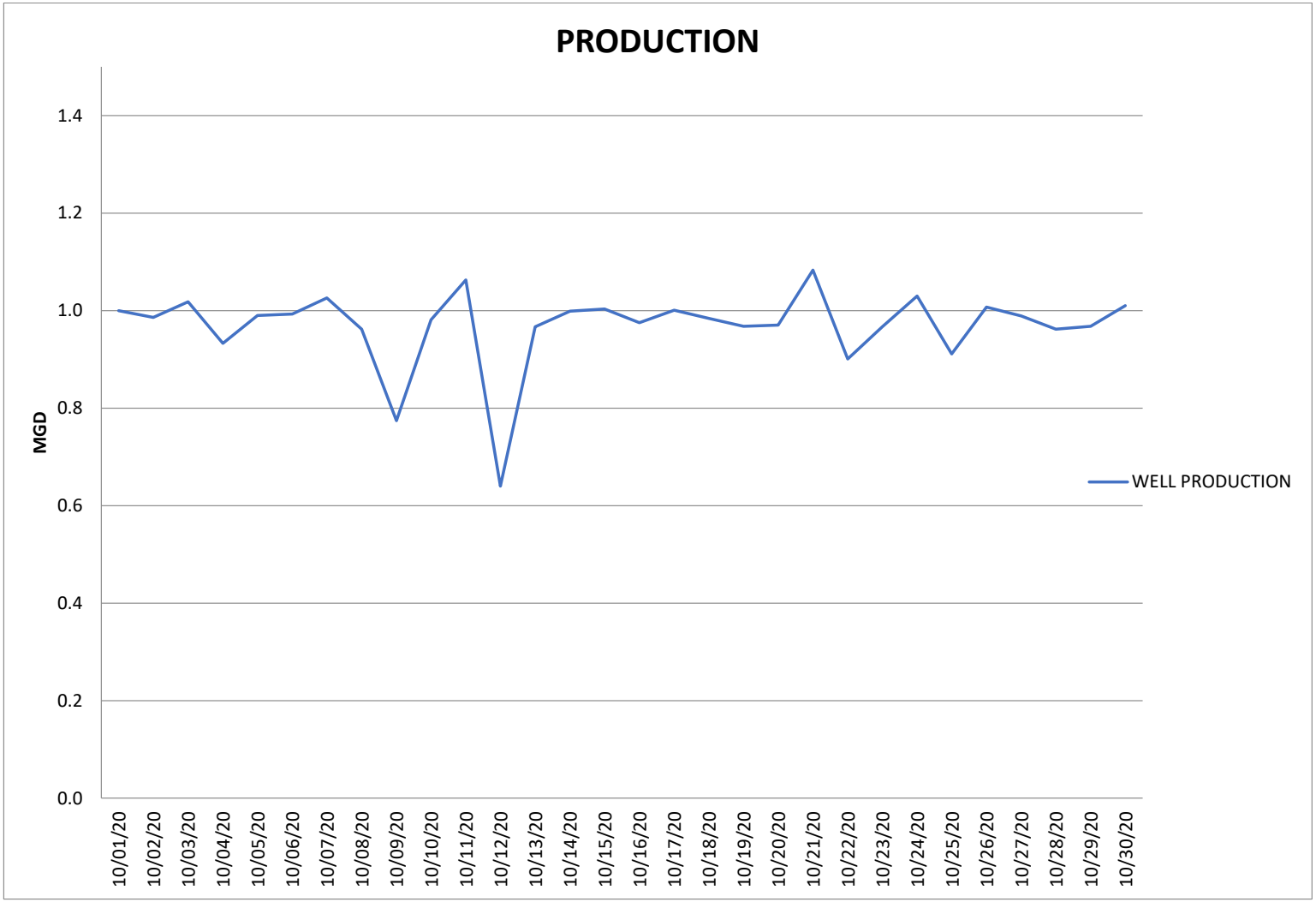
Production (October 2020)

Monthly Production Summary - October 2020					
Deep Wells				34.8	MGD
	Active wells =	92	of 120		
	Avg days in operation =	31	days		
	Total Production =	1,079,187	Kgals		
Springs				0.23	MGD
	Avg days in operation =	31	days		
	Total Production =	7181	Kgals		
Ugum Surface Water Plant				1.9	MGD
	Avg days in operation =	31	days		
	Total Production =	60,035	Kgals		
Tumon Maui Well				0.97	MGD
	Avg days in operation =	31	days		
	Total Production =	30,013	Kgals		
		1,176,416	Kgals	37.9	MGD

DW Status as of 10/31/2020		
Active	92	
Grounded motor or Pump Failure	6	A26-D03-D10-F06-F13-Y16
Out of commission	8	A02-A07-A28-D05-D13-M14-MJ01-MJ05
Temporarily Secured	2	A23-A25
Standby	12	A10-A12-A29-D02-D24-F03-F05-F10-F17-F20-M09-M12
TOTAL	120	

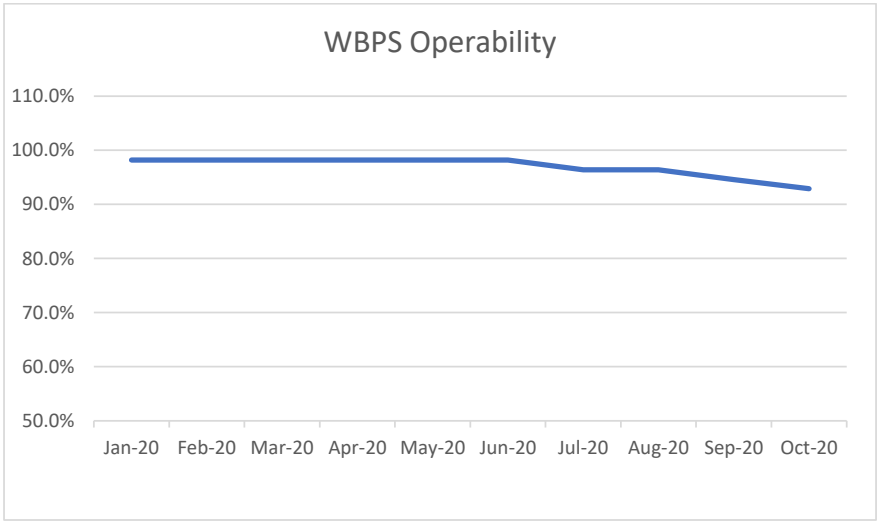


Tumon Maui Well Production (October 2020)

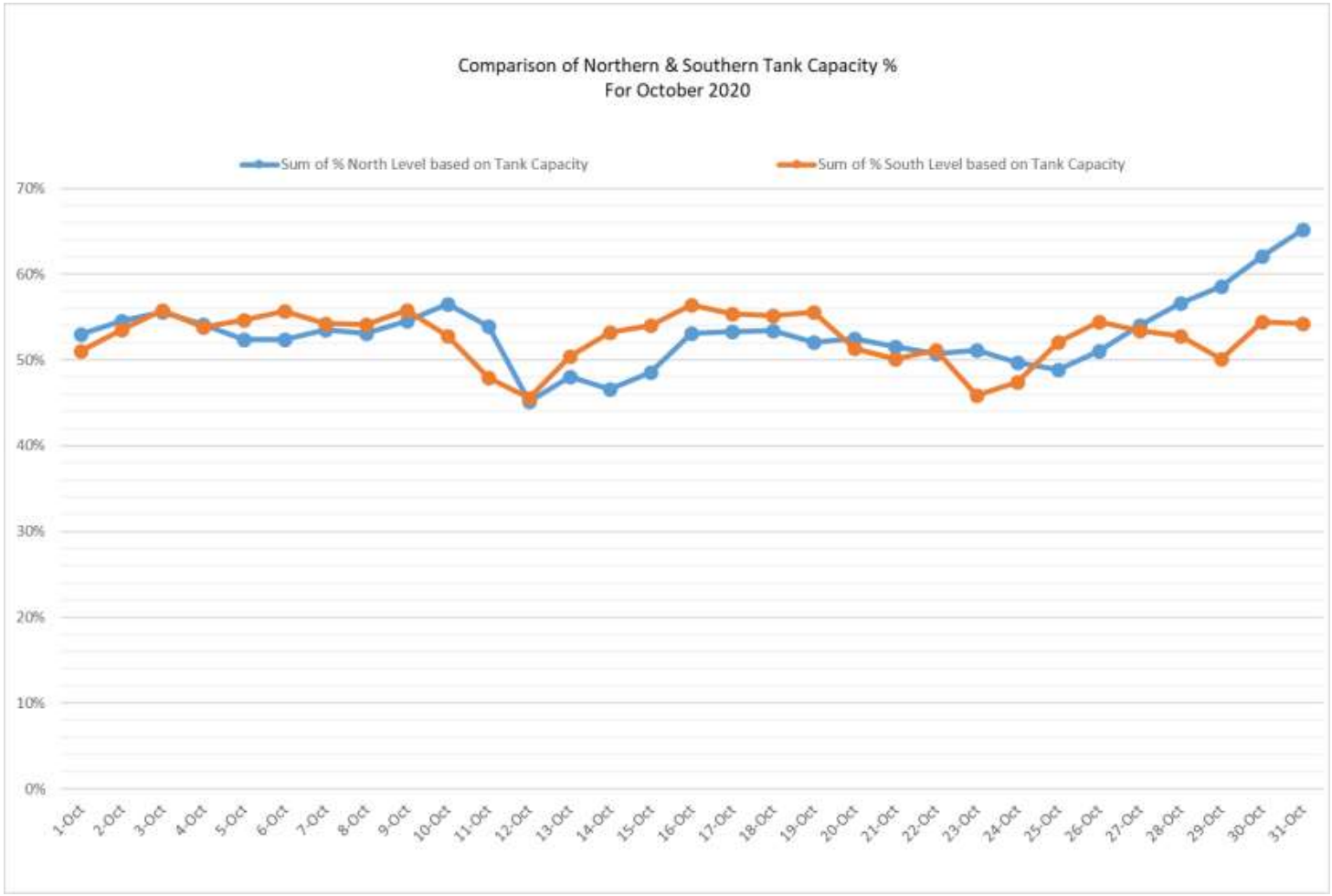


Distribution (October 2020)

Monthly Distribution Summary - October 2020					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	13	26	24	92.3%
	Central	7	15	13	86.7%
	Southern	7	15	15	100.0%
		27	56	52	92.9%

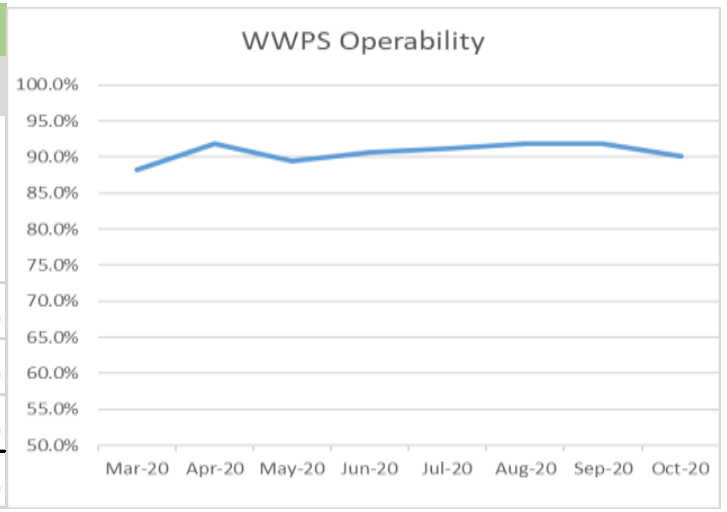


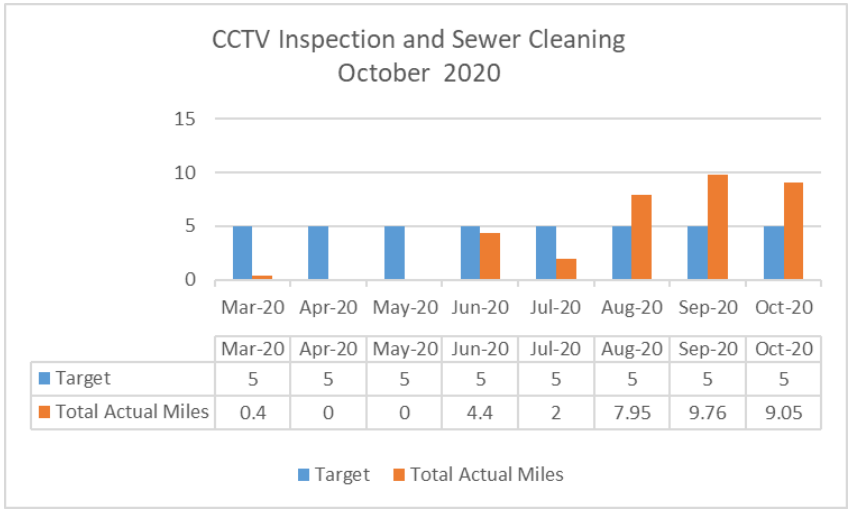
Distribution – Tank Levels (October 2020)



Wastewater Collections (October 2020)

Monthly Collections Summary - October 2020					
Wastewater Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	47	90.4%
	Central	29	63	55	87.3%
	Southern	26	56	52	92.9%
		77	171	154	90.1%





	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20
Target	5	5	5	5	5	5	5	5
Total Actual Miles	0.4	0	0	4.4	2	7.95	9.76	9.05

Wastewater Collections –Cleaning/Jetting (October 2020)

Route 1 from Kmart Intersection to Hamburger Road



Tumon from Westin Intersection to Kmart Intersection



Wastewater Collections –Cleaning/Jetting (October 2020)

Route 1 from Rte. 16 Intersection to Hamburger Road

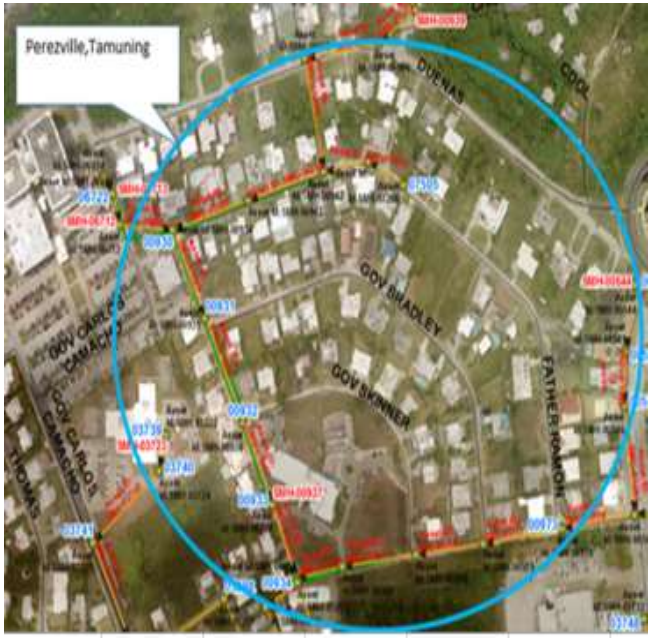


Gov. Carlos Camacho Road from GMH to Route 1



Wastewater Collections –Cleaning/Jetting (October 2020)

Perezville, Tamuning

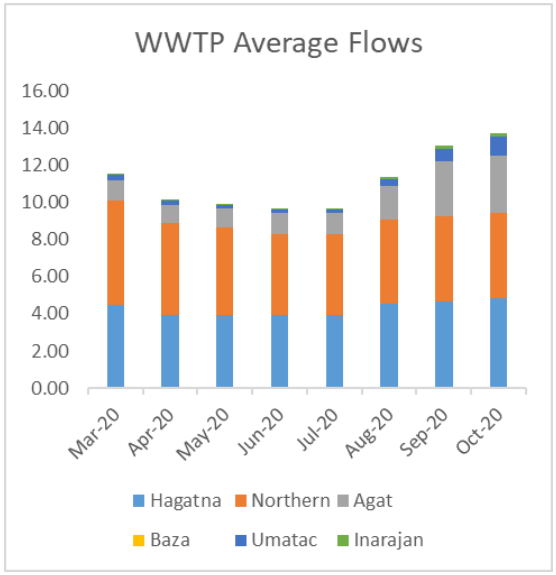


Barrigada Heights



Wastewater Treatment (October 2020)

Monthly Wastewater Treatment Summary - October 2020				
WW Treatment Plants - Flows				
	Facility	**Avg. Daily Flows**	**Sludge (lbs)**	**Sludge Disp. ($)**
	Hagatna	4.83	347,420	$ 31,268
	Northern	4.62	983,220	$ 88,490
	Agat	3.04	114,160	$ 10,274
	Baza	0		
	Umatac	1.03		
	Inarajan	0.17		
		13.69	1,444,800	$ 130,032

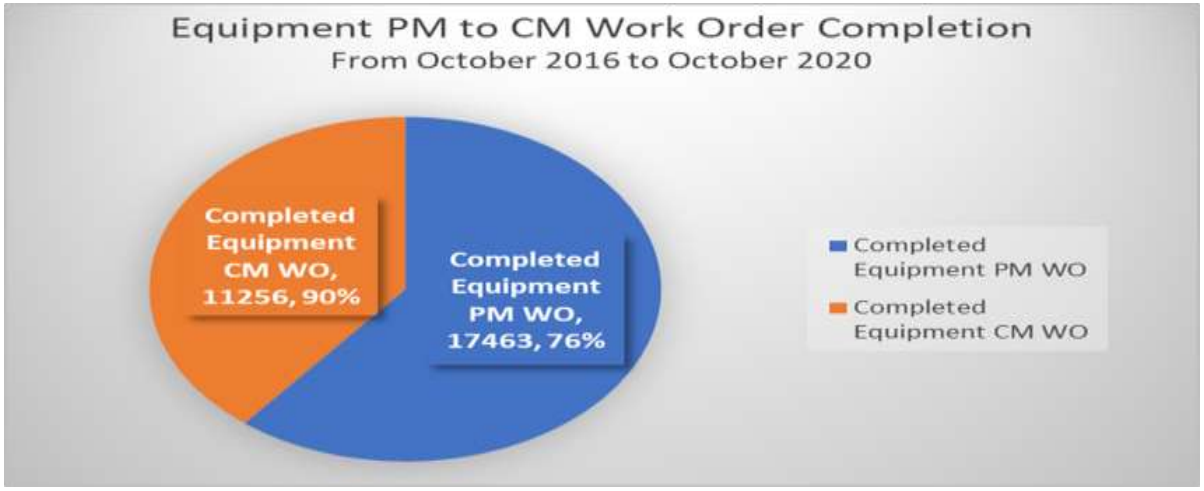


Asset Management (October 2020)

I. Equipment Preventive Maintenance to Corrective Maintenance ***Ratio***

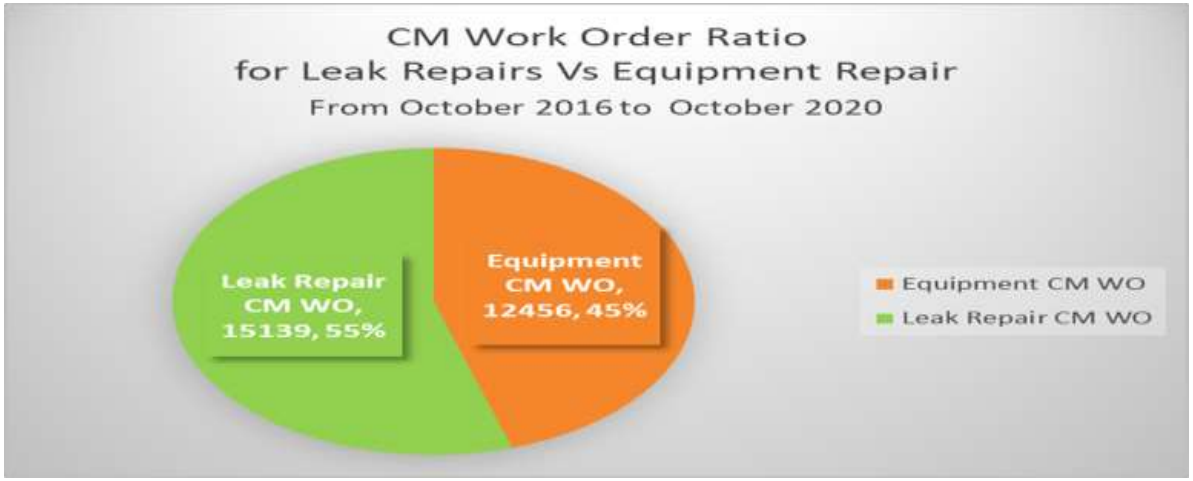


II. Equipment Preventive Maintenance to Corrective Maintenance ***Work Order Completion***



Asset Management (October 2020)

III. Corrective Maintenance Work Order ***Ratio*** for Leak Repairs vs. Equipment Repair



IV. Corrective Maintenance Work Order ***Completion*** for Leak Repairs vs. Equipment Repair



Backbilling through October 2020

Guam Waterworks Authority

Collections Report[1] on Accounts Backbilled thru October 31, 2020

For fiscal years 2015 thru 2021 (Oct)

Accounts Billed			Collection Status											
			Amounts Collected[1]			Amounts Adjusted			Total Uncollected (Active)			Total Uncollected (Inactive)		
FY Billed	No. of Accounts	Amount	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%
FY2015														
FY2016	17	$ 882	17	$ 882	100%	0	$ -		0	$ -		0	$ -	
FY2017	537	$ 397,450	463	296,253	75%	22	42,262	11%	25	30,052	8%	27	28,883	7%
FY2018	1,374	$ 742,109	1,197	559,855	75%	60	69,706	9%	67	69,794	9%	50	42,754	6%
FY2019	8,325	$ 3,064,384	7,482	2,088,797	68%	193	175,050	6%	418	688,939	22%	232	111,598	4%
FY2020	3,394	$ 991,979	2,838	531,862	54%	43	21,312	2%	461	423,181	43%	52	15,624	0%
Total	**13,647**	**$ 5,196,804**	**11,997**	**$ 3,477,649**	**67%**	**318**	**$ 308,330**	**6%**	**971**	**$ 1,211,966**	**23%**	**361**	**$ 198,859**	**4%**

[1] Collections thru November 10, 2020

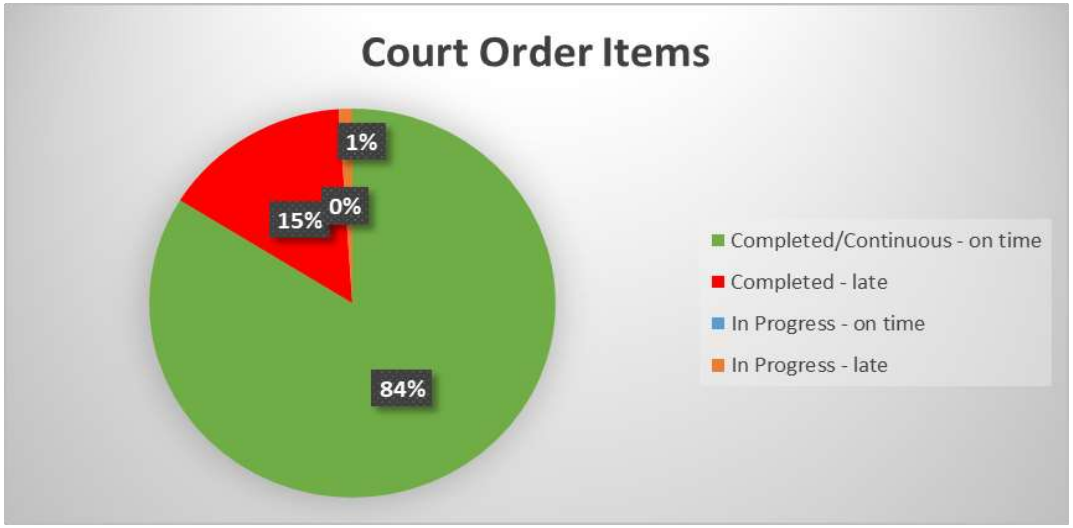
One Guam Update (October 2020)

- 01- TMW
  - Next inspection will be November 18 ,2020 at 9:30 am.
- 04-OEA Projects
  - Observation Wells/NGLA
    - The Temporary Construction Easement (TEC) s are getting packaged for review. Hopefully the TCEs will be ready for approval and endorsements by the Admiral by next meeting.
    - The TECs will be for 2 years.
    - DOD/GWA MOA to ensure that the NGLA Observation Wells are properly maintained and each party funds the data collection and analyst is being reviewed by NavFac Operations department. Once the Operations staff review, it will be sent up to the CO.
    - For GWA, the draft MOA is with Kelly who is reviewing it
- 06-Strategy/Framework Discussion
  - GWA has started reviewing the project and have an initial prioritized list of the projects that GWA feels are critical. Additional information from B&C is still needed.
  - GWA will need to understand more about future water demands from DOD.
  - DOD and GWA exchanged each other's Hydraulic profile.
  - A meeting with DOD and GWA Engineers to discuss the projects will be schedule for next week.
- 07-Property Transfers
  - No update on transfer of Navy Laterals at Murray Road to GWA.
- 30-Other
  - Umatac / Cetti Bay Easement
    - Letter from GWA was forwarded to the Navy's Real Estate Office for Conservation and Construction Easement request for extension for the use of Lot 275. GWA requested for in-kind contribution to be waiver of license fees for AG-1 well, Tarague and Tumon Maui Well for the period of the Conservation and Construction Easement.
    - Miguel explained that GWA is not able to lease or rent the easement without Guam Legislative approval so GWA was seeking waiver of the license fee for AG-1 well, Tarague and TMW. However, Cynthia advised GWA that license fees were not eligible for in-kind consideration.
    - The Navy has not responded to GWA's letter. GWA will determine the appropriate response, when it receives the response back from the Navy.

- Licenses for TMW, AG1 and Taragüe Line
  - GWA forwarded to the Navy the desire to extend the licenses for TMW, AG-1 well and Taragüe line for an additional year. The letter of intent was sent to 2nd Lt Ryan English on the request to extend the license agreement. The letter of intent included the request to update certain adjustment in the individual license to include the changing the withdrawal rates to be consistent with the GEPA well permit amount.
  - GWA would like to increase the withdrawal rate to ensure it can provide additional water to DOD. DOD shared that they didn't think it would be an issue. But would like to discuss it internally. When Andersen and the Navy to come to an agreement on the water with, GWA will be notified and the licenses will be updated.

Court Order Summary (October 2020)

	Total Items	On-time Items Completed / Continuous	In Progress - late	Completed - Late	In Progress - on time	Performance %
Court order total	93	78	1	14	0	98.90%



	Court Order Items	%	Performance (on-time or completed)
Completed/Continuous - on time	78	84%	
Completed - late	14	15%	
In Progress - on time	0	0%	
In Progress - late	1	1%	98.9%
Totals	93	100%	

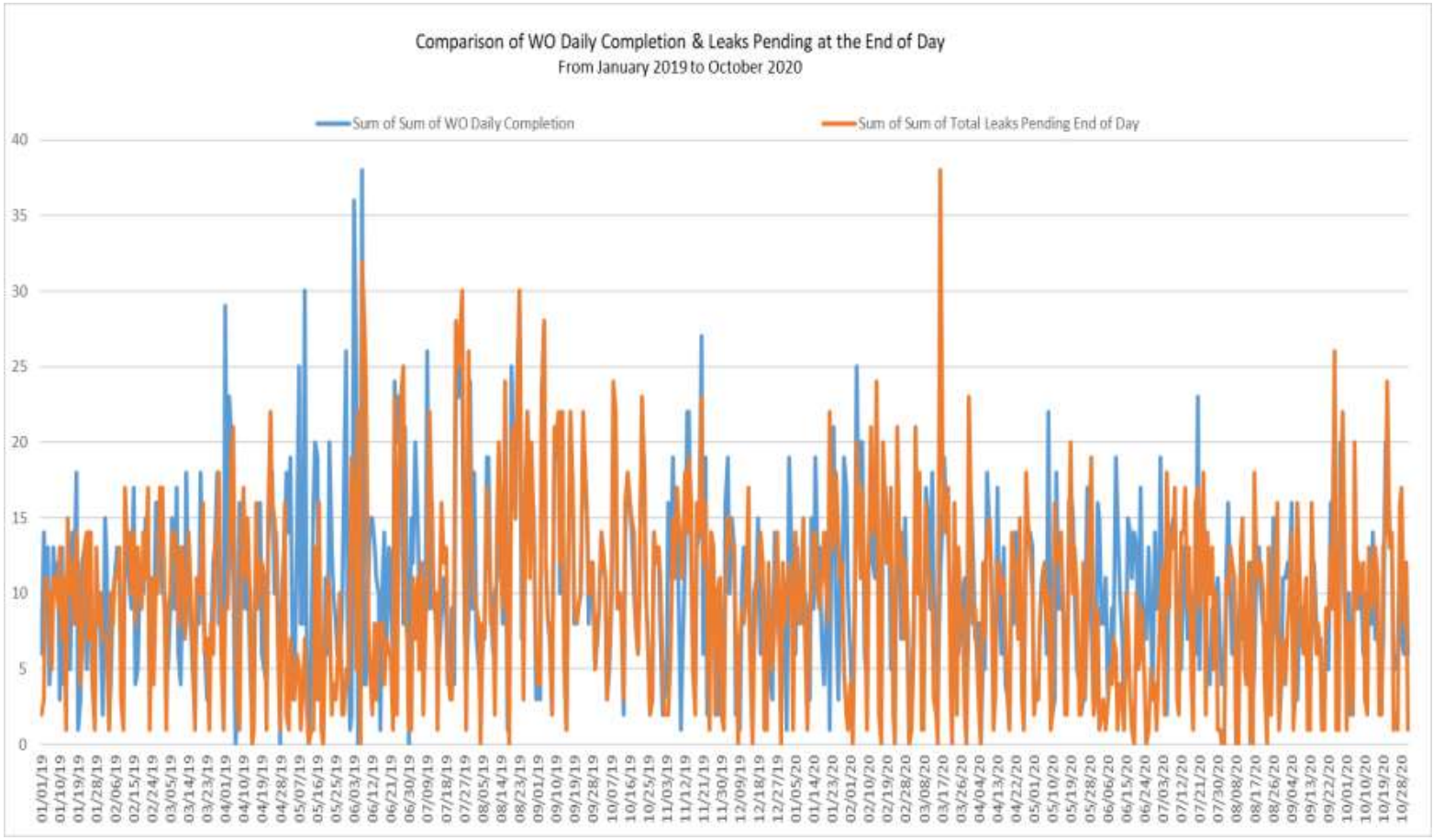
Court Order – Status Information (October 2020)

- 1 item delayed - The Court Order is down to one item remaining, § II, (C), (29) – Storage tank Repair. Restoration, Replacement or Relocation – which is the item that will take longer than the "end" of the court order. That makes us 98.9% done with the CO.
- Final Date to complete all Court Order items will be delayed past December 31, 2020.
    - CO 29(b) has been expanded by 31% beyond the original Court Order Requirements
    - General Counsel is drafting filing for submission to District Court
    - Additional impact resulted from delay of 2020 Bond issuance and there is also delay due to COVID-19 impacts
- Overflow or Bypass events reported to USEPA:
    - 10-04-2020 - Chalan Canton Tasi - sewer break WO#20-10-0249 REC#265 – pipe failure
    - 10-06-2020 – Marine Corp Drive, Route 1 - sewer overflow SSO#269– FOG
    - 10-06-2020 – Dairy Road, Mangilao – sewer overflow SSO# 266 – generator did not activate
    - 10-08-2020 - Chalan Canto Tasi – Station 17, Merizo – sewer break - REC#270 WO #20-10-0626
    - 10-21-2020 – Punzalan Street, Tiyan - wet well overflow SS#283 – rain
    - 10-22-2020 – Sgt. Roy T. Damian Jr., Mongmong - manhole overflow SSO#285 – pump station failure

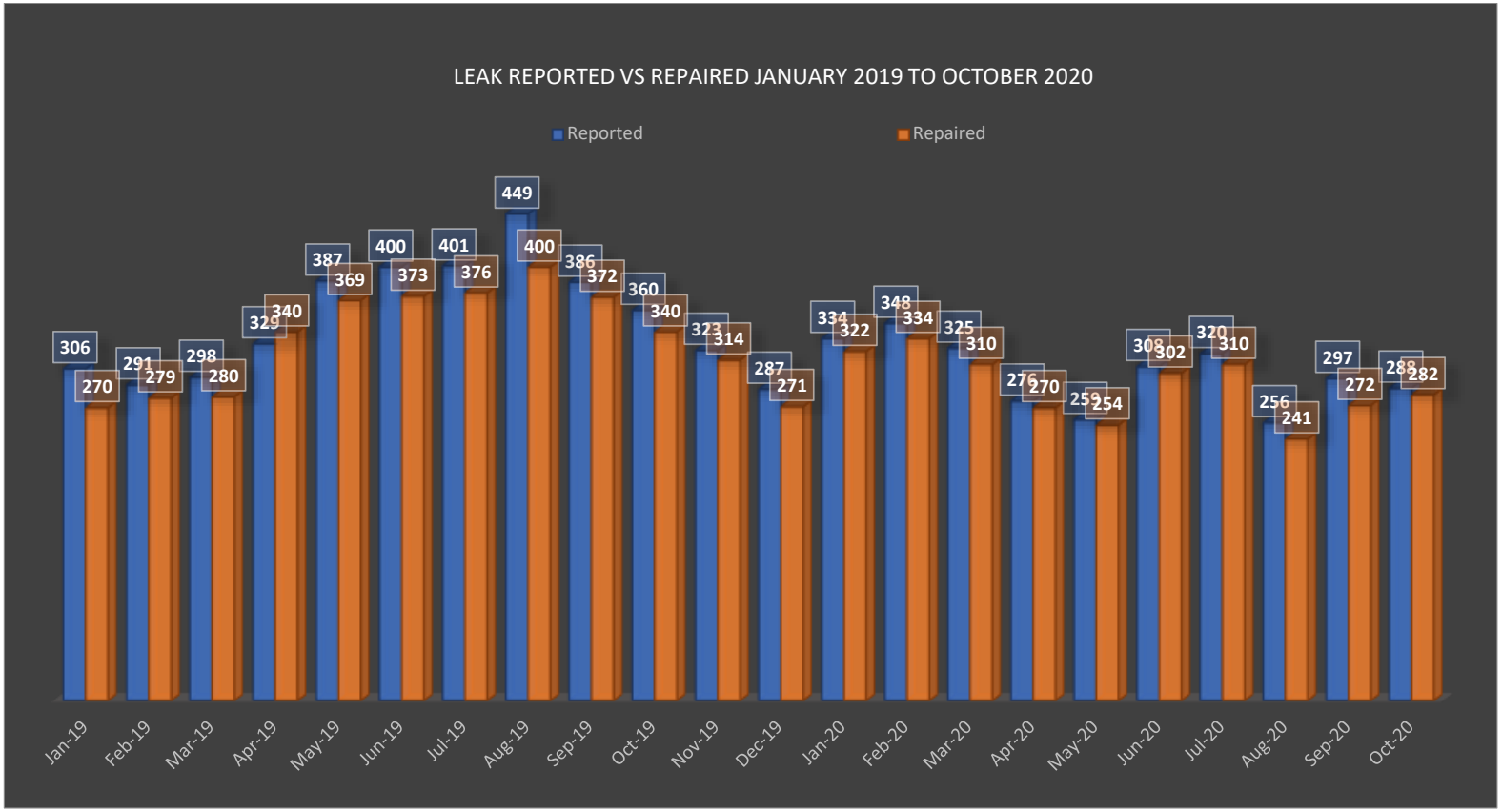
Land Acquisition Summary (October 2020 – no changes)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo	Gov't. - CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. Follow up update status request emailed to DLM 05/14/2020.
	Piti	Private	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 form.
	Airport	Private	Property owners accepted GWA purchase offer 09/20/2020. GWA GM signed Land Purchase & Sale Agreement; Owner's signature pending.
Deep Wells	AG-12	Dept. of Agriculture/Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2nd follow up sent on 09/12/18. 3rd follow up sent on 04/10/19. Retracement Survey Property Map filed and recorded at DLM 7/10/19.
Booster Pump Station	Agfayan	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19.
Asan Springs	Asan	Federal	In order for NPS to issue a land ROW agreement with GWA, NPS has to complete NEPA first. GWA has HDR under contract to perform this work and an Environmental Assessment will be developed. The permit for the biological survey was submitted on 6/12/2020 and is currently still in the hands of NPS. NPS is waiting to confirm with USFWS on the threatened and endangered species that are of concern at the project location. They are just waiting on USFWS confirmation.

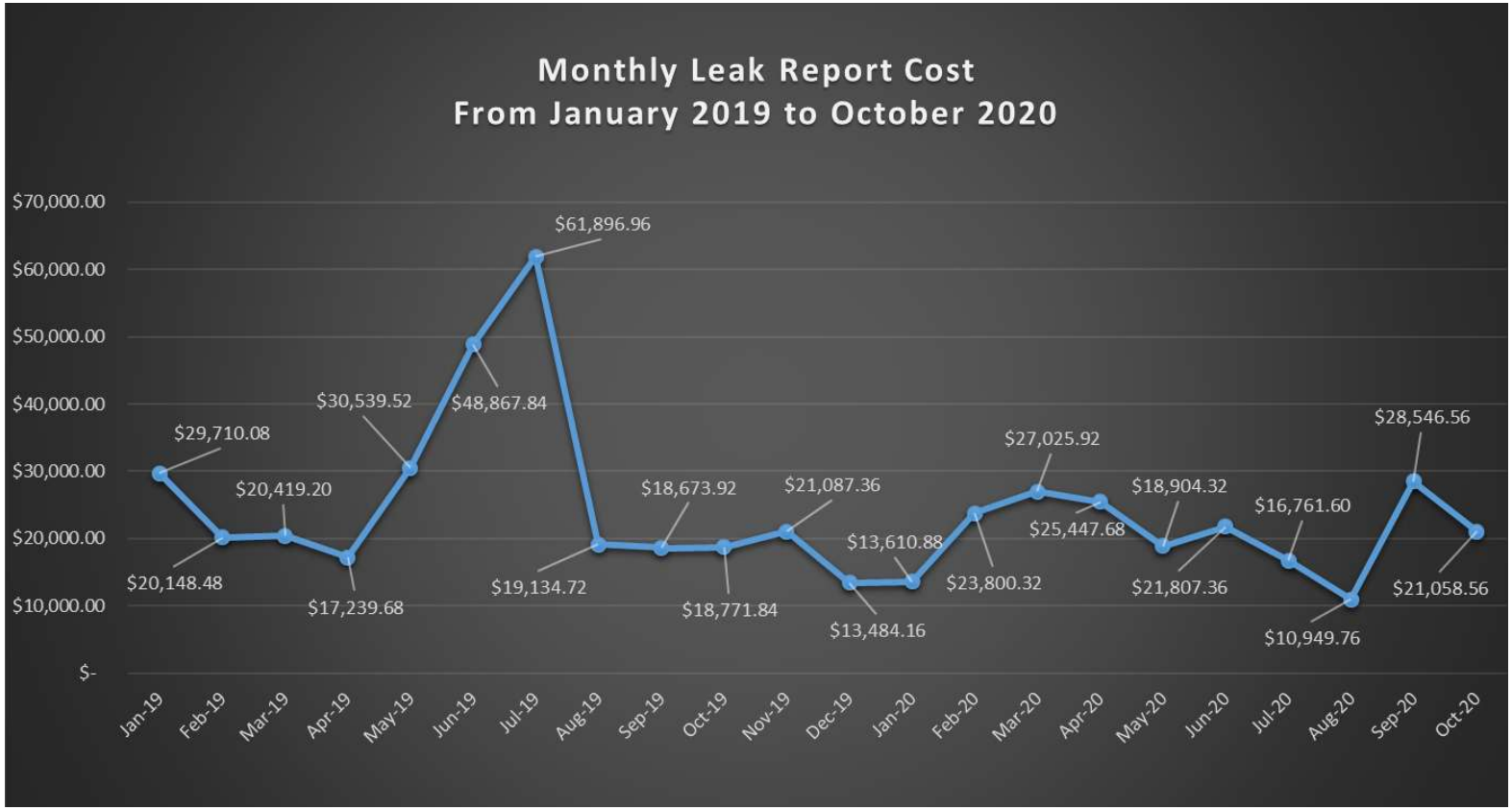
Leak Repair Summary (October 2020)



Comparison of Leaks Reported vs. Leaks Repaired (October 2020)



Monthly Leak Report Cost (October 2020)



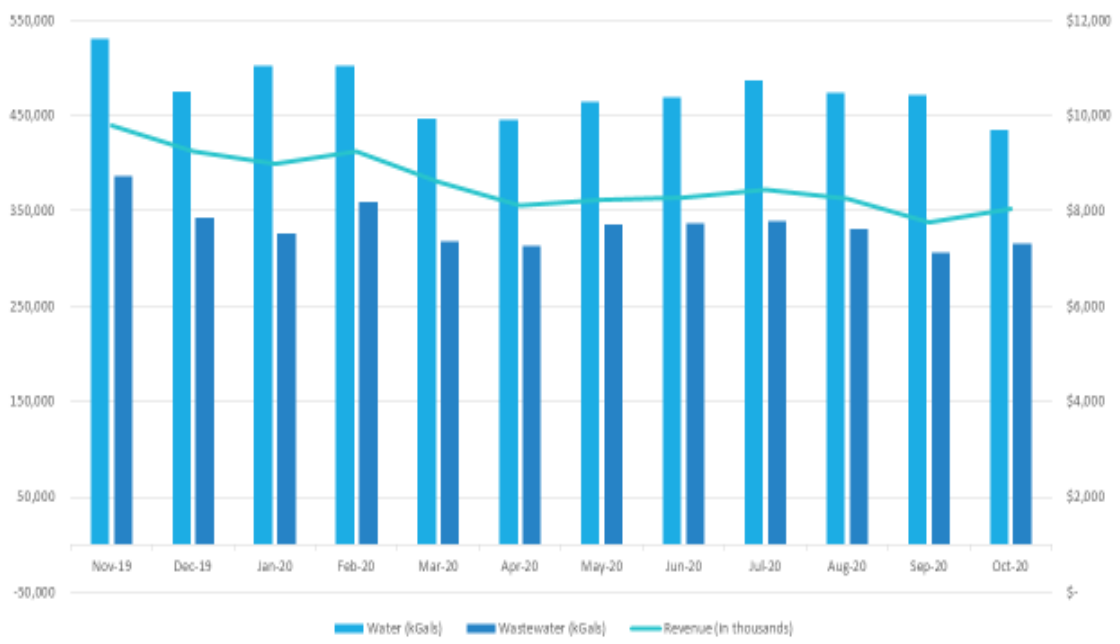
Assumptions:

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

GWA Financial Overview

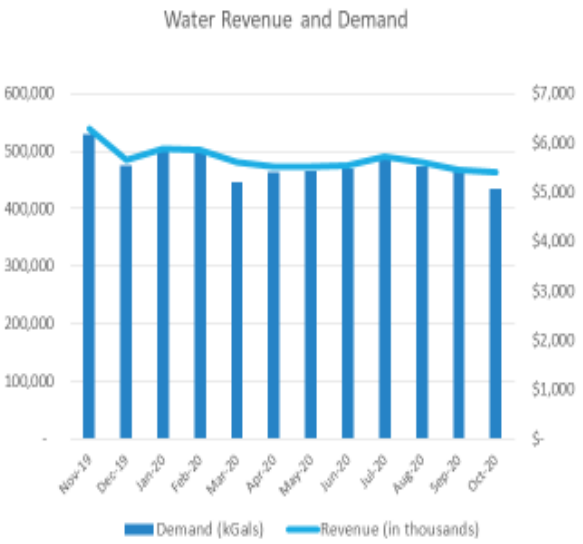
SEPTEMBER AND OCTOBER 2020

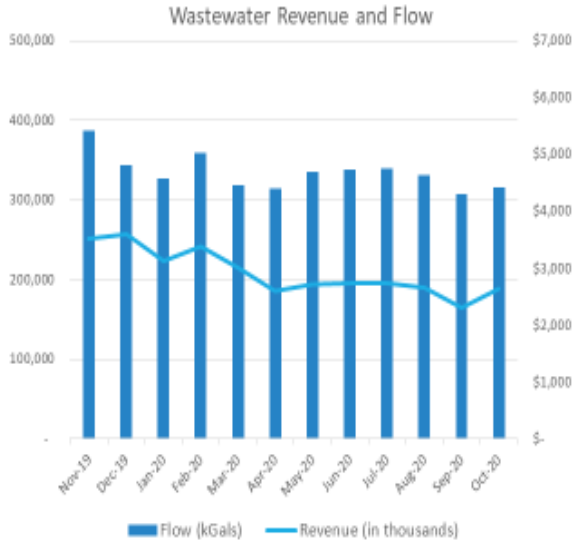
Overall Revenues and Demand



2

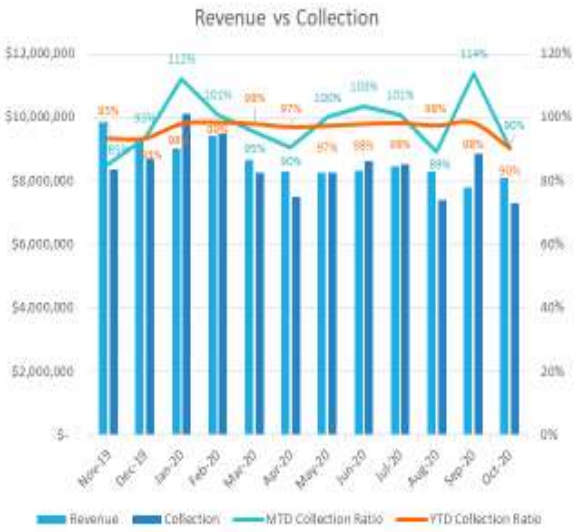
Revenues and Demand

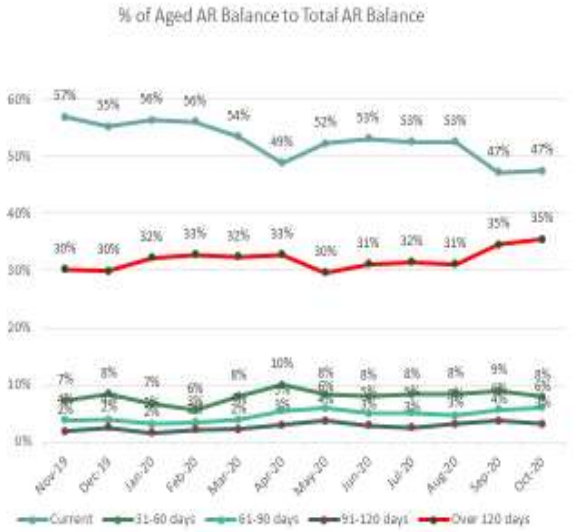




3

Overall Revenues and Collections

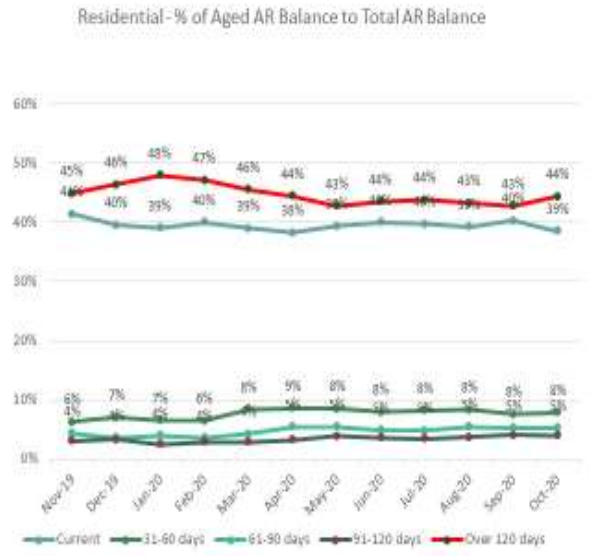




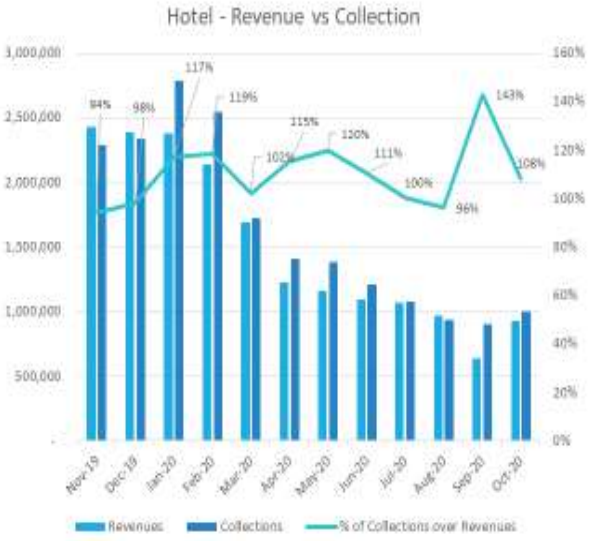
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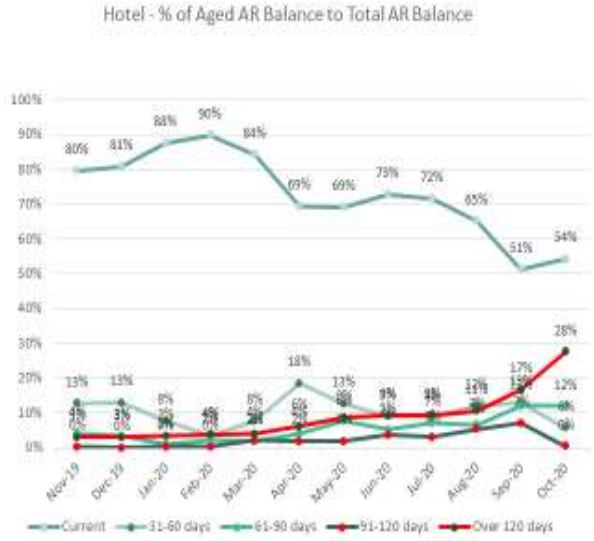
Residential Revenues and Collections





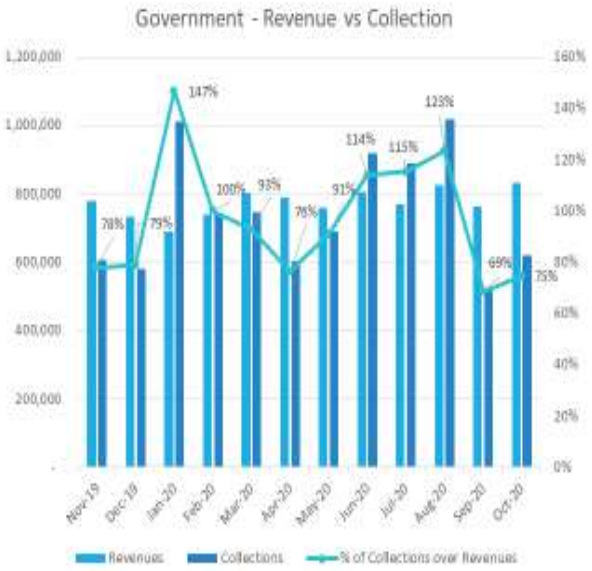
Hotel Revenues and Collections

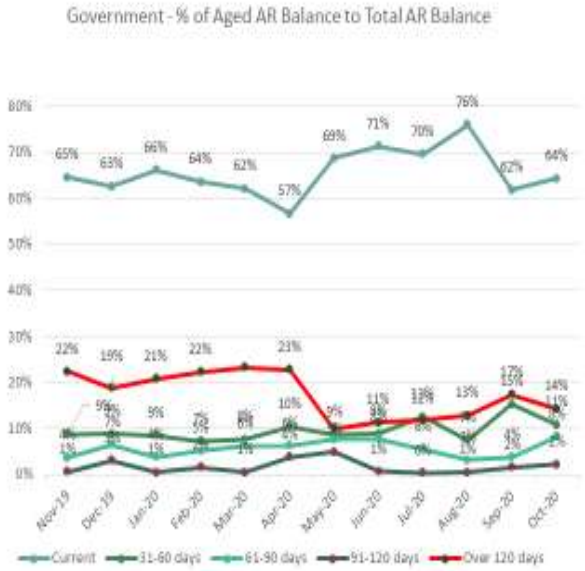




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Government Revenues and Collections

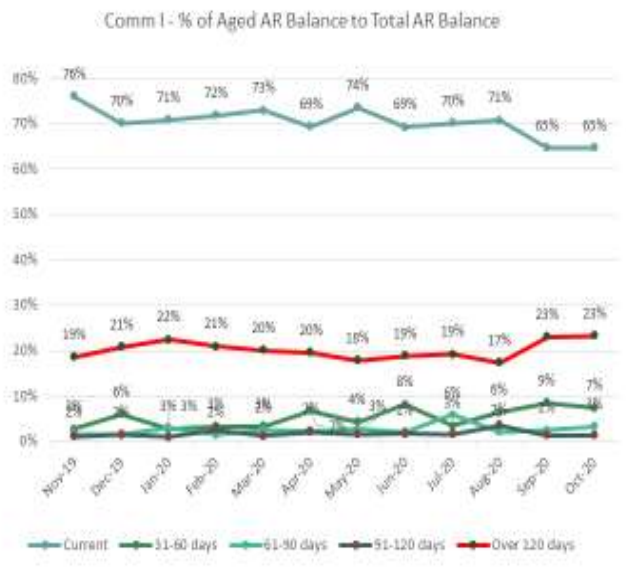




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Commercial I Revenues and Collections

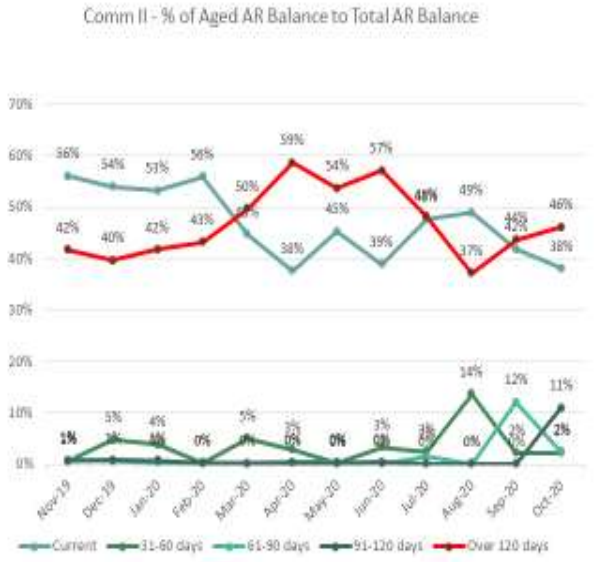




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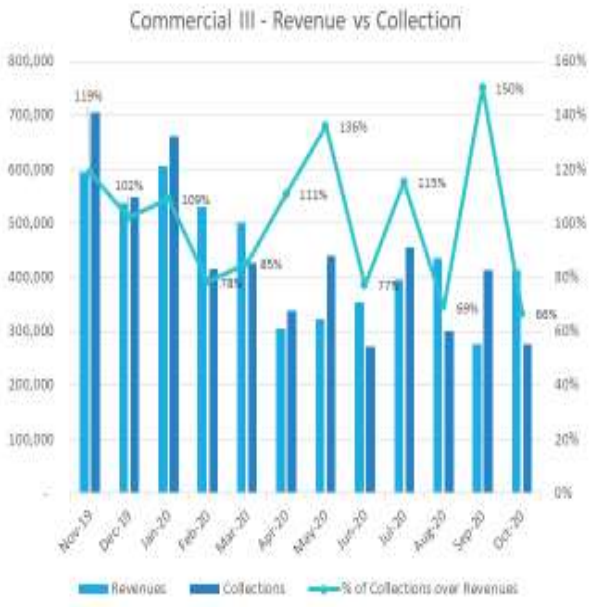
Commercial II Revenues and Collections

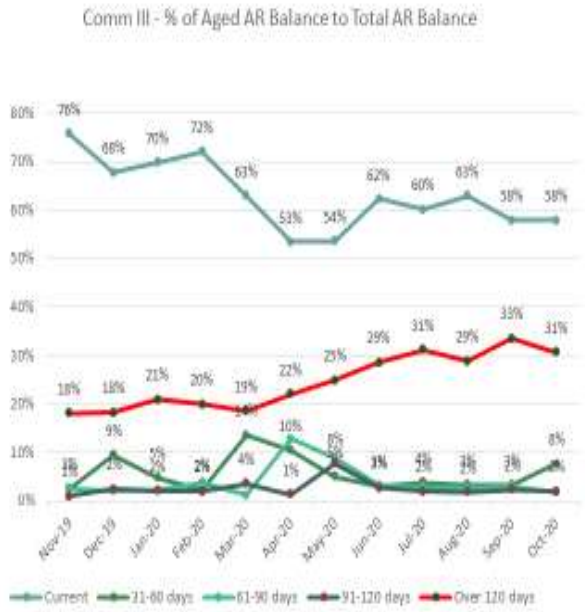




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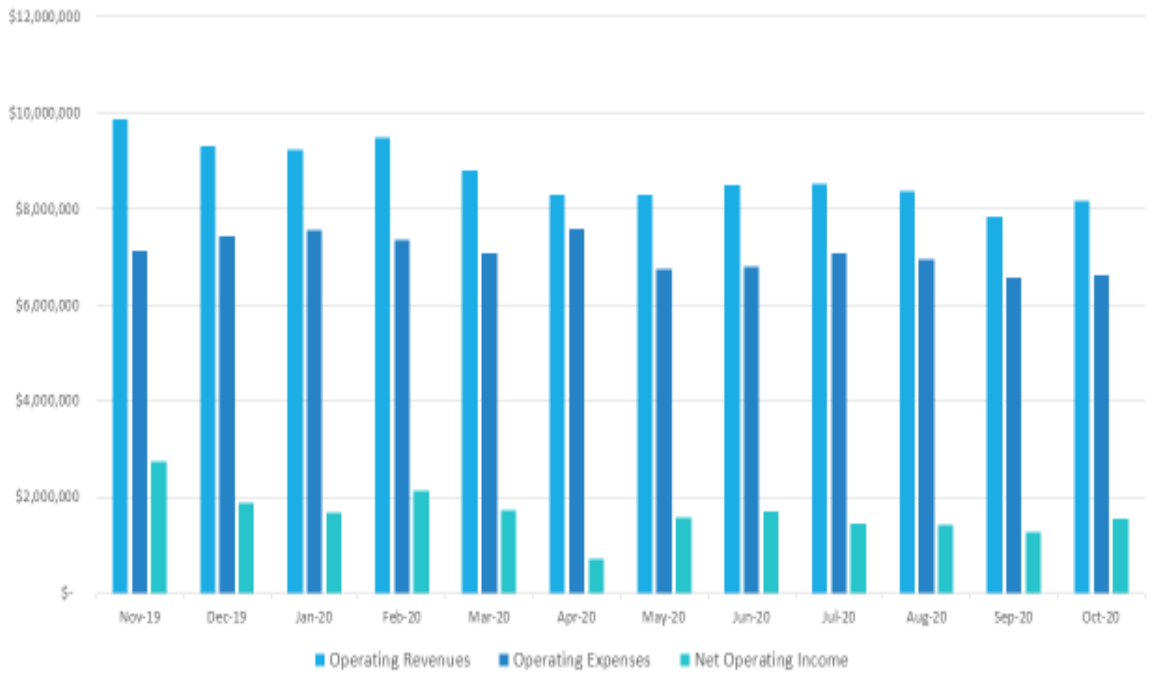
Commercial III Revenues and Collections





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Income Statement



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GWA Key Financial Indicators

Indicator	Target	August 2020	September 2020	Target	October 2020
DSC YTD					
• Per Section 6.12 of Indenture	1.25	1.33	1.30	1.25	1.38
• Per PUC / CCU	1.40	1.33	1.30	1.40	1.38
Days - Cash on Hand	120 days	291 days	311 days	120 days	271 days
Collection Ratio					
• Month to Date	99%	89%	114%	99%	90%
• Year to Date	99%	98%	99%	99%	90%
Days Billed	30 days	31 days	30 days	30 days	30 days
Account Receivable Days	30 days	49 days	47 days	30 days	49 days
Account Payable Days	45 days	32 days	36 days	45 days	36 days
Employee Count	400 FTE	381 FTE	379 FTE	400 FTE	376 FTE
Water Demand					
• Month to Date	476,259	473,988	472,192	478,754	435,500
• Year to Date	5,715,108	5,268,011	5,757,733	478,754	435,500
Wastewater Flow					
• Month to Date	339,054	331,167	306,686	356,472	316,069
• Year to Date	4,068,647	3,725,878	4,032,564	356,472	316,069
Water Customers	42,724	42,992	42,838	42,839	42,919
Wastewater Customers	29,604	29,551	29,363	29,805	29,259

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GUAM WATERWORKS AUTHORITY
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Financial Statement Overview
September 2020

The Finance Division performed the soft close of the books for FY20 on October 19, 2020. Prior to the closing, we have already begun to work with our auditors. The audit entrance conference with the Office of Public Accountability was held on October 12th . We are targeting to finish the audit by March 31st or earlier but meeting this deadline is contingent on obtaining information from the Retirement Fund and Department of Administration on retirement liability and liability for retiree benefits.

During the month of September, although the number of positive tests has remained high and there were 41 fatalities reported, the Governor relaxed PCOR1 conditions allowing certain businesses and government offices to open with restrictions. Executive Order 2020-35 extended the public health emergency thru October 30, 2020 and Executive Order 2020-38 extended the public health emergency thru November 29, 2020. GWA cashier and customer service representative stations continue to be open to the public. Operations employees have been reporting to work observing safety precautions, while most other employees are teleworking.

Using social media, GWA continues to encourage customers to conduct business online or via the phone. As part of this effort, GWA joined the *Going Online Together* campaign in June with several other organizations. Additionally, GWA has launched a pilot automated customer service online support portal on its website; BBMR recently provided approval for additional CARES funding to customize this portal.

Collections in September have increased compared to August but are still behind pre-pandemic levels. While payments at GWA locations have gone below 30%, payments to third party agents, e.g., banks and Treasurer of Guam, have gone up from 14% to almost 28%.

On April 28th, CCU Resolution 24-FY2020 granted the lifting of credit card limits on payments for non-residential accounts. Below is a summary of payments made exceeding the limit and related fees.

Month	Customer Count	Amount Paid	Fees	% of Fees to Payments
May 2020	18	$22,011	$543	2.46%
June 2020	21	$34,919	$702	2.01%
July 2020	35	$53,191	$1,069	2.01%
August 2020	32	$59,558	$1,197	2.01%
September 2020	34	$71,656	$1,441	2.01%

Year to Date consumption is 2% lower than last year for both water and wastewater and September 2020 consumption was below September 2019 (water consumption -9%, wastewater consumption -23%) partially due to billing dates decreasing from 32 days to 30 days. Increases in residential demand continue to be offset by reductions in commercial demand. We continue to monitor bills as they drop to determine the impact of the public health emergency. Visitors from low risk countries

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will not be quarantined if they stay less than 5 days. However, with the increase in COVID cases, their home countries may not be willing to ease quarantine requirements on their return.

Schools continue to remain closed during PCOR 1. This impacts demand as GDOE has been one of GWA's top ten customers for both water and wastewater services. See Schedule K for Water Demand for FY2015 to FY2020.

As revenues are monitored, the cost containment plan continues to be also adjusted as needed. While sufficient cash reserves are in place, management will continue to assess the situation and make any course corrections required to ensure continuity of services to our customers while keeping the safety of our staff the highest priority.

Balance Sheet

- Total Assets & Deferred Outflows of Resources of $915.7M in September 2019 grew by $212M or 23% to $1.1B in September 2020 largely due to funds from the sale of bonds. Current Assets increased by $791K, Property, Plant and Equipment increased by $74M, and Other Noncurrent Assets increased by $116M. Schedule G contains a schedule of restricted and unrestricted cash and investments.
- Liabilities & Deferred Inflow of Resources of $714.2M in September 2019 increased by $154.6M or 23% to $868.8M in September 2020 primarily due to the bond sales, increasing Long Term Debt by $159.5M.
- Accounts Receivable days were 47 in September 2020 as compared to 50 in September 2019 and Accounts Payable days were 36 in September 2020 as compared to 38 in September 2019.

Statement of Operations and Retained Earnings

- Note that the budget was adjusted to reflect the forecast adopted in the Series 2020B Official Statement.
- Total Operating Revenues for September 2020 of $7.8M were 11% or $993K less than budget and 24% or $2.5M less than September 2019 due to the impact of the COVID-19 public health emergency and offset by the 5% increase effective in March.
- Year to Date Operating Revenues as of September 2020 of $105.3M were $735.2K or 1% less than budget and were $7.5M or 7% less than last year.
- Total Operating Expenses for September 2020 of $6.6M were $538.4K or 8% below budget. Total Operating Expenses for September 2020 were 20% or $1.7M less than September 2019 with decreases in most expense categories except for Depreciation and Salaries & Benefits; compensatory time accrued during the pandemic was paid off at the end of the fiscal year.
- Year to Date Operating Expenses at September 2020 of $86.1M were $722K or 1% more than budget. Year to Date Operating Expenses at September 2020 were $1.2M or 1% more than last year's $84.9M mainly due to increases in Salaries & Benefits and Depreciation compared to the prior year.
- Earnings from Operations for September 2020 of $1.3M were 26% or $455K less than budget and 39% or $815.8K less than September 2019. Change in Net Assets for September 2020 of $11.3M were $8.1M more than the $3.2M budget and $3.5M more than September 2019 due

GUAM WATERWORKS AUTHORITY
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to $7.2M more in Grants offsetting the $2.9M decrease in Non-operating Revenues and Expenses.

- Year to Date Earnings from Operations as of September 2020 of $19.2M were 7% or $1.5M less than budget and 31% or $8.7M less than YTD Earnings as of September 2019. Year to Date Change in Net Assets as of September 2020 of $57.6M were $19.2M or 50% more than budget. Year to Date Change in Net Assets as of September 2020 were $20.3M or 54% more than YTD as of September 2019 mainly due to $49.7M more in Grants, $11.3M less in AFUDC and $3.4M less in interest income.

Key Financial Indicators

Indicator	Target	August 2020	September 2020
DSC YTD			
• Per Section 6.12 of Indenture	1.25	1.33	1.30
• Per PUC / CCU	1.40	1.33	1.30
YTD Month to Month Change in Net Assets		13%	12%
Days – Cash on Hand	120 days	291 days	311 days
Collection Ratio			
• Month to Date	99%	89%	114%
• Year to Date	99%	98%	99%
Days Billed	30 days	31 days	30 days
Account Receivable Days	30 days	49 days	47 days
Account Payable Days	45 days	32 days	36 days
Employee Count	400 FTE	381 FTE	379 FTE
Water Demand			
• Month to Date	476,259	473,988	472,192
• Year to Date	5,715,108	5,285,541	5,757,733
Wastewater Flow			
• Month to Date	339,054	331,167	306,686
• Year to Date	4,068,647	3,725,878	4,032,564
Water Customers	42,839	42,992	42,838
Wastewater Customers	29,604	29,551	29,363

GUAM WATERWORKS AUTHORITY
September 30, 2020
FINANCIAL AND RELATED REPORTS
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GUAM WATERWORKS AUTHORITY
Balance Sheet
September 30, 2020

SCHEDULE A

ASSETS AND DEFERRED OUTFLOWS of RESOURCES	Unaudited September 30, 2020	Audited September 30, 2019	Increase (Decrease)
Current Assets			
Cash			
Unrestricted (Schedule G)	42,486,239	36,140,182	6,346,057
Restricted Funds (Schedule G)	30,072,502	37,890,369	(7,817,868)
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of $8,027,857 at Sep 30, 2020 and $7,789,943 at Sep 30, 2019	12,563,838	14,346,247	(1,782,409)
Federal Receivable	7,755,755	3,711,435	4,044,320
Other Receivable	888,600	1,794,082	(905,482)
Materials & Supplies Inventory, Net of Allowance for Obsolescence of $64,131 at Sep 30, 2020 and $64,131 at Sep 30, 2019	4,804,466	3,897,352	907,113
Total Current Assets	98,571,399	97,779,668	791,732
Property, Plant and Equipment			
Utility plant in service			
Water system	378,420,144	381,484,623	(3,064,479)
Wastewater system	480,533,485	429,896,579	50,636,905
Non-utility property	25,752,939	23,200,625	2,552,314
Total property	884,706,567	834,581,827	50,124,740
Less: Accumulated Depreciation	(343,112,883)	(321,561,403)	(21,551,479)
Land	5,240,187	3,914,815	1,325,373
Construction Work in Progress	144,253,768	100,162,613	44,091,155
Property, Plant and Equipment, net	691,087,641	617,097,852	73,989,789
Other noncurrent assets and deferred charges			
Restricted cash (Schedule G)	219,203,039	109,937,511	109,265,527
Investments (Schedule G)	66,616,997	61,231,877	5,385,120
Other Prepaid Expenses	2,615,782	1,667,816	947,966
Regulatory Assets	430,962	-	430,962
Total other noncurrent assets and deferred charges	288,866,779	172,837,204	116,029,574
Total Assets	1,078,525,819	887,714,724	190,811,095
Deferred outflows of resources			
Debt defeasance due to bond refunding	33,351,801	11,976,380	21,375,421
Deferred outflows from pension	9,057,499	9,057,499	-
Deferred outflows from OPEB	6,982,196	6,982,196	-
Total Assets and Deferred Outflows of Resources	**1,127,917,316**	**915,730,799**	**212,186,517**
LIABILITIES, DEFERRED INFLOWS of RESOURCES AND NET ASSETS			
Current Liabilities			
Current maturities of long-term debt			
Series 2010 Revenue Bond	-	1,895,000	(1,895,000)
Series 2013 Revenue Bond	2,840,000	2,695,000	145,000
Series 2014 Refunding Bond	530,000	3,760,000	(3,230,000)
Series 2016 Revenue Bond	3,860,000	420,000	3,440,000
Series 2017 Refunding Bond	2,040,000	-	2,040,000
Notes Payable	-	2,319,108	(2,319,108)
Accounts Payable -Trade	2,708,771	4,121,449	(1,412,677)
Accrued and Other Liabilities	1,239,059	1,374,565	(135,507)
Interest Payable	6,304,598	6,359,303	(54,705)
Accrued Payroll and Employee Benefits	354,780	1,685,235	(1,330,455)
Current portion of employee annual leave	521,641	616,114	(94,473)
Contractors' Payable	22,218,745	22,094,820	123,925
Customer and Other Deposits	2,199,462	2,349,490	(150,028)
Total Current Liabilities	44,817,055	49,690,083	(4,873,028)
Long Term Debt, less current maturities			
Series 2013 Revenue Bond	24,500,000	169,935,000	(145,435,000)
Series 2014 Refunding Bond	64,610,000	65,140,000	(530,000)
Series 2016 Revenue Bond	139,030,000	142,890,000	(3,860,000)
Series 2017 Refunding Bond	105,325,000	107,365,000	(2,040,000)
Series 2020A Revenue Bond	134,000,000	-	134,000,000
Series 2020B Refunding Bond	166,075,000	-	166,075,000
Unamortized Bond Premium/Discount	42,515,523	31,863,590	10,651,933
Notes Payable	-	-	-
Net pension liability	49,593,171	49,593,171	-
Net OPEB obligation	62,656,405	62,656,405	-
Employee Annual Leave, Less Current Portion	1,273,668	806,635	467,033
Employee Sick Leave	1,226,702	1,054,545	172,157
Total Liabilities	835,622,524	680,994,429	154,628,095
Deferred inflows of resources:			
Deferred inflows from pension	1,444,744	1,444,744	-
Deferred inflows from OPEB	31,758,062	31,758,062	-
Total Liabilities and Deferred Inflows of Resources	868,825,330	714,197,235	154,628,095
Net Assets	**259,091,985**	**201,533,564**	**57,558,421**
Total Liabilities, Deferred Inflows of Resources and Net Assets	**1,127,917,316**	**915,730,799**	**212,186,517**

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings **SCHEDULE B**
Comparative Budget vs. Actual for the period ending September 30, 2020

	Month to Date		Variance
	Budget* September-20	Actual (Unaudited) September-20	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,501,558	5,276,106	(225,452)
Wastewater Revenues	2,930,042	2,257,709	(672,333)
Legislative Surcharge	264,940	227,294	(37,646)
Other Revenues	54,909	21,420	(33,489)
System Development Charge	84,429	59,857	(24,572)
Total Operating Revenues	8,835,878	7,842,386	(993,492)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	603,168	25,385	577,783
Power Purchases	1,176,643	984,143	192,500
Total Utility Costs	1,779,811	1,009,528	770,283
Salaries and Wages	1,697,871	1,789,780	(91,909)
Pension and Benefits	527,364	433,727	93,637
Total Salaries and Benefits	2,225,236	2,223,507	1,728
Capitalized Labor and Benefits	(382,431)	(293,728)	(88,704)
Net Salaries and Benefits	1,842,804	1,929,780	(86,976)
Administrative and General Expenses			
Sludge removal	130,979	95,633	35,346
Chemicals	105,093	78,828	26,265
Materials & Supplies	102,068	101,321	747
Transportation	90,958	90,041	917
Communications	12,500	12,361	139
Claims	6,339	3,643	2,696
Insurance	78,914	78,611	303
Training & Travel	10,753	-	10,753
Advertising	6,892	6,840	52
Miscellaneous	104,206	97,486	6,719
Regulatory Expense	9,596	8,319	1,277
Bad Debts Provision	159,017	111,650	47,367
Total Administrative and General Expense	817,315	684,734	132,580
Depreciation Expense	2,007,134	2,296,564	(289,430)
Contractual Expense			
Audit & Computer Maintenance	101,423	98,485	2,938
Building rental	37,615	37,471	144
Equipment rental	28,904	27,967	937
Legal	3,164	-	3,164
Laboratory	32,677	31,014	1,662
Other	197,239	195,442	1,797
Total Contractual Expense	401,022	390,380	10,643
Retiree Supp. Annuities and health care costs	219,161	217,867	1,294
Contribution to Government of Guam	50,333	50,333	0
Total Retiree Benefits	269,495	268,200	1,295
Total Operating Expenses	7,117,581	6,579,186	538,395
Earnings (Loss) from Operations	1,718,297	1,263,200	(455,097)
Interest Income - 2010/13/14/16/17/20 Series Bond	107,032	2,571	(104,461)
Interest Income - Other Funds	22,804	1,037	(21,767)
Interest Income - SDC	9,387	3,380	(6,008)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,117,099)	(2,559,639)	(442,540)
Interest Expense - ST BOG	(5,612)	-	5,612
Federal Expenditures	-	(103,977)	(103,977)
Amortization of Discount, Premium and Issuance Costs	59,408	(1,475,322)	(1,534,730)
Defeasance due to bond refunding	(68,976)	(172,544)	(103,568)
Deferred outflows from pension	-	-	-
Prior Year Adjustment	-	353,188	353,188
Total non-operating revenues (expenses)	(1,993,055)	(3,951,307)	(1,958,251)
Net Income (Loss) before capital contributions	(274,759)	(2,688,107)	(2,413,348)
Capital Contributions			
Grants from US Government	3,473,402	13,910,396	10,436,993
Grants from GovGuam & Others	-	85,506	85,506
Total Capital Contributions	3,473,402	13,995,902	10,522,499
Change in Net Assets	3,198,644	11,307,795	8,109,151
Debt Service Calculation			
Earnings From Operations	1,718,297	1,263,200	
System Development Charge	(84,429)	(59,857)	
Retiree COLA	50,333	50,333	
Interest/Investment Income	22,804	1,037	
Depreciation	2,007,134	2,296,564	
Balance Available for Debt Service per Section 6.12	3,714,138	3,551,277	
Debt Service			
Principal	730,833	730,833	
Interest	2,117,099	2,117,099	
Total	2,847,932	2,847,932	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.30	1.25	
Debt Service Coverage (1.40X) inclusive of reserves (PUC)	1.30	1.25	

*Adjusted budget

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending September 30, 2020 and 2019

SCHEDULE C

	Month to Date Actual (Unaudited) September-20	Actual (Audited) September-19	Variance Increase / (Decrease)
OPERATING REVENUES			
Water Revenues	5,276,106	6,210,084	(933,978)
Wastewater Revenues	2,257,709	3,613,739	(1,356,030)
Legislative Surcharge	227,294	323,549	(96,255)
Other Revenues	21,420	71,844	(50,424)
System Development Charge	59,857	95,301	(35,444)
Total Operating Revenues	7,842,386	10,314,517	(2,472,131)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	25,385	549,616	(524,231)
Power Purchases	984,143	1,402,841	(418,698)
Total Utility Costs	1,009,528	1,952,457	(942,929)
Salaries and Wages	1,789,780	1,380,626	409,154
Pension and Benefits	433,727	440,599	(6,871)
Total Salaries and Benefits	2,223,507	1,821,225	402,282
Capitalized Labor and Benefits	(293,728)	(312,703)	18,975
Net Salaries and Benefits	1,929,780	1,508,522	421,257
Administrative and General Expenses			
Sludge removal	95,633	67,566	28,067
Chemicals	78,828	436,950	(358,122)
Materials & Supplies	101,321	167,972	(66,651)
Transportation	90,041	176,001	(85,960)
Communications	12,361	8,721	3,640
Claims	3,643	13,964	(10,321)
Insurance	78,611	77,860	751
Training & Travel	-	64,679	(64,679)
Advertising	6,840	8,679	(1,839)
Miscellaneous	97,486	105,048	(7,562)
Regulatory Expense	8,319	55,366	(47,047)
Bad Debts Provision	111,650	199,068	(87,418)
Total Administrative and General Expense	684,734	1,381,873	(697,139)
Depreciation Expense	2,296,564	1,928,015	368,549
Contractual Expense			
Audit & Computer Maintenance	98,485	248,791	(150,306)
Building rental	37,471	47,180	(9,709)
Equipment rental	27,967	265,060	(237,092)
Legal	-	1,200	(1,200)
Laboratory	31,014	31,734	(720)
Other	195,442	577,102	(381,660)
Total Contractual Expense	390,380	1,171,067	(780,687)
Retiree Supp. Annuities and health care costs	217,867	243,570	(25,703)
Contribution to Government of Guam	50,333	50,000	333
Total Retiree Benefits	268,200	293,570	(25,370)
Total Operating Expenses	6,579,186	8,235,504	(1,656,318)
Earnings (Loss) from Operations	1,263,200	2,079,013	(815,813)
Interest Income - 2010/13/14/16/17/20 Series Bond	2,571	227,104	(224,533)
Interest Income - Other Funds	1,037	57,446	(56,409)
Interest Income - SDC	3,380	13,473	(10,093)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,559,639)	(2,117,099)	(442,540)
Interest Expense - ST BOG	-	(18,823)	18,823
Federal Expenditures	(103,977)	-	(103,977)
AFUDC	-	1,157,306	(1,157,306)
Amortization of Discount, Premium and Issuance Costs	(1,475,322)	119,970	(1,595,292)
Defeasance due to bond refunding	(172,544)	(69,534)	(103,010)
Deferred outflows from pension	-	-	-
Prior Year Adjustment	353,188	(396,187)	749,375
Total non-operating revenues (expenses)	(3,951,307)	(1,026,344)	(2,924,963)
Net Income (Loss) before capital contributions	(2,688,107)	1,052,669	(3,740,776)
Capital Contributions			
Grants from US Government	13,910,396	6,683,444	7,226,952
Grants from GovGuam & Others	85,506	109,962	(24,456)
Total Capital Contributions	13,995,902	6,793,406	7,202,495
Change in Net Assets	11,307,795	7,846,075	3,461,720
Debt Service Calculation			
Earnings From Operations	1,263,200	2,079,013	
System Development Charge	(59,857)	(95,301)	
Retiree COLA	50,333	50,000	
Interest/Investment Income	1,037	57,446	
Depreciation	2,296,564	1,928,015	
Balance Available for Debt Service per Section 6.12	3,551,277	4,019,172	
Working Capital Reserve Available for Debt Service	-	963,645	
Transfer to Working Capital - Debt Service Reserve	-	-	
Transfer to Working Capital - O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	3,551,277	4,982,817	
Debt Service			
Principal	730,833	476,250	
Interest	2,117,099	2,137,785	
Total	2,847,932	2,614,035	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.25	1.54	
Debt Service Coverage (1.40X) (PUC)	1.25		
Debt Service Coverage (1.75X) inclusive of reserves (PUC)		1.91	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings **SCHEDULE D**
Comparative Budget vs. Actual for the period ending September 30, 2020

	Year to Date		Variance
	Budget* September-20	Actual (Unaudited) September-20	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	66,018,690	66,131,935	113,245
Wastewater Revenues	35,160,504	34,655,406	(505,097)
Legislative Surcharge	3,179,278	3,162,771	(16,506)
Other Revenues	658,911	589,191	(69,719)
System Development Charge	1,013,149	756,038	(257,111)
Total Operating Revenues	106,030,531	105,295,342	(735,189)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	6,878,017	5,551,065	1,326,952
Power Purchases	14,119,720	14,118,145	1,576
Total Utility Costs	20,997,737	19,669,209	1,328,528
Salaries and Wages	20,374,454	20,744,654	(370,200)
Pension and Benefits	6,328,373	6,415,948	(87,575)
Total Salaries and Benefits	26,702,827	27,160,602	(457,776)
Capitalized Labor and Benefits	(4,589,176)	(3,993,300)	(595,876)
Net Salaries and Benefits	22,113,651	23,167,302	(1,053,651)
Administrative and General Expenses			
Sludge removal	1,280,749	1,277,885	2,863
Chemicals	1,853,121	1,817,213	35,908
Materials & Supplies	2,100,820	2,097,578	3,241
Transportation	606,499	606,260	238
Communications	153,998	153,371	627
Claims	136,063	134,529	1,534
Insurance	937,966	937,471	495
Training & Travel	139,035	137,912	1,123
Advertising	64,704	59,366	5,338
Miscellaneous	1,100,467	1,094,248	6,219
Regulatory Expense	322,155	317,344	4,811
Bad Debts Provision	1,908,201	2,033,768	(125,567)
Total Administrative and General Expense	10,603,777	10,666,946	(63,169)
Depreciation Expense	24,085,603	25,032,824	(947,221)
Contractual Expense			
Audit & Computer Maintenance	853,080	852,386	694
Building rental	441,378	440,879	499
Equipment rental	787,854	786,737	1,117
Legal	34,969	28,477	6,492
Laboratory	213,119	212,762	357
Other	2,115,867	2,113,844	2,023
Total Contractual Expense	4,446,267	4,435,085	11,182
Retiree Supp. Annuities and health care costs	2,559,937	2,557,350	2,587
Contribution to Government of Guam	604,000	604,000	0
Total Retiree Benefits	3,163,937	3,161,350	2,587
Total Operating Expenses	85,410,972	86,132,716	(721,744)
Earnings (Loss) from Operations	20,619,559	19,162,626	(1,456,933)
Interest Income - 2010/13/14/16/17/20 Series Bond	1,284,382	988,734	(295,648)
Interest Income - Other Funds	273,645	274,980	1,335
Interest Income - SDC	112,647	103,612	(9,035)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(25,405,188)	(27,392,688)	(1,987,501)
Interest Expense - ST BOG	(67,345)	(38,188)	29,157
Federal Expenditures	-	(277,667)	(277,667)
Loss on Asset Disposal	-	(3,678,963)	(3,678,963)
Amortization of Discount, Premium and Issuance Costs	712,900	(2,798,338)	(3,511,238)
Defeasance due to bond refunding	(827,707)	(931,275)	(103,568)
Prior Year Adjustment	-	83,363	83,363
Total non-operating revenues (expenses)	(23,916,665)	(33,666,429)	(9,749,764)
Net Income (Loss) before capital contributions	(3,297,106)	(14,503,803)	(11,206,697)
Capital Contributions			
Grants from US Government	41,680,829	71,318,838	29,638,009
Grants from GovGuam & Others	-	743,386	743,386
Total Capital Contributions	41,680,829	72,062,225	30,381,396
Change in Net Assets	38,383,723	57,558,421	19,174,699
Debt Service Calculation			
Earnings From Operations	20,619,559	19,162,626	
System Development Charge	(1,013,149)	(756,038)	
Retiree COLA	604,000	604,000	
Interest/Investment Income	273,645	274,980	
Depreciation	24,085,603	25,032,824	
Balance Available for Debt Service per Section 6.12	44,569,658	44,318,391	
Debt Service			
Principal	8,770,000	8,770,000	
Interest	25,405,188	25,405,188	
Total	34,175,188	34,175,188	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.30	1.30	
Debt Service Coverage (1.40X) inclusive of reserves (PUC)	1.30	1.30	

*Adjusted budget

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending September 30, 2020 and 2019

SCHEDULE E

	Year to Date Actual (Unaudited) September-20	Year to Date Actual (Audited) September-19	Variance Increase / (Decrease)
OPERATING REVENUES			
Water Revenues	66,131,935	67,982,760	(1,850,825)
Wastewater Revenues	34,655,406	39,646,673	(4,991,267)
Legislative Surcharge	3,162,771	3,563,032	(400,261)
Other Revenues	589,191	679,022	(89,830)
System Development Charge	756,038	885,513	(129,475)
Total Operating Revenues	105,295,342	112,757,001	(7,461,659)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	5,551,065	6,277,864	(726,799)
Power Purchases	14,118,145	16,150,781	(2,032,636)
Total Utility Costs	19,669,209	22,428,645	(2,759,436)
Salaries and Wages	20,744,654	19,336,814	1,407,840
Pension and Benefits	6,415,948	5,035,554	1,380,394
Total Salaries and Benefits	27,160,602	24,372,369	2,788,234
Capitalized Labor and Benefits	(3,993,300)	(3,342,006)	(651,294)
Net Salaries and Benefits	23,167,302	21,030,363	2,136,939
Administrative and General Expenses			
Sludge removal	1,277,885	1,333,887	(56,002)
Chemicals	1,817,213	2,451,801	(634,589)
Materials & Supplies	2,097,578	2,241,225	(143,647)
Transportation	606,260	783,560	(177,300)
Communications	153,371	161,837	(8,466)
Claims	134,529	196,334	(61,805)
Insurance	937,471	916,471	21,000
Training & Travel	137,912	331,577	(193,665)
Advertising	59,366	124,027	(64,660)
Miscellaneous	1,094,248	1,034,966	59,283
Regulatory Expense	317,344	268,597	48,747
Bad Debts Provision	2,033,768	2,217,121	(183,352)
Total Administrative and General Expense	10,666,946	12,061,402	(1,394,456)
Depreciation Expense	25,032,824	21,174,220	3,858,603
Contractual Expense			
Audit & Computer Maintenance	852,386	935,884	(83,498)
Building rental	440,879	423,622	17,257
Equipment rental	786,737	1,412,593	(625,856)
Legal	28,477	11,954	16,523
Laboratory	212,762	169,899	42,863
Other	2,113,844	2,991,527	(877,683)
Total Contractual Expense	4,435,085	5,945,478	(1,510,393)
Retiree Supp. Annuities and health care costs	2,557,350	1,667,681	889,670
Contribution to Government of Guam	604,000	600,000	4,000
Total Retiree Benefits	3,161,350	2,267,681	893,670
Total Operating Expenses	86,132,716	84,907,789	1,224,927
Earnings (Loss) from Operations	19,162,626	27,849,212	(8,686,586)
Interest Income - 2010/13/14/16/17/20 Series Bond	988,734	3,944,340	(2,955,606)
Interest Income - Other Funds	274,980	829,892	(554,913)
Interest Income - SDC	103,612	179,291	(75,679)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(27,392,688)	(25,591,358)	(1,801,330)
Interest Expense - ST BOG	(38,188)	(203,775)	165,587
Federal Expenditures	(277,667)	-	(277,667)
Loss on Asset Disposal	(3,678,963)	(2,698,053)	(980,910)
AFUDC	-	11,307,192	(11,307,192)
Amortization of Discount, Premium and Issuance Costs	(2,798,338)	1,437,028	(4,235,366)
Defeasance due to bond refunding	(931,275)	(834,407)	(96,867)
Prior Year Adjustment	83,363	(722,189)	805,552
Total non-operating revenues (expenses)	(33,666,429)	(12,352,037)	(21,314,392)
Net Income (Loss) before capital contributions	(14,503,803)	15,497,175	(30,000,978)
Capital Contributions			
Grants from US Government	71,318,838	21,610,198	49,708,640
Grants from GovGuam & Others	743,386	191,241	552,146
Total Capital Contributions	72,062,225	21,801,439	50,260,786
Change in Net Assets	57,558,421	37,298,613	20,259,808
Debt Service Calculation			
Earnings From Operations	19,162,626	27,849,212	
System Development Charge	(756,038)	(885,513)	
Retiree COLA	604,000	600,000	
Interest/Investment Income	274,980	829,892	
Depreciation	25,032,824	21,174,220	
Balance Available for Debt Service per Section 6.12	44,318,391	49,567,812	
Working Capital Reserve Available for Debt Service	-	11,563,736	
Transfer to Working Capital - Debt Service Reserve	-	-	
Transfer to Working Capital - O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	44,318,391	61,131,548	
Debt Service			
Principal	8,770,000	5,715,000	
Interest	25,405,188	25,653,415	
Total	34,175,188	31,368,415	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.30	1.58	
Debt Service Coverage (1.40X) (PUC)	1.30		
Debt Service Coverage (1.75X) inclusive of reserves (PUC)		1.95	

Guam Waterworks Authority **SCHEDULE F**
System Development Charges Project Status
As of September 30, 2020

		Total
Funding Summary		
Total available project funds	$	13,178,267
Total project expenditures and encumbrances		10,217,522
Total unobligated project funds	**$**	**2,960,745**

Projects Funded

Project Description	**Expenditures**	**Outstanding Encumbrances**	**Expenditures and Encumbrances**
Agat-Santa Rita Wastewater Treatment Plant Replacement	1,166,075	35,931	1,202,006
Baza Gardens Wastewater Cross Island Pumping & Conveyance	1,150,881	3,090	1,153,971
Central Guam Reservoirs		280,040	280,040
Line Replacement Phase IV		256,937	256,937
Northern DWWTP	13,798	5,408,801	5,422,599
Northern DWWTP (Land Purchase)	1,000,000		1,000,000
Route 4 Relief Sewerline Rehab & Replacement		399,869	399,869
South Paulino Heights Waterline Upgrade	84,056	4,714	88,770
Talofofo Sewer Improvement		241,142	241,142
Umatac Merizo WWTP		42,783	42,783
Groundwater Well Production Meter Rep.		129,405	129,405
	$ 3,414,811	**$ 6,802,711**	**$ 10,217,522**

Future planned projects	**FY2020**
Water Wells	1,500,000
Water Dist Sys Pipe Replacement & Upgrades	1,000,000
	$ 2,500,000

GUAM WATERWORKS AUTHORITY
Restricted and Unrestricted Cash Summary
FY2020

SCHEDULE G

Description	Unaudited September 30, 2020	Audited September 30, 2019	Increase (Decrease)
UNRESTRICTED			
Change Fund	2,000	2,000	-
Petty Cash	4,450	4,450	-
BOG Deposit Accounts	5,567,992	4,955,587	612,405
BOG O & M Reserve	25,689,390	13,933,323	11,756,067
BOG CapEx Fund	11,222,407	17,244,823	(6,022,416)
Sub-total Unrestricted	**42,486,239**	**36,140,182**	**6,346,057**
RESTRICTED			
ANZ Bank	-	19	(19)
Bank Pacific	29,243	12,321	16,922
Bank of Hawaii	191,250	220,158	(28,908)
Community First FCU	1,976	2,530	(554)
First Hawaiian Bank	43,451	11,761	31,690
Bank Pacific Surcharge	420,680	302,837	117,844
Bank Pacific Escrow Deposit	842,331	836,528	5,804
BOG Customer Refunds	2,063,361	1,871,553	191,808
BOG Emergency Reserve Fund	6,243	6,237	7
BOG Sewer Hookup Revolving Fund	67,809	67,094	714
BOG Subordinate Security Fund	-	859,233	(859,233)
BOG Operation and Maintenance Fund	3,083,482	3,083,482	-
BOG Revenue Trust	254,619	1,164,224	(909,604)
BOG Revenue Trust Fund	7,929,291	7,613,000	316,291
BOG Capital Improvement Revenue Fund	5,361,363	1,001,292	4,360,071
BOG Debt Service Reserve	-	11,563,736	(11,563,736)
	20,295,100	**28,616,004**	**(8,320,904)**
BOG - SDC Deposit	3,527,401	2,024,365	1,503,036
BOG - SDC CDs	6,250,000	7,250,000	(1,000,000)
Total SDC	**9,777,401**	**9,274,365**	**503,036**
Total Restricted	**30,072,502**	**37,890,369**	**(7,817,868)**
Reserve Funds			
BOG Series 2013 Construction Fund	8,647,934	14,170,759	(5,522,825)
BOG Series 2014 Refunding Construction Fund	219,099	217,448	1,651
BOG Series 2016 Construction Fund	68,518,206	89,235,554	(20,717,348)
BOG Series 2017 Refunding Construction Fund	6,206,732	6,313,750	(107,018)
BOG Series 2020A Construction Fund	123,277,054	-	123,277,054
BOG Series 2020A Capitalized Interest Fund	12,283,633	-	12,283,633
BOG Series 2020A Cost of Issuance Fund	50,382	-	50,382
B20B- BOG COI Fund 184000	-	-	-
Total Restricted - Held by Trustee	**219,203,039**	**109,937,511**	**109,265,527**
BOG OMRRRF Fund	17,423,213	17,423,213	-
USB Series 2013 Debt Service Fund	1,810,544	3,082,212	(1,271,668)
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Fund	1,048,374	1,885,637	(837,263)
USB Series 2014 Refunding Debt Service Reserve Fund	7,735,395	7,798,212	(62,817)
USB Series 2016 Debt Service Fund	2,815,863	1,946,774	869,088
USB Series 2016 Debt Service Reserve Fund	7,591,999	7,591,999	-
USB Series 2010 Debt Service Fund	31,556	523,353	(491,797)
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	1,902,205	1,382,329	519,876
USB Series 2020A Debt Service Fund	-	-	-
USB Series 2020A Debt Service Reserve Fund	6,659,700	-	6,659,700
Total Investments	**66,616,997**	**61,231,877**	**5,385,120**
Total Restricted and Unrestricted Cash	**358,378,776**	**245,199,940**	**113,178,836**

Guam Waterworks Authority
Accounts Receivable - Government (Active)
September 30, 2020

SCHEDULE H

		AGING					
Customer Name	**No. of Accounts**	**Current**	**31 - 60 days**	**61 - 90 days**	**91 - 120 days**	**Over 120 days**	**Total**
Autonomous Agencies (Active)							
Guam Int'l Airport Authority	7	$ 34,589	$ 14,545	$ 3,340	$ 6,144	$ 267,060	$ 325,678
Guam Power Authority	25	190,788	-	-	-	-	190,788
Guam Memorial Hospital Authority	3	4,161	13,856	-	-	-	18,017
Guam Housing & Urban Renewal Authority	9	9,171	618	-	-	-	9,790
Guam Visitors Bureau	5	3,938	1,329	-	-	-	5,266
Port Authority of Guam	1	2,740	-	-	-	-	2,740
Guam Housing Corporation	1	26	-	-	-	-	26
Total Autonomous Agencies	**51**	**$ 245,413**	**$ 30,347**	**$ 3,340**	**$ 6,144**	**$ 267,060**	**$ 552,305**
		44.43%	**5.49%**	**0.60%**	**1.11%**	**48.35%**	**100.00%**
Line Agencies							
Department of Education	52	$ 272,783	$ 216,053	$ 67,358	$ 11,185	$ 3,413	$ 570,792
Department of Corrections	8	77,977	63,604	-	-	-	141,581
Department of Parks & Recreation	18	42,368	46,062	18,409	5,023	10,631	122,493
Mayors Council of Guam	60	24,073	10,163	8,460	11,344	41,413	95,454
Department of Public Works	12	21,958	17,562	14,282	13,457	7,120	74,379
Department of Agriculture	6	5,413	4,930	8,440	6,225	3,456	28,463
Department of Chamorro Affairs	7	10,744	9,590	-	-	-	20,334
Guam Fire Department	11	5,601	5,637	1,184	-	-	12,422
Guam Police Department	8	5,549	3,439	10	-	-	8,998
Department of Public Health & Social Services	8	2,108	2,682	1,045	156	186	6,176
University of Guam	46	3,200	-	-	-	-	3,200
Department of Youth Affairs	3	1,307	1,153	-	-	-	2,461
Guam Solid Waste Authority	2	1,233	1,026	-	-	-	2,259
Superior Court of Guam	2	1,866	-	-	-	-	1,866
Guam Veterans Affairs office	2	422	502	425	227	269	1,845
Office of Technology	1	259	229	-	258	874	1,620
Sanctuary Inc	1	1,183	-	-	-	-	1,183
Division of Senior Citizens, DPH&SS	2	498	296	182	136	33	1,145
Office of Civil Defense	2	852	-	-	-	-	852
Department of Administration	2	296	308	-	111	-	714
Guam Public Library	6	338	191	-	-	-	529
Guam Energy office	1	253	232	-	-	-	485
Guam Enviromental Protection Agency	2	200	271	-	-	-	471
Department of Customs & Quarantine	1	389	-	-	-	-	389
Department of Agriculture-Fisheries	1	49	96	116	80	-	342
Department of Mental Health	2	294	-	-	-	-	294
Merizo Mayor	1	32	121	-	-	-	153
Judiciary of Guam	4	137	-	-	-	-	137
Agat Mayor's office	1	25	25	50	-	-	99
The Office of The Dededo Mayor	1	89	-	-	-	-	89
Vietnam Veterans of America	1	61	-	-	-	-	61
Department of Mental Health and Substance Abuse	1	25	-	-	-	-	25
Total Line Agencies	**275**	**$ 481,578**	**$ 384,173**	**$ 119,961**	**$ 48,203**	**$ 67,395**	**$ 1,101,310**
		43.73%	**34.88%**	**10.89%**	**4.38%**	**6.12%**	**100.00%**
Total as of September 30, 2020 (Active)	**326**	**$ 726,991**	**$ 414,520**	**$ 123,301**	**$ 54,346**	**$ 334,455**	**$ 1,653,614**
		43.96%	**25.07%**	**7.46%**	**3.29%**	**20.23%**	**100.00%**
Total as of September 30, 2019	**156**	**$ 573,245**	**$ 177,040**	**$ 36,359**	**$ 13,784**	**$ 390,725**	**$ 1,191,308**
	109%	**27%**	**134%**	**239%**	**294%**	**-14%**	**39%**

GUAM WATERWORKS AUTHORITY
Accounts Receivable Aging Summary by Rate Class **SCHEDULE I**
As of September 30, 2020

		AGING					
Rate Class	**No. of Accounts**	**Current**	**31 - 60 days**	**61 - 90 days**	**91 - 120 days**	**Over 120 days**	**Total**	
Government	441	$ 1,563,303	$ 377,409	$ 94,030	$ 41,113	$ 428,956	$ 2,504,809	12%
Agriculture	392	38,555	9,332	6,145	3,945	52,582	110,560	1%
Commercial I	2,646	1,203,203	158,684	46,224	24,699	429,380	1,862,190	9%
Commercial II	25	222,671	12,196	64,507	518	232,051	531,944	3%
Commercial III	297	580,210	33,083	30,670	23,116	335,605	1,002,684	5%
Golf Course	16	1,662	225	143	-	-	2,030	0%
Hotel	59	1,174,610	297,593	276,362	162,066	381,866	2,292,497	11%
Irrigation	33	5,189	2,022	209	135	384	7,939	0%
Residential	49,497	4,951,865	928,353	644,023	504,120	5,248,683	12,277,042	60%
	53,406	**9,741,268**	**1,818,898**	**1,162,312**	**759,713**	**7,109,506**	**20,591,694**	**100%**
		47%	**9%**	**6%**	**4%**	**35%**	**100%**	
						Less Allowance for Doubtful Accounts:	(8,027,857)	
						Net Accounts Receivable:	**12,563,838**	
						Days Receivables Outstanding	47	

As of August 31, 2020

		AGING					
Rate Class	**No. of Accounts**	**Current**	**31 - 60 days**	**61 - 90 days**	**91 - 120 days**	**Over 120 days**	**Total**	
Government	443	$ 2,553,351	$ 251,475	$ 106,082	$ 17,234	$ 428,841	$ 3,356,984	15%
Agriculture	394	38,896	13,302	6,589	2,340	53,343	114,470	1%
Commercial I	2,656	1,528,267	138,817	43,566	75,596	374,722	2,160,967	10%
Commercial II	25	310,403	86,650	547	469	235,950	634,019	3%
Commercial III	299	734,673	38,995	30,773	21,202	333,761	1,159,404	5%
Golf Course	16	4,709	682	143	143	-	5,677	0%
Hotel	58	1,693,179	312,818	172,427	141,493	276,267	2,596,184	12%
Irrigation	33	6,959	582	196	156	378	8,271	0%
Residential	49,275	4,631,341	987,250	644,097	437,812	5,103,687	11,804,185	54%
	53,199	**11,501,777**	**1,830,571**	**1,004,420**	**696,446**	**6,806,948**	**21,840,160**	**100%**
		53%	**8%**	**5%**	**3%**	**31%**	**100%**	
						Less Allowance for Doubtful Accounts:	(7,871,013)	
						Net Accounts Receivable:	**13,969,148**	
						Days Receivables Outstanding	49	

As of July 31, 2020

		AGING					
Rate Class	**No. of Accounts**	**Current**	**31 - 60 days**	**61 - 90 days**	**91 - 120 days**	**Over 120 days**	**Total**	
Government	442	$ 2,474,946	$ 447,624	$ 198,136	$ 14,795	$ 418,562	$ 3,554,064	17%
Agriculture	392	41,554	9,797	3,212	1,671	56,200	112,435	1%
Commercial I	2,658	1,309,462	64,086	109,216	28,675	358,564	1,870,004	9%
Commercial II	25	245,495	13,055	7,842	624	248,160	515,176	2%
Commercial III	299	618,409	39,722	29,358	20,121	319,855	1,027,463	5%
Golf Course	16	5,618	143	143	143	-	6,047	0%
Hotel	58	1,835,450	228,254	180,371	77,351	240,302	2,561,728	12%
Irrigation	34	5,439	535	156	139	3,281	9,550	0%
Residential	49,295	4,538,434	941,954	546,269	390,009	4,999,818	11,416,483	54%
	53,219	**11,074,807**	**1,745,170**	**1,074,704**	**533,529**	**6,644,741**	**21,072,951**	**100%**
		53%	**8%**	**5%**	**3%**	**32%**	**100%**	
						Less Allowance for Doubtful Accounts:	(7,707,823)	
						Net Accounts Receivable:	**13,365,128**	
						Days Receivables Outstanding	48	

GUAM WATERWORKS AUTHORITY
Accounts Payable Aging

SCHEDULE J

As of	AGING						Days Payable Outstanding
	Current	31 - 60 Days	61 - 90 Days	91 - 120 Days	> 120 Days	**Total**	
September 30, 2020	$ 1,801,089	$ 276,988	$ 195,387	$ 21,905	$ 413,403	**$ 2,708,771**	
	66%	10%	7%	1%	15%	**100%**	36
August 31, 2020	$ 2,023,852	$ 420,071	$ 269,636	$ 171,325	$ 307,076	**$ 3,191,960**	
	63%	13%	8%	5%	10%	**100%**	32
July 31, 2020	$ 1,918,387	$ 293,013	$ 401,262	$ 45,249	$ 363,358	**$ 3,021,269**	
	63%	10%	13%	1%	12%	**100%**	37

GUAM WATERWORKS AUTHORITY
WATER DEMAND BY RATE CLASS
FY2015 - FY2020

SCHEDULE K

CLASS		FY2015 TOTAL CONSUMPTION (kGal)	FY2016 TOTAL CONSUMPTION (kGal)		FY2017 TOTAL CONSUMPTION (kGal)	% Inc / (Dec.)	FY2018 TOTAL CONSUMPTION (kGal)	% Inc / (Dec.)	FY2019 TOTAL CONSUMPTION (kGal)	% Inc / (Dec.)	UNAUDITED FY2020 TOTAL CONSUMPTION (kGal)	% Inc / (Dec.)
R	Residential	3,415,662	3,429,689	0%	3,206,811	-6%	3,313,613	3%	3,359,905	1%	3,712,723	11%
C	Commercial	1,020,089	1,022,890	0%	964,639	-6%	910,905	-6%	906,192	-1%	822,029	-9%
F	Federal	1,168	1,180	1%	2,508	113%	1,813	-28%	1,602	-12%	1,338	-16%
G	Government	515,974	475,366	-8%	448,430	-6%	450,165	0%	405,980	-10%	408,502	1%
H	Hotel	999,116	1,008,087	1%	1,004,525	0%	989,723	-1%	1,079,919	9%	714,161	-34%
G	Golf	6,850	6,770	-1%	5,252	-22%	2,741	-48%	2,793	2%	5,835	109%
A	Agriculture	67,376	78,628	17%	69,482	-12%	81,127	17%	90,803	12%	84,492	-7%
I	Irrigation	10,385	11,351	9%	10,143	-11%	8,504	-16%	7,896	-7%	8,654	10%
	GRAND TOTAL	6,036,620	6,033,960	0%	5,711,790	-5%	5,758,590	1%	5,855,091	2%	5,757,733	-2%

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives"

Financial Statement Overview
October 2020

During the month of October, the number of COVID-19 positive tests were over 2,000 and there were 30 COVID-related fatalities reported. Executive Order 2020-38 extended the public health emergency from October 30, 2020 to November 29, 2020. In early November, the Governor introduced the *Strive for Five* campaign to bring down our CAR (COVID Area Risk) score from 9.8 to 5 or less in hopes of moving the community towards some semblance of normalcy by Christmas. However, due to large clusters of positive cases in the construction industry, Department of Public Health has called a temporary shutdown of construction activities beginning November 14.

Due to a COVID positive case, Fadian and Julale lobbies as well as the Fadian drive thru were closed on October 21; Fadian reopened on October 22 and Julale reopened on October 27. Additional disinfection methods are being used in our facilities as precautionary measures. Except for the temporary closures, GWA cashier and customer service representative stations continue to be open to the public. Operations employees have been reporting to work observing safety precautions, while most other employees are teleworking.

Separately, the PAY GPWA application was down for several days between October 13 and October 15. GPA worked with the vendor to get the application back up quickly. The temporary office closures as well as the issues with the application are likely to have contributed to the decreased collections in October. October collections were 82% of September.

About a third of customers prefer to make payments in person. Using social media, GWA continues to encourage customers to conduct business online or via the phone. As part of this effort, GWA joined the *Going Online Together* campaign in June with several other organizations. Additionally, GWA has launched a pilot automated customer service online support portal on its website; BBMR recently provided approval for additional CARES funding to customize this portal.

On April 28th, CCU Resolution 24-FY2020 granted the lifting of credit card limits on payments for non-residential accounts. Below is a summary of payments made and related fees exceeding the limit.

Month	Customer Count	Amount Paid	Fees	% of Fees to Payments
May 2020	18	$22,011	$543	2.46%
June 2020	21	$34,919	$702	2.01%
July 2020	35	$53,191	$1,069	2.01%
August 2020	32	$59,558	$1,197	2.01%
September 2020	34	$71,656	$1,441	2.01%
October 2020	33	$62,173	$1,250	2.01%

October 2020 water consumption was 7% below October 2019 and October 2020 wastewater flows were 6% below October 2019. While water demand in the residential and commercial 1 customer classes were 17% and 9% higher than prior year, these increases were not sufficient to offset

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives"

decreases across the other commercial customer classes. Similarly, the increases in wastewater flows for the residential and commercial 1 categories of 5% and 17% were not sufficient to offset decreases in wastewater flows in other commercial customer classes.

Schools continue to remain closed during PCOR 1. This impacts demand as GDOE has been one of GWA's top ten customers for both water and wastewater services. See Schedule K for Water Demand for FY2015 to FY2020.

As revenues are monitored, the cost containment plans will be put in place as needed. While sufficient cash reserves are in place, management will continue to assess the situation and make any course corrections required to ensure continuity of services to our customers while keeping the safety of our staff the highest priority.

Balance Sheet

- Total Assets & Deferred Outflows of Resources of $1.128B in September 2020 decreased by $2.7M or less than 1% to $1.125B in October 2020. Current Assets decreased by $3.1M due to reductions in cash and federal receivables. Property, Plant and Equipment decreased by $1.7M as accumulated depreciation increases outpaced increases in plant. Other Noncurrent Assets increased by $2.2M due to increase in investment balances. Schedule G contains a schedule of restricted and unrestricted cash and investments.
- Liabilities & Deferred Inflow of Resources of $868.8M in September 2020 decreased by $1.7M or less than 1% to $867.1M in October 2020 primarily due to reductions in contractors payable.
- Accounts Receivable days were 49 in October 2020 as compared to 47 in September 2020 and Accounts Payable days were 36 in October 2020 and in September 2020.

Statement of Operations and Retained Earnings

- Total Operating Revenues for October 2020 of $8.2M were 14% or $1.3M less than budget and 9% or $839K less than October 2019 due to the impact of the COVID-19 public health emergency and offset by the 5% increase effective in March. The 5% increase in October 2020 will be reflected in November 2020.
- Total Operating Expenses for October 2020 of $6.6M were $842K or 11% higher than budget. Total Operating Expenses for October 2020 were 6% or $434.4K less than October 2019 with decreases in most expense categories except for depreciation and retiree benefits.
- Earnings from Operations for October 2020 of $1.5M were 23% or $462K less than budget and 21% or $405K less than October 2019. Change in Net Assets for October 2020 of -$973K were $3.8M less than the $2.8M budget mainly due to $3.3M less in Grants and $1.2M less than October 2019 due to $772K more in Non-Operating Expenses.

On October 27, 2020, GWA received reports on the rebate liability due to arbitrage for the various GWA bonds. No liability exists to date.

The work on the FY22 budget has begun with the issuance of the budget call documents. Several virtual meetings have been conducted to walk thru the forms. The submission will cover three years

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives"

as the budgets will be part of the comprehensive update and review scheduled for May 2021. Work on the analytical studies are well underway and include:

1. Demand Forecast
2. Water Loss Reduction
3. Cost-of-Service Analysis
4. Affordability Study / Rate Design
5. Alternative Capital Financing
6. Capitalized Labor
7. Cesspool / Septic Tank Elimination

Key Financial Indicators

Indicator	Target	September 2020	October 2020
DSC YTD			
• Per Section 6.12 of Indenture	1.25	1.30	1.38
• Per PUC / CCU	1.40	1.30	1.38
Days – Cash on Hand	120 days	311 days	271 days
Collection Ratio			
• Month to Date	99%	114%	90%
• Year to Date	99%	99%	90%
Days Billed	30 days	30 days	30 days
Account Receivable Days	30 days	47 days	49 days
Account Payable Days	45 days	36 days	36 days
Employee Count	400 FTE	379 FTE	376 FTE
Water Demand			
• Month to Date	478,754	472,192	435,500
• Year to Date	478,754	5,757,733	435,500
Wastewater Flow			
• Month to Date	356,472	306,686	316,069
• Year to Date	356,472	4,032,564	316,069
Water Customers	42,839	42,838	42,919
Wastewater Customers	29,805	29,363	29,259

GUAM WATERWORKS AUTHORITY
October 31, 2020
FINANCIAL AND RELATED REPORTS
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GUAM WATERWORKS AUTHORITY
Balance Sheet
October 31, 2020

SCHEDULE A

ASSETS AND DEFERRED OUTFLOWS of RESOURCES	Unaudited October 31, 2020	Unaudited September 30, 2020	Increase (Decrease)
Current Assets			
Cash			
Unrestricted (Schedule G)	41,965,590	42,486,239	(520,649)
Restricted Funds (Schedule G)	29,152,503	30,072,502	(919,999)
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of $8,188,997 at Oct 31, 2020 and $8,027,857 at Sep 30, 2020	13,057,305	12,563,838	493,467
Federal Receivable	5,757,232	7,755,755	(1,998,524)
Other Receivable	894,315	888,495	5,821
Materials & Supplies Inventory, Net of Allowance for Obsolescence of $64,131 at Oct 31, 2020 and $64,131 at Sep 30, 2020	4,686,192	4,804,463	(118,271)
Total Current Assets	95,513,136	98,571,292	(3,058,154)
Property, Plant and Equipment			
Utility plant in service			
Water system	378,522,120	378,420,144	101,976
Wastewater system	480,533,485	480,533,485	-
Non-utility property	25,752,939	25,752,939	-
Total property	884,808,544	884,706,567	101,976
Less: Accumulated Depreciation	(345,230,369)	(343,112,883)	(2,117,486)
Land	5,240,187	5,240,187	-
Construction Work in Progress	144,596,788	144,253,876	342,911
Property, Plant and Equipment, net	689,415,150	691,087,749	(1,672,599)
Other noncurrent assets and deferred charges			
Restricted cash (Schedule G)	218,235,796	219,203,039	(967,243)
Investments (Schedule G)	69,312,354	66,616,997	2,695,357
Other Prepaid Expenses	3,128,988	2,615,782	513,206
Regulatory Assets	430,962	430,962	-
Total other noncurrent assets and deferred charges	291,108,099	288,866,779	2,241,320
Total Assets	1,076,036,385	1,078,525,819	(2,489,433)
Deferred outflows of resources			
Debt defeasance due to bond refunding	33,179,704	33,351,801	(172,097)
Deferred outflows from pension	9,057,499	9,057,499	-
Deferred outflows from OPEB	6,982,196	6,982,196	-
Total Assets and Deferred Outflows of Resources	**1,125,255,785**	**1,127,917,316**	**(2,661,530)**
LIABILITIES, DEFERRED INFLOWS of RESOURCES AND NET ASSETS			
Current Liabilities			
Current maturities of long-term debt			
Series 2013 Revenue Bond	2,990,000	2,695,000	295,000
Series 2014 Refunding Bond	530,000	3,760,000	(3,230,000)
Series 2016 Revenue Bond	3,860,000	420,000	3,440,000
Series 2017 Refunding Bond	2,040,000	-	2,040,000
Accounts Payable -Trade	3,033,906	2,708,771	325,134
Accrued and Other Liabilities	950,721	1,239,059	(288,337)
Interest Payable	8,864,237	6,304,598	2,559,639
Accrued Payroll and Employee Benefits	506,745	354,780	151,966
Current portion of employee annual leave	521,641	616,114	(94,473)
Contractors' Payable	17,969,749	22,218,745	(4,248,996)
Customer and Other Deposits	2,168,130	2,199,462	(31,332)
Total Current Liabilities	43,435,129	42,516,529	918,601
Long Term Debt, less current maturities			
Series 2013 Revenue Bond	24,350,000	24,645,000	(295,000)
Series 2014 Refunding Bond	64,610,000	61,380,000	3,230,000
Series 2016 Revenue Bond	139,030,000	142,470,000	(3,440,000)
Series 2017 Refunding Bond	105,325,000	107,365,000	(2,040,000)
Series 2020A Revenue Bond	134,000,000	134,000,000	-
Series 2020B Refunding Bond	166,075,000	166,075,000	-
Unamortized Bond Premium/Discount	42,359,174	42,515,523	(156,349)
Net pension liability	49,593,171	49,593,171	-
Net OPEB obligation	62,656,405	62,656,405	-
Employee Annual Leave, Less Current Portion	1,273,668	1,179,195	94,473
Employee Sick Leave	1,226,702	1,226,702	-
Total Liabilities	833,934,249	835,622,524	(1,688,275)
Deferred inflows of resources:			
Deferred inflows from pension	1,444,744	1,444,744	-
Deferred inflows from OPEB	31,758,062	31,758,062	-
Total Liabilities and Deferred Inflows of Resources	867,137,055	868,825,330	(1,688,275)
Net Assets	**258,118,729**	**259,091,985**	**(973,256)**
Total Liabilities, Deferred Inflows of Resources and Net Assets	**1,125,255,784**	**1,127,917,316**	**(2,661,531)**

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings **SCHEDULE B**
Comparative Budget vs. Actual for the period ending October 31, 2020

	Month to Date		Variance
	Budget* October-20	Actual (Unaudited) October-20	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,863,373	5,240,912	(622,462)
Wastewater Revenues	3,226,426	2,580,033	(646,393)
Legislative Surcharge	274,214	236,103	(38,111)
Other Revenues	35,895	16,911	(18,984)
System Development Charge	77,442	99,777	22,335
Total Operating Revenues	9,477,350	8,173,736	(1,303,614)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	718,609	500,000	218,609
Power Purchases	1,082,131	988,701	93,430
Total Utility Costs	1,800,740	1,488,701	312,039
Salaries and Wages	1,769,221	1,547,161	222,060
Pension and Benefits	606,991	588,460	18,531
Total Salaries and Benefits	2,376,212	2,135,621	240,591
Capitalized Labor and Benefits	(308,333)	(332,775)	24,442
Net Salaries and Benefits	2,067,879	1,802,846	265,032
Administrative and General Expenses			
Sludge removal	131,907	134,485	(2,578)
Chemicals	196,696	124,795	71,901
Materials & Supplies	182,935	86,379	96,557
Transportation	37,298	34,136	3,162
Communications	14,528	7,333	7,195
Claims	5,181	-	5,181
Insurance	76,685	78,330	(1,645)
Training & Travel	29,321	-	29,321
Advertising	11,346	4,671	6,675
Miscellaneous	89,396	80,563	8,833
Regulatory Expense	24,155	8,958	15,196
Bad Debts Provision	139,113	161,138	(22,025)
Total Administrative and General Expense	938,561	720,787	217,773
Depreciation Expense	1,855,919	2,117,486	(261,567)
Contractual Expense			
Audit & Computer Maintenance	92,904	94,319	(1,415)
Building rental	41,352	37,471	3,881
Equipment rental	87,524	27,387	60,137
Legal	563	-	563
Laboratory	35,382	7,500	27,882
Other	267,774	80,658	187,116
Total Contractual Expense	525,500	247,335	278,164
Retiree Supp. Annuities and health care costs	233,386	201,273	32,113
Contribution to Government of Guam	48,546	50,333	(1,787)
Total Retiree Benefits	281,932	251,606	30,326
Total Operating Expenses	7,470,530	6,628,762	841,768
Earnings (Loss) from Operations	2,006,820	1,544,973	(461,846)
Interest Income - 2010/13/14/16/17/20 Series Bond	128,299	2,118	(126,181)
Interest Income - Other Funds	29,550	600	(28,950)
Interest Income - SDC	2,488	7,981	5,494
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,638,329)	(2,559,639)	78,690
Interest Expense - ST BOG	-	-	-
Federal Expenditures	-	27,176	27,176
Amortization of Discount, Premium and Issuance Costs	(23,078)	154,599	177,677
Defeasance due to bond refunding	(22,439)	(172,097)	(149,658)
Total non-operating revenues (expenses)	(2,523,508)	(2,539,263)	(15,755)
Net Income (Loss) before capital contributions	(516,688)	(994,290)	(477,601)
Capital Contributions			
Grants from US Government	3,311,071	13,928	(3,297,143)
Grants from GovGuam & Others	-	7,106	7,106
Total Capital Contributions	3,311,071	21,034	(3,290,038)
Change in Net Assets	2,794,383	(973,256)	(3,767,639)
Debt Service Calculation			
Earnings From Operations	2,006,820	1,544,973	
System Development Charge	(77,442)	(99,777)	
Retiree COLA	48,546	50,333	
Interest/Investment Income	29,550	600	
Depreciation	1,855,919	2,117,486	
Balance Available for Debt Service per Section 6.12	3,863,393	3,613,615	
Debt Service			
Principal	772,500	772,500	
Interest	1,996,663	1,847,251	
Total	2,769,163	2,619,751	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.40	1.38	
Debt Service Coverage (1.40X) inclusive of reserves (PUC)	1.40	1.38	

*Adjusted budget

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending October 31, 2020 and 2019

SCHEDULE C

	Month to Date Actual (Unaudited) October-20	Month to Date Actual (Unaudited) October-19	Variance Increase / (Decrease)
OPERATING REVENUES			
Water Revenues	5,240,912	5,501,092	(260,181)
Wastewater Revenues	2,580,033	3,127,997	(547,964)
Legislative Surcharge	236,103	284,855	(48,752)
Other Revenues	16,911	36,908	(19,997)
System Development Charge	99,777	62,188	37,589
Total Operating Revenues	8,173,736	9,013,040	(839,305)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	500,000	600,000	(100,000)
Power Purchases	988,701	1,331,315	(342,614)
Total Utility Costs	1,488,701	1,931,315	(442,614)
Salaries and Wages	1,547,161	1,660,996	(113,835)
Pension and Benefits	588,460	547,099	41,361
Total Salaries and Benefits	2,135,621	2,208,095	(72,474)
Capitalized Labor and Benefits	(332,775)	(275,716)	(57,059)
Net Salaries and Benefits	1,802,846	1,932,379	(129,533)
Administrative and General Expenses			
Sludge removal	134,485	118,005	16,480
Chemicals	124,795	129,604	(4,809)
Materials & Supplies	86,379	118,168	(31,789)
Transportation	34,136	31,896	2,240
Communications	7,333	13,813	(6,480)
Insurance	78,330	77,860	470
Training & Travel	-	12,076	(12,076)
Advertising	4,671	1,284	3,386
Miscellaneous	80,563	50,066	30,497
Regulatory Expense	8,958	11,353	(2,394)
Bad Debts Provision	161,138	130,494	30,644
Total Administrative and General Expense	720,787	694,618	26,169
Depreciation Expense	2,117,486	1,928,015	189,471
Contractual Expense			
Audit & Computer Maintenance	94,319	57,738	36,581
Building rental	37,471	35,302	2,170
Equipment rental	27,387	57,880	(30,493)
Legal	-	600	(600)
Laboratory	7,500	22,907	(15,407)
Other	80,658	162,600	(81,942)
Total Contractual Expense	247,335	337,027	(89,692)
Retiree Supp. Annuities and health care costs	201,273	189,510	11,763
Contribution to Government of Guam	50,333	50,334	(1)
Total Retiree Benefits	251,606	239,844	11,762
Total Operating Expenses	6,628,762	7,063,198	(434,436)
Earnings (Loss) from Operations	1,544,973	1,949,842	(404,869)
Interest Income - 2010/13/14/16/17/20 Series Bond	2,118	229,627	(227,509)
Interest Income - Other Funds	600	59,794	(59,194)
Interest Income - SDC	7,981	13,191	(5,210)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,559,639)	(2,117,099)	(442,540)
Interest Expense - ST BOG	-	(3,336)	3,336
Federal Expenditures	27,176	-	27,176
Amortization of Discount, Premium and Issuance Costs	154,599	119,970	34,629
Defeasance due to bond refunding	(172,097)	(68,976)	(103,121)
Total non-operating revenues (expenses)	(2,539,263)	(1,766,829)	(772,434)
Net Income (Loss) before capital contributions	(994,290)	183,013	(1,177,303)
Capital Contributions			
Grants from US Government	13,928	-	13,928
Grants from GovGuam & Others	7,106	-	7,106
Total Capital Contributions	21,034	-	21,034
Change in Net Assets	(973,256)	183,013	(1,156,269)
Debt Service Calculation			
Earnings From Operations	1,544,973	1,949,842	
System Development Charge	(99,777)	(62,188)	
Retiree COLA	50,333	50,334	
Interest/Investment Income	600	59,794	
Depreciation	2,117,486	1,928,015	
Balance Available for Debt Service per Section 6.12	3,613,615	3,925,797	
Working Capital Reserve Available for Debt Service	-	965,043	
Transfer to Working Capital - Debt Service Reserve	-	-	
Transfer to Working Capital - O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	3,613,615	4,890,840	
Debt Service			
Principal	772,500	730,833	
Interest	1,847,251	2,117,099	
Total	2,619,751	2,847,932	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.38	1.38	
Debt Service Coverage (1.40X) (PUC)	1.38		
Debt Service Coverage (1.75X) inclusive of reserves (PUC)		1.72	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings **SCHEDULE D**
Comparative Budget vs. Actual for the period ending October 31, 2020

	Year to Date Budget* October-20	Year to Date Actual (Unaudited) October-20	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,863,373	5,240,912	(622,462)
Wastewater Revenues	3,226,426	2,580,033	(646,393)
Legislative Surcharge	274,214	236,103	(38,111)
Other Revenues	35,895	16,911	(18,984)
System Development Charge	77,442	99,777	22,335
Total Operating Revenues	9,477,350	8,173,736	(1,303,614)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	718,609	500,000	218,609
Power Purchases	1,082,131	988,701	93,430
Total Utility Costs	1,800,740	1,488,701	312,039
Salaries and Wages	1,769,221	1,547,161	222,060
Pension and Benefits	606,991	588,460	18,531
Total Salaries and Benefits	2,376,212	2,135,621	240,591
Capitalized Labor and Benefits	(308,333)	(332,775)	24,442
Net Salaries and Benefits	2,067,879	1,802,846	265,032
Administrative and General Expenses			
Sludge removal	131,907	134,485	(2,578)
Chemicals	196,696	124,795	71,901
Materials & Supplies	182,935	86,379	96,557
Transportation	37,298	34,136	3,162
Communications	14,528	7,333	7,195
Claims	5,181	-	5,181
Insurance	76,685	78,330	(1,645)
Training & Travel	29,321	-	29,321
Advertising	11,346	4,671	6,675
Miscellaneous	89,396	80,563	8,833
Regulatory Expense	24,155	8,958	15,196
Bad Debts Provision	139,113	161,138	(22,025)
Total Administrative and General Expense	938,561	720,787	217,773
Depreciation Expense	1,855,919	2,117,486	(261,567)
Contractual Expense			
Audit & Computer Maintenance	92,904	94,319	(1,415)
Building rental	41,352	37,471	3,881
Equipment rental	87,524	27,387	60,137
Legal	563	-	563
Laboratory	35,382	7,500	27,882
Other	267,774	80,658	187,116
Total Contractual Expense	525,500	247,335	278,164
Retiree Supp. Annuities and health care costs	233,386	201,273	32,113
Contribution to Government of Guam	48,546	50,333	(1,787)
Total Retiree Benefits	281,932	251,606	30,326
Total Operating Expenses	7,470,530	6,628,762	841,768
Earnings (Loss) from Operations	2,006,820	1,544,973	(461,846)
Interest Income - 2010/13/14/16/17/20 Series Bond	128,299	2,118	(126,181)
Interest Income - Other Funds	29,550	600	(28,950)
Interest Income - SDC	2,488	7,981	5,494
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,638,329)	(2,559,639)	78,690
Federal Expenditures	-	27,176	27,176
Amortization of Discount, Premium and Issuance Costs	(23,078)	154,599	177,677
Defeasance due to bond refunding	(22,439)	(172,097)	(149,658)
Total non-operating revenues (expenses)	(2,523,508)	(2,539,263)	(15,755)
Net Income (Loss) before capital contributions	(516,688)	(994,290)	(477,601)
Capital Contributions			
Grants from US Government	3,311,071	13,928	(3,297,143)
Grants from GovGuam & Others	-	7,106	7,106
Total Capital Contributions	3,311,071	21,034	(3,290,038)
Change in Net Assets	2,794,383	(973,256)	(3,767,639)
Debt Service Calculation			
Earnings From Operations	2,006,820	1,544,973	
System Development Charge	(77,442)	(99,777)	
Retiree COLA	48,546	50,333	
Interest/Investment Income	29,550	600	
Depreciation	1,855,919	2,117,486	
Balance Available for Debt Service per Section 6.12	3,863,393	3,613,615	
Debt Service			
Principal	772,500	772,500	
Interest	1,996,663	1,847,251	
Total	2,769,163	2,619,751	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.40	1.38	
Debt Service Coverage (1.40X) inclusive of reserves (PUC)	1.40	1.38	

*Adjusted budget

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending October 31, 2020 and 2019

SCHEDULE E

	Year to Date Actual (Unaudited) October-20	Year to Date Actual (Unaudited) October-19	Variance Increase / (Decrease)
OPERATING REVENUES			
Water Revenues	5,240,912	5,501,092	(260,181)
Wastewater Revenues	2,580,033	3,127,997	(547,964)
Legislative Surcharge	236,103	284,855	(48,752)
Other Revenues	16,911	36,908	(19,997)
System Development Charge	99,777	62,188	37,589
Total Operating Revenues	8,173,736	9,013,040	(839,305)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	500,000	600,000	(100,000)
Power Purchases	988,701	1,331,315	(342,614)
Total Utility Costs	1,488,701	1,931,315	(442,614)
Salaries and Wages	1,547,161	1,660,996	(113,835)
Pension and Benefits	588,460	547,099	41,361
Total Salaries and Benefits	2,135,621	2,208,095	(72,474)
Capitalized Labor and Benefits	(332,775)	(275,716)	(57,059)
Net Salaries and Benefits	1,802,846	1,932,379	(129,533)
Administrative and General Expenses			
Sludge removal	134,485	118,005	16,480
Chemicals	124,795	129,604	(4,809)
Materials & Supplies	86,379	118,168	(31,789)
Transportation	34,136	31,896	2,240
Communications	7,333	13,813	(6,480)
Insurance	78,330	77,860	470
Training & Travel	-	12,076	(12,076)
Advertising	4,671	1,284	3,386
Miscellaneous	80,563	50,066	30,497
Regulatory Expense	8,958	11,353	(2,394)
Bad Debts Provision	161,138	130,494	30,644
Total Administrative and General Expense	720,787	694,618	26,169
Depreciation Expense	2,117,486	1,928,015	189,471
Contractual Expense			
Audit & Computer Maintenance	94,319	57,738	36,581
Building rental	37,471	35,302	2,170
Equipment rental	27,387	57,880	(30,493)
Legal	-	600	(600)
Laboratory	7,500	22,907	(15,407)
Other	80,658	162,600	(81,942)
Total Contractual Expense	247,335	337,027	(89,692)
Retiree Supp. Annuities and health care costs	201,273	189,510	11,763
Contribution to Government of Guam	50,333	50,334	(1)
Total Retiree Benefits	251,606	239,844	11,762
Total Operating Expenses	6,628,762	7,063,198	(434,436)
Earnings (Loss) from Operations	1,544,973	1,949,842	(404,869)
Interest Income - 2010/13/14/16/17/20 Series Bond	2,118	229,627	(227,509)
Interest Income - Other Funds	600	59,794	(59,194)
Interest Income - SDC	7,981	13,191	(5,210)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,559,639)	(2,117,099)	(442,540)
Interest Expense - ST BOG	-	(3,336)	3,336
Federal Expenditures	27,176	-	27,176
Amortization of Discount, Premium and Issuance Costs	154,599	119,970	34,629
Defeasance due to bond refunding	(172,097)	(68,976)	(103,121)
Total non-operating revenues (expenses)	(2,539,263)	(1,766,829)	(772,434)
Net Income (Loss) before capital contributions	(994,290)	183,013	(1,177,303)
Capital Contributions			
Grants from US Government	13,928	-	13,928
Grants from GovGuam & Others	7,106	-	7,106
Total Capital Contributions	21,034	-	21,034
Change in Net Assets	(973,256)	183,013	(1,156,269)
Debt Service Calculation			
Earnings From Operations	1,544,973	1,949,842	
System Development Charge	(99,777)	(62,188)	
Retiree COLA	50,333	50,334	
Interest/Investment Income	600	59,794	
Depreciation	2,117,486	1,928,015	
Balance Available for Debt Service per Section 6.12	3,613,615	3,925,797	
Working Capital Reserve Available for Debt Service	-	965,043	
Transfer to Working Capital - Debt Service Reserve	-	-	
Transfer to Working Capital - O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	3,613,615	4,890,840	
Debt Service			
Principal	772,500	730,833	
Interest	1,847,251	2,117,099	
Total	2,619,751	2,847,932	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.38	1.38	
Debt Service Coverage (1.40X) (PUC)	1.38		
Debt Service Coverage (1.75X) inclusive of reserves (PUC)		1.72	

Guam Waterworks Authority **SCHEDULE F**
System Development Charges Project Status
As of October 31, 2020

Funding Summary

Total available project funds	$	12,769,639
Total project expenditures and encumbrances		10,439,324
Total unobligated project funds	**$**	**2,330,315**

Projects Funded

Project Description	Expenditures	Outstanding Encumbrances	Expenditures and Encumbrances
Agat-Santa Rita Wastewater Treatment Plant Replacement	1,202,006	-	1,202,006
Baza Gardens Wastewater Cross Island Pumping & Conveyance	1,150,881	3,090	1,153,971
Central Guam Reservoirs	-	280,040	280,040
Line Replacement Phase IV	-	256,937	256,937
Northern DWWTP	19,409	5,403,190	5,422,599
Northern DWWTP (Land Purchase)	1,000,000	-	1,000,000
Route 4 Relief Sewerline Rehab & Replacement	72,836	527,033	599,869
South Paulino Heights Waterline Upgrade	84,056	4,714	88,770
Talofofo Sewer Improvement	-	241,142	241,142
Umatac Merizo WWTP	-	42,783	42,783
Groundwater Well Production Meter Rep.	-	151,207	151,207
	$ 3,529,188	**$ 6,910,137**	**$ 10,439,324**

Future planned projects	FY2020
Water Wells	1,500,000
Water Dist Sys Pipe Replacement & Upgrades	1,000,000
	$ 2,500,000

GUAM WATERWORKS AUTHORITY
Restricted and Unrestricted Cash Summary
FY2021

SCHEDULE G

Description	Unaudited October 31, 2020	Unaudited September 30, 2020	Increase (Decrease)
UNRESTRICTED			
Change Fund	2,000	2,000	-
Petty Cash	4,450	4,450	-
BOG Deposit Accounts	5,308,653	5,567,992	(259,339)
BOG O & M Reserve	25,689,630	25,689,390	240
BOG CapEx Fund	10,960,857	11,222,407	(261,550)
Sub-total Unrestricted	**41,965,590**	**42,486,239**	**(520,649)**
RESTRICTED			
ANZ Bank	1,611	-	1,611
Bank Pacific	28,529	29,243	(714)
Bank of Hawaii	311,982	191,250	120,732
Community First FCU	-	1,976	(1,976)
First Hawaiian Bank	29,420	43,451	(14,031)
Bank Pacific Surcharge	628,083	420,680	207,402
Bank Pacific Escrow Deposit	842,359	842,331	28
BOG Customer Refunds	2,069,752	2,063,361	6,391
BOG Emergency Reserve Fund	6,243	6,243	-
BOG Sewer Hookup Revolving Fund	68,217	67,809	409
BOG Operation and Maintenance Fund	3,162,172	3,083,482	78,690
BOG Revenue Trust	419,646	254,619	165,027
BOG Revenue Trust Fund	6,097,362	7,929,291	(1,831,929)
BOG Capital Improvement Revenue Fund	5,595,647	5,361,363	234,284
BOG Debt Service Reserve	-	-	-
	19,261,024	**20,295,100**	**(1,034,076)**
BOG - SDC Deposit	3,641,479	3,527,401	114,077
BOG - SDC CDs	6,250,000	6,250,000	-
Total SDC	**9,891,479**	**9,777,401**	**114,077**
Total Restricted	**29,152,503**	**30,072,502**	**(919,999)**
Reserve Funds			
BOG Series 2013 Construction Fund	8,356,545	8,647,934	(291,389)
BOG Series 2014 Refunding Construction Fund	219,101	219,099	2
BOG Series 2016 Construction Fund	68,356,562	68,518,206	(161,643)
BOG Series 2017 Refunding Construction Fund	5,759,546	6,206,732	(447,185)
BOG Series 2020A Construction Fund	123,209,925	-	123,209,925
BOG Series 2020A Capitalized Interest Fund	12,283,734	123,277,054	(110,993,320)
BOG Series 2020A Cost of Issuance Fund	50,382	12,283,633	(12,233,251)
B20B- BOG COI Fund 184000	-	50,382	(50,382)
Total Restricted - Held by Trustee	**218,235,796**	**219,203,039**	**(967,243)**
BOG OMRRRF Fund	17,423,213	17,423,213	-
USB Series 2013 Debt Service Fund	1,632,978	1,810,544	(177,566)
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Fund	1,363,963	1,048,374	315,588
USB Series 2014 Refunding Debt Service Reserve Fund	7,735,600	7,735,395	205
USB Series 2016 Debt Service Fund	3,732,918	2,815,863	917,055
USB Series 2016 Debt Service Reserve Fund	7,591,999	7,591,999	-
USB Series 2010 Debt Service Fund	31,556	31,556	-
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	2,519,568	1,902,205	617,363
USB Series 2020A Debt Service Reserve Fund	6,659,700	6,659,700	-
USB Series 2020B Debt Service Reserve Fund	1,022,711	-	
Total Investments	**69,312,354**	**66,616,997**	**1,672,646**
Total Restricted and Unrestricted Cash	**358,666,242**	**358,378,776**	**(735,245)**

Guam Waterworks Authority
Accounts Receivable - Government (Active)
October 31, 2020

SCHEDULE H

		AGING					
Customer Name	**No. of Accounts**	**Current**	**31 - 60 days**	**61 - 90 days**	**91 - 120 days**	**Over 120 days**	**Total**
Autonomous Agencies (Active)							
Guam Int'L Airport Authority	7	$ 39,880	$ 34,589	$ 14,545	$ 9,484	$ 266,795	$ 365,292
Guam Power Authority	25	207,565	6,726	-	-	-	214,291
Guam Housing & Urban Renewal Authority	9	18,890	1,040	618	-	-	20,548
Guam Memorial Hospital Authority	3	4,513	2,498	8,676	-	-	15,687
Guam Visitors Bureau	1	3,047	-	-	-	-	3,047
Port Authority Of Guam	5	1,256	-	-	-	-	1,256
Total Autonomous Agencies	**50**	**$ 275,151**	**$ 44,853**	**$ 23,839**	**$ 9,484**	**$ 266,795**	**$ 620,122**
		44.37%	**7.23%**	**3.84%**	**1.53%**	**43.02%**	**100.00%**
Line Agencies							
Department Of Education	52	$ 335,751	$ 235,086	$ 216,053	$ 67,367	$ 14,589	$ 868,846
Mayors Council Of Guam	60	27,987	12,697	10,163	8,460	50,753	110,061
Department Of Parks & Recreation	11	41,086	6,427	2,309	3,273	7,021	60,115
Department Of Public Works	12	43,275	454	446	59	7,135	51,369
Department Of Agriculture	6	7,133	5,413	4,930	8,440	9,681	35,597
Department Of Corrections	8	24,233	146	-	-	-	24,380
Department Of Chamorro Affairs	7	9,495	10,317	-	-	-	19,811
Department Of Military Affairs/GUARNG	1	15,991	-	-	-	-	15,991
Guam Police Department	8	6,450	4,174	3,439	10	-	14,073
Guam Fire Department	11	6,394	-	-	-	-	6,394
Department Of Public Health & Social Services	8	1,997	1,605	924	196	289	5,011
University Of Guam	46	3,504	-	-	-	-	3,504
Sanctuary Inc	1	2,970	-	-	-	-	2,970
Guam Solid Waste Authority	2	2,556	-	-	-	-	2,556
Guam Veterans Affairs Office	2	1,125	422	446	317	137	2,447
Department Of Youth Affairs	3	983	1,252	-	-	-	2,236
Office Of Technology	1	369	259	229	258	874	1,989
Office Of The Governor	2	1,949	-	-	-	-	1,949
Department Of Administration	2	943	296	308	-	-	1,547
Office Of Civil Defense	2	496	852	-	-	-	1,348
Division Of Senior Citizens, DPHSS	2	323	181	169	170	-	843
Guam Energy Office	1	491	-	232	-	-	724
Department Of Mental Health	2	684	-	-	-	-	684
Department Of Agriculture-Fisheries	1	63	49	96	116	80	405
Department Of Customs & Quarantine	1	389	-	-	-	-	389
Guam Police Department	1	264	-	-	-	-	264
Office of the Merizo Mayor	1	69	32	121	-	-	222
Office of the Dededo Mayor	1	129	89	-	-	-	218
Guam Public Library	6	213	-	-	-	-	213
Guam Enviromental Protection Agency	2	185	-	-	-	-	185
Vietnam Veteran Of America	1	58	-	-	-	-	58
Agat Mayor's Office	1	26	25	-	-	-	50
Department Of Mental Health And Substance	1	29	-	-	-	-	
Total Line Agencies	**265**	**$ 537,582**	**$ 279,775**	**$ 239,866**	**$ 88,666**	**$ 90,561**	**$ 1,236,449**
		43.48%	**22.63%**	**19.40%**	**7.17%**	**7.32%**	**100.00%**
Total as of October 31, 2020 (Active)	**315**	**$ 812,733**	**$ 324,628**	**$ 263,705**	**$ 98,150**	**$ 357,355**	**$ 1,856,570**
		43.78%	**17.49%**	**14.20%**	**5.29%**	**19.25%**	**100.00%**

GUAM WATERWORKS AUTHORITY
Accounts Receivable Aging Summary by Rate Class **SCHEDULE I**
As of October 31, 2020

Rate Class	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
		A G I N G						
Government	442	$ 2,076,414	$ 350,109	$ 267,483	$ 72,521	$ 462,846	$ 3,229,373	15%
Agriculture	393	34,429	10,798	4,100	5,455	52,969	107,751	1%
Commercial I	2,639	1,240,193	142,384	63,256	25,449	445,969	1,917,251	9%
Commercial II	27	185,366	11,054	12,133	53,438	224,368	486,359	2%
Commercial III	297	657,981	86,795	21,374	22,136	348,961	1,137,246	5%
Golf Course	16	1,629	225	-	-	-	1,853	0%
Hotel	59	1,201,198	128,151	264,775	10,820	612,251	2,217,194	10%
Irrigation	33	4,861	354	1,503	206	347	7,270	0%
Residential	49,551	4,682,998	952,329	640,453	479,715	5,386,509	12,142,004	57%
	53,457	**10,085,068**	**1,682,199**	**1,275,077**	**669,740**	**7,534,220**	**21,246,303**	**100%**
		47%	**8%**	**6%**	**3%**	**35%**	**100%**	
						Less Allowance for Doubtful Accounts:	(8,188,997)	
						Net Accounts Receivable:	**13,057,307**	
						Days Receivables Outstanding	49	

As of September 30, 2020

Rate Class	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
		A G I N G						
Government	441	$ 1,524,645	$ 377,409	$ 94,030	$ 41,113	$ 428,956	$ 2,466,151	12%
Agriculture	392	38,555	9,332	6,145	3,945	52,582	110,560	1%
Commercial I	2,646	1,203,203	158,684	46,224	24,699	429,380	1,862,190	9%
Commercial II	25	222,671	12,196	64,507	518	232,051	531,944	3%
Commercial III	297	580,210	33,083	30,670	23,116	335,605	1,002,684	5%
Golf Course	16	1,662	225	143	-	-	2,030	0%
Hotel	59	1,174,610	297,593	276,362	162,066	381,866	2,292,497	11%
Irrigation	33	5,189	2,022	209	135	384	7,939	0%
Residential	49,497	4,951,865	928,353	644,023	504,120	5,248,683	12,277,044	60%
	53,406	**9,702,610**	**1,818,898**	**1,162,312**	**759,713**	**7,109,506**	**20,553,038**	**100%**
		46%	**9%**	**5%**	**4%**	**33%**	**97%**	
						Less Allowance for Doubtful Accounts:	(8,027,857)	
						Net Accounts Receivable:	**12,525,182**	
						Days Receivables Outstanding	47	

As of August 31, 2020

Rate Class	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
		A G I N G						
Government	443	$ 2,553,351	$ 251,475	$ 106,082	$ 17,234	$ 428,841	$ 3,356,984	15%
Agriculture	394	38,896	13,302	6,589	2,340	53,343	114,470	1%
Commercial I	2,656	1,528,267	138,817	43,566	75,596	374,722	2,160,967	10%
Commercial II	25	310,403	86,650	547	469	235,950	634,019	3%
Commercial III	299	734,673	38,995	30,773	21,202	333,761	1,159,404	5%
Golf Course	16	4,709	682	143	143	-	5,677	0%
Hotel	58	1,693,179	312,818	172,427	141,493	276,267	2,596,184	12%
Irrigation	33	6,959	582	196	156	378	8,271	0%
Residential	49,275	4,631,341	987,250	644,097	437,812	5,103,687	11,804,185	54%
	53,199	**11,501,777**	**1,830,571**	**1,004,420**	**696,446**	**6,806,948**	**21,840,160**	**100%**
		53%	**8%**	**5%**	**3%**	**31%**	**100%**	
						Less Allowance for Doubtful Accounts:	(7,871,013)	
						Net Accounts Receivable:	**13,969,148**	
						Days Receivables Outstanding	49	

GUAM WATERWORKS AUTHORITY
Accounts Payable Aging

SCHEDULE J

As of	**AGING**						
	Current	31 - 60 Days	61 - 90 Days	91 - 120 Days	> 120 Days	**Total**	Days Payable Outstanding
October 31, 2020	$ 1,807,095	$ 595,144	$ 53,223	$ 201,973	$ 376,471	**$ 3,033,906**	
	60%	20%	2%	7%	12%	**100%**	36
September 30, 2020	$ 1,801,089	$ 276,988	$ 195,387	$ 21,905	$ 413,403	**$ 2,708,771**	
	66%	10%	7%	1%	15%	**100%**	36
August 31, 2020	$ 2,023,852	$ 420,071	$ 269,636	$ 171,325	$ 307,076	**$ 3,191,960**	
	63%	13%	8%	5%	10%	**100%**	32

GUAM WATERWORKS AUTHORITY
WATER DEMAND BY RATE CLASS
FY2015 - FY2021

SCHEDULE K

CLASS		AUDITED FY2015 TOTAL CONSUMPTION (kGal)	FY2016 TOTAL CONSUMPTION (kGal)	FY2017 TOTAL CONSUMPTION (kGal)	FY2018 TOTAL CONSUMPTION (kGal)	FY2019 TOTAL CONSUMPTION (kGal)	% Inc / (Dec.)	UNAUDITED FY2020 TOTAL CONSUMPTION (kGal)	% Inc / (Dec.)	FY2021 TOTAL CONSUMPTION (kGal)	% Inc / (Dec.)
R	Residential	3,415,662	3,429,689	3,206,811	3,313,613	3,359,905	1%	3,712,723	11%	3,670,943	-1%
C	Commercial	1,020,089	1,022,890	964,639	910,905	906,192	-1%	822,029	-9%	695,538	-15%
F	Federal	1,168	1,180	2,508	1,813	1,602	-12%	1,338	-16%	1,996	49%
G	Government	515,974	475,366	448,430	450,165	405,980	-10%	408,502	1%	405,225	-1%
H	Hotel	999,116	1,008,087	1,004,525	989,723	1,079,919	9%	714,161	-34%	392,291	-45%
G	Golf	6,850	6,770	5,252	2,741	2,793	2%	5,835	109%	1,688	-71%
A	Agriculture	67,376	78,628	69,482	81,127	90,803	12%	84,492	-7%	50,268	-41%
I	Irrigation	10,385	11,351	10,143	8,504	7,896	-7%	8,654	10%	8,054	-7%
	GRAND TOTAL	6,036,620	6,033,960	5,711,790	5,758,590	5,855,091	2%	5,757,733	-2%	5,226,003	-9%

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. 03-FY2021
Relative to Contract Approval for the Asan-Adelup-Hagatna, Route 1 – Sewer Rehabilitation and Replacement Phase II Project S-15-002-EPA Construction Contract with Core Tech-Hawaiian Dredging, LLC.

What is the project's objective and is it necessary and urgent?
The objective of this project is to improve the sewer collection system, which includes rehabilitating, repairing and/or replacing sewer manholes and gravity sewer lines along Route 1 from Adelup to Hagatna. These sewer infrastructure elements have been identified by GWA, through a Sanitary Sewer Evaluation Survey. Successful completion of this project will result in proper maintenance and operation of the sewer collection system and USEPA agrees that efforts to rehabilitate, repair or replace the sewer lines are necessary.

Where is the project located?
This project is located along Route 1, from Adelup to the Agana Main Pump Station in Hagatna at the Chamorro Village. Construction activities will be limited to the government easements or the sewer infrastructure elements.

How much will it cost?
The project was bid with multiple bid items and GWA has elected to award the project for the Base Bid and all Additive Bid items, 1 through 6, at a total construction cost of Eight Million Seven Hundred Forty-Two Thousand Four Hundred Eight Dollars and Sixty-Two Cents ($8,742,408.62). This contract amount, which is primarily based on unit pricing, includes the furnishing of all labor, tools, equipment and materials, and agency coordination needed to complete the sewer infrastructure replacement in the aforementioned locations.

GWA management is also seeking a ten percent (10%) contingency of Eight Hundred Seventy-Four Thousand Two Hundred Forty Dollars and Eighty-Six Cents ($847,240.86), to bring the total authorized funding amount to Nine Million Six Hundred Sixteen Thousand Six Hundred Forty-Nine Dollars and Forty-Eight Cents ($9,616,649.48) for the project.

When will it be completed?
The construction contract length of this project is 785 calendar days. Estimated completion of construction is the end of 2022.

What is the funding source?
The funding for this project will be from USEPA SRF Grant Funds and, if necessary, GWA Bond Funds with a maximum project budget of Nine Million Six Hundred Sixteen Thousand Six Hundred Forty-Nine Dollars and Forty-Eight Cents ($9,616,649.48).

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

RESOLUTION NO. 03–FY2021

RELATIVE TO CONTRACT APPROVAL FOR THE ASAN-ADELUP-HAGATNA, ROUTE 1 SEWER REHABILITATION AND REPLACEMENT PHASE II PROJECT S15-002-EPA

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

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

WHEREAS, GWA has received a grant from USEPA under the State Revolving Fund program to improve the sewer collection system, which included gravity sewer line along Route 1, from the Asan "War in the Pacific" National Historical Park to the Agaña Main Pump Station; and

WHEREAS, the stretch of gravity sewer line indicated is deteriorating, which included approximately 1,700 linear feet of gravity sewer line along Route 1 in Adelup, and over 6,900 linear feet in Hagatna, and the intent of this project is to rehabilitate, repair or replace the identified piping from Adelup to Hagatna; and

WHEREAS, GWA and USEPA agree that efforts to rehabilitate, repair or replace these sewer lines are necessary to properly maintain and operate the sewer collection system, and the first effort needed to do so was through the general civil engineering, geotechnical engineering, and archeological investigation for wastewater collection system evaluation, analysis and design; and

WHEREAS, in June 2015 GWA Management began the procurement process to find a consulting engineering team to design the sewer rehabilitation and replacement, and via Resolution No. 02-FY2016, approved by the CCU in October 2015, GWA Management was authorized to enter into a contract with HDR Engineering, Inc. (HDR) to design the sewer rehabilitation and replacement; and

WHEREAS, in December of 2015 GWA Management entered into a contract with HDR to design the sewer rehabilitation and replacement, and in April of 2017 the final design for Phase I was completed; and

WHEREAS, due to funding limitations, the full scope of work for construction of the Rt.1 Sewer Rehabilitation and Replacement Project was divided into phases such that Phase 1 construction was awarded to InfraTech International LLC, from Asan to the Asan Pump Station, through Invitation for Re-Bid No. IFB-11-ENG-2017 (GWA Project No. S15-002-EPA) and a contract was issued to InfraTech International LLC on November 8, 2018; and

WHEREAS, on March 24, 2020, GWA awarded Change Order No. 7 to increase the funding for the HDR design contract to an amount of One Million Nine Hundred Ninety-Four Thousand Five Hundred Fifty-Five Dollars ($1,994,555.00) to prepare construction bid documents for the Asan-Adelup-Hagatna, Route 1 Sewer Rehabilitation and Replacement Phase II; and

WHEREAS, on June 16, 2020, GWA advertised the Invitation to Bid (IFB-06-ENG-2020) for the Asan-Adelup-Hagatna, Route 1 Sewer Rehabilitation and Replacement Phase II soliciting bid proposals from experienced and responsive bidders to repair and/or replace segments of gravity sewer lines and manholes from Adelup to Hagatna; and

WHEREAS, IFB packages were obtained by eleven (11) interested parties, from which GWA received bid proposals from four (4) parties (SEE EXHIBIT A – Abstract of Bids) before the bid proposal deadline; and

WHEREAS, GWA Engineering, the Project Manager and the Engineer evaluated the proposals received on September 3, 2020 and determined that the lowest apparent bidder for the

Base Bid and all Additive Bids failed to meet the bid requirements established in the IFB packages; and,

WHEREAS, GWA rejected the lowest apparent bidder pursuant to 2 GAR §3115(e)(3) and 2 GAR §3116(b)(5) due to inadequate qualifications needed to perform this work on September 10, 2020 (SEE EXHIBIT B – ProPacific Builder Corporation Rejection Letter); and

WHEREAS, GWA Engineering, the Project Manager and the Engineer determined that HDCC Guam, LLC was the second lowest bidder and that their bid was responsive and responsible and met all the bid requirements set forth by GWA (See EXHIBIT C – Recommendation Letter from HDR dated October 19, 2020); and

WHEREAS, GWA Engineering, the Project Manager and the Engineer reviewed the HDCC Guam, LLC Additive Bids and determined that the Base Bid and all Additive Bids 1 through 6 provided the best combination of bid options and is within the available grant funding; and

WHEREAS, GWA Management finds HDCC Guam, LLC's bid proposal for The Base Bid and Additive Bids 1 through 6 acceptable; and

WHEREAS, GWA Management seeks CCU approval of HDCC Guam, LLC's bid proposal for the Base Bid and Additive bids 1 through 6 in the amount of Eight Million Seven Hundred Forty-Two Thousand Four Hundred Eight Dollars and Sixty-Two Cents **(**$8,742,408.62), plus a ten percent (10%) contingency of Eight Hundred Seventy-Four Thousand Two Hundred Forty Dollars and Eighty-Six Cents **(**$847,240.86), to bring the total authorized funding amount to Nine Million Six Hundred Sixteen Thousand Six Hundred Forty-Nine Dollars and Forty-Eight Cents ($9,616,649.48); and

WHEREAS, funding for this project will be from the USEPA State Revolving Funds and, if necessary, GWA Bond funds with an estimated project budget of Eight Million Seven Hundred Forty-Two Thousand Four Hundred Eight Dollars and Sixty-Two Cents ($8,742,408.62); 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 bid proposal submitted by HDCC Guam, LLC are fair and reasonable.
3. The CCU hereby authorizes the management of GWA to accept the bid proposal from HDCC Guam, LLC for the Base Bid and all Additive Bids 1 through 6.
4. The CCU hereby further authorizes the management of GWA to enter into a contract with HDCC Guam, LLC in the amount of Eight Million Seven Hundred Forty-Two Thousand Four Hundred Eight Dollars and Sixty-Two Cents **(**$8,742,408.62).
5. The CCU hereby further approves the funding total of Eight Million Seven Hundred Forty-Two Thousand Four Hundred Eight Dollars and Sixty-Two Cents **(**$8,742,408.62), plus a ten percent (10%) contingency of Eight Hundred Seventy-Four Thousand Two Hundred Forty Dollars and Eighty-Six Cents **(**$847,240.86), to bring the total authorized funding amount to Nine Million Six Hundred Sixteen Thousand Six Hundred Forty-Nine Dollars and Forty-Eight Cents ($9,616,649.48).
6. The CCU hereby approves the use of USEPA State Revolving Funds and, if necessary, GWA Bond funds as the funding source.
7. The CCU further approves management to duly notify the PUC that this contract will exceed One Million Dollars ($1,000,000.00), and is funded primarily by USEPA State Revolving Funds and, if necessary, GWA Bond Funds.

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

DULY AND REGULARLY ADOPTED, this 24th day of November, 2020.

Certified by:

_____

JOSEPH T. DUENAS
Chairperson

Attested by:

_____

MICHAEL T. LIMTIACO
Secretary

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:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAIN: _____

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EXHIBIT A

GUAM WATERWORKS AUTHORITY

Project Name: **ASAN-ADELUP-HAGATNA, ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT -PHASE II**
Project Number: S15-002-EPA IFB NO.: IFB-06-ENG-2020

Virtual Bid Opening Date: September 3, 2020
Time: 3:00 PM

ABSTRACT OF BIDS

	BIDDERS NAME	Section A-5 Bid Bond	CERTIFICATIONS								ADDENDUM					BID AMOUNT							
			Bidder Qualification Statement	Non-Collusion Affidavit	Equal Employment Opportunity	Non-Segregated Facilities	Non-Employment of Sexual Offenders	Wage & Benefit Determination	Shareholders Affidavit	Special Instruction to Bidders	1	2	3	4	5	BASE BID	ADDITIVE BID NO. 1	ADDITIVE BID NO. 2	ADDITIVE BID NO. 3	ADDITIVE BID NO. 4	ADDITIVE BID NO. 5	ADDITIVE BID NO. 6	GRAND TOTAL (Base Bid + Additive Bid 1 -6)
1.	INFRATECH INTERNATIONAL LLC	Safe Co. Insurance Co. of Am. 15% OF accompanying Bid	√	√	√	√	√	√	√	√	√	√	√	√	√	$6,534,440.24	$1,568,918.68	$1,562,730.85	$1,537,379.86	$991,277.70	$855,580.20	$678,130.63	$13,764,258.08
2.	PROPACIFIC BUILDER CORP.	Aioi Nissay Dowa Ins. Co. Ltd. 15% OF total Bid Amount	√	√	√	√	√	√	√	√	√	√	√	√	√	$4,699,227.00	$1,087,093.02	$935,832.00	$945,244.00	$396,910.00	$540,410.00	$278,924.00	$8,884,440.00
3.	HDCC GUAM LLC	Zurich American Ins. Co. 15% OF BID AMOUNT	√	√	√	√	√	√	√	√	√	√	√	√	√	$5,287,826.00	$762,430.00	$699,530.00	$599,809.00	$397,961.00	$511,391.00	$492,481.00	$8,742,408.00
4.	INSITUFORM TECHNOLOGIES LLC	NO BID																					
5.	SUMITOMO MITSUI CONSTRUCTION	NO BID																					
6.	MOCON CORPORATION	Cashiers Check 15% of BID	√	√	√	√	√	√	√	√	√	√	√	√	√	$5,920,072.50	$590,466.75	$542,162.00	$668,119.00	$324,295.00	$677,000.00	$251,230.00	$8,973,345.25
7.	MICHAELS CORPORATION	NO BID																					
8.	IAN CORPORATION	NO BID																					
9.	GIANT CONSTRUCTION CORPORATION	NO BID																					
10.	PACIFIC RIM CONSTRUCTION INC.	NO BID																					
11.	GAB / HES	NO BID																					
	GWA Engineer's Estimate															$ 4,301,383.00	$ 978,894.00	$ 910,497.00	$ 889,817.00	$ 368,464.00	$ 505,605.00	$ 384,601.00	$ 8,339,261.00

Bids Opened and Read by:
GLORIA B. BANSAN
(Name and Signature)

Tabulated By:
LEILANI LUNCHANGCO
(Name and Signature)

GWA Procurement Representative:
ROLAND LUMONGSUD
(Name and Signature)

Witnesses:
Diran, John A.

EXHIBIT B

GUAM WATERWORKS AUTHORITY
Gloria B. Nelson Public Service Building | 688 Route 15, Mangilao, Guam 96913
P.O. Box 3010, Hagatna, Guam 96932
Tel. No. (671) 300-6846

September 28, 2020

Jean Yeon Yu, President
ProPacific Builder Corporation
750 Route 8
Suite 202, Hanam Plaza
Barrigada, GU 96913

Project: IFB-06-ENG-2020
Asan-Adelup-Hagatna, Route 1 Sewer Rehabilitation and Replacement – Phase II
GWA Project No. S13-002-EPA – Bid Rejection

Hafa Adai Ms. Yu,

Thank you for submitting your bid of the subject project on September 3, 2020 and for the additional information provided to GWA in ProPacific Builder Corporation's (PPBC) letters to GWA dated September 17, 2020 and September 21, 2020. GWA regrets to inform you that we must reject PPBC's bid pursuant to 2 GAR §3115(e)(3) and 2 GAR §3116(b)(5). Based on the information provided in the bid and supplemental letters, PPBC and your proposed subcontractors do not have the cured in-place pipe (CIPP) lining experience required by the bid documents. For this reason, we consider PPBC a non-responsive and un-qualified bidder. Therefore, we are hereby returning your bid security (i.e., Bid Bond).

As stated in the Project Specifications that were included in the bid package, specifically Section 00200, Instructions to Bidders, Article 12.03 and Article 19.03, the contractor was required to submit to GWA for evidence of the Contractors experience qualifications for the specialty CIPP work in accordance with Section 30 01 30.72 or 33 01 30.73, Section 1.5, Items A and B. Based upon the information provided in the two referenced letters from PPBC to GWA, GWA has determined that the qualifications criteria established in the bid documents have not been met by PPBC and your proposed subcontractor for the following:

1. Specification 33 01 30.72 or 33 01 30.73, Section 1.5, Item B, successful installation of a cumulative total of 100,000 linear feet and/or 300 line segments of CIPP liner into sewer main host pipes of 18-inch or larger diameter.

GWA appreciates your interest and encourages your company to continue to participate in future GWA procurements.

Should you have any questions, please do not hesitate to contact our legal counsel Kelly Clark at 300-6853.

Sincerely,

MIGUEL C. BORDALLO, P.E.
General Manger

Cc: Kelly Clark, GWA Legal Counsel
Barbara Cruz, P.E., GWA Chief Engineer, Acting
Kurt Bilz, Brown and Caldwell

EXHIBIT C

October 19, 2020

Mrs. Barbara Cruz, P.E.
Acting Chief Engineer
The Guam Waterworks Authority
Engineering Division
Gloria B. Nelson Public Service Building
688 Rt. 15
Mangilao, Guam 96913

SUBJECT: Asan-Adelup-Hagatna, Route 1 Sewer Line Rehabilitation and Replacement – Phase II, Recommendation of Bid Award, GWA Project No. S15-002-EPA

Dear Mrs. Cruz,

HDR has reviewed the four (4) bid submissions submitted for the Phase II bid for the Asan-Adelup-Hagatna Sewer Line Rehabilitation and Replacement project from the following construction contractors:

1. Core-Tech-Hawaiian Dredging, LLC
2. Infratech International, LLC
3. Mocon
4. ProPacific Builder Corporation

All bid submissions included all of the required bidding forms to be submitted as part of the bid package. All bonding requirements have been met by all contractors.

The bid schedules for all contractors were tabulated, reviewed and are included herein with this letter for your review. The following observations were made while tabulating each Contractor's bid:

Core-Tech-Hawaiian Dredging, LLC:

1. The bid form supplied by Core-Tech-Hawaii Dredging, has several mathematical calculation errors in the base bid and all additive bids. Per the Instructions to Bidders, Article 14.01, Item C, the sum total for a unit price bid item shall favor the unit prices provided. In the included bid tabulation provided with this letter, the unit prices were held and multiplied against the quantities that were provided in the bid schedule and the new totals were calculated. These values have been highlighted in yellow in the included bid tabulation for easy reference and below is a summary table of the results of the submitted bid vs. the revised calculated bid amounts:

hdrinc.com

134 W. Soledad Ave., Suite 404, Hagatna, GU 96910
T 671.989.5558 **F** 671.989.5557

Summary of Revised Calculated Bid Amounts			
Bid Type	**Submitted Bid Amount**	**Calculated Bid Amount**	**Difference**
Base Bid	$5,287,826.00	$5,287,828.67	$2.67
Additive Bid #1	$763,430.00	$763,427.66	-$2.34
Additive Bid #2	$693,530.00	$693,525.04	-$4.96
Additive Bid #3	$589,809.00	$589,818.25	$9.25
Additive Bid #4	$397,961.00	$397,956.70	-$4.30
Additive Bid #5	$511,371.00	$511,370.58	-$0.42
Additive Bid #6	$498,481.00	$498,481.72	$0.72
Grand Total of Base + All Additive Bids	$8,742,408.00	$8,742,408.62	$0.62

2. The supplied project experience that was submitted by the Contractor and more specifically their sub-contractor, Michels Corporation, was insufficient to verify the qualifications against Specification 33 01 30.72 or 33 01 30.73, Section 1.5, Items A and B. In a letter, dated October 6, 2020 from GWA, these deficiencies were stated in more detail and the request for additional information was returned by Core Tech – Hawaiian Dredging on October 13, 2020. This additional information was found to be adequate and has met all of the requested additional information. In summary, here are the finding of this additional requested information:
    a. Contractor qualifications for Michels Corporation as required by Specification 33 01 30.72 or Specification 33 01 30.73, Section 1.5, Item A. A total of 206,575 linear feet of 18 inches or greater of sewer line was submitted, however only the following projects submitted have been able to be confirmed, but still meet the minimum requirements of the specifications:

Summary of Projects Verified			
Project Name	**Total LF Listed**	**Total LF Confirmed**	**Notes**
Notice No. 128-1-2014 Sanitary Sewer Mains Lining & Repair	2,852	2.852	Confirmed, but did not provide further details
Notice No. 145-1-2015 Sanitary & Storm Sewer Main Lining	4,012	4,012	Confirmed, but did not provide further details
Lining of Sanitary Transmission Main	7,339	7,339	-
Notice 18-1-2016 Combined Sewer Main Lining	5,348	5,348	Confirmed, but did not provide further details
Cured-in-Place Pipe Rehabilitation 2016, Project No. 101-016	3,800	3,743	Nathan was the staff engineer/inspector for the project. He confirmed 3,743 LF for the project

Summary of Projects Verified Cont'd			
Project Name	**Total LF Listed**	**Total LF Confirmed**	**Notes**
Bloomington Interceptor Rehabilitation Project, #808060	6,100	9,200	Confirmed additional 2,000 LF of 27" and 1,100 LF of 42"
Notice No. 5-1-2017 Combined Sewer Main Relay & Combined Sewer Lining	3,373	3,373	Confirmed, but didn't provide details.
C2017-22 Sanitary and Storm Sewer Lining	3,170	3,700	Confirmed and additional 480 LF of 24" and 50 LF of 30"
Scanlon Interceptor Fiberglass Pipe Rehabilitation Project	4,767	4,767	Confirmed with satisfactory work.
SPIS 8566-370 and 7705 Rehabilitation, Contract No. 17P355	7,362	7,362	Confirmed
Belcher Brook Interceptor Sewer Rehabilitation (Contract 2018-11)	8,775	8,755	-
Project CIP 3001 19, Sanitary and Storm Sewer CIPP Lining	3,401	3,401	-
GWA Interceptor Sewer Refurbishment Project, Northern District, Project No. 518-003-0EA	44,356	44,356	-
Total CIPP	**104,655**	**108,228**	**-**

b. Contractor personnel qualifications for Michels Corporation, as required by Specification 33 01 30.72 or Specification 33 01 30.73, Section 1.5, Item B were found to have met the requirements. The submitted resumes for Jason Gubin, Clayton Muenchmeyer and Aljhon Aler have found to be acceptable and meet all the requirements of the specifications and should be the minimum personnel conducting the work for the subject project.

3. The base bid provided is much higher than the engineer's estimate, however the additive bid items bid amounts were found to be within reason of the engineer's estimate and in most cases were found to be lower.

Infratech International, LLC:

1. The bid form supplied by Infratech International, has several mathematical calculation errors in the base bid and all additive bids. Per the Instructions to Bidders, Article 14.01, Item C, the sum total for a unit price bid item shall favor the unit prices provided. In the included bid tabulation provided with this letter, the unit prices were held and multiplied against the quantities that were

provided in the bid schedule and the new totals were calculated. These values have been highlighted in yellow in the included bid tabulation for easy reference and below is a summary table of the results of the submitted bid vs. the revised calculated bid amounts:

Summary of Revised Calculated Bid Amounts			
Bid Type	**Submitted Bid Amount**	**Calculated Bid Amount**	**Difference**
Base Bid	$6,534,440.24	$6,534,440.41	$0.17
Additive Bid #1	$1,568,718.60	$1,568,718.60	$0.00
Additive Bid #2	$1,562,730.85	$1,565,730.85	$3,000.00
Additive Bid #3	$1,537,379.86	$1,537,379.86	$0.00
Additive Bid #4	$991,277.70	$991,277.70	$0.00
Additive Bid #5	$855,580.20	$855,580.20	$0.00
Additive Bid #6	$678,130.63	$678,130.63	$0.00
Grand Total of Base + All Additive Bids	$13,764,258.08	$13,767,258.25	$3,000.17

2. Overall, the bid prices submitted by Infratech International, LLC are higher than all other bidders for this project and all additive bids are approximately 2-3 times higher than all other bidders.
3. Because Infratech International, LLC was not the lowest bidder or next to lowest bidder, an exhaustive verification of contractor qualification or personnel experience, as related to the specification requirements, was not conducted.

Mocon:

1. The supplied bid forms contained no errors that can be found. All bid prices tabulated match the supplied bid forms. All other bid documents that were required of the bid submission were provided also.
2. The base bid provided is much higher than the engineer's estimate, however the additive bid items bid amounts were found to be within reason to the provided engineer's estimate or in most cases found to lower.
3. Because Mocon was not the lowest bidder or next to lowest bidder, an exhaustive verification of contractor qualification or personnel experience, as related to the specification requirements, was not conducted.

ProPacific Builder Corporation:

1. The supplied bid forms contained no errors that can be found. All bid prices tabulated match the supplied bid forms.
2. ProPacific Builder Corporation submitted the lowest bid, therefore additional confirmation that the contractor met the requirements of the specifications was conducted. It was determined that the bid submitted did not contain all of the information needed, therefore GWA sent a letter dated September 10, 2020 requesting for additional information. This additional information was received in a letter dated September 17, 2020 and the findings of this information was deficient in either verifying the information against the requirements of the specifications or was deficient in meeting the requirements of the specifications. A subsequent letter from GWA for additional

information, dated September 17, 2020, was provided to ProPacific for specific information and a response was provided on September 21, 2020 to this request. After reviewing the information that was submitted, summarized below are the findings of that information:

a. The September 17, 2020 response letter confirmed that Tunnel Vision Pipeline Services would be executing 100% of the CIPP work on the subject project. The documentation provided in the September 21, 2020 letter to verify Tunnel Vision Pipeline Services meets the requirements of Specification 33 01 30.72 or 33 01 30.73, Section 1.5, Item A, shows the project qualification experience was not for Tunnel Vision Pipeline Services, but was for a company named Abel Recon Alpha Liner. Although for a separate company, the total linear footage of projects listed that showed CIPP installed on sewer lines 18 inches and larger only totaled 8,076 linear feet from the listed projects. This total falls below the required 100,000 linear feet of the specification requirements. No total pipe segments were given and no further validation of these linear footages were provided.
b. Contractor personnel qualifications for ProPacific as required by Specification 33 01 30.72 or Specification 33 01 30.73, Section 1.5, Item B was found to be deficient. The personnel shown to be associated with Tunnel Vision Pipeline Services did not contain any staff that met the minimum requirements for the CIPP supervisor. In response to GWA letters, ProPacific provided a resume for a Mr. Mike Mills, which states that he is the Operations Manager for IPR Great Lakes and not employed with Tunnel Vision Pipeline Services and the resume did not list any projects that show that Mr. Mills meets the minimum requirements of the specifications. In review of all of the documentation provided by ProPacific and Mr. Mills resume, the only connection that could be made is that Mr. Mills shows that he worked for Abel Recon Alpha Liner and the project listings for this company showed Mr. Mills as the foreman, therefore the only reasonable conclusion that could be made is that Mr. Mills only has 8,076 linear feet of CIPP experience on sewer lines 18 inches or larger, as was stated in item a., above. Therefore, ProPacific's submission appears to not meet the minimum personnel qualifications for the CIPP supervisor.

Listed below is a summary table of the various bid options and their respective totals for all bidders:

Summary of Revised Calculated Bid Amounts				
Bid Type	**Core Tech-Hawaiian Dredging, LLC**	**Infratech International, LLC**	**Mocon**	**ProPacific Builder Corporation**
Base Bid	$5,287,828.67	$6,534,424.10	$5,920,072.50	$4,669.227.00
Additive Bid #1	$763,427.66	$1,558,718.60	$590,666.75	$1,087,893.00
Additive Bid #2	$693,525.04	$1,565,730.85	$542,162.00	$935,832.00
Additive Bid #3	$589,818.25	$1,537,379.86	$668,119.00	$945,244.00
Additive Bid #4	$397,956.70	$991,277.70	$324,295.00	$396,910.00
Additive Bid #5	$511,370.58	$855,580.20	$677,000.00	$540,410.00
Additive Bid #6	$498,481.72	$678,130.63	$251,230.00	$278,924.00
Grand Total of Base + All Additive Bids	$8,742,408.62	$13,767,241.94	$8,973,545.25	$8,884,440.00

The basis of award for this project was the base bid, which resulted in the lowest bidder to be ProPacific Builder Corporation. However after further evaluation of the Contractor qualification and as was submitted in a letter by GWA dated September 28, 2020, ProPacific was found to be non-responsive for not meeting the minimum requirements of the project specifications.

After review of the next lowest bidder, Core Tech-Hawaiian Dredging, their bid documents and Contractor qualifications have been found to have met the requirements of the project bid solicitation and specification requirements. Therefore, it is recommended that GWA award the project award to Core Tech-Hawaiian Dredging as the lowest, most responsive bidder for this bid solicitation. Because the additive bid amounts were found to be within reason of the engineer's estimate, it is recommended GWA proceed with as many additive bids, in addition to the base bid, that the project's budget can support.

If you should have further questions, please feel free to call me at 671-686-6425 or email at Nicholas.manley@hdrinc.com.

Sincerely,

HDR Engineering, Inc.



Nick Manley
Project Manager

Enclosure: Route 1 Sewer Rehab – Phase II – Bid Tabulation

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Base Bid Description of Work:
Line B Work (SMH 13Asan to SMH 350AHaga and SMH 350BHaga to SMH339Haga)
Work consists of cleaning and rehabilitating existing 16-inch, 24-inch and 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, reinstating sewer laterals after CIPP rehabilitation is complete, replacing sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization	Lump Sum	$ 496,577.00	1	$ 496,577.00	$ 853,284.47	1	$ 853,284.47	$ 1,431,105.00	1	$ 1,431,105.00	$ 550,032.87	1	$ 550,032.87	$ 982,000.00	1	$ 982,000.00	$ 450,000.00	1	$ 450,000.00
2	Light Sewer Line Cleaning of existing 16-inch Asbestos Cement Pipe (ACP) and 16-inch Polyvinyl Chloride (PVC) pipe sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 25.00	2,648	$ 66,200.00	$ 21.08	2,648	$ 55,826.46	$ 15.34	2,648	$ 40,620.32	$ 31.99	2,648	$ 84,709.52	$ 22.00	2,648	$ 58,256.00	$ 15.00	2,648	$ 39,720.00
3	Light Sewer Line Cleaning of existing 24-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 44.00	3,628	$ 159,632.00	$ 25.52	3,628	$ 92,568.42	$ 19.29	3,628	$ 69,984.12	$ 32.77	3,628	$ 118,889.56	$ 35.00	3,628	$ 126,980.00	$ 15.00	3,628	$ 54,420.00
4	Light Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 45.00	3,706	$ 166,770.00	$ 32.46	3,706	$ 120,278.23	$ 22.53	3,706	$ 83,496.18	$ 37.29	3,706	$ 138,196.74	$ 55.00	3,706	$ 203,830.00	$ 15.00	3,706	$ 55,590.00
5	Heavy Sewer Line Cleaning of existing 16-inch Asbestos Cement Pipe (ACP) and 16-inch Polyvinyl Chloride (PVC) pipe sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 80.00	559	$ 44,720.00	$ 38.39	559	$ 21,461.41	$ 32.19	559	$ 17,994.21	$ 64.38	559	$ 35,988.42	$ 42.00	559	$ 23,478.00	$ 15.00	559	$ 8,385.00
6	Heavy Sewer Line Cleaning of existing 24-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 100.00	127	$ 12,700.00	$ 60.74	127	$ 7,713.35	$ 64.17	127	$ 8,149.59	$ 68.77	127	$ 8,733.79	$ 95.00	127	$ 12,065.00	$ 15.00	127	$ 1,905.00
7	Heavy Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 110.00	249	$ 27,390.00	$ 77.12	249	$ 19,202.88	$ 68.19	249	$ 16,979.31	$ 75.29	249	$ 18,747.21	$ 150.00	249	$ 37,350.00	$ 15.00	249	$ 3,735.00
8	Specialty Cleaning of all pipe size sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Hour	$ 600.00	40	$ 24,000.00	$ 742.86	40	$ 29,714.50	$ 1,296.38	40	$ 51,855.20	$ 275.07	40	$ 11,002.80	$ 1,000.00	40	$ 40,000.00	$ 400.00	40	$ 16,000.00
9	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 16" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 12.00	646	$ 7,752.00	$ 12.41	646	$ 8,015.25	$ 13.39	646	$ 8,649.94	$ 28.74	646	$ 18,566.04	$ 2.50	646	$ 1,615.00	$ 5.00	646	$ 3,230.00
10	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 24" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	1,814	$ 25,396.00	$ 13.38	1,814	$ 24,275.86	$ 16.91	1,814	$ 30,674.74	$ 29.12	1,814	$ 52,823.68	$ 2.50	1,814	$ 4,535.00	$ 5.00	1,814	$ 9,070.00
11	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	1,853	$ 25,942.00	$ 15.74	1,853	$ 29,156.96	$ 20.43	1,853	$ 37,856.79	$ 33.51	1,853	$ 62,094.03	$ 4.00	1,853	$ 7,412.00	$ 5.00	1,853	$ 9,265.00
12	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 16" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 12.00	1,292	$ 15,504.00	$ 9.68	1,292	$ 12,503.33	$ 2.47	1,292	$ 3,191.24	$ 28.74	1,292	$ 37,132.08	$ 2.50	1,292	$ 3,230.00	$ 5.00	1,292	$ 6,460.00
13	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 24" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	3,628	$ 50,792.00	$ 9.86	3,628	$ 35,772.08	$ 2.82	3,628	$ 10,230.96	$ 29.12	3,628	$ 105,647.36	$ 2.50	3,628	$ 9,070.00	$ 5.00	3,628	$ 18,140.00
14	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	3,706	$ 51,884.00	$ 11.51	3,706	$ 42,646.80	$ 3.52	3,706	$ 13,045.12	$ 33.51	3,706	$ 124,188.06	$ 4.00	3,706	$ 14,824.00	$ 5.00	3,706	$ 18,530.00
15	Installation of cured-in-place pipe (CIPP) lining in existing 16-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 317.00	646	$ 204,782.00	$ 347.91	646	$ 224,749.86	$ 209.83	646	$ 135,550.18	$ 498.06	646	$ 321,746.76	$ 283.75	646	$ 183,302.50	$ 400.00	646	$ 258,400.00
16	Installation of cured-in-place pipe (CIPP) lining in existing 24-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 367.00	1,814	$ 665,738.00	$ 499.94	1,814	$ 906,895.70	$ 221.72	1,814	$ 402,200.08	$ 846.05	1,814	$ 1,534,734.70	$ 400.00	1,814	$ 725,600.00	$ 532.00	1,814	$ 965,048.00
17	Installation of cured-in-place pipe (CIPP) lining in existing 27-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 405.00	1,853	$ 750,465.00	$ 588.13	1,853	$ 1,089,804.89	$ 229.87	1,853	$ 425,949.11	$ 854.65	1,853	$ 1,583,666.45	$ 675.00	1,853	$ 1,250,775.00	$ 593.00	1,853	$ 1,098,829.00
18	Reinstatement of existing sewer laterals upon completion of CIPP lining installation, and all incidentals, in place complete.	Ea.	$ 2,400.00	16	$ 38,400.00	$ 9,948.93	16	$ 159,182.88	$ 8,648.13	16	$ 138,370.08	$ 2,647.59	16	$ 42,361.44	$ 8,500.00	16	$ 136,000.00	$ 20,000.00	16	$ 320,000.00

GUAM WATERWORKS AUTHORITY

Item No.	Description	Unit	Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
			Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
19	Installation of cured-in-place lateral liner for sewer laterals from 4-6 inches in diameter. (Includes 4 Ea. to be installed on sewer laterals associated with the Route 4 Relief Sewer Line Rehabilitation and Replacement at approximately Sta. 2+20, 4+04, 5+99, and 7+06)	Ea.	$ 18,000.00	4	$ 72,000.00	20,293.18	4	81,172.73	25,726.25	4	102,905.00	17,946.48	4	71,785.92	12,500.00	4	50,000.00	25,000.00	4	100,000.00
20	Chemical Grouting on sewer lines for each installation up to 1 gallon, including all cleaning, CCTV, sewer bypass, and all other items as necessary to complete the work.	Ea.	$ 15,000.00	2	$ 30,000.00	6,917.84	2	13,835.67	5,003.50	2	10,007.00	5,717.84	2	11,435.68	15,450.00	2	30,900.00	1,500.00	2	3,000.00
21	Chemical Grouting on sewer lines for all installations over 1 gallon, including all cleaning, CCTV, sewer bypass, and all other items as necessary to complete the work.	Ea.	$ 500.00	100	$ 50,000.00	489.11	100	48,911.00	29.59	100	2,959.00	186.85	100	18,685.00	240.00	100	24,000.00	1,500.00	100	150,000.00
22	Chemical Grouting on laterals for each installation up to 1 gallon, including all cleaning, CCTV, sewer bypass, and all other items as necessary to complete the work.	Ea.	$ 15,000.00	3	$ 45,000.00	8,619.42	3	25,858.25	6,107.00	3	18,321.00	11,420.66	3	34,261.98	15,450.00	3	46,350.00	1,500.00	3	4,500.00
23	Chemical Grouting on laterals for all installations over 1 gallon, including all cleaning, CCTV, sewer bypass, and all other items as necessary to complete the work.	Ea.	$ 500.00	150	$ 75,000.00	504.54	150	75,681.38	29.59	150	4,438.50	188.58	150	28,287.00	300.00	150	45,000.00	1,500.00	150	225,000.00
24	Sewer manhole concrete collar, including reinforcing steel, borrow material, where required, and all other items as necessary to complete the work.	Ea.	$ 1,500.00	3	$ 4,500.00	4,972.41	3	14,917.23	3,729.00	3	11,187.00	7,660.64	3	22,981.92	3,500.00	3	10,500.00	5,000.00	3	15,000.00
25	Sewer Flow Control for Sewer Rehabilitation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 690,000.00	1	$ 690,000.00	784,948.99	1	784,948.99	1,004,646.00	1	1,004,646.00	810,149.96	1	810,149.96	975,000.00	1	975,000.00	350,000.00	1	350,000.00
26	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 290,000.00	1	$ 290,000.00	167,585.94	1	167,585.94	170,821.00	1	170,821.00	294,522.77	1	294,522.77	130,000.00	1	130,000.00	75,000.00	1	75,000.00
27	Point Repair for 16-inch diameter PVC sewer pipe, including pavement demolition, shoring, or bracing, underpinning, positive groundwater control, protection and support of structures and utilities, removal of trench support, select fill, flowable fill, traffic covers, and all incidentals required to complete the work. (4 LF pipe section or less, per line segment)	Ea.	$ 5,837.00	2	$ 11,674.00	29,041.42	2	58,082.85	35,699.00	2	71,398.00	14,966.69	2	29,933.38	45,500.00	2	91,000.00	20,000.00	2	40,000.00
28	Extra Length Point Repair for 16-inch diameter PVC sewer pipe, all depths; in excess of 4 LF (Typ.)	Lin. Ft.	$ 1,523.00	40	$ 60,920.00	4,427.88	40	177,115.00	8,128.55	40	325,142.00	3,082.95	40	123,318.00	4,500.00	40	180,000.00	2,000.00	40	80,000.00
29	Point Repair for 24-inch diameter PVC sewer pipe, including pavement demolition, shoring, or bracing, underpinning, positive groundwater control, protection and support of structures and utilities, removal of trench support, select fill, flowable fill, traffic covers, and all incidentals required to complete the work. (4 LF pipe section or less, per line segment)	Ea.	$ 6,344.00	1	$ 6,344.00	41,130.90	1	41,130.90	43,150.00	1	43,150.00	15,873.60	1	15,873.60	55,500.00	1	55,500.00	50,000.00	1	50,000.00
30	Extra Length Point Repair for 24-inch diameter PVC sewer pipe, all depths; in excess of 4 LF (Typ.)	Lin. Ft.	$ 1,523.00	20	$ 30,460.00	5,338.90	20	106,777.90	10,015.20	20	200,304.00	3,840.38	20	76,807.60	5,500.00	20	110,000.00	2,000.00	20	40,000.00
31	Point Repair for 27-inch diameter PVC sewer pipe, including pavement demolition, shoring, or bracing, underpinning, positive groundwater control, protection and support of structures and utilities, removal of trench support, select fill, flowable fill, traffic covers, and all incidentals required to complete the work. (4 LF pipe section or less, per line segment)	Ea.	$ 6,921.00	1	$ 6,921.00	44,212.44	1	44,212.44	45,366.00	1	45,366.00	15,983.74	1	15,983.74	65,500.00	1	65,500.00	50,000.00	1	50,000.00
32	Extra Length Point Repair for 27-inch diameter PVC sewer pipe, all depths; in excess of 4 LF (Typ.)	Lin. Ft.	$ 1,650.00	20	$ 33,000.00	5,842.81	20	116,856.15	10,570.10	20	211,402.00	4,301.13	20	86,022.60	6,500.00	20	130,000.00	2,000.00	20	40,000.00
33	Sewer Flow Control for Point Repairs of 16-inch, 18-inch, 24-inch, and 27-inch for every 4 LF of point repair, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Ea.	$ 12,690.00	4	$ 50,760.00	22,997.11	4	91,988.43	31,823.50	4	127,294.00	5,164.93	4	20,659.72	25,000.00	4	100,000.00	30,000.00	4	120,000.00

GUAM WATERWORKS AUTHORITY

Asan-Adelup-Hagatna, Route 1 Sewer Rehabilitation and Replacement Phase II

Item No.	Description	Unit	Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
			Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
34	Traffic Control Work for each Point Repair, including traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Ea.	$ 2,540.00	4	$ 10,160.00	7,064.98	4	28,259.93	3,146.50	4	12,586.00	6,113.43	4	24,453.72	14,000.00	4	56,000.00	5,000.00	4	20,000.00
	BASE BID (TOTAL Items 1 through 34, inclusive)		$ 4,301,383.00					$ 5,610,388.07			$ 5,287,828.67			$ 6,534,424.10			$ 5,920,072.50			$ 4,699,227.00
											Submitted Bid Price			Submitted Bid Price			Submitted Bid Price			Submitted Bid Price
	BASE BID (BASIS OF AWARD) =		$ 4,301,383.00			$ 5,610,388.07			$ 5,287,828.67		5,287,826.00	$ 6,534,424.10		6,534,440.24	$ 5,920,072.50		5,920,072.50	$ 4,699,227.00		4,699,227.00
	ADDITIVE BID #1 =		$ 978,894.00			$ 978,894.00			$ 763,427.66		763,430.00	$ 1,568,718.60		1,568,718.60	$ 590,666.75		590,666.75	$ 1,087,893.00		1,087,893.00
	ADDITIVE BID #2 =		$ 910,497.00			$ 910,497.00			$ 693,525.04		693,530.00	$ 1,565,730.85		1,562,730.85	$ 542,162.00		542,162.00	$ 935,832.00		935,832.00
	ADDITIVE BID #3 =		$ 889,817.00			$ 889,817.00			$ 589,818.25		589,809.00	$ 1,573,379.86		1,537,379.86	$ 668,119.00		668,119.00	$ 945,244.00		945,244.00
	ADDITIVE BID #4 =		$ 368,464.00			$ 368,464.00			$ 397,956.70		397,961.00	$ 991,277.70		991,277.70	$ 324,295.00		324,295.00	$ 396,910.00		396,910.00
	ADDITIVE BID #5 =		$ 505,605.00			$ 505,605.00			$ 511,370.58		511,371.00	$ 855,580.20		855,580.20	$ 677,000.00		677,000.00	$ 540,410.00		540,410.00
	ADDITIVE BID #6 =		$ 384,601.00			$ 384,601.00			$ 498,481.72		498,481.00	$ 678,130.63		678,130.63	$ 251,230.00		251,230.00	$ 278,924.00		278,924.00
	GRAND TOTAL BASE BID + ADDITIVE BID #1 TO ADDITIVE BID #6		$ 8,339,261.00			$ 9,648,266.07			$ 8,742,408.62		8,742,408.00	$ 13,767,241.94		13,764,258.08	$ 8,973,545.25		8,973,545.25	$ 8,884,440.00		8,884,440.00

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #1 Description of Work:
Line B Work (SMH 339Haga to SMH 335Haga)
Work consists of cleaning and rehabilitating existing 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, reinstating sewer laterals after CIPP rehabilitation is complete, replacing sewer manhole frame and covers, sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 72,511.00	1	$ 72,511.00	$ 78,286.09	1	$ 78,286.09	$ 118,079.00	1	$ 118,079.00	$ 60,065.34	1	$ 60,065.34	$ 35,000.00	1	$ 35,000.00	$ 100,000.00	1	$ 100,000.00
2	Light Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 45.00	2,118	$ 95,310.00	$ 33.22	2,118	$ 70,365.26	$ 22.60	2,118	$ 47,866.80	$ 37.29	2,118	$ 78,980.22	$ 55.00	2,118	$ 116,490.00	$ 18.00	2,118	$ 38,124.00
3	Specialty Cleaning of all pipe size sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Hour	$ 600.00	40	$ 24,000.00	$ 647.76	40	$ 25,910.20	$ 1,297.95	40	$ 51,918.00	$ 275.07	40	$ 11,002.80	$ 1,000.00	40	$ 40,000.00	$ 18.00	40	$ 720.00
4	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	1,059	$ 14,826.00	$ 15.82	1,059	$ 16,748.09	$ 19.75	1,059	$ 20,915.25	$ 33.51	1,059	$ 35,487.09	$ 4.00	1,059	$ 4,236.00	$ 6.00	1,059	$ 6,354.00
5	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	2,118	$ 29,652.00	$ 11.67	2,118	$ 24,717.06	$ 3.17	2,118	$ 6,714.06	$ 33.51	2,118	$ 70,974.18	$ 4.00	2,118	$ 8,472.00	$ 6.00	2,118	$ 12,708.00
6	Installation of cured-in-place pipe (CIPP) lining in existing 27-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 405.00	1,059	$ 428,895.00	$ 460.34	1,059	$ 487,497.41	$ 237.45	1,059	$ 251,459.55	$ 854.65	1,059	$ 905,074.35	$ 156.25	1,059	$ 165,468.75	$ 593.00	1,059	$ 627,987.00
7	Reinstatement of existing sewer laterals upon completion of CIPP lining installation, and all incidentals, in place complete.	Ea.	$ 2,400.00	8	$ 19,200.00	$ 9,882.59	8	$ 79,060.68	$ 8,382.75	8	$ 67,062.00	$ 2,647.59	8	$ 21,180.72	$ 8,500.00	8	$ 68,000.00	$ 20,000.00	8	$ 160,000.00
8	Cast iron manhole frame and cover, 25-inch diameter, including grade adjustment rings where required, and other items as necessary to complete the work.	Ea.	$ 3,000.00	1	$ 3,000.00	$ 4,228.35	1	$ 4,228.35	$ 1,616.00	1	$ 1,616.00	$ 4,797.38	1	$ 4,797.38	$ 4,500.00	1	$ 4,500.00	$ 6,000.00	1	$ 6,000.00
9	Sewer manhole concrete collar, including reinforcing steel, borrow material, where required, and all other items as necessary to complete the work.	Ea.	$ 1,500.00	1	$ 1,500.00	$ 4,819.41	1	$ 4,819.41	$ 2,117.00	1	$ 2,117.00	$ 7,660.64	1	$ 7,660.64	$ 3,500.00	1	$ 3,500.00	$ 6,000.00	1	$ 6,000.00
10	Sewer Flow Control for Sewer Rehabilitation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 210,000.00	1	$ 210,000.00	168,763.66	1	$ 168,763.66	179,932.00	1	$ 179,932.00	290,122.65	1	$ 290,122.65	125,000.00	1	$ 125,000.00	80,000.00	1	$ 80,000.00
11	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 80,000.00	1	$ 80,000.00	42,280.31	1	$ 42,280.31	15,748.00	1	$ 15,748.00	83,373.23	1	$ 83,373.23	20,000.00	1	$ 20,000.00	50,000.00	1	$ 50,000.00
	ADDITIVE BID #1 (TOTAL Items 1 through 11, inclusive)				**$ 978,894.00**			**$ 1,002,676.50**			**$ 763,427.66**			**$ 1,568,718.60**			**$ 590,666.75**			**$ 1,087,893.00**

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #2 Description of Work:
Line B Work (SMH 330Haga to SMH 327Haga)
Work consists of cleaning and rehabilitating existing 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, replacing sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 67,445.00	1	$ 67,445.00	$ 64,800.74	1	$ 64,800.74	$ 74,756.00	1	$ 74,756.00	$ 59,446.97	1	$ 59,446.97	$ 35,000.00	1	$ 35,000.00	$ 90,000.00	1	$ 90,000.00
2	Light Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 45.00	2,192	$ 98,640.00	$ 33.16	2,192	$ 72,686.72	$ 22.35	2,192	$ 48,991.20	$ 37.29	2,192	$ 81,739.68	$ 55.00	2,192	$ 120,560.00	$ 18.00	2,192	$ 39,456.00
3	Specialty Cleaning of all pipe size sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Hour	$ 600.00	40	$ 24,000.00	$ 632.64	40	$ 25,305.70	$ 1,237.50	40	$ 49,500.00	$ 275.07	40	$ 11,002.80	$ 1,000.00	40	$ 40,000.00	$ 18.00	40	$ 720.00
4	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	1,096	$ 15,344.00	$ 15.77	1,096	$ 17,286.66	$ 19.58	1,096	$ 21,459.68	$ 33.51	1,096	$ 36,726.96	$ 4.00	1,096	$ 4,384.00	$ 6.00	1,096	$ 6,576.00
5	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	2,192	$ 30,688.00	$ 11.93	2,192	$ 26,139.60	$ 4.19	2,192	$ 9,184.48	$ 33.51	2,192	$ 73,453.92	$ 4.00	2,192	$ 8,768.00	$ 6.00	2,192	$ 13,152.00
6	Installation of cured-in-place pipe (CIPP) lining in existing 27-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 405.00	1,096	$ 443,880.00	$ 467.25	1,096	$ 512,100.52	$ 252.58	1,096	$ 276,827.68	$ 854.65	1,096	$ 936,696.40	$ 168.75	1,096	$ 184,950.00	$ 593.00	1,096	$ 649,928.00
7	Sewer manhole concrete collar, including reinforcing steel, borrow material, where required, and all other items as necessary to complete the work.	Ea.	$ 1,500.00	1	$ 1,500.00	$ 5,215.66	1	$ 5,215.66	$ 3,702.00	1	$ 3,702.00	$ 7,660.64	1	$ 7,660.64	$ 3,500.00	1	$ 3,500.00	$ 6,000.00	1	$ 6,000.00
8	Sewer Flow Control for Sewer Rehabilitation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 179,000.00	1	$ 179,000.00	167,957.89	1	167,957.89	190,343.00	1	190,343.00	276,488.57	1	276,488.57	125,000.00	1	125,000.00	80,000.00	1	80,000.00
9	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 50,000.00	1	$ 50,000.00	42,818.98	1	42,818.98	18,761.00	1	18,761.00	82,514.91	1	82,514.91	20,000.00	1	20,000.00	50,000.00	1	50,000.00
	ADDITIVE BID #2 (TOTAL Items 1 through 9, inclusive)		**$ 910,497.00**					**$ 934,312.47**			**$ 693,525.04**			**$ 1,565,730.85**			**$ 542,162.00**			**$ 935,832.00**

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #3 Description of Work:
Line B Work (SMH 327Haga to SMH 323Haga)
Work consists of rehabilitating existing 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, replacing sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 65,913.00	1	$ 65,913.00	$ 64,729.10	1	$ 64,729.10	$ 74,544.00	1	$ 74,544.00	$ 59,372.38	1	$ 59,372.38	$ 35,000.00	1	$ 35,000.00	$ 90,000.00	1	$ 90,000.00
2	Light Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 45.00	2,184	$ 98,280.00	$ 32.96	2,184	$ 71,979.18	$ 21.54	2,184	$ 47,043.36	$ 37.29	2,184	$ 81,441.36	$ 55.00	2,184	$ 120,120.00	$ 18.00	2,184	$ 39,312.00
3	Specialty Cleaning of all pipe size sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Hour	$ 600.00	40	$ 24,000.00	$ 643.16	40	$ 25,726.20	$ 1,279.55	40	$ 51,182.00	$ 275.07	40	$ 11,002.80	$ 1,000.00	40	$ 40,000.00	$ 18.00	40	$ 720.00
4	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	1,092	$ 15,288.00	$ 15.75	1,092	$ 17,193.54	$ 19.47	1,092	$ 21,261.24	$ 33.51	1,092	$ 36,592.92	$ 4.00	1,092	$ 4,368.00	$ 6.00	1,092	$ 6,552.00
5	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	2,184	$ 30,576.00	$ 11.75	2,184	$ 25,656.54	$ 3.48	2,184	$ 7,600.32	$ 33.51	2,184	$ 73,185.84	$ 4.00	2,184	$ 8,736.00	$ 6.00	2,184	$ 13,104.00
6	Installation of cured-in-place pipe (CIPP) lining in existing 27-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 405.00	1,092	$ 442,260.00	$ 488.09	1,092	$ 532,994.28	$ 225.96	1,092	$ 246,748.32	$ 854.65	1,092	$ 933,277.80	$ 278.75	1,092	$ 304,395.00	$ 593.00	1,092	$ 647,556.00
7	Sewer manhole concrete collar, including reinforcing steel, borrow material, where required, and all other items as necessary to complete the work.	Ea.	$ 1,500.00	3	$ 4,500.00	$ 4,597.08	3	$ 13,791.23	$ 1,227.67	3	$ 3,683.01	$ 7,660.64	3	$ 22,981.92	$ 3,500.00	3	$ 10,500.00	$ 6,000.00	3	$ 18,000.00
8	Sewer Flow Control for Sewer Rehabilitation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 179,000.00	1	$ 179,000.00	$ 149,297.87	1	$ 149,297.87	$ 119,078.00	1	$ 119,078.00	$ 273,113.47	1	$ 273,113.47	$ 125,000.00	1	$ 125,000.00	$ 80,000.00	1	$ 80,000.00
9	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 30,000.00	1	$ 30,000.00	$ 42,772.34	1	$ 42,772.34	$ 18,678.00	1	$ 18,678.00	$ 82,411.37	1	$ 82,411.37	$ 20,000.00	1	$ 20,000.00	$ 50,000.00	1	$ 50,000.00
	ADDITIVE BID #3 (TOTAL Items 1 through 9, inclusive)				**$ 889,817.00**			**$ 944,140.28**			**$ 589,818.25**			**$ 1,573,379.86**			**$ 668,119.00**			**$ 945,244.00**

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #4 Description of Work:
Line B Work (SMH 323Haga to Hagatna Pump Station Wetwell)
Work consists of rehabilitating existing 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, replacing sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 27,294.00	1	$ 27,294.00	$ 54,519.10	1	$ 54,519.10	$ 75,358.00	1	$ 75,358.00	$ 67,718.38	1	$ 67,718.38	$ 35,000.00	1	$ 35,000.00	$ 40,000.00	1	$ 40,000.00
2	Light Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 45.00	820	$ 36,900.00	$ 33.77	820	$ 27,687.30	$ 24.77	820	$ 20,311.40	$ 37.29	820	$ 30,577.80	$ 55.00	820	$ 45,100.00	$ 18.00	820	$ 14,760.00
3	Specialty Cleaning of all pipe size sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Hour	$ 600.00	40	$ 24,000.00	$ 646.46	40	$ 25,858.20	$ 1,292.75	40	$ 51,710.00	$ 275.07	40	$ 11,002.80	$ 1,000.00	40	$ 40,000.00	$ 18.00	40	$ 720.00
4	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	410	$ 5,740.00	$ 19.15	410	$ 7,850.48	$ 21.08	410	$ 8,642.80	$ 33.51	410	$ 13,739.10	$ 4.00	410	$ 1,640.00	$ 18.00	410	$ 7,380.00
5	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	820	$ 11,480.00	$ 12.28	820	$ 10,071.65	$ 5.62	820	$ 4,608.40	$ 33.51	820	$ 27,478.20	$ 4.00	820	$ 3,280.00	$ 6.00	820	$ 4,920.00
6	Installation of cured-in-place pipe (CIPP) lining in existing 27-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 405.00	410	$ 166,050.00	$ 480.17	410	$ 196,869.70	$ 283.01	410	$ 116,034.10	$ 867.17	410	$ 355,539.70	$ 177.50	410	$ 72,775.00	$ 593.00	410	$ 243,130.00
7	Cast iron manhole frame and cover, 30-inch diameter, including replacement of manhole cone section, grade adjustment rings where required, replacement of concrete sidewalk, curb and other items as necessary to complete the work.	Ea.	$ 10,000.00	1	$ 10,000.00	$ 8,156.54	1	$ 8,156.54	$ 7,447.00	1	$ 7,447.00	$ 12,679.15	1	$ 12,679.15	$ 6,500.00	1	$ 6,500.00	$ 6,000.00	1	$ 6,000.00
8	Sewer Flow Control for Sewer Rehabilitation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 67,000.00	1	$ 67,000.00	154,780.77	1	154,780.77	101,288.00	1	101,288.00	367,835.06	1	367,835.06	100,000.00	1	100,000.00	50,000.00	1	50,000.00
9	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 20,000.00	1	$ 20,000.00	$ 41,816.13	1	$ 41,816.13	$ 12,557.00	1	$ 12,557.00	$ 104,707.51	1	$ 104,707.51	$ 20,000.00	1	$ 20,000.00	$ 30,000.00	1	$ 30,000.00
	ADDITIVE BID #4 (TOTAL Items 1 through 9, inclusive)				**$ 368,464.00**			**$ 527,609.85**			**$ 397,956.70**			**$ 991,277.70**			**$ 324,295.00**			**$ 396,910.00**

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #1 Description of Work:
Line C Work (SMH 3984con to 3554con)
Work consists of abandoning an existing 12-inch ACP sewer line, installing a new 12-inch diameter polyvinyl chloride (PVC) sewer line, and providing temporary bypassing and traffic control as necessary to complete the work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 37,453.00	1	$ 37,453.00	$ 42,336.43	1	$ 42,336.43	$ 6,922.00	1	$ 6,922.00	$ 62,423.73	1	$ 62,423.73	$ 50,000.00	1	$ 50,000.00	$ 50,000.00	1	$ 50,000.00
2	Abandonment of 12-inch diameter ACP pipe, and all incidentals required to complete the work.	Lin. Ft.	$ 180.00	123	$ 22,140.00	$ 200.61	123	$ 24,675.34	$ 33.69	123	$ 4,143.87	$ 218.76	123	$ 26,907.48	$ 400.00	123	$ 49,200.00	$ 150.00	123	$ 18,450.00
3	New Pipe install new 12" PVC pipe (AWWA C-900, DR 25) by open trenching, including pavement demolition, unclassified trench excavation, shoring, underpinning, crushed rock bedding material, piping, fittings, select fill, compaction, testing, warning/identification tape, and all incidentals, in place complete. (10'-20' Depth)	Lin. Ft.	$ 3,825.00	80	$ 306,000.00	$ 2,410.88	80	$ 192,870.40	$ 1,742.70	80	$ 139,416.00	$ 1,900.82	80	$ 152,065.60	$ 2,500.00	80	$ 200,000.00	$ 3,500.00	80	$ 280,000.00
4	A.C. Pavement Resurfacing, including pavement transitions, prime coat, tack coat, traffic striping, miscellaneous restoration, and all necessary labor, materials and equipment, in place complete.	Sq. Yds.	$ 233.00	74	$ 17,242.00	$ 382.88	74	$ 28,332.94	$ 434.15	74	$ 32,127.10	$ 297.36	74	$ 22,004.64	$ 650.00	74	$ 48,100.00	$ 150.00	74	$ 11,100.00
5	Milling Asphalt Friction Course, including all necessary labor, materials and equipment, in place complete.	Sq. Yds.	$ 110.00	109	$ 11,990.00	$ 334.48	109	$ 36,458.05	$ 333.35	109	$ 36,335.15	$ 224.56	109	$ 24,477.04	$ 700.00	109	$ 76,300.00	$ 80.00	109	$ 8,720.00
6	Asphalt Friction Course, including pavement transitions and all necessary labor, materials and equipment, in place complete.	Sq. Yds.	$ 160.00	183	$ 29,280.00	$ 249.22	183	$ 45,606.35	$ 352.62	183	$ 64,529.46	$ 264.24	183	$ 48,355.92	$ 300.00	183	$ 54,900.00	$ 80.00	183	$ 14,640.00
7	Sewer manhole concrete collar, including reinforcing steel, borrow material where required, and other items as necessary to complete the work.	Ea.	$ 1,500.00	1	$ 1,500.00	$ 5,353.07	1	$ 5,353.07	$ 2,120.00	1	$ 2,120.00	$ 8,292.29	1	$ 8,292.29	$ 3,500.00	1	$ 3,500.00	$ 7,500.00	1	$ 7,500.00
8	Install new Plain Precast Concrete Manhole, including plugging or bypass pumping, excavation and backfill, crushed rock base, reinforced concrete base, precast concrete riser(s) and cone, flexible pipe seals and connectors, grade adjustment ring(s), Type "SA" frame and cover, channelized invert, testing, incidentals, and all necessary labor, materials, and equipment, in place complete.	Ea.	$ 30,000.00	1	$ 30,000.00	$ 51,090.82	1	$ 51,090.82	$ 52,137.00	1	$ 52,137.00	$ 37,226.27	1	$ 37,226.27	$ 65,000.00	1	$ 65,000.00	$ 50,000.00	1	$ 50,000.00
9	Sewer Flow Control for new pipe installation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 20,000.00	1	$ 20,000.00	$ 173,294.69	1	$ 173,294.69	$ 169,267.00	1	$ 169,267.00	$ 363,911.76	1	$ 363,911.76	$ 85,000.00	1	$ 85,000.00	$ 75,000.00	1	$ 75,000.00
10	Traffic Control Work for new pipe installation and rehabilitation, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 30,000.00	1	$ 30,000.00	$ 46,072.12	1	$ 46,072.12	$ 4,373.00	1	$ 4,373.00	$ 109,915.47	1	$ 109,915.47	$ 45,000.00	1	$ 45,000.00	$ 25,000.00	1	$ 25,000.00
	ADDITIVE BID #1 (TOTAL Items 1 through 10, inclusive)		$ 505,605.00					$ 646,090.20			$ 511,370.58			$ 855,580.20			$ 677,000.00			$ 540,410.00

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #6 Description of Work:
Line B Work (SMH 350AHAGA to SMH 350BHAGA)
Work consists of rehabilitating one siphon consisting of two (2) - 18-inch barrels and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 28,489.00	1	$ 28,489.00	$ 70,947.63	1	$ 70,947.63	$ 163,165.00	1	$ 163,165.00	$ 60,625.52	1	$ 60,625.52	$ 35,000.00	1	$ 35,000.00	$ 25,000.00	1	$ 25,000.00
2	Sewer Line Cleaning of Inverted Siphon (2 - 18" Cast Iron Barrels, approximately 124 linear feet each, 22.5 degree bends), including removal and disposal of debris, and all incidentals necessary to complete work.	Lump Sum	$ 30,000.00	1	$ 30,000.00	$ 66,814.92	1	$ 66,814.92	$ 78,271.00	1	$ 78,271.00	$ 63,988.67	1	$ 63,988.67	$ 75,000.00	1	$ 75,000.00	$ 50,000.00	1	$ 50,000.00
3	Closed-Circuit Television (CCTV) inspections for pre- and post rehabilitation of existing inverted siphon (2 - 18" Cast Iron Barrels, approximately 124 linear feet each, 22.5 degree bends) and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	248	$ 3,472.00	$ 47.37	248	$ 11,748.38	$ 139.69	248	$ 34,643.12	$ 32.30	248	$ 8,010.40	$ 10.00	248	$ 2,480.00	$ 7.50	248	$ 1,860.00
4	Installation of cured-in-place pipe (CIPP) lining in existing 18-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 380.00	248	94,240.00	$ 520.53	248	129,090.82	$ 554.45	248	137,503.60	$ 778.41	248	193,045.68	$ 156.25	248	38,750.00	$ 593.00	248	147,064.00
5	Sewer Flow Control for siphon inspection and cleaning, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 190,300.00	1	$ 190,300.00	$ 121,078.56	1	$ 121,078.56	$ 72,981.00	1	$ 72,981.00	$ 296,333.23	1	$ 296,333.23	$ 75,000.00	1	$ 75,000.00	$ 40,000.00	1	$ 40,000.00
6	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 38,100.00	1	$ 38,100.00	$ 27,011.28	1	$ 27,011.28	$ 11,918.00	1	$ 11,918.00	$ 56,127.13	1	$ 56,127.13	$ 25,000.00	1	$ 25,000.00	$ 15,000.00	1	$ 15,000.00
	ADDITIVE BID #6 (TOTAL Items 1 through 6, inclusive)				**$ 384,601.00**			**$ 426,691.59**			**$ 498,481.72**			**$ 678,130.63**			**$ 251,230.00**			**$ 278,924.00**

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

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. 04-FY2021
Relative to Approval of a Change Order for a Construction Management Contract for Phase II of the Asan-Adelup-Hagatna, Route 1 Sewerline Rehabilitation and Replacement Project S15-002-EPA

What is the project's objective and is it necessary and urgent?
The objective of this project is to provide complete Construction Management (CM) services during the construction of the second phase of sewer line construction to be completed along Route 1 from the Asan Pump Station to the Hagatna area, on a lump sum basis. The construction work will include pipe repair, cured-in-place-pipe installation, and manhole repairs along approximately 4,500 linear feet of sewer pipe. The area of gravity sewer line from Asan to Hagatna has deteriorated and experienced a number of collapses in the past two years and requires immediate attention. Phase I of this project, from Asan to the Asan Pump Station is currently under construction and is anticipated to be completed by March 2021. Duenas, Camacho & Associates, Inc. (DCA) is providing CM services for Phase I construction presently.

When the contract for CM work for the Rt.1 Sewer Line Rehabilitation and Replacement was originally advertised, it included CM services for the full scope of construction from Asan to Hagatna. However, construction funding limited award of the construction contract to include sewer rehabilitation from Asan to the Asan Pump Station which became Phase I of the project. Thus, the original award to DCA was based on Phase I scope of work.

GWA identified funds to construct Phase II (from the Asan Pump Station to the Hagatna Area) including CM budget. A construction contract for Phase II resulted in competitive bids and an award for construction is imminent. GWA requires the CM services and the contract with DCA may be amended to include CM services for Phase II based on its original scope of work.

Where is the location?
This project is located in the villages of Asan, Adelup, and Hagatna, along Route 1, from the Asan Pump Station to Adelup and toward Hagatna. Construction activities will be limited to the government easements of the sewer infrastructure elements.

How much will it cost?
The construction management services contract value relative to Phase II construction will be added to the original awarded amount of Nine Hundred Fifty-Seven Thousand Six Hundred Seventy-One Dollars and Forty-Five Cents ($957,671.45) associated with the maximum amount anticipated for Phase I. The additional amount includes construction management, inspection, and project coordination services during Phase II construction for the amount of Five Hundred Seventy-One Thousand Five Hundred Fifty Dollars ($571,550.00), plus a five percent (5%)

contingency of Twenty-Eight Thousand Four Hundred and Fifty Dollars ($28,450.00), for a total amount of Six Hundred Thousand Dollars ($600,000.00). The amended contract amount will therefore be One Million Five Hundred Fifty-Seven Thousand Six Hundred Seventy-One Dollars and Forty-Five Cents ($1,557,671.45). This contract amount will be based on a Lump Sum basis with specified testing elements on a Time and Materials basis.

When will it be completed?
The contract duration is anticipated to be 425 calendar days after an NTP is issued to the construction contractor. The construction management services will be for the full duration of the construction project. Completion date is estimated to be in February 2022.

DCA will be managing construction of two projects concurrently, one being the continuation of Phase I construction until it is completed, the second being the initiation of and activity on Phase II construction.

What is the funding source?
The funding for this project will be from USEPA Grants and, if necessary, GWA Bond Funds.

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

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

GWA RESOLUTION NO. 04-FY2021

RELATIVE TO APPROVAL OF A CHANGE ORDER FOR A CONSTRUCTION MANAGEMENT CONTRACT FOR PHASE II OF THE ASAN-ADELUP-HAGATNA, ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT PROJECT S15-002-EPA

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

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

WHEREAS, GWA has received a grant from the United States Environmental Protection Agency ("USEPA") under the State Revolving Fund ("SRF") program to improve the sewer collection system, which included the gravity sewer line along Route 1, from the Asan "War in the Pacific" National Historical Park to the Agana Main Pump Station; and

WHEREAS, the segments of gravity sewer line indicated is deteriorating and has experienced collapses, bellies in the sewer line, offsets, and sections of missing or badly corroded pipe, and the intent of this project is to rehabilitate, repair or replace these sections; and

WHEREAS, GWA procured construction management (CM) services through Request for Proposal No. RFP-04-ENG-2017 that included CM services for the Rt.1 Sewer Line Rehabilitation and Replacement Project from Asan to Hagatna; and

WHEREAS, due to funding limitations, the full scope of work for construction of the Rt.1 Sewer Rehabilitation and Replacement Project was divided into phases such that Phase I construction was awarded to InfraTech International LLC for Phase I, from Asan to the Asan

Pump Station, through Invitation for Re-Bid No. IFB-11-ENG-2017 (GWA Project No. S15-002-EPA) and Phase II, from the Asan Pump Station to Adelup and toward Hagatna, was recently advertised through Invitation for Bid no. IFB-06-ENG-2020 (GWA Project No. S15-002-EPA); and

WHEREAS, GWA selected Duenas, Camacho & Associates, Inc. (DCA) for the CM Services, and negotiated with DCA for Phase I in the amount of amount of Eight Hundred Seventy Thousand Six Hundred Ten Dollars and Forty-One Cents ($870,610.41); and

WHEREAS, by Resolution No. 30-FY2018, see Exhibit A, the CCU authorized awarding the CM services contract to DCA and CM services was contracted to DCA for a maximum amount of Nine Hundred Fifty-Seven Thousand Six Hundred Seventy-One Dollars and Forty-Five Cents ($957,671.45) which included Eighty-Seven Thousand Sixty-One Dollars and Four Cents ($87,061.04) for contingencies; and,

WHEREAS, GWA and USEPA agree that efforts to rehabilitate, repair or replace these sewer lines are necessary and the proceeding order to accomplish such task is through services that include construction management; and

WHEREAS, GWA is preparing to award a contract to the lowest responsive and responsible bidder under the Phase II IFB; and,

WHEREAS, GWA requires CM services for Phase II construction and has negotiated a fair and reasonable fee for such services from DCA under the scope of work advertised under Request for Proposal No. RFP-04-ENG-2017; and,

WHEREAS, GWA management is requesting to amend the DCA contract to provide construction management services for Phase II in the amount of Five Hundred Seventy-One Thousand Five Hundred Fifty ($571,550.00), see Exhibit B, including a contingency amount of Twenty-Eight Thousand Four Hundred Fifty Dollars ($28,450.00), for a total amount of Six Hundred Thousand Dollars ($600,000.00); and,

WHEREAS, funding for this project will be from the USEPA State Revolving Fund and, if necessary, GWA Bond funds.

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

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the fee proposal submitted by DCA are fair and reasonable (See Exhibit B).
3. The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
4. The CCU hereby authorizes the management of GWA to execute a Change Order to the contract with DCA in the amount of Six Hundred Thousand Dollars ($600,000.00).
5. The CCU hereby further approves the total funding for the CM contract with DCA in the amount of One Million Five Hundred Fifty-Seven Thousand Six Hundred and Seventy-One Dollars and Forty-Five Cents ($1,557,671.45).

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

DULY AND REGULARLY ADOPTED, this 24th day of November 2020.

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**MICHAEL T. LIMTIACO**
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:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAIN: _____

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EXHIBIT A

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

RESOLUTION NO. 30-FY2018

RELATIVE TO APPROVAL OF A CONSTRUCTION MANAGEMENT CONTRACT FOR THE ASAN-ADELUP-HAGATNA, ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT PROJECT S15-002-EPA

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

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

WHEREAS, GWA has received a grant from the United States Environmental Protection Agency ("USEPA") under the State Revolving Fund ("SRF") program to improve the sewer collection system, which included the gravity sewer line along Route 1, from the Asan "War in the Pacific" National Historical Park to the Agana Main Pump Station; and

WHEREAS, the segments of gravity sewer line indicated is deteriorating and has experienced collapses, bellies in the sewer line, offsets, and sections of missing or badly corroded pipe, and the intent of this project is to rehabilitate, repair or replace these sections; and

WHEREAS, GWA procured engineering design services through RFP-02-ENG-2015 that included general civil engineering, geotechnical engineering, and archeological investigation for wastewater collection system evaluation, analysis and detailed design; and

WHEREAS, the professional engineering design services have been completed by HDR Engineering, Inc. through contract, which was signed on December 10, 2015, and all rendered design documents have been accepted by GWA in May 2017; and

WHEREAS, GWA and USEPA agree that efforts to rehabilitate, repair or replace these sewer lines are necessary and the proceeding order to accomplish such task is through services that include construction management; and

WHEREAS, GWA has advertised the Request for Proposal (RFP-04-ENG-2017) dated March 30, 2017, soliciting statement of qualifications from experienced and qualified engineering firms to provide construction management services for the ASAN-ADELUP-HAGATNA, ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT PROJECT; and

WHEREAS, RFP packages were downloaded by multiple interested parties, from which GWA received proposal submittal from eight (8) engineering firms before the RFP submittal deadline; and

WHEREAS, the GWA A-E Selection Committee reviewed and evaluated the eight (8) proposals (see EXHIBIT A-Evaluation Score) and generated a short list of the top three (3) firms with a recommendation to award a contract to the firm DUENAS, CAMACHO & ASSOCIATES, INC. ("DCA") and any successor at interest thereto (see EXHIBIT B- GM Determination); and

WHEREAS, GWA advertised the initial Invitation to Bid (IFB-06-ENG-2017) for the construction of this project on May 12, 2017, and received no responsive and responsible bidders; and

WHEREAS, GWA advertised a second time, with the Invitation to Re-Bid (IFB-11-ENG-2017) on October 31, 2017, and again received no responsive and responsible bidders; and

WHEREAS, Following the second attempt, GWA revised the bid documents and Bid Form to include two separate, independent Bid Schedules, Bid Schedule A and Bid Schedule B, with Bid Schedule A being primarily repairs by Cured-In-Place-Pipe installation, and Bid Schedule B being repairs entirely by Open Cut and Replacement; and

WHEREAS, GWA advertised the next Invitation to Re-Bid (IFB-05-ENG-2018) on May 4, 2018, with the two revised Bid Schedules; and

WHEREAS, Bid Schedule A will be opened first, and if bids should be opened and found to be responsive and responsible, the lowest responsive and responsible bid will be selected; and

WHEREAS, if no Contractors submit for Bid Schedule A, Bid Schedule B will then be opened, and the lowest responsive and responsible bid will be selected from Bid Schedule B; and

WHEREAS, DCA and GWA negotiated the price for the construction management services to be provided if either Bid Schedule A or Bid Schedule B is selected; and

WHEREAS, If Bid Schedule A is selected, the construction management services with DCA will be in the amount of Six Hundred Eighty-Three Thousand Nine Hundred Thirty-One Dollars and Thirty-Four Cents ($683,931.34) on a Time and Materials basis (See EXHIBIT C – Fee Proposal); and

WHEREAS, If Bid Schedule B is selected, the construction management services with DCA will be in the amount of Eight Hundred Seventy Thousand Six Hundred Ten Dollars and Forty-One Cents ($870,610.41) on a Time and Materials basis (See EXHIBIT C – Fee Proposal); and

WHEREAS, GWA Management seeks approval of the fee proposal for the Scope of Work relative to the construction Bid Schedule B, which includes construction management, inspection, and project coordination services during construction of Eight Hundred Seventy Thousand Six Hundred Ten Dollars and Forty-One Cents ($870,610.41), plus a ten percent (10%) contingency of Eighty-Seven Thousand Sixty-One Dollars and Four Cents ($87,061.04), for a total amount of Nine Hundred Fifty-Seven Thousand Six Hundred Seventy-One Dollars and Forty-Five Cents ($957,671.45); and

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

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

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the fee proposal submitted by Duenas, Camacho & Associates, Inc. (DCA) are fair and reasonable.
3. The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
4. The CCU hereby authorizes the management of GWA to enter into a contract with DCA in the amount of Eight Hundred Seventy Thousand Six Hundred Ten Dollars and Forty-One Cents ($870,610.41) (EXHIBIT C).
5. The CCU hereby further approves the total funding amount for this project of Eight Hundred Seventy Thousand Six Hundred Ten Dollars and Forty-One Cents ($870,610.41), plus a ten percent (10%) contingency of Eighty-Seven Thousand Sixty-One Dollars and Four Cents ($87,061.04), to bring the total authorized funding amount to a maximum of Nine Hundred Fifty-Seven Thousand Six Hundred Seventy-One Dollars and Forty-Five Cents ($957,671.45).

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

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DULY AND REGULARLY ADOPTED, this 22nd day of May 2018.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

J. GEORGE BAMBA
Secretary

SECRETARY'S CERTIFICATE

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

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

AYES: 4

NAYS: 0

ABSTENTIONS: 0

ABSENT: 1



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Exhibit A (1 of 2)

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

May 19, 2017

To: Thomas F. Cruz, P.E., Chief Engineer

From: Gloria P. Bensan
Chairperson, Consultant Selection Board

Subject: RFP-04-ENG-2017
Construction Management Services for the Asan-Adelup-Hagatna, Route 1 Sewerline Rehabilitation and Replacement
GWA Project No. S15-002-EPA

The following information is intended to document the evaluation process undertaken for the referenced solicitation.

EVALUATION COMMITTEE MEMBERS	
Name	**Title**
Clinton Huntington II	Senior Engineer
Rylma Carino	Junior Engineer
Anthony Chargualaf	Operations Manager
George Watson	Brown & Caldwell, PMO

Consultant	Evaluation Score				Total	Rank
1. AmOrient	85	89	81	75	330	4
2. EMPSCO Engineering Consultants	62	90	86	86	324	5
3. LYON	80	85	80	70	315	7
4. E.M. Chen & Associates, Inc.	77	88	81	70	316	6
5. Duenas, Camacho & Associates	82	92	92	90	356	1
6. TG Engineers, PC	83	91	90	85	349	2
7. Coeval Design Partners	70	84	74	66	294	8
8. AECOM	75	89	86	89	339	3

Scores were evaluated based on sum of the individual scores. The recommendation of the evaluation committee is shown in the ranking above.

Please review and approve at your earliest convenience so that we may proceed with the notification letters.

Exhibit A (2 of 2)

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, Guam 96913

MEMORANDUM

TO: Thomas F. Cruz, P.E., Chief Engineer

FROM: Gloria P. Bensan

SUBJECT: CM Selection

DATE: May 18, 2017

Per our discussion with the General Manager and Legal Counsel on May 15, 2017, the CM selection team reconvened on May 16, 2017 at 2:30 pm to discuss the merits of evaluation for each proposal submitted for the following projects:

1. Asan-Adelup-Hagatna, Route 1 Sewerline Rehabilitation and Replacement
2. Route 2 War in the Pacific National Park Sewerline Rehabilitation and Replacement

Each selection committee reviewed the RFP proposals and reevaluated them based on the predetermined set of criteria. Committee members obtained reasonable, rational and consistent basis for their scores in comparison to the evaluation criteria outlined in the solicitation documents and determined the final ranking of proposers as shown in the attached evaluation summary.

Exhibit B (1 of 1)

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, Guam 96913

MEMORANDUM

To: Miguel C. Bordallo, P.E., General Manager

From: Thomas F. Cruz, P.E., Chief Engineer

Subject: RFP-04-ENG-2017
Construction Management Services for the Asan-Adelup-Hagatna, Route 1 Sewerline Rehabilitation and Replacement
GWA Project No. S15-002-EPA

Date: May 19, 2017

The Selection Committee has completed all necessary actions for selecting the most qualified consultant for the referenced solicitation. All proposals were reviewed and scored according to the conditions established in the solicitation. The evaluation summary sheet is attached for your information.

The committee recommends the following top three (3) firms in order of preference for the project:

1. Duenas, Camacho & Associates
2. TG Engineers, PC
3. AECOM

Concurred:

VINCENT E. GUERRERO
~~Supply Management~~ Administrator

5/22/2017
Date

GENERAL MANAGER'S DETERMINATION

Consultant Firm Selected:

Duenas Camacho & Assoc.

Remarks:

MIGUEL C. BORDALLO, P.E.
General Manager

5.23.17
Date

Exhibit C (1 of 9)

Website: www.dcaguam.com
Email: dca@dcaguam.com

April 23, 2018

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

Attention: **Mr. Thomas F. Cruz, Chief Engineer, GWA / George Watson, Brown & Caldwell**

Subject: **GWA RFP-04-ENG--2017, Construction Management Services for Asan-Adelup-Hagatna Route 1 Sewerline Rehabilitation and Replacement, GWA Project No. S15-002-EPA**

Re: *Revised* Fee Proposal Related to Bid Schedules A and B

Hafa Adai:

Duenas, Camacho & Associates, Inc. is pleased to submit this *revised* fee proposal for **GWA RFP-04-ENG-2017, Construction Management Services for Asan-Adelup-Hagatna Route 1 Sewerline Rehabilitation and Replacement, GWA Project No. S15-002-EPA.** The revisions and updates include the following:

1. Fee estimates for:
   a. CM Services under Base Bid Schedule A – CIPP Rehabilitation of Existing Sewer Lines
      Revised Fee Estimate: $683.931.34 including a $10,000 Time & Material allowance for Material Testing
   b. ~~CM Services under Base Bid Schedule B – Cut and Cover Construction of New Sewer Lines~~
      ~~**Fee Estimate: $654,143.21 including a $20,000 Time & Material allowance for Material Testing**~~
      Revised estimate for Bid Schedule B attached.
2. 2018 (current) DCA Personnel Labor and OH Rates
3. A GRT Tax Rate of 5% (recently enacted into law)

Our revised fee estimates for construction management services for each Bid Schedule are supported by the following:

- Detailed Fee Breakdown showing an estimate of effort and expenses
- Exhibit A – Estimated expenses for DCA and CH2M submitted earlier (no change)
- Deletion of Secure Safe Solutions for video surveillance (as requested by GWA)

As indicated in our Proposal submitted in response to the subject RFP, DCA will retain CH2M (our CM Team CIPP Specialist) if a Construction Contract is awarded under Base Bid Schedule A – CIPP Rehabilitation of Existing Sewer Lines. Geo-Engineering & Testing Inc. will provide geotechnical consultation and quality assurance material testing services. The cost for video surveillance by Secure Safe Solutions has been removed at GWA's request.

The estimate of CM effort is based on the following assumptions:

1. The Scope of CM services and tasks as described in the RFP;
2. Base Bid Schedules A and B as described in the amended Bid Form provided to DCA;
3. Project construction duration of 450 calendar days;
4. Full-time resident inspection and supplementary inspection (25% of resident inspection effort for CM Services under Base Bid Schedule A and 50% of resident inspection effort for CM services under Base Bid Schedule B);

Exhibit C (2 of 9)

April 23, 2018

5. Part-time CM support by our CIPP Specialist from CH2M under Base Bid Schedule A;
6. Current (2018) DCA personnel rates (loaded).

We look forward to negotiations.

Sincerely,

//Signed
JOHN P. DUENAS, P.E.
President
Enclosures

ENGINEERING * PLANNING * SURVEYING * ENVIRONMENTAL SERVICES * GEOGRAPHIC INFORMATION SYSTEM * CONSTRUCTION MANAGEMENT
GUAM P.O. Box 8900, Tamuning, Guam 96931/238 E. Marine Corps Drive, Suite 201 Diamond Plaza, Hagatña, GU 96910-5194 Tel: (671) 477-7991/Fax: (671) 479-6315
SAIPAN PMB 164, Box 10000, Saipan, MP 96950/Island Commercial Ctr., Chalan Pale Arnold Road, Gualo Rai, Saipan 96950 / Tel: (670) 234-9017/Fax: (670) 234-3842

Exhibit C (3 of 9)

Consolidated Fee Estimate

EXHIBIT A - BASE BID SCHEDULE A
DCA EXPENSES

DUENAS, CAMACHO & ASSOCIATES, INC MANAGEMENT SERVICES FOR ASAN-ADELUP-HAGATNA ROUTE 1 SEWERLINE REHABILITATION AND CONSTRUCTION					
	CM Inspection Related Expenses	Unit	Quan	Rate	Cost
1	**Miscellaneous Expenses**	LS			$ 500.00
2	Mileage (Inspection)	mi	3200	$ 0.33	$ 1,161.60
3	Mileage (miscellaneous)	mi	2800	$ 0.33	$ 1,016.40
4	Pictures, video, etc.	LS			$ 250.00
5	Reproduction	LS			$ 3,500.00
6	Communications, etc.	LS			$ 500.00
7	Miscellaneous Survey Materials	LS			$ 250.00
		GRT	5.25%		**$ 376.85**
		DCA EXPENSES			**$ 7,554.85**

CH2M EXPENSES

CH2M MANAGEMENT SERVICES FOR ASAN-ADELUP-HAGATNA ROUTE 1 SEWERLINE REPLACEMENT, GWA PROJECT NO. S15-002-EPA CONSTRUCTION REHABILITATION AND					
		Unit	Quan	Rate	Cost
1	Travel expenses for CH2M CIPPSpec Site Visit		3	$ 3,000.00	$ 9,000.00
2	Lodging (28 days total)	Days	28	$ 215.00	$ 6,622.00
3	Meals	Days	28	$ 75.00	$ 2,310.00
4	Rental Car	Days	28	$ 50.00	$ 1,540.00
5	Misc. Expenses	Trip	3	$ 100.00	$ 330.00
	Subtotal				**$ 19,802.00**
		CH2M EXPENSES			**$ 19,802.00**

Exhibit C (4 of 9)

GUAM WATERWORKS AUTHORITY
CONSTRUCTION MANAGEMENT SERVICES FOR ASAN-ADELUP-HAGATNA ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT,
GWA PROJECT NO. S15-002-EPA

SCHEDULE A - BASE BID: CIPP

Task No.	Task Description		Duenas, Camacho & Associates, Inc. (DCA)													CH2M				"Go-to-Engineering & Testing (E M Support)"			
			Principal In Charge	Construction Manager	Project Construction Manager	Resident Construction Inspector	Construction Inspector (Stage/Chemistry)	Civil Engineer (CM Support)	Staff Engineer (CM Support)	Engineering Technician (CM Support)	Chief Environmental Scientist	3-Man Crew	Chief Surveyor	Administrative Assistant (CM Support)	TOTALS	CHCM Project Manager (CM Support)	CHCM Project Engineer (CIPP QC Specialist)	CHCM Administrative Manager (CM Support)	TOTALS	Principal Geotechnical Engineer	Staff Engineer	Administrative Assistant	TOTAL
			PRIN	CM	PCM	RCI	CI	CE	SED	ET	CES	3MSC	RLS	ADM									
	Loaded 2018 DCA Labor Rates >>>>	No.	$ 182.86	$ 160.30	$ 111.84	$ 73.83	$ 73.83	$ 136.71	$ 67.86	$ 58.80	$ 130.81	$ 186.96	$ 131.20	$ 71.88		$ 108.56	$ 180.80	$ 144.18		$ 179.00	$ 90.00	$ 68.00	
		Units																					
	CM SERVICES - TOTALS		90	285	1299	2571	1797	338	156	100	76	144	48	403	$ 546,042.01	38	377	38	388,548.25	22	0	0	$ 3,740.00
	CONSTRUCTION MANAGEMENT SERVICES																						
A.	General Construction Management Tasks		90	281	501	0	0	4	0	0	64	0	4	264	$ 140,368.74	36.5	165	36.5	$ 34,784.56	0	0	0	$ -
1	Project Controls		90	257	0	0	0	4	0	0	4	0	4	129	$68,329.09	12	12	12	$ 3,145.92				$0.00
2	Project Correspondence		0	0	129	0	0	0	0	0	0	0	0	0	$14,276.57	0	0	0	$0.00				$0.00
a	Daily Construction Log		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
b	Weekly Status Report		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
c	Material Testing Forms		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
d	Photo Log		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
3	Review & Processing of Payment Requests	15	0	0	60	0	0	0	0	0	0	0	0	15	$7,749.68	1.5	0	1.5	$ 311.40				$0.00
4	Conduct Project Meetings		0	0	60	0	0	0	0	0	0	0	0	8	$7,317.68	0	0	0	$0.00				$0.00
5	Preconstruction Conference		0	4	4	0	0	0	0	0	0	0	0	1	$1,017.34	0	0	0	$0.00				$0.00
6	Progress Meetings		0	0	30	0	0	0	0	0	0	0	0	15	$4,409.70	0	0	0	$0.00				$0.00
7	Other Meetings		0	0	10	0	0	0	0	0	0	0	0	6	$1,469.90	1	10	1	$ 1,348.18				$0.00
8	Project Coordination		0	0	10	0	0	0	0	0	0	0	0	3	$2,297.80	0	0	0	$0.00				$0.00
9	Requests for Information		0	0	30	0	0	0	0	0	0	0	0	8	$3,935.58	1.2	12	1.2	$2,858.11				$0.00
10	General Compliance Monitoring	15	0	0	30	0	0	0	0	0	30	0	0	15	$7,618.68	0	0	0	$0.00				$0.00
a	Regulations & Laws		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
b	Labor Laws		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
c	Licensure		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
d	Permits		0	0	0	0	0	0	0	0	30	0	0	0	$4,894.50	0	0	0	$0.00				$0.00
e	Insurance		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
11	Claims and Disputes		0	0	60	0	0	0	0	0	0	0	0	8	$7,317.68	0	0	0	$0.00				$0.00
a	Records		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
b	Claims		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
12	Stop Work Orders		0	0	15	0	0	0	0	0	0	0	0	6	$2,997.30	0	0	0	$0.00				$0.00
13	Schedule Monitoring		0	0	45	0	0	0	0	0	0	0	0	15	$6,079.80	0	0	0	$0.00				$0.00
14	Acceptance		0	0	18	0	0	0	0	0	0	0	0	15	$3,077.22	0.8	8	0.8	$ 1,879.01				$0.00
B.	Interpretations and Clarifications		0	2	15	0	0	0	0	0	12	0	0	12	$4,054.32	0	0	0	$0.00	8			$1,360.00
C.	Shop Drawings/Submittals (Review and Coordination)	60	0	4	120	0	0	60	120	60	0	0	0	60	$60,451.80	2	20	2	$4,697.52				$0.00
D.	Substitutes (Evaluation and Coordination)		0	4	30	0	0	0	0	0	0	0	0	0	$3,371.40	0.4	4	0.4	$939.84				$0.00
E.	Inspections & Tests		0	0	448	2571	643	32	0	0	0	0	0	64	$ 292,580.49	32	32	32	7516.032	6	0	0	13.00
1	Resident Inspections		0	0	386	0	0	0	0	0	0	0	0	0	$42,879.78	0	0	0	$0.00	8			$1,360.00
a	Resident Inspector		0	0	0	2571	643	0	0	0	0	0	0	0	$234,617.80	0	0	0	$0.00				$0.00
b	Special Inspections		0	0	0	0	0	32	0	0	0	0	0	32	$14,756.72	3.2	32	3.2	$7,516.03				$0.00
2	Testing		0	0	60	0	0	0	0	0	0	0	0	32	$10,326.20	0	0	0	$0.00				$0.00
F.	Change Management	4	0	0	80	0	0	24	0	0	0	0	0	8	$ 12,192.24	0.8	8	0.8	$ 1,879.01	2	0	0	$ 340.00
1	Change Order Review		0	0	16	0	0	4	0	0	0	0	0	0	$2,121.48	0.2	2	0.2	$469.75	2			$340.00
2	Value Change		0	0	8	0	0	4	0	0	0	0	0	0	$1,671.18	0.2	2	0.2	$469.75				$0.00
3	Design Change/Verification Request		0	0	16	0	0	4	0	0	0	0	0	0	$2,121.48	0.2	2	0.2	$469.75				$0.00
4	Negotiation with Contractor		0	0	16	0	0	4	0	0	0	0	0	0	$2,121.48	0	0	0	$0.00				$0.00
5	Change Order Documents		0	0	16	0	0	4	0	0	0	0	0	0	$2,121.48	0.2	2	0.2	$469.75				$0.00
6	Bonds & Change Order Pricing Basis		0	0	8	0	0	4	0	0	0	0	0	0	$1,671.18	0	0	0	$0.00				$0.00
G.	Construction Survey Services	12	0	0	12	0	0	0	0	0	0	144	44	4	$30,383.64	0	0	0	$0.00				$0.00
H.	Disputes (Handling and Resolution)		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00	4			$680.00
I.	Contractor Completion Documents		0	0	64	0	48	14	32	16	0	0	0	8	$ 17,407.24	2.2	22	2.2	$ 5,169.17	0	0	0	$ -
1	Substantial Completion		0	0	8	0	0	0	0	0	0	0	0	0	$668.12	0.8	8	0.8	$1,879.01				$0.00
2	Project Records		0	0	8	0	0	0	8	24	0	0	0	0	$2,981.40	0	0	0	$0.00				$0.00
3	Punch List Development		0	0	8	0	24	4	4	0	0	0	0	0	$1,336.24	0.8	8	0.8	$1,879.01				$0.00
4	Closing Inspections		0	0	16	0	8	4	4	0	0	0	0	0	$3,255.54	0.4	4	0.4	$939.80				$0.00
a	Agency Acceptance Inspections		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
b	Pre-final Inspection		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
c	Final Inspection		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
5	Final Report		0	0	16	0	8	2	0	0	0	0	0	0	$2,671.74	0.2	2	0.2	$469.75				$0.00
a	Record Drawings		0	0	8	0	8	4	16	12	0	0	0	0	$4,115.16	0	0	0	$0.00				$0.00
J.	Commissioning and Startup		0	4	8	0	0	0	0	0	0	0	0	0	$1,329.32	0	0	0	$0.00				$0.00
K.	Training		0	4	12	0	16	4	4	4	0	0	0	8	$4,699.44	12	120	12	$28,169.52				$0.00
L.	Warranty		0	4	8	0	0	0	0	0	0	0	0	4	$1,329.32	0.4	4	0.4	$1,409.28				$0.00
M.	Spare Parts		0	2	4	0	0	0	0	0	0	0	0	0	$764.76	0	0	0	$0.00				$0.00

1:03 PM 4/20/18

Exhibit C (5 of 9)

Task No.	Task Description	Principal In Charge	Construction Manager	Project Construction Manager	Resident Construction Inspector	Construction Inspector (Supplementary)	Civil Engineer (CM Support)	Staff Engineer (CM Support)	Engineering Technician (CM Support)	Chief Environmental Scientist	3-Man Crew	Chief Surveyor	Administrative Assistant (CM Support)	TOTALS	CH2M Project Manager (CM Support)	CH2M Project Engineer (CMP QC Specialist)	CH2M Administrative Manager (CM Support)	TOTALS	Principal Geotechnical Engineer	Staff Engineer	Administrative Assistant	TOTAL
		PMN	CM	PCM	RCI	CI	CE	SCD	CT	CES	3MSC	RLS	ADM									
	Loaded 2018 DCA Labor Rates >>>>>	No.	$ 182.68	$ 160.88	$ 111.04	$ 72.83	$ 73.83	$ 138.71	$ 97.88	$ 54.09	$ 100.61	$ 160.00	$ 121.23	$ 71.90		$ 208.58	$ 188.90	$ 141.15		$ 179.69	$ 88.88	$ 66.68	
	Subconsultants	**Expenses**		**Services**	**Totals**		**Reference**	**ADDITIONAL TIME & MATERIAL COSTS**														
1	CH2M	$ 19,802.00		$ 88,548.25	$ 108,350.25		Exhibit A															
2	GeoEngineering & Testing, Inc. (Consultation)			$ 3,740.00	$ 3,740.00			Item No.	Category of Cost			Estimated Cost										
3	Secure Safe Solutions (monthly cost/month)	13		$ -	$ -		Exhibit B															
		Exhibit B, Op 3						1	QA Material Testing			$ 10,000.00										
	Subtotal - Subconsultants	$ 19,815.00		$ 92,288.25	$ 112,090.25																	
	Coordination & Handling @	2.0%		$ 1,845.77	$ 2,241.81																	
	Subtotal - Subconsultants + DCA Handling			$ 94,134.02	$ 114,332.06																	

COST SUMMARY

DCA LABOR		$	546,042.01
DCA EXPENSES	Exhibit A	$	7,554.85
DCA	Subtotal	$	553,596.85
SUBCONSULTANTS	CH2M	$	108,350.25
	GeoEngineering & Testing	$	3,740.00
	Secure Safe Solutions	$	-
	Subtotal	$	112,090.25
DCA Handling	2%	$	2,241.81
GRT	5.35%	$	6,002.43
SUBTOTAL		**$**	**673,931.34**
QA Testing Time & Material (Estimated)		$	10,000.00

3:03 PM

8/20/18

Website: www.dcaguam.com
Email: dca@dcaguam.com

Exhibit C (6 of 9)

April 23, 2018

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

Attention: **Mr. Thomas F. Cruz, Chief Engineer, GWA / George Watson, Brown & Caldwell**

Subject: **GWA RFP-04-ENG--2017, Construction Management Services for Asan-Adelup-Hagatna Route 1 Sewerline Rehabilitation and Replacement, GWA Project No. S15-002-EPA**

Re: *Revised* Fee Proposal Related to Bid Schedule B

Hafa Adai:

Duenas, Camacho & Associates, Inc. is pleased to submit this *revised* fee proposal for **GWA RFP-04-ENG-2017, Construction Management Services for Asan-Adelup-Hagatna Route 1 Sewerline Rehabilitation and Replacement, GWA Project No. S15-002-EPA.** The revisions address the following changes:

1. Fee estimate for CM Services under Base Bid Schedule B – Cut and Cover Construction of New Sewer Lines based on the projected Construction Contract Completion Period from 450 to **650** calendar days. **Fee Estimate: $870,610.41 including a $20,000 Time & Material allowance for Material Testing**
2. 2018 (current) DCA Personnel Labor and OH Rates
3. A GRT Tax Rate of 5% (recently enacted into law)

Our revised fee estimate for construction management services for Base Bid Schedule B is supported by the attached detailed fee breakdown showing an estimate of effort and expenses for a construction period of 650 calendar days and the *deletion* of Secure Safe Solutions for video surveillance (as requested by GWA). Geo-Engineering & Testing Inc. will provide geotechnical consultation and quality assurance material testing services.

The estimate of CM effort is based on the following assumptions for Base Bid Schedule B:

1. The Scope of CM services and tasks as described in the RFP;
2. Base Bid Schedule B as described in the amended Bid Form provided to DCA;
3. Revised projected construction duration of from 450 to 650 calendar days;
4. Full-time resident inspection and supplementary inspection of 50% of the resident inspection effort;
5. Current (2018) DCA personnel rates (loaded).

We look forward to negotiations.

Sincerely,

//Signed
JOHN P. DUENAS, P.E.
President

Enclosures

Exhibit C(7 of 9)

EXHIBIT A - BASE BID SCHEDULE B

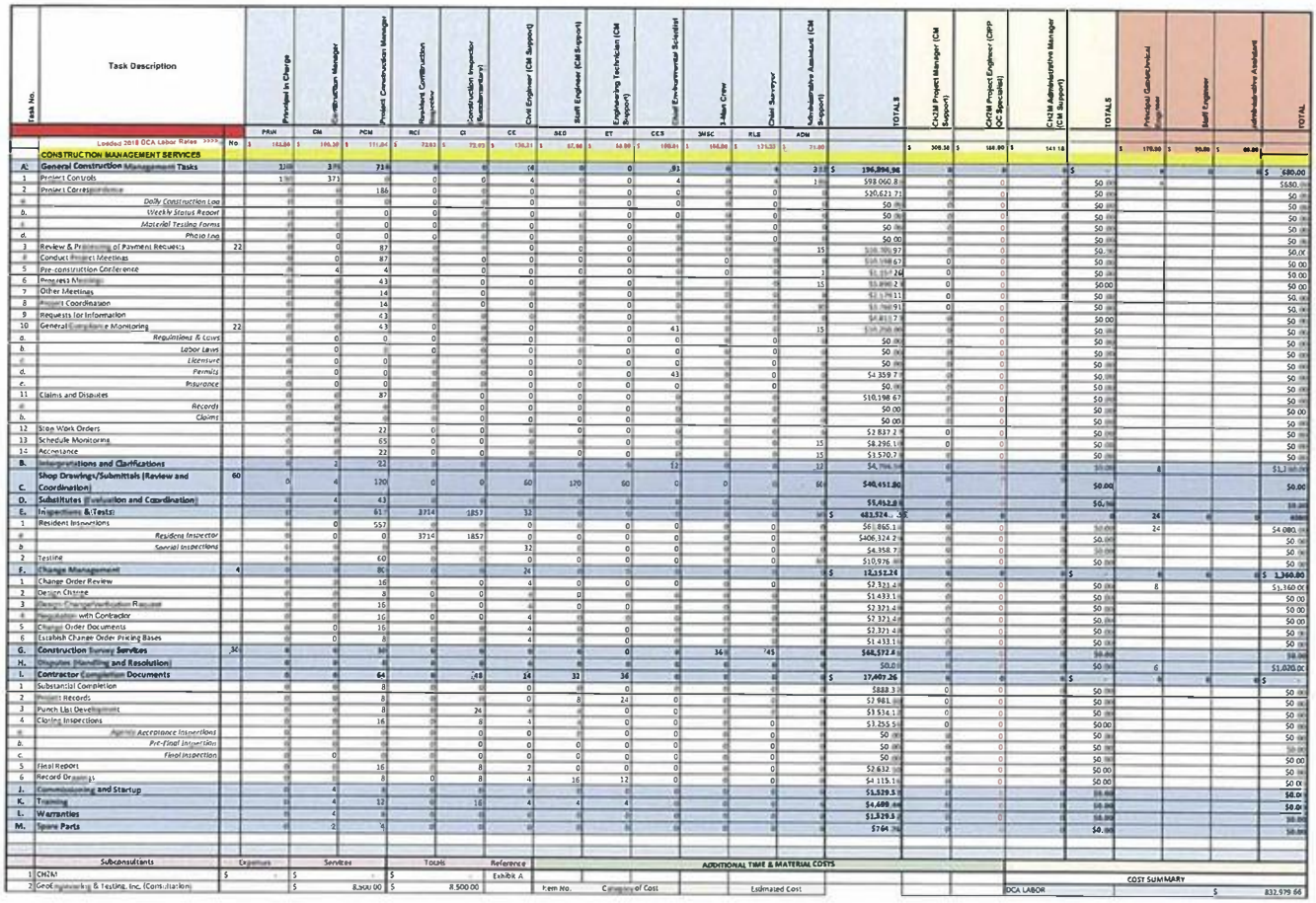
DCA EXPENSES

DUENAS, CAMACHO & ASSOCIATES, INC CONSTRUCTION MANAGEMENT SERVICES FOR ASAN-ADELUP-HAGATNA ROUTE 1 SEWERLINE					
	CM Inspection Related Expenses	Unit	Quan	Rate	Cost
1	**Miscellaneous Expenses**	LS			$ 500.00
2	Mileage (Inspection)	mi	4650	$ 0.33	$ 1,687.95
3	Mileage (miscellaneous)	mi	3150	$ 0.33	$ 1,143.45
4	Pictures, video, etc.	LS			$ 250.00
5	Reproduction	LS			$ 3,500.00
6	Communications, etc.	LS			$ 500.00
7	Miscellaneous Survey Materials	LS			$ 500.00
		GRT	5.25%		**$ 424.27**
		DCA EXPENSES			**$ 8,505.67**

CH2M EXPENSES

CH2M CONSTRUCTION MANAGEMENT SERVICES FOR ASAN-ADELUP-HAGATNA ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT, GWA PROJECT NO. S15-002-EPA					
		Unit	Quan	Rate	Cost
1	Travel expenses for CH2M CIPPSpec Site Visit		0	$ 3,000.00	$ -
2	Lodging (28 days total)	Days	0	$ 215.00	$ -
3	Meals	Days	0	$ 75.00	$ -
4	Rental Car	Days	0	$ 50.00	$ -
5	Misc. Expenses	Trip	0	$ 100.00	$ -
	Subtotal				$ -
		CH2M EXPENSES			**$ -**

Exhibit C (8 of 9)



Task No.	Task Description	Principal in Charge	Construction Manager	Project Construction Manager	Resident Construction Inspector	Construction Inspector (Intermittent)	Civil Engineer (CM Support)	Staff Engineer (CM Support)	Engineering Technician (CM Support)	Chief Environmental Scientist	3-Man Crew	Chief Surveyor	Administrative Assistant (CM Support)	TOTALS	CH2M Project Manager (CM Support)	CH2M Project Engineer (CPP QC Specialist)	CH2M Administrative Manager (CM Support)	TOTALS	Principal Geotechnical Engineer	Staff Engineer	Administrative Assistant	TOTAL
	Loaded 2018 DCA Labor Rates >>>>	PRIN	CM	PCM	RCI	CI	CE	SEG	ET	CES	3MSC	RLS	ADM									
		No.	$ 185.00	$ 195.30	$ 171.84	$ 72.03	$ 72.03	$ 136.31	$ 87.66	$ 56.80	$ 100.61	$ 166.00	$ 173.53	$ 71.80		$ 308.36	$ 168.00	$ 141.18		$ 170.00	$ 90.00	$ 60.00	
	CONSTRUCTION MANAGEMENT SERVICES																					
A:	**General Construction Management Tasks**		12	3	72			14		0	91		4	3	$ 196,894.98			$ -				$ 680.00
1	Project Controls		1	371		0	0	4		0	4		4	1	$98 060.8		0	$0.00				$680.00
2	Project Correspondence			186		0		0		0	0		0		$20,621.71		0	$0.00				$0.00
a.	*Daily Construction Log*			0		0		0		0	0		0		$0.00		0	$0.00				$0.00
b.	*Weekly Status Report*			0		0		0		0	0		0		$0.00		0	$0.00				$0.00
c.	*Material Testing Forms*			0		0		0		0			0		$0.00		0	$0.00				$0.00
d.	*Photo Log*			0		0		0		0			0		$0.00		0	$0.00				$0.00
3	Review & Processing of Payment Requests	22		0	87			0	0	0				15	$16,709.97		0	$0.00				$0.00
4	Conduct Project Meetings			0	87		0	0	0	0		0			$16,198.67	0	0	$0.00				$0.00
5	Pre-construction Conference			4	4		0	0	0	0		0		2	$1,317.14	0	0	$0.00				$0.00
6	Progress Meetings				43		0	0		0				15	$3,896.24	0	0	$0.00				$0.00
7	Other Meetings				14		0			0					$2,179.11	0	0	$0.00				$0.00
8	Project Coordination				14		0	0		0					$1,760.91	0	0	$0.00				$0.00
9	Requests for Information				43					0					$4,811.17		0	$0.00				$0.00
10	General Compliance Monitoring	22			43		0			0	41			15	$10,709.97		0	$0.00				$0.00
a.	*Regulations & Laws*			0	0		0			0	0		0		$0.00		0	$0.00				$0.00
b.	*Labor Laws*			0	0		0			0	0		0		$0.00		0	$0.00				$0.00
c.	*Licensure*			0	0		0	0		0	0		0		$0.00		0	$0.00				$0.00
d.	*Permits*			0	0		0			0	43		0		$4,359.71		0	$0.00				$0.00
e.	*Insurance*			0	0		0	0		0	0		0		$0.00		0	$0.00				$0.00
11	Claims and Disputes				87		0	0		0					$10,198.67		0	$0.00				$0.00
a.	*Records*						0	0		0					$0.00		0	$0.00				$0.00
b.	*Claims*						0	0		0					$0.00		0	$0.00				$0.00
12	Stop Work Orders				22	0	0	0		0					$2,837.29	0	0	$0.00				$0.00
13	Schedule Monitoring				65	0	0			0				15	$8,296.16	0	0	$0.00				$0.00
14	Acceptance				22	0	0			0				15	$3,570.71		0	$0.00				$0.00
B.	**Interpretations and Clarifications**			2	22						12			12	$4,706.94			$0.00				$0.00
C.	**Shop Drawings/Submittals (Review and Coordination)**	60	0	4	170	0	0	60	170	60	0	0		60	$48,451.80			$0.00	8			$1,360.00
D.	**Substitutes (Evaluation and Coordination)**			4	43										$5,452.80			$0.00				$0.00
E.	**Inspections & Tests:**				61	3714	1857	32							$23,524.52			$0.00	24			$480.00
1	Resident Inspections			0	557			0		0	0		0		$61,865.18		0	$0.00	24			$480.00
a.	*Resident Inspector*			0	0	3714	1857	0	0	0	0		0		$406,324.20		0	$0.00				$0.00
b.	*Special Inspections*							32	0	0	0		0		$4,958.72		0	$0.00				$0.00
2	Testing				60			0	0	0	0		0		$10,976.48		0	$0.00				$0.00
F.	**Change Management**	4			80			24							$12,152.24			$ -				$1,360.00
1	Change Order Review				16		0	4	0	0	0		0		$2,321.44		0	$0.00	8			$1,360.00
2	Design Change				8	0	0	0							$1,433.16		0	$0.00				$0.00
3	Design Change/Justification Request				16		0	4	0	0					$2,321.44		0	$0.00				$0.00
4	Negotiation with Contractor				16	0	0	4							$2,321.44		0	$0.00				$0.00
5	Change Order Documents			0	16			4		0					$2,321.44		0	$0.00				$0.00
6	Establish Change Order Pricing Bases			0	8			4		0					$1,433.16		0	$0.00				$0.00
G.	**Construction Survey Services**	30			30					0		36	745		$68,172.40			$0.00				$0.00
H.	**Disputes Handling and Resolution**														$0.00			$0.00	6			$1,020.00
I.	**Contractor Completion Documents**				64		28	14	32	16					$7,407.26			$ -				$ -
1	Substantial Completion				8			0		0					$888.32	0	0	$0.00				$0.00
2	Project Records				8			0	8	24	0				$7,981.12	0	0	$0.00				$0.00
3	Punch List Development				8		24	4		0	0				$3,534.12	0	0	$0.00				$0.00
4	Closing Inspections				16		8	4		0	0		0		$3,255.56	0	0	$0.00				$0.00
a.	*Agency Acceptance Inspections*						0	0		0	0		0		$0.00		0	$0.00				$0.00
b.	*Pre-Final Inspection*						0	0	0	0	0		0		$0.00		0	$0.00				$0.00
c.	*Final Inspection*			0			0	0	0	0	0		0		$0.00		0	$0.00				$0.00
5	Final Report				16		8	7	0	0	0		0		$2,632.72		0	$0.00				$0.00
6	Record Drawings				8	0	8	4	16	12	0		0		$4,115.16		0	$0.00				$0.00
J.	**Commissioning and Startup**			4	8										$1,329.52			$0.00				$0.00
K.	**Training**			4	12		16	4	4	4					$4,489.68			$0.00				$0.00
L.	**Warranties**			4	8										$1,329.52			$0.00				$0.00
M.	**Spare Parts**			2	4										$764.76			$0.00				$0.00

Subconsultants	Expenses	Services	Totals	Reference
1 CH2M	$ -	$ -	$ -	Exhibit A
2 Geotechnical Engineering & Testing, Inc. (Consultation)		$ 8,300.00	$ 8,500.00	

ADDITIONAL TIME & MATERIAL COSTS		
Item No.	Category of Cost	Estimated Cost

COST SUMMARY	
DCA LABOR	$ 832,979.66

Exhibit C (9 of 9)

Task No.	Task Description	Principal in Charge	Construction Manager	Project Construction Manager	Resident Construction Inspector	Construction Inspector (Supplementary)	Civil Engineer (CM Support)	Staff Engineer (CM Support)	Engineering Technician (CM Support)	Chief Environmental Scientist	2-Man Crew	Chief Surveyor	Administrative Assistant (CM Support)	TOTALS	CH2M Project Manager (CM Support)	CH2M Project Engineer (CM QA Specialist)	CH2M Administrative Manager (CM Support)	TOTALS	Principal Geotechnical Engineer	Staff Engineer	Administrative Assistant	TOTAL
	Loaded 2018 DCA Labor Rates >>>>>	No.	$ 163.58	$ 160.30	$ 174.84	$ 72.92	$ 72.92	$ 136.21	$ 87.88	$ 58.90	$ 108.61	$ 106.80	$ 131.32	$ 71.30		$ 300.34	$ 189.90	$ 141.18		$ 170.88	$ 98.88	$ 88.84	
3	Secure Safe Solutions (months/cost/month)	13		$ -		$ -		Exhibit B										DCA EXPENSES		Exhibit A		$	8,505.67
			E Exhibit B, Op 3						1	QA Material Testing			$	20,000.00				DCA		Subtotal		$	841,485.33
																		SUBCONSULTANTS			CH2M	$	-
	Subtotal - Subconsultants	$	13.00	$	8,500.00	$	8,500.00													GeoEngineering & Testing	$	8,500.00
	Coordination & Handling @	2.0%		$	170.00	$	170.00													Secure Safe Solutions	$	-
	Subtotal - Subconsultants + DCA Handling			$	8,670.00	$	8,670.00													Subtotal	$	8,500.00
																				DCA Handling	2%	$	170.00
																				GRT	5.25%	$	455.18
																		SUBTOTAL				$	850,610.51
																		QA Testing Test & Material (Tasks-ated)				$	20,000.00
																		TOTAL				$	870,610.51

8:00 AM

4/16/18

EXHIBIT B

Website: www.dcaguam.com
Email: dca@dcaguam.com

November 6, 2020

Miguel C. Bordallo, P.E.
General Manager, Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam, 96913

Attn: John Riegel P.E., Brown & Caldwell Project Manager

Subject: **RFP 04-ENG-2017, GWA S15-002-EPA, Asan-Adelup-Hagatna – Route 1 Sewer Rehabilitation and Replacement**

Ref: **Change Order for Construction Management Services for the Asan-Adelup-Hagatna – Route 1 Sewer Rehabilitation and Replacement – Phase II**

Hafa Adai Mr. Riegel,

At the request of GWA, Duenas, Camacho and Associates (DCA) is submitting this change order proposal for the referenced services. This change order is intended to provide services for Phase II of the subject project in accordance with DCA's construction management services contract with GWA dated July 31, 2018. The construction duration used for this proposal is 425 calendar days. The fee for this change order proposal is**: $571,550.**

Sincerely,

Kenneth M. Rekdahl, P.E.
Vice-President
Dueñas, Camacho & Associates, Inc.

Att:
Fee Breakdown

Route 1 CM Phase II.xlsx — Fee Estimate

	Task Description		Principal	Project Manager	Civil Engineer	Structural Engineer	Project Engineer	Environmental Engineer	Staff Engineer/Designer	Spec Writer	Cost Estimator	Engineering Tech	CAD Tech	Sr CAD Tech	Planner	GIS Specialist	Chief Environmental Scientist	Environmental Scientist	Construction Manager	Project Construction Engr	Inspector	Chief Surveyor	2-Man Crew	3-Man Crew	4-Man Crew	Surveyor	Assistant Chief Surveyor	Crew Chief	Computer	Cartographer	Instrument Man	Survey Tech	Survey Researcher	Survey Aide	Administrative Assistant	Secretary	
			PRIN	PM	CE	SE	PE	EE	SED	SPEC	CEST	ETECH	CAD	CAD3	PLNR	GIS	CES	ES	CM	PCE	INSP	RLS	2MSC	3MSC	4MSC	SUR	ASUR	SPC	COMP	CART	INSM	STECH	SVYRSR	SAID	ADM	TYP	Total
	Direct Labor Rates >>>>>	No. of Dwgs	$ 183.00	$ 149.00	$ 136.00	$ 172.00	$ 126.00	$ 115.00	$ 89.00	$ 134.00	$ 127.00	$ 57.00	$ 48.00	$ 59.00	$ 109.00	$ 82.00	$ 101.00	$ 89.00	$ 160.00	$ 112.00	$ 74.00	$ 114.00	$ 123.00	$ 161.00	$ 195.00	$ 115.00	$ 88.00	$ 61.00	$ 75.00	$ 67.00	$ 54.00	$ 58.00	$ 53.00	$ 34.00	$ 72.00	$ 67.00		
	Total Sheet Count and Effort >>>>	0	0	60	0	0	740	0	80	0	0	0	0	0	0	0	340	0	436	672	3046	0	0	64	0	0	8	0	0	0	0	0	0	0	0	0	$ 527,636.00
A.	**Pre Construction Services**		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	48	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$ 13,352.00
1	CM Plan																		24	24																	$ 6,528.00
2	QA Plan																		16	16																	$ 4,352.00
3	Bidding Support																																				$ -
4	Document Review																		8	8	4																$ 2,472.00
5																																					$ -
6																																					$ -
B.	**Construction Phase Services**		0	8	0	0	740	0	80	0	0	0	0	0	0	0	340	0	388	624	3042	0	0	64	0	0	8	0	0	0	0	0	0	0	0	0	$ 503,976.00
1	Project records and Document Control (Procore), Weekly	60		4					30																												$ 3,266.00
2	Daily Construction Reports, week	55		4															27.5	55																	$ 11,156.00
3	Progress Photo Logs, week	60																		60																	$ 6,720.00
4	Submittal, ea	15																	7.5	30																	$ 4,560.00
5	Shop Drawing review, day	15					60													15																	$ 9,240.00
6	Project Schedule (month)	18																	9	36																	$ 5,472.00
7	Payment Request, ea (month)	14																	14	84																	$ 11,648.00
8	Payroll Review, ea	14																		28																	$ 3,136.00
9	Project meetings, week	60																	90	120	30																$ 30,060.00
10	As built control, week	50							50																												$ 4,450.00
11	RFIs, ea	20																	20	80																	$ 12,160.00
12	mpliance monitoring, week 80% of duration	340					680										340																				$ 120,020.00
13	Claims and disputes																		40	80																	$ 15,360.00
14	Change order negotiation and review																		60																		$ 9,600.00
15	DCVR																		24																		$ 3,840.00
16	ion monitoring (days), 80% of duration X1.1	340																			2992																$ 221,408.00
17	Testing QA																		24																		$ 3,840.00
18	Acceptance																		40																		$ 6,400.00
19	Construction Survey services, daily saite visit	8																	8					64			8										$ 12,288.00
20	Project Closeout																		24	20	20																$ 7,560.00
21	Training and Warranty																			16																	$ 1,792.00
22																																					$ -
23																																					$ -
C	**Post Construction Services**	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$ 10,308.00
1	Final Report			24																																	$ 3,576.00
2	Record Drawings			12																																	$ 1,788.00
3	Closeout Meetings			16															16																		$ 4,944.00
4																																					$ -
5																																					$ -
6																																					$ -
7																																					$ -
9																																				Direct Labor	$ 527,636.00

	Subconsultants	DL	Fee
S.1	Conc/GEO Testing		$ -
S.2	TRMA		
S.3	CH2		$ -
S.4	EMCE (ESTIMATE)		$ -
S.5			
S.6			
S.7			
	Subtotal - Subconsultants	$ -	$ -
	Coordination & Handling @	5%	$ -
	Subtotal - Subconsultants + DCA Handling		$ -

	DCA Expenses	Unit	Quan	Rate	Cost
1	Procore Based on $6.0M Construction cost	1	1	$ -	$ 14,904.00
2	Mileage	1	10	$ 50.00	$ 500.00
3		1	0		$ -
4		1	0		$ -
5		1	0		$ -
6		1	0		$ -
7		1	0		$ -
8		1	0		$ -
9		1	0		$ -
10				Subtotal - Expenses	$ 15,404.00

COST SUMMARY

1	LABOR				$ 527,636.00
2	OVERHEAD @	Included			
3	SUBCONSULTANTS		Subtotal, Subconsultants+DCA Handling		$ -
4	Subtotal		Row 1 + Row 3		$ 527,636.00
5	PROFIT	Included			
6	EXPENSES		Expenses		$ 15,404.00
7	Subtotal		Row 4 + Row 6		$ 543,040.00
8	GRT	@ 5.25%			$ 28,509.60
			Total		$ 571,549.60
				Say	$ 571,550

PROCORE

Duenas, Camacho and Assocait

Option 1

Year 1

ACV: 4.2 million

Name	Price
Project Management Pro	$7,925
Quality & Safety	$2,510
Total	**$10,435**

Total Price: **$10,435**

$10,435/4.2 =
$2,484 per $1M
$2,484 X 6M =
$14,904

Option 2

FYI, this amount was if the contract was executed earlier this year

Year 1

ACV: 4.2 million

Name	Price
Project Management Pro	$6,700
Quality & Safety	$2,250
Total	**$8,950**

Total Price: **$8,950**

The pricing presented should be considered as non-binding budgetary pricing to be leveraged for modeling and scenario planning, and as such, is subject to formal approval before it can be considered final.

Procore Products

Connect the entire business process from bidding to closeout with every member of your team working together in the same system.

TOOLS INCLUDED WITH ALL PRODUCTS*

DIRECTORY
Everyone's digits, under the control of yours.

DOCUMENTS
When documents go digital, nothing gets lost.

APP MARKETPLACE
With over 150 partner solutions in our App Marketplace, connect with what works best for you—even if we don't build it.

TASKS
Track and manage every coordination-related step in your process.

REPORTS
Insights to help you analyze every detail.

* Excluding Invoice Management, Design Coordination and BIM.

PROJECT MANAGEMENT

Project Management Pro

RFIs
RFI software to remind, record, and remove excuses.

PUNCH LIST
Streamline construction with punch list software.

DAILY LOG
Capture everything you need to report to the office.

PHOTOS
Capture your questions, skills, and results in a snap.

DRAWINGS
Revisions won't need markers, scissors, sticky notes, or tape.

SPECIFICATIONS
Intelligent Spec Management—save time while doing more.

TIMECARD
Fast time tracking for the project management team.

SCHEDULE
Minimize confusion with integrated scheduling.

SUBMITTALS
Don't let inaccuracy sink your projects.

EMAILS
Open your inbox to everything you need to know.

MEETINGS
Manage all aspects of your project meetings.

TRANSMITTALS
Don't lose sleep over your important documents.

*Project Management Starter is also available - includes RFIs, Daily Log, Drawings, Punch List, Photos and Specifications.

PROCORE

procore.com | 866 477 6267

The pricing presented should be considered as non-binding budgetary pricing to be leveraged for modeling and scenario planning, and as such, is subject to formal approval before it can be considered final.

PROJECT MANAGEMENT

Quality & Safety

INSPECTIONS
Proactively identify hazards before they injure more than your reputation.

OBSERVATIONS
Track, assign, and report upon multiple types of observations and corrective actions on the fly.

INCIDENTS
Digitally capture and manage incidents easily and accurately.

DAILY LOG
Capture everything you need to report to the office.

FORMS
Simple to complex fillable PDF forms at your fingertips.

SCHEDULE
Minimize confusion with integrated scheduling.

PHOTOS
Capture your questions, skills, and results in a snap.

Design Coordination

COORDINATION ISSUES
Identify and resolve constructability issues prior to construction.

BIM

MODELS
Extremely performant BIM viewer.

FINANCIAL MANAGEMENT*

Project Financials

COMMITMENTS
Real-time statuses and values of all contracts and purchase orders.

CHANGE EVENTS
The new standard in construction for managing potential costs as they occur.

BUDGETS
Avoid profit erosion with accurate, configurable budgets.

CHANGE ORDERS
Reduce unrecoverable change orders with quicker approvals.

PRIME CONTRACT
Replace stacks of paper and printing costs with digital contract management.

COST MANAGEMENT
Avoid the price of being over budget with cost management.

Invoice Management

OWNER INVOICING
Prefill owner invoices with approved subcontractor invoices.

SUBCONTRACTOR INVOICING
Empower the trades to be proactive about monthly invoices.

*Accounting Integrations available - additional fees apply.

PROCORE

procore.com | 866 477 6267

The pricing presented should be considered as non-binding budgetary pricing to be leveraged for modeling and scenario planning, and as such, is subject to formal approval before it can be considered final.

PRECONSTRUCTION

Prequalification

PREQUALIFICATIONS
Manage the entire qualification process from forms to approvals.

PREQUALIFICATION PORTAL
Complete and submit qualification forms on a secure online platform.

Bid Management

BIDDING
Manage the entire bidding process from bid package creation to bid award.

PLANROOM
Access bid package details, files, and communications in order to submit a bid.

RESOURCE MANAGEMENT

Field Productivity

TIMESHEETS
Track employee and crew time for all projects on mobile or web.

T&M TICKETS
Document and track out-of-scope work to get paid for everything you do.

CREWS
Add, group, and edit crews—with one mobile, flexible tool.

TIMECARD
Fast time tracking for the project management team.

PRODUCTION TRACKING
Compare budgeted versus actual quantities to see percentage complete against each cost code.

PLATFORM

Analytics

PROCORE ANALYTICS
Leverage Analytics to turn project data into business insight.

DATA EXTRACT
Extract and combine data from Procore and across your tech stack.

PROCORE

procore.com | 866 477 6267

The pricing presented should be considered as non-binding budgetary pricing to be leveraged for modeling and scenario planning, and as such, is subject to formal approval before it can be considered final.

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. 05-FY2021
Relative to the Creation of the Assistant General Manager- Engineering (AGME) (Unclassified) Position at the Guam Waterworks Authority.

What is the project's objective and is it necessary and urgent?
The creation the Assistant General Manager – Engineering (AGM-E) job standards and salary range based on the 20th market percentile, 2017 market data; to support the Authority's planning, engineering and permitting functions, as well as to enhance engineering support for daily operations within the Water and Wastewater Divisions; to provide effective and efficient delivery of GWA's Capital Improvement Program for continual infrastructure renewals and replacements needed to support the delivery of safe drinking water and wastewater services to the community.

In line with adopted CCU objectives for enhanced management structure, the Authority currently employs one Assistant General Manager for Compliance & Safety, one Assistant General Manager – Administration & Support, and an (interim) Assistant General Manager – Operations. The engineering and planning divisions are led by the Chief Engineer (Acting). The General Manager is requesting to replace the currently vacant Chief Engineer position with the Assistant General Manager – Engineering position which will elevate the level of accountability, performance and responsibility over the engineering, planning, permitting and related functions of the utility, as are present for the Operations, Compliance & Safety, and Administrative functions. The position will report directly to the General Manager.

Where is the location?
The Assistant General Manager – Engineering (AGME) (Unclassified) position will be organizationally located within the General Manager's, under the general direction of the General Manager.

How much will it cost?
There is no cost to create the position.

When will it be completed?
Public Law 28-159, Section 7.0.3 (c) requires GPA and GWA to post a petition on their websites for ten (10) days (not including Saturdays, Sundays and government of Guam holidays. GWA has met the posting requirements and the position creation can be acted upon by the CCU at the November 24, 2020 meeting.

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

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

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

RESOLUTION NO. 05-FY2021

RELATIVE TO THE APPROVAL OF THE CREATION OF THE ASSISTANT GENERAL MANAGER -ENGINEERING (AGME) (UNCLASSIFIED) JOB CLASSIFICATION STANDARD

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

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

WHEREAS, the GWA General Manager requests the CCU to approve the creation of the Assistant General Manager – Engineering (AGME) (Unclassified) position (Exhibit A); and

WHEREAS, the GWA General Manager requests the CCU to approve the job classification standards of the Assistant General Manager – Engineering (AGME) position in the unclassified status; and

WHEREAS, Public Law 34-131, Section 2, §6303(e) as added and 4 GCA §6303 (d) & (2C) authorizes the creation of positions in Autonomous Agencies and Public Corporations; and

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

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

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The creation of the job classification standard for the Assistant General Manager – Engineering (AGME) (Unclassified) position in the classified status is hereby approved and attached herein as Exhibit A.
3. The Assistant General Manager – Engineering (AGME) (Unclassified) position is hereby added to the certified, technical and professional (CTP) list of positions and testing designated positions (TDP) list at GWA.

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

DULY AND REGULARLY ADOPTED, this 24th day of November 2020.

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**MICHAEL T. LIMTIACO**
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:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAIN: _____

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EXHIBIT A

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Suite 200; Gloria B. Nelson Public Service Building
688 Route 15 * Mangilao, Guam 96913
P.O. Box 3010 * Hagatna, Guam 96932
Tel. No. (671) 300-6073-6 * Fax No. (671) 300-6896

P E T I T I O N

The General Manager of Guam Waterworks Authority (GWA) hereby petitions the Consolidated Commission on Utilities (CCU) for the creation and amendment of the job classification standard of positions pursuant Public Law 34-131, §(e) as added and 4 GCA §6303 (d) & (2C) authorizes the creation of positions in Autonomous Agencies and Public Corporations; and, 5GCA, Chapter 10, Article 1 (Sunshine Law) and P.L. 28-159 to add the position to the Certified, Technical, and Professional (CTP) List in the unclassified service:

Assistant General Manager – Engineering
(Unclassified)

For more information, please visit GWA's website at www.guamwaterworks.org/careers/petition or you may contact the Human Resources Division at 300-3076-6.

MIGUEL C. BORDALLO, P.E.
General Manager

Justification for the new position:

To create the Assistant General Manager – Engineering (AGM-E) job standards and salary range based on the 20th market percentile, 2017 market data; to support the Authority's planning, engineering and permitting functions, as well as to enhance engineering support for daily operations within the Water and Wastewater Divisions; to provide effective and efficient delivery of GWA's Capital Improvement Program for continual infrastructure renewals and replacements needed to support the delivery of safe drinking water and wastewater services to the community.

In line with adopted CCU objectives for enhanced management structure, the Authority currently employs one Assistant General Manager for Compliance & Safety, one Assistant General Manager – Administration & Support, and an (interim) Assistant General Manager – Operations, while the engineering and planning divisions of as much importance are currently functioning with a Chief Engineer (Acting) at the helm. The General Manager is requesting the creation of this Assistant General Manager – Engineering position to assign the same level of accountability, performance and responsibility over the engineering, planning, permitting and related functions of the utility, as are present for the Operations, Compliance & Safety, and Administrative functions, thus enhancing effective operation and responsiveness, consolidating communications directly with the General Manager while at the same time, impacting effectiveness of Supervising Senior Engineers and Managers, who are responsible for capital improvements, capital maintenance, construction and permitting services to enhance our water and wastewater systems.

Analysis of similarities and differences between the positions to be created and the positions listed pursuant to 4GCA §4101.1:

Upon conducting an analysis of similarities and differences, management has determined the requirements of the Chief Engineer position is similar to the Assistant General Manager – Engineering, but that a Water/Wastewater Operator's Certification Level IV is a preferred special qualification as the Authority progresses in making engineering support in operations a priority for improved performance. As compared to other Assistant General Manager positions, the possession of a college degree and Professional Engineer License is required to qualify for the position. Therefore, it is management's petition to create the job standard and qualification requirements of the Assistant General Manager – Engineering (AGM-E) position to meet CCU adopted objectives and the continuous improvement of the Authority's operations.

Position Description: See attached

Compensation:

The minimum and maximum salary range follows the Strategic Pay Methodology based on the 20^{h} market percentile; 2017 market data for this unclassified, certified, technical and professional position and comparable with other US jurisdictions and/or the American Waterworks Association (AWWA) salary surveys as follows:

Benchmark Position	Year	Implementation Ranges @ 20th Market Percentile (2017 Market data) - 5 Spread								
		JE Points	Structural Adjustment - MIN				Structural Adjustment - MAX			
		0	Base Salary	Grade	Step	Sub Step	Base Salary	Grade	Step	Sub Step
Assistant General Manager – Engineering	2017	1514	$144,772	R	5	A	$150,650	R	6	A

Fiscal note as required by 2GCA §9101 et seq.:

GWA certifies that this position is budgeted, and that funding is available for the recruitment and retention of the amended certified, technical and professional position. The funding of this position does not have an impact on the General Fund.

MIGUEL C. BORDALLO, P.E.
General Manager

Assistant General Manager – Engineering (AGME)
(Unclassified)

NATURE OF WORK IN THIS CLASS:

The Assistant General Manager of Engineering (AGM-E) serves under the direction of the General Manager. This is a complex work involving in the planning, permitting, organizing, coordinating, design, construction inspection, construction management, and operations support including the preventive and corrective maintenance and repair of facilities to ensure systems meet high level compliance with water and wastewater standards for Guam Waterworks Authority (GWA) water and wastewater facilities.

The AGM-E is responsible and accountable to the Guam Waterworks Authority's General Manager for the effective planning, design, construction and post-construction engineering support of all facilities required to conduct operations to meet the established levels of service for all customers, in accordance with the Guam Safe Drinking Water Act and the Clean Water Act, associated regulations, and applicable permit requirements. The AGM-E also responsible and accountable for the managing and organizing efficient business operations of the engineering department and a multi-disciplinary engineering staff. The AGM-E shall also be responsible for assisting with the formulation of recommendations on policies, goals and objectives to, and implementation of plans, policies and procedures adopted by the Consolidated Commission on Utilities (CCU).

AGM-E directs and manages the development and execution of GWA's short and long-term capital improvement and capital maintenance goals and objectives; makes sure all assigned operations and functions are sustainable and effectively serve the needs of GWA's ratepayers, while complying with adopted and industry standards, applicable laws and regulations; and performs related duties as assigned.

ILLUSTRATIVE EXAMPLES OF WORK: (These examples do not list all the duties which may be assigned; any one position may not include all the duties listed)

Directs Guam Waterworks Authority's (GWA) engineering department resources to carry out its duties, functions and responsibilities; Develops goals and priorities; Provides leadership, directions and guidance for the engineering division.

Directs all GWA planning, permitting and new area development activities in accordance with GWA service rules and regulations, Guam building and development laws, regulations, codes and adopted GWA engineering and construction standards.

Directs all engineering design and construction activities including management of staff and oversight of consultants to ensure that results are accomplished efficiently and in accordance with acceptable standards for quality and technical integrity, and in compliance with applicable laws, regulations, policies, and procedures.

Oversees the preparation, administration, monitoring and periodic updating of five (5) year Capital Improvement Program (CIP), twenty (20) year Water Resources Master Plan and related activities. Directs the planning, development, and monitoring of the Engineering budget to ensure the most efficient use of resources, adherence to established guidelines, and accurate and timely reporting of budgetary information.

Directs the effective conduct of Engineering operations to meet the established levels of service for all customers, in accordance with the GWA's Water Resources Master Plan, Safe Drinking Water Act and the Clean Water Act, associated regulations and applicable permit requirements.

PROPOSED

Directs contracting for Engineering, including the issuance of all requests for proposals, contracts for professional services, and associated contract amendments related to the Capital Improvement Program. Approves construction contracts and related faithful performance and payment bonds, construction change orders, and extra work for execution.

Reviews, analyzes and evaluates performance and operation of Engineering division and develops strategy for implementing changes benefiting the organization.

Directs the preparation of reports and documents as requested by the General Manager for Consolidated Commission on Utilities (CCU) meetings; make presentations to the CCU and other stakeholders, as required, to keep them apprised of GWA's engineering program activities.

Evaluates and analyzes issues and recommends-solutions. Assures effective communication strategies among GWA management team members. Serves as liaison between GWA Engineering Division and various local, territorial government, and federal organizations and agencies. Assures the satisfaction of internal and external customers. Leads departmental and division quality improvement initiatives.

Directs critical engineering activities to maintain project schedules; determine corrective action necessary to meet project objectives and implement required modifications to ensure successful completion of program.

Facilitates the resolution of problems and conflicts relating to engineering issues; Promotes technical guidance on engineering issues to technical and professional staff, the general public and government officials. Advises the General Manager (GM) and Consolidated Commission on Utilities (CCU) on technical and engineering issues.

Develops and implements design and construction standards, policies, and standard operation procedures as required to maintain and/or improve work results of the department.

Directs management of construction projects with Engineering Managers and Supervisors, operations personnel, local and federal government authorities and community groups. Collaborates with Assistant General Manager – Compliance & Safety on developing managing Court ordered projects timelines and meeting regulatory requirements.

Directs complex engineering projects and studies to ensure that GWA's short and long-term interests and needs are met. Directs engineering support of preventive maintenance and other facilities operation programs; Oversees planning of engineering economy evaluations of equipment alternatives and recommends projects with better life cycle costs.

Performs other duties as assigned or required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of water and wastewater facility design, construction, maintenance and operating principles.

Knowledge of US Environmental Protection Agency (USEPA) and Guam Environmental Protection Agency (GEPA) Safe Drinking Water and Clean Water Regulations, the National Pollutant Discharge Elimination System (NPDES) permit program, and water/wastewater utility rules, regulations, ordinances, codes administrative orders and other operational guidelines and directives.

Knowledge of conventional and Global Positioning System (GPS) survey principles and practices.

PROPOSED

Knowledge of the standard methods, materials, practices and equipment used in the construction, operations, repair and maintenance of potable water and wastewater systems, including ancillary infrastructure, such as roadways, drainage and other improvements.

Knowledge of business strategies and organizational management theories and practices; budget development, implementation and administration; personnel management practices and regulations; public sector contracting practices and regulations.

Ability to lead a large multifunctional division.

Ability to analyze and evaluate engineering, statistical and financial data, conduct and direct research and develop alternatives and recommendations.

Ability to analyze engineering problems; exercise judgment and discretion.

Ability to recommend and implement changes in policies, procedures, materials and equipment to enhance program effectiveness.

Ability to develop and oversee a multimillion-dollar operating budget.

Ability to interpret and apply federal and local laws and complex governmental regulations, pertaining to work.

Ability to analyze situations accurately and make independent engineering judgments to provide information, take effective action, and resolve physical and construction support issues.

Ability to effectively communicate orally and in writing on technical subject matters to technical and non-technical audiences.

Ability to establish and maintain collaborative working relationships with all levels within the Authority, contractors, local, territorial government, and federal organizations and agencies.

Skill to develop written specifications, scopes of work and requests for proposals for engineering services.

Skill in analyzing and interpreting data to produce technical reports and recommendations on a wide variety of engineering issues.

Skill in evaluating the work of contractors and consultants for compliance with project plans, specifications and applicable laws, ordinances and policies.

Skill to mentor, develop, and motivate staff.

Skill in creating and delivering presentations to large groups, executive management, and the CCU

PROPOSED

MINIMUM EXPERIENCE AND TRAINING:

A. Bachelor's degree in Engineering from an Accreditation Board of Engineering and Technology (ABET) accredited University; AND 10 (ten) years of engineering experience in planning, design, construction, and operations of wastewater and water systems, including five (5) years which shall have been in a supervisory capacity; AND Current registration as a Professional Engineer on Guam, or current registration as a Professional Engineer by any state or US territory and the ability to obtain registration on Guam within one (1) year of hire; OR

B. Master's degree in Engineering from an Accreditation Board of Engineering and Technology (ABET) accredited University; AND 9 (nine) years of engineering experience in planning, design, construction, and operations of wastewater and water systems, including five (5) years which shall have been in a supervisory capacity; AND Current registration as a Professional Engineer on Guam, or current registration as a Professional Engineer by any state or US territory and the ability to obtain registration on Guam within one (1) year of hire.

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Guam Environmental Protection Agency Operator Certification Level IV in Water Treatment, Water Distribution, Wastewater Collection OR Wastewater Treatment.

ESTABLISHED: November 2020

JOB EVALUATION POINTS: 1514

PAYGRADE/STEP	MINIMUM:	R5-A; $144,772
	MAXIMUM:	R6-A; $150,650

_____
JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

PROPOSED

GM REPORT

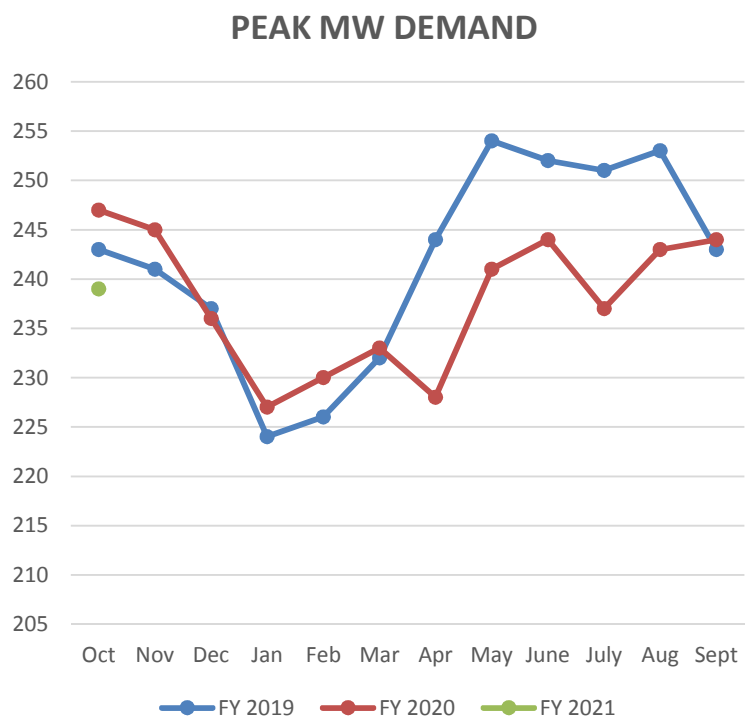
November 2020

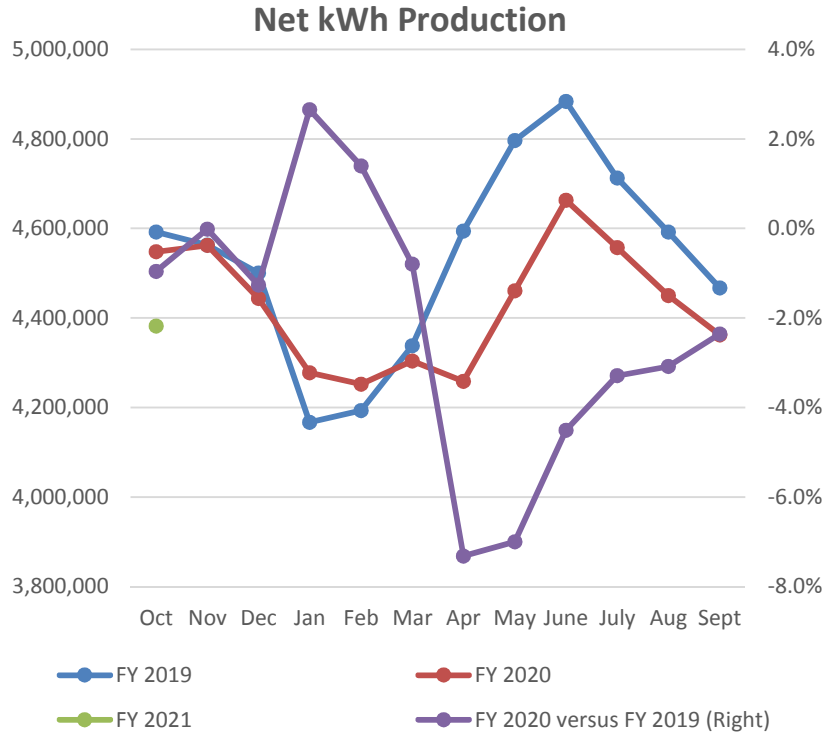
Generation Status

1. Reserve Margin Forecast for Nov 2020:

Projected Available Capacity:	365 MW
Projected Demand:	240 MW
Anticipated Reserve Margin:	125 MW

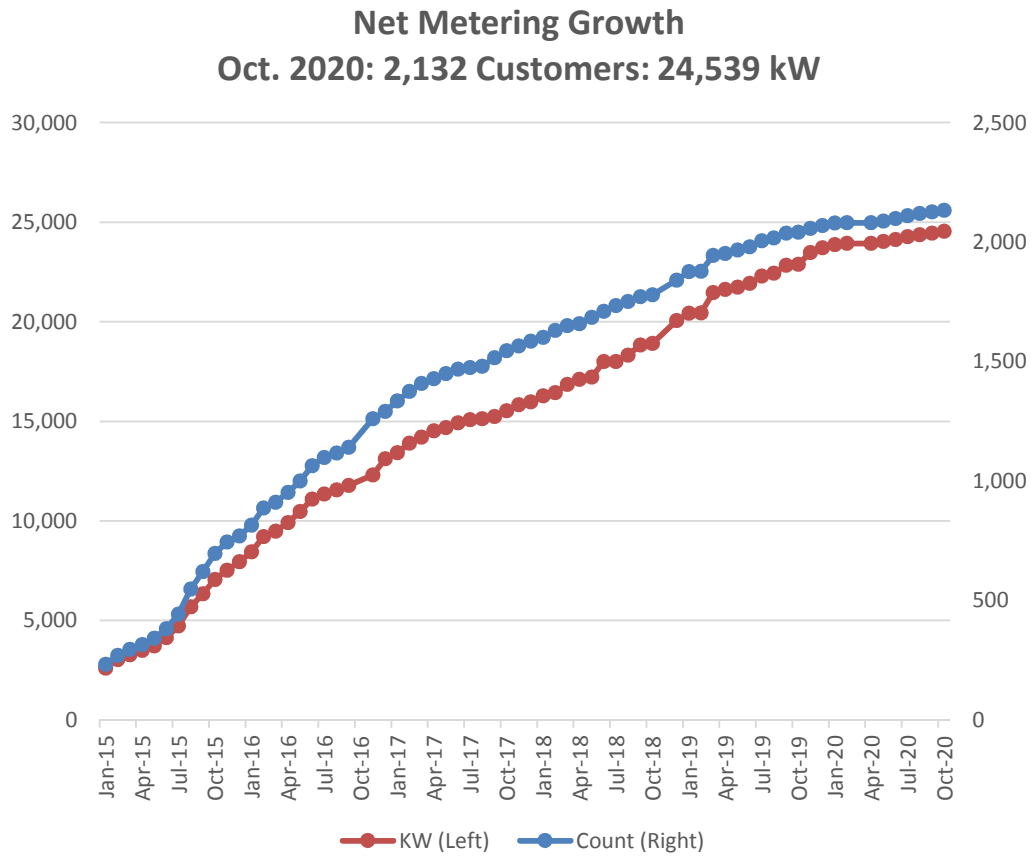
2. Production Characteristics Thru FY'2021 (Oct 2020)

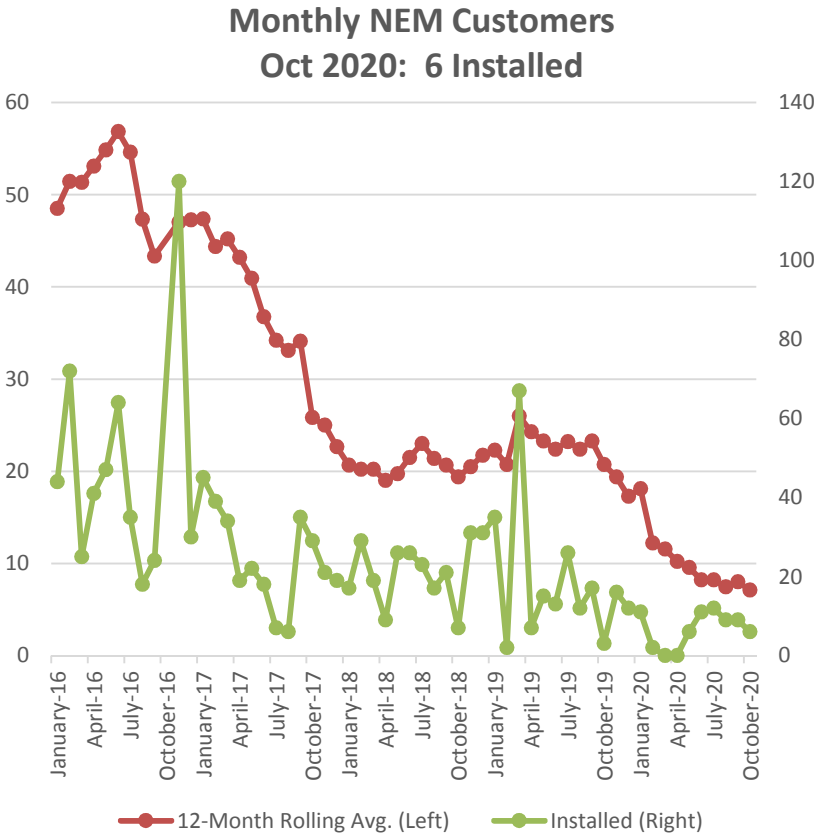




NET METERING

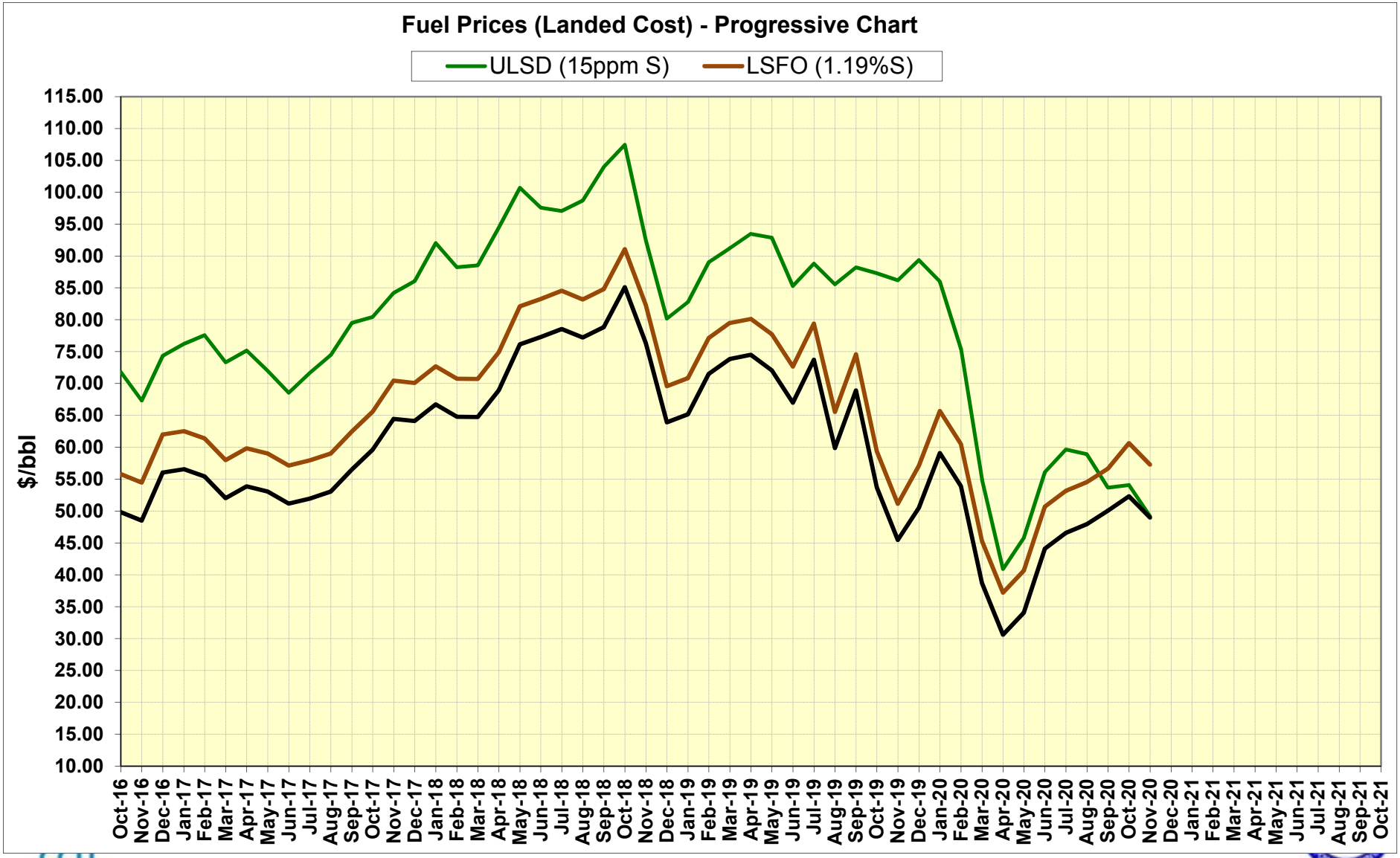
3. Net Metering (NEM) Growth Thru October 2020:





GPA Fuel Purchases (Per Barrel)

4. Fuel Prices (Per Barrel) Ending Nov 13, 2020



Demand Side Management (DSM)

5. Demand Side Management Expenses

Description	FY16	FY17	FY18	FY19	FY20	FY21 Posting Thru 10/19/20*	Total to Date
Regular/OT Pay	$11,348.80	$22,256.00	$26,121.83	$50,715.19	$45,873.25	$16,391.27	$172,706.34
Other Contractual	$28,278.50	$85,550.05	$116,977.50	$3,025.00	-		$233,831.05
Ads & Radio Announcements	-	-	-	$7,500.00	-		$7,500.00
Paid Rebates-Split AC	$154,700.00	$557,275.00	$1,349,825.00	$1,374,650.00	$1,435,201.00		$4,871,651.00
Paid Rebates-Central AC	$3,400.00	$8,200.00	$4,400.00	$6,500.00	$2,400.00		$24,900.00
Paid Rebates-Washer/Dryer	$2,800.00	$7,425.00	$57,200.00	$110,800.00	$90,603.00		$268,828.00
Total Expenses	**$200,527.30**	**$680,706.05**	**$1,554,524.33**	**$1,553,190.19**	**$1,574,077.25**		**$5,579,416.39**
Bank Interest (+)	$1,676.42	$1,722.74	$1,222.29	$730.05	$439.12	$12.67	$5,803.29
Bank Fees	$155.00	$1,032.06	$1,085.08	$1,247.54	$1,702.64	$55.00	$5,277.32

**Preliminary Data for close of FY20. Actual expenses for FY21 to be updated.*

Demand Side Management (DSM) - Con't

5. Demand Side Management Funding

No.	Description	Amount
1	Initial DSM Budget FY 2016	$ 1,806,014.00
2	Interest Income	$5,803.29
3	Bank Fees	$ 5,277.32
4	Additional Budget: ▪ Bond Refinance 2017 ▪ Revenue Funds FY2019 ▪ Revenue Funds FY2020 ▪ LEAC – FY2020	 $ 1,139,189.00 $ 1,031,500.00 $ 348,075.00 $ 1,599,257.65
5	Total Expense as of Report	$5,579,416.39
	DSM Ending Balance	$ 345,145.23

**Preliminary Data for close of FY20. Actual expenses for FY21 to be updated.*

General Manager's Report (con't)

5. Rebate Applications & Back Log Summary (DSM – Con't.):

- GPA is reviewing its internal processes for how it can improve the review and processing of all customer rebate applications. This is a work in progress and an update summary on status of rebate application received and paid will be provided in the next GPA Work Session.

6. PUC Update:

- GPA Docket 21-01 Petition to Approve Increase in EPCM Contract: **Approved**
- GPA Docket 21-02 Petition to Approve Security Guard Service Contract Option: **Approved**
- GPA Docket 21-03, Petition to Approve the Contract Extension for the Performance Management Contract (PMC) for Combustion Turbine Power Plants: **On 11/30/20 PUC Agenda**

7. Public Hearing on Bill 219-35:

- Relative to Strengthening the Purchase or Lease-Back of Renewable Energy Purchase of Service for the Department of Education, Guam Academy Charter Schools, GCC and UOG.
  - On Friday, October 23, 2020 a public hearing via zoom meeting was held on Bill 219-35. I provided written testimony indicating GPA is not in support of Bill 219-35. (See attached: Bill 219-35 GPA Testimony 10-23-2020 (FINAL).pdf)

General Manager's Report (con't)

8. Yigo Diesel Generator PMC Update:

- GPA issued the bid for a Performance Management Contract (GPA-061-20) for Management, Operation and Maintenance of Yigo Diesel Power Plant (AGGREKO). price proposals opened on 10/30/2020. GPA is evaluating the price proposals and targeting to bring its recommendation to the CCU at the Tuesday, Nov. 24, regular meeting.

9. Energy Storage System (ESS) Update:

- The ESS projects at both Talofofo and Agana have completed commissioning and energization of the interconnection Hardware (Phase I).
- The energization of the battery hardware and software system (Phase II) begins Nov. 17th. Talofofo Phase II commissioning will be on December 10th. Due to contractor manpower availability, Hagatna Phase II is now targeted for commissioning in January 2021.

10. Phase III Renewables Project Update:

- GlidePath filed an appeal of the OPA's decision to the Superior Court on October 12, 2020. GPA has no update at this time on the process or the timeline.

General Manager's Report (con't)

11. New Power Plant:

- KEPCO continues to work on air and environmental permits for construction. It is anticipated KEPCO should be making its final decision on a major or minor source air permit within the next 45 days. GPA continues to encourage KEPCO to pursue the shorter minor source route including providing them proposed changes which would benefit both entities while minimizing commissioning delays.

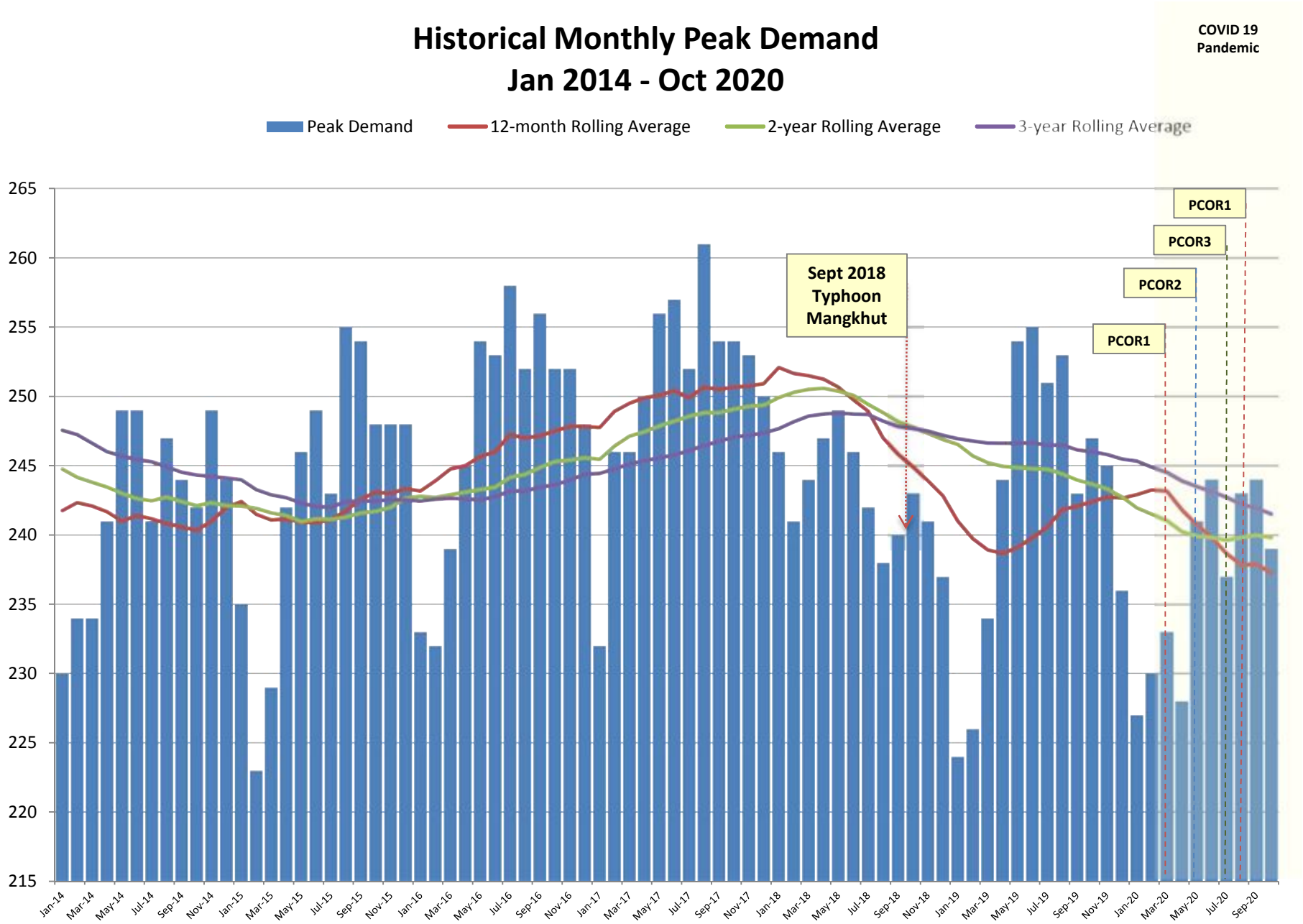
12. Customer Engagement Program:

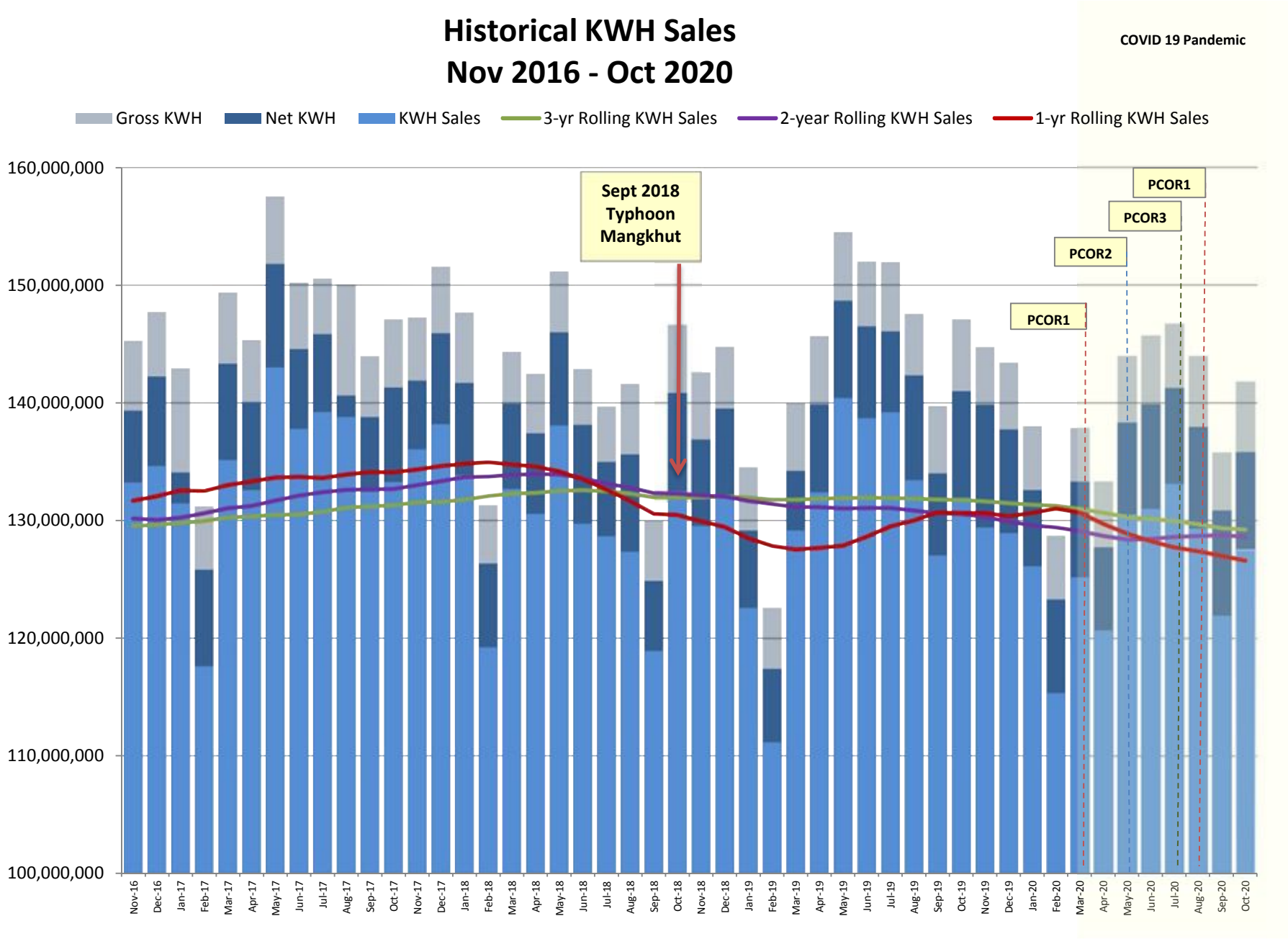
- The customer quantitative research survey concludes the week of November 23rd, 100 prepaid residential, 652 post-paid residential, and approx. 200 commercial ratepayers have been collected as of November 16th. Report findings and insights are expected week of December 7th.
- Qualitative research (i.e. residential focus groups, in-depth interviews with key commercial and government customers) will commence early 2021.
- Customer insights will be incorporated into overall engagement efforts, scheduled for launch January 2021.

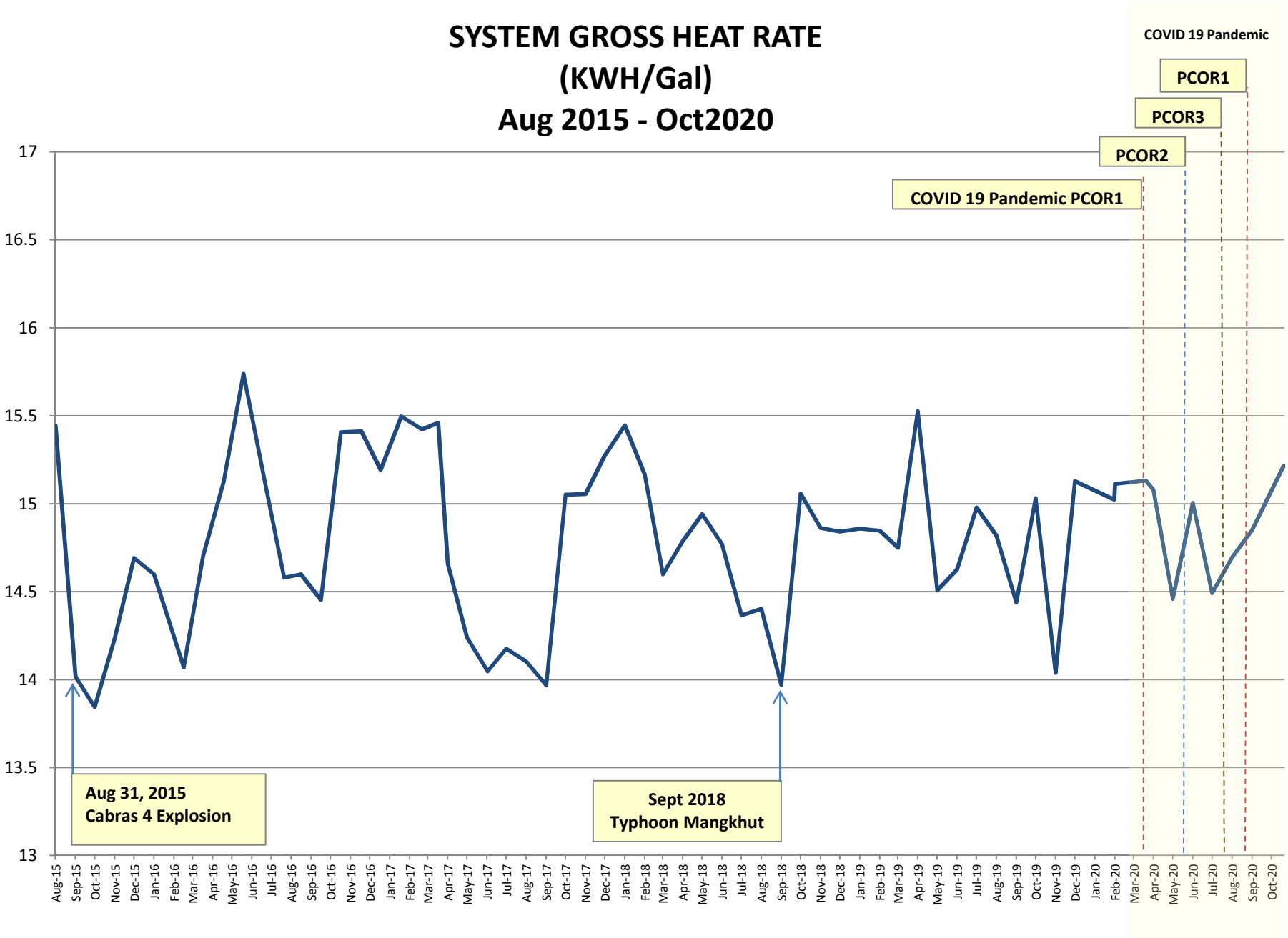
13. Generation KPI's:

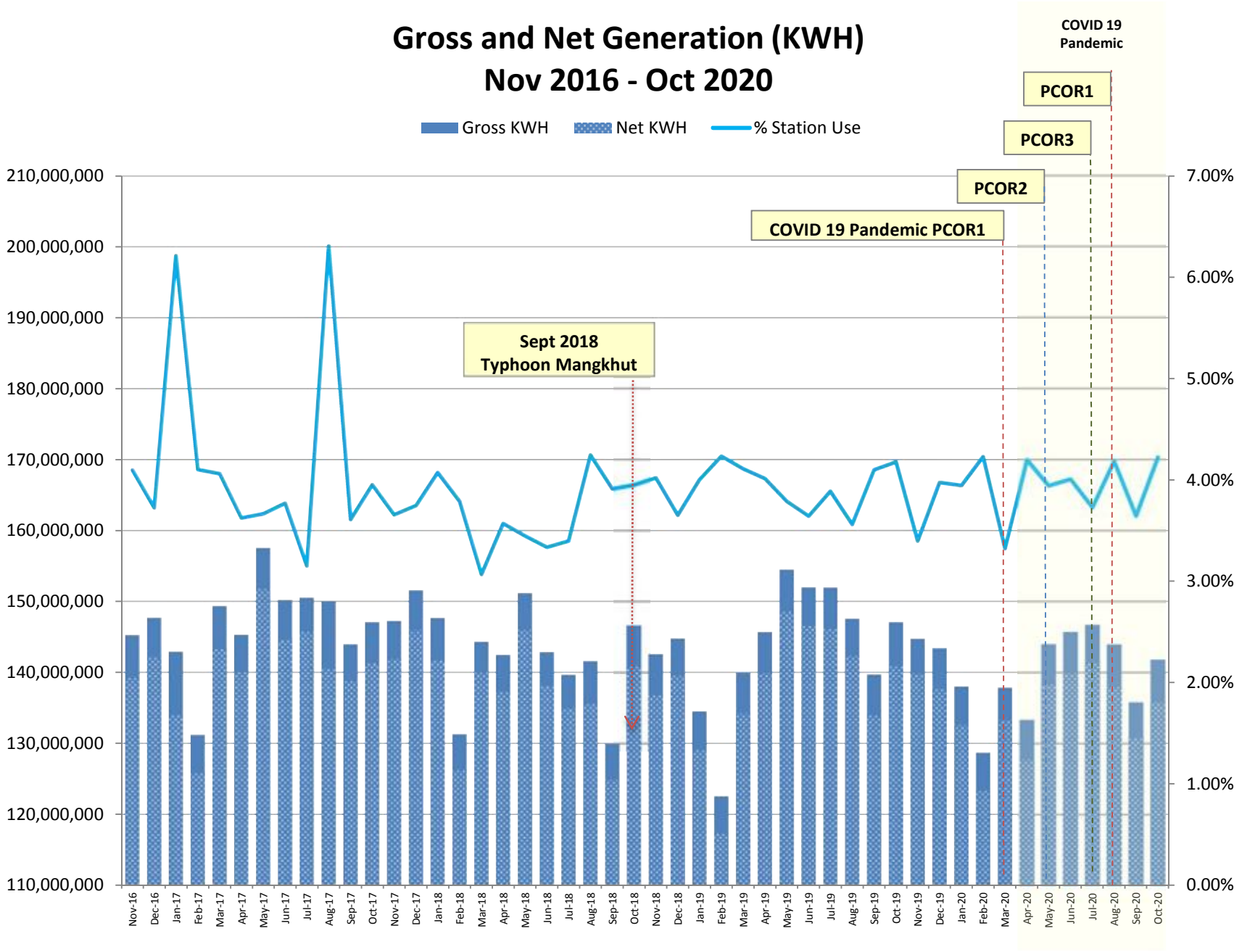
- The following graphs show updated information through **October 2020 :**

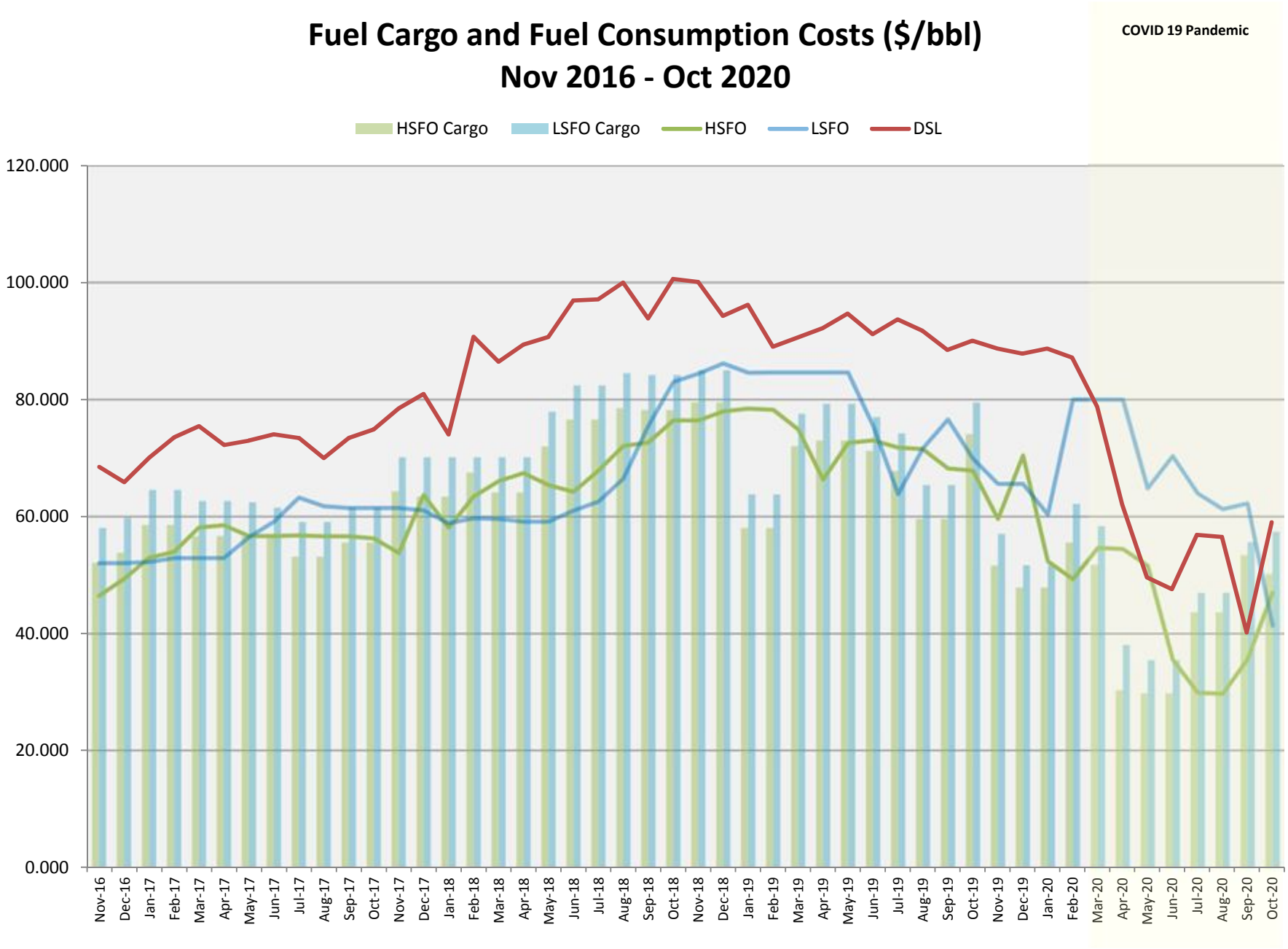
Historical Monthly Peak Demand
Jan 2014 - Oct 2020




Historical KWH Sales
Nov 2016 - Oct 2020
COVID 19 Pandemic
Gross KWH
Net KWH
KWH Sales
3-yr Rolling KWH Sales
2-year Rolling KWH Sales
1-yr Rolling KWH Sales
160,000,000
150,000,000
140,000,000
130,000,000
120,000,000
110,000,000
100,000,000
Sept 2018
Typhoon
Mangkhut
PCOR1
PCOR2
PCOR3
PCOR1
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17
Apr-17
May-17
Jun-17
Jul-17
Aug-17
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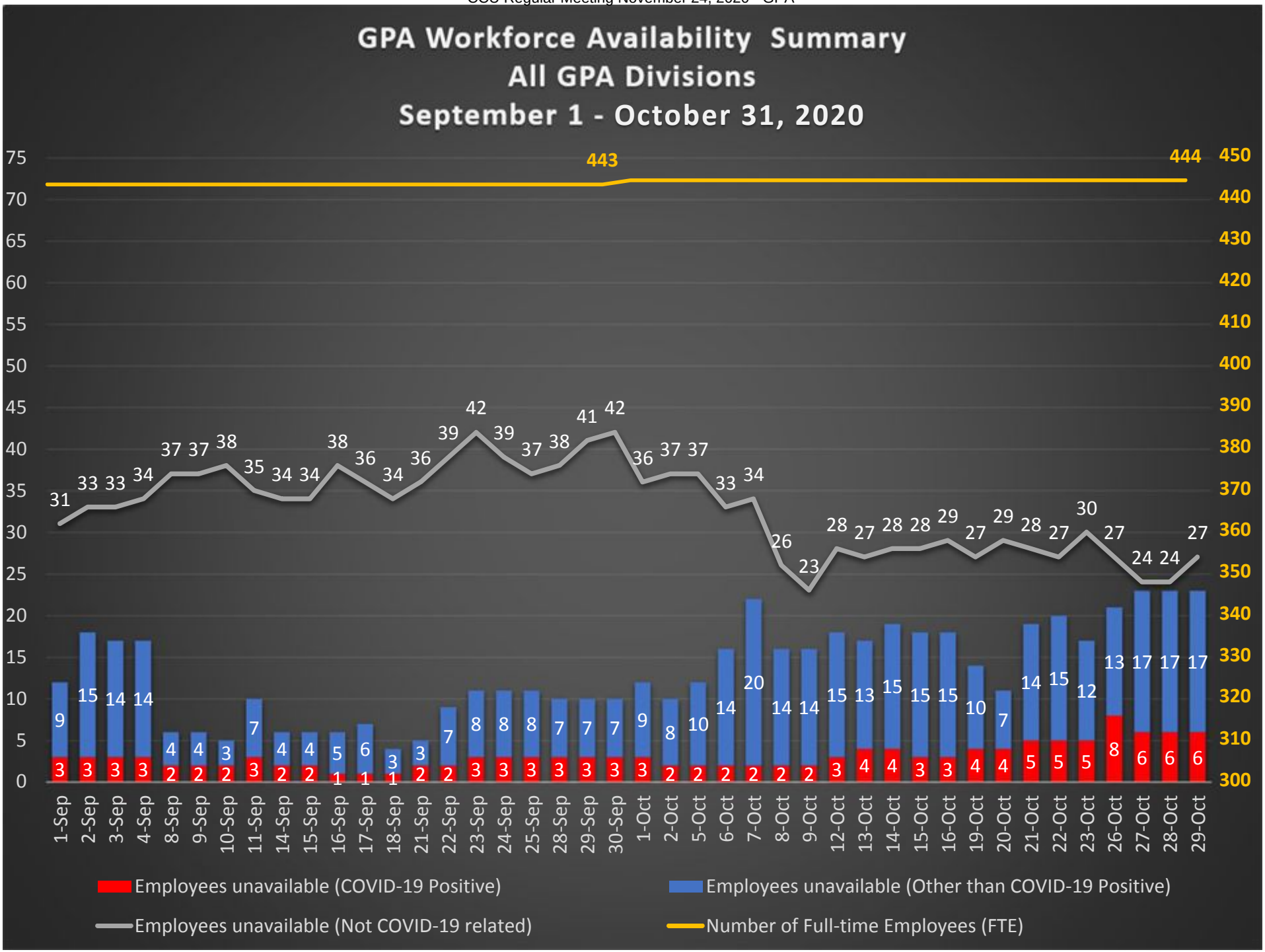

SYSTEM GROSS HEAT RATE
(KWH/Gal)
Aug 2015 - Oct2020
COVID 19 Pandemic
PCOR1
PCOR3
PCOR2
COVID 19 Pandemic PCOR1
Aug 31, 2015
Cabras 4 Explosion
Sept 2018
Typhoon Mangkhut
17
16.5
16
15.5
15
14.5
14
13.5
13
Aug-15 Sep-15 Oct-15 Nov-15 Dec-15 Jan-16 Feb-16 Mar-16 Apr-16 May-16 Jun-16 Jul-16 Aug-16 Sep-16 Oct-16 Nov-16 Dec-16 Jan-17 Feb-17 Mar-17 Apr-17 May-17 Jun-17 Jul-17 Aug-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 Jun-19 Jul-19 Aug-19 Sep-19 Oct-19 Nov-19 Dec-19 Jan-20 Feb-20 Mar-20 Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Oct-20


Gross and Net Generation (KWH)
Nov 2016 - Oct 2020
Gross KWH
Net KWH
% Station Use
COVID 19 Pandemic
PCOR1
PCOR3
PCOR2
COVID 19 Pandemic PCOR1
Sept 2018
Typhoon Mangkhut
210,000,000
200,000,000
190,000,000
180,000,000
170,000,000
160,000,000
150,000,000
140,000,000
130,000,000
120,000,000
110,000,000
7.00%
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
Nov-16
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Oct-20


Fuel Cargo and Fuel Consumption Costs ($/bbl)
Nov 2016 - Oct 2020
COVID 19 Pandemic
HSFO Cargo
LSFO Cargo
HSFO
LSFO
DSL
120.000
100.000
80.000
60.000
40.000
20.000
0.000
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17
Apr-17
May-17
Jun-17
Jul-17
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COVID OPERATIONAL UPDATE

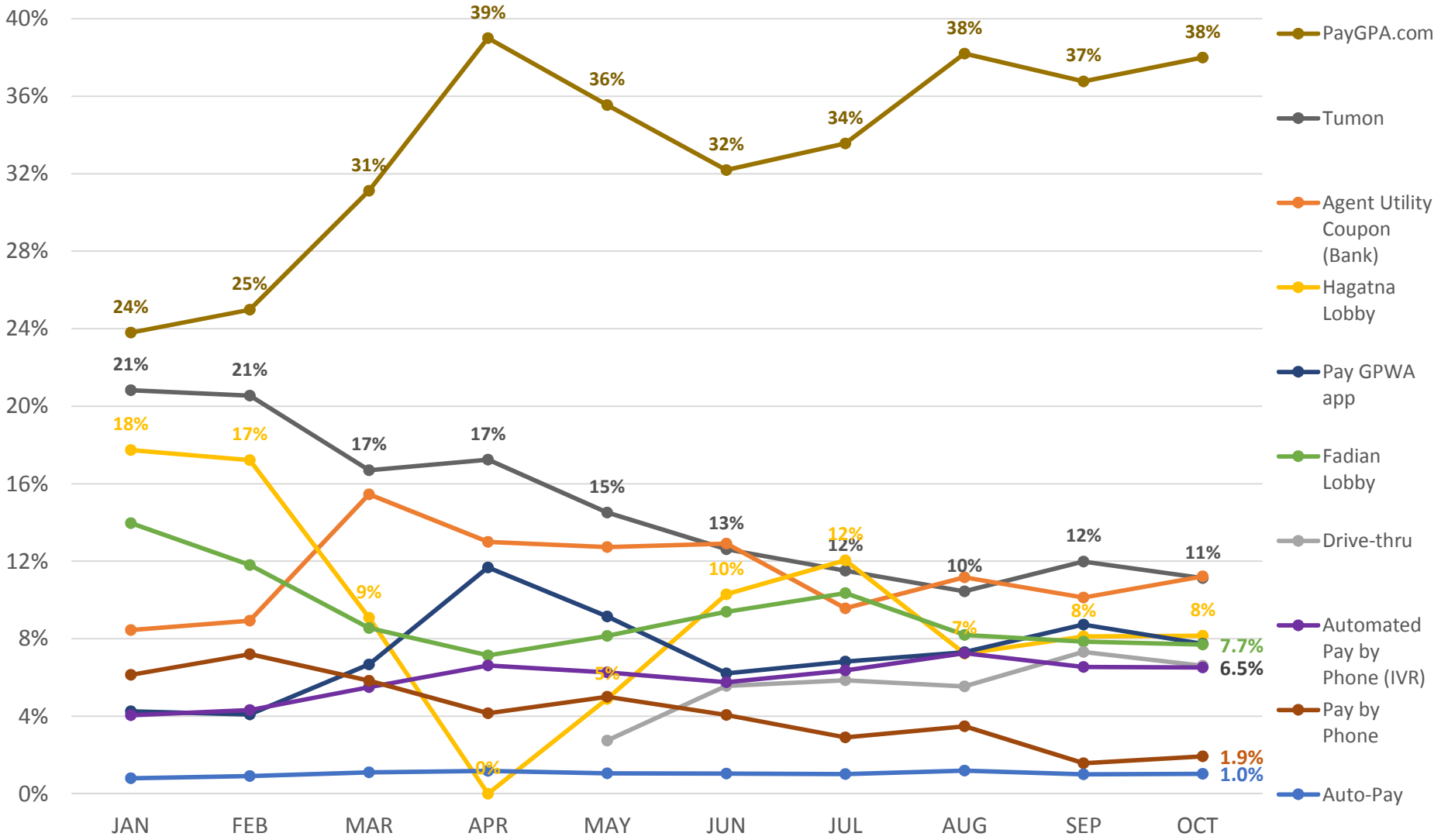
OCT 2020


GPA Workforce Availability Summary
All GPA Divisions
September 1 - October 31, 2020
Employees unavailable (COVID-19 Positive)
Employees unavailable (Other than COVID-19 Positive)
Employees unavailable (Not COVID-19 related)
Number of Full-time Employees (FTE)

Guam Power Authority

Payment Collection by Collection Point

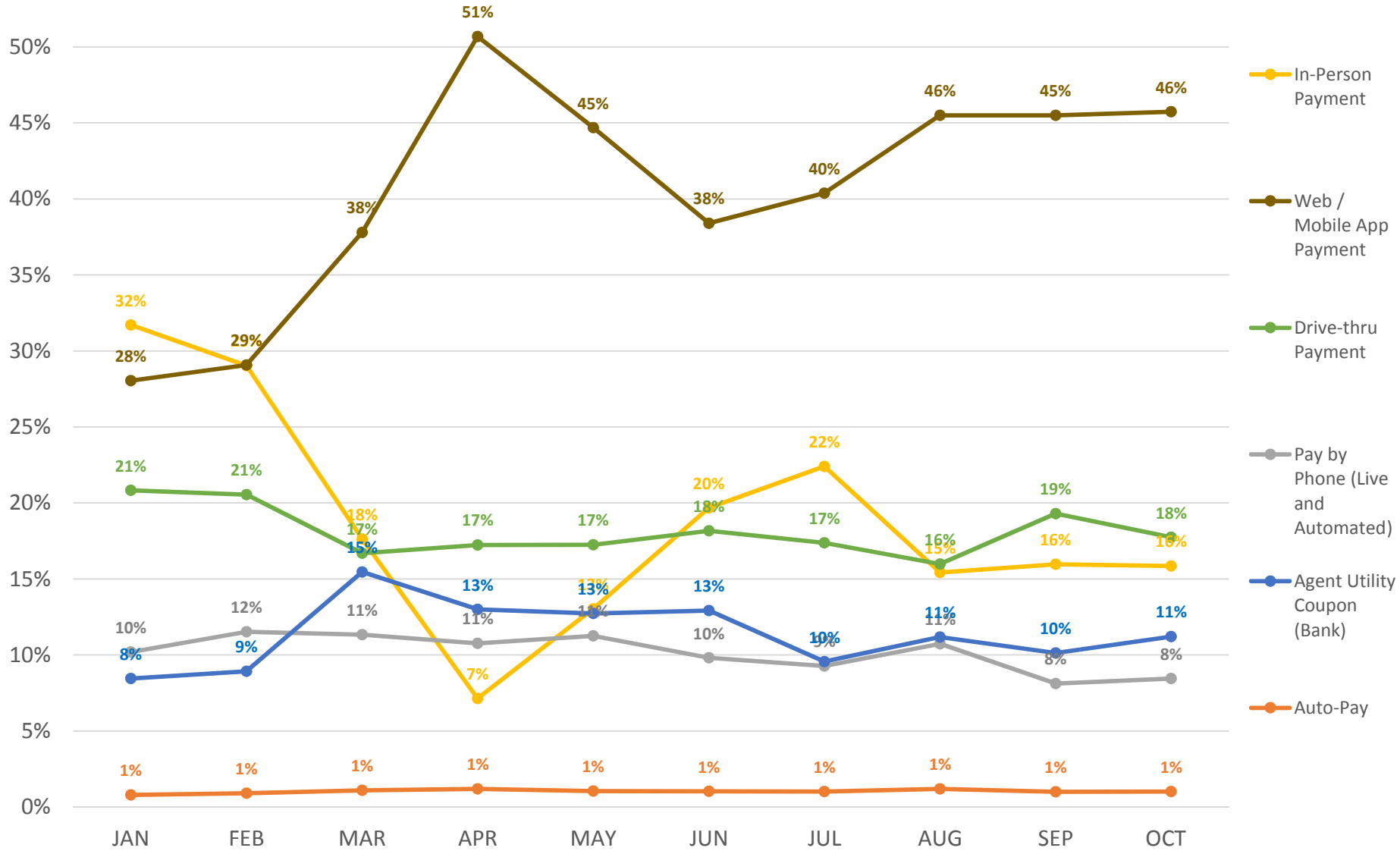
January - October 2020

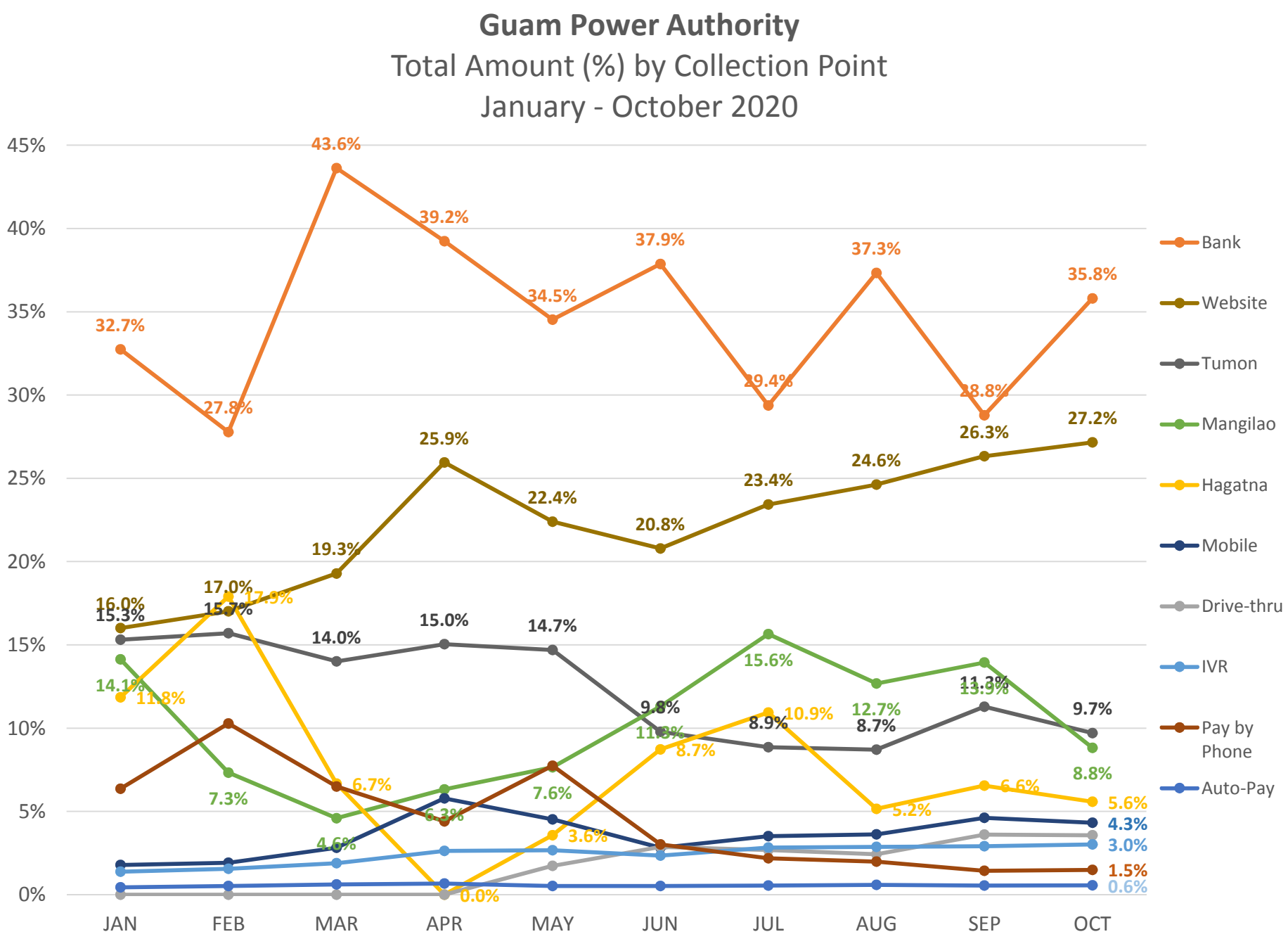


Guam Power Authority

Payment Collection by Platform

January - October 2020




Guam Power Authority
Total Amount (%) by Collection Point
January - October 2020
45%
40%
35%
30%
25%
20%
15%
10%
5%
0%
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
Bank
Website
Tumon
Mangilao
Hagatna
Mobile
Drive-thru
IVR
Pay by Phone
Auto-Pay
32.7%
27.8%
43.6%
39.2%
34.5%
37.9%
29.4%
37.3%
28.8%
35.8%
16.0%
17.0%
19.3%
25.9%
22.4%
20.8%
23.4%
24.6%
26.3%
27.2%
15.3%
15.7%
14.0%
15.0%
14.7%
9.8%
8.9%
8.7%
11.3%
9.7%
14.1%
11.8%
7.3%
4.6%
7.6%
15.6%
12.7%
8.8%
6.7%
6.3%
0.0%
3.6%
8.7%
10.9%
5.2%
6.6%
5.6%
4.3%
3.0%
1.5%
0.6%

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

October 23, 2020

Honorable Joe S. San Agustin
Chairman
Committee on General Government Operations, Appropriations, and Housing
I Mina' Trentai Singko Na Liheslaturan Guåhan
761 South Marine Corps Dr., Ste. 203
Tamuning, Guam 96931
Via email: senatorjoessanagustin@gmail.com

Re: Bill 219-35
An Act to Amend § 7120 of Chapter 7, Division 2, Title 17, Guam Code Annotated; To Amend § 8502 of Article 5, Chapter 8 of Title 12, Guam Code Annotated; and To Amend § 5008.2 of Part A, Article 1, Chapter 5 of Title 5, Guam Code Annotated, Relative to Strengthening the Purchase or Lease-Back of Renewable Energy Purchase of Service for the Department of Education, Guam Academy Charter Schools, the Guam Community College and the University of Guam

Håfa Adai Mr. Chairman and Senators,

Thank you for the opportunity to testify on Bill 219-35.

GPA does not support this Bill. This legislation and similar ones, whether pending or passed by this body, are not supported by complete data required for proper economic and technical feasibility analysis. The data must be vetted by technical experts and responsible institutions, such as the CCU, PUC and other stakeholders.

GPA supports the intent of Bill 219, which is to find lower-cost energy solutions for GDOE and other educational institutions. I request the Legislature pause further action on this legislation to allow the utility to prepare its recommendation to the CCU, PUC and the Legislature on a responsible, viable energy path for educational institutions. If passed in its current form, Bill 219 will ultimately result in higher costs and substantial risk for the participating education institutions and/or GPA ratepayers.

The Legislature passed Bill 80-35 (Public Law 35-46) mandating Renewable Portfolio Standards of 50% by 2035 and 100% by 2045. GPA is currently on track to achieve 25% by 2023. We are updating the Integrated Resource Plan (IRP) to achieve, at minimum, the 2035 50% target by 2030. The COVID-19 pandemic has delayed our completion of the IRP but anticipate it will be finalized by June 2021. The IRP will consider different models including utility scale, roof top, community solar and solar farming to name a few. The plan will also address infrastructure upgrades necessary to integrate all the renewable models in a reliably and sustainable manner.

I estimate the financial impact of Bill 219 to be potentially over $7M per year and nominally over $140M over 20 years and $280M over 40 years. The burden will be borne by the GPA ratepayers who are not Net Metering customers. This, in my opinion, would result in increased rate impacts for approximately 50,0000 unfortunate non-Net Metering ratepayers. One could say that the electric ratepayers will be paying a tax which should be paid by the entire community and not just GPA ratepayers.

GPA filed a docket before the PUC to phase out NEM credits from full retail to GPA's avoided cost. The PUC has noted it would address the issue once NEM nominal capacity reaches 26,000 KW. Currently it is at about 24,600 KW from about 2,200 customers. The proposed addition of total NEM capacity for educational institutions will more than double the current 24,600 kW NEM capacity. Bill 219 is mandating NEM for institutions which set their rates for the contract term and therefore interferes with the PUC authority as a utility rate setting body and, in my opinion, interferes with GovGuam bond covenants. Additionally, Bill 219 creates an unfunded mandate by directing a specific group of ratepayers utilize the system grid at no cost at a full retail rate credit with an impact as noted above.

I offer the following comments regarding key language or provisions of Bill 219:

- A 40-year term is not advisable. Significant technology improvements typically occur over a 20-year period. Locking into a fixed technology binds the institution and limits future opportunities. Additionally, even with a low 1% escalator of the contract rate, the contracted energy cost to the institution will double in 40 years.
- NEM is a distribution system model. Having energy generated at another location for certain schools is a wheeling through the transmission system model. Wheeling brings technical issues and would be an unfair practice for ratepayers because it allows someone to utilize the infrastructure for their sole benefit.
- GPA's system analysis is performed by professional engineers and assisted by consultants, as necessary. GPA has over ten (10) registered professional engineers who regularly address current system reliability and its future-state with renewables. Independent consultants not under contract with GPA cannot offer realistic, viable solutions that address these complex system issues. Unlike GPA engineers and its professional consultants, the independent consultants lack familiarity and accountability for the system. I asked that you allow GPA and our professional team to determine what is needed for the system we are accountable for and not mandate studies as noted.
- Energy Storage System (ESS) such as batteries are required for all future solar PV production tied into the grid, including utility-scale and customer-scale renewables. Solar PV produces intermittent energy; the system can no longer absorb this intermittent, uncontrolled energy. Additionally, the "Duck Curve" which occurs during the day must be limited to avoid system interruptions. This would be the only way for GPA to achieve the Renewable Portfolio Standards.

I have attached testimony provide earlier this year on Bill 196-35, which was similar to Bill 219-35. In it I laid out recommendations to achieve a lower cost and sustainable energy future for GDOE which could also be applied to other institutions. I will not read my former testimony into the record today, but provide it as part of Bill 219's record.

Also attached are two (2) recent articles which describe the experiences of other communities and utilities as they attempt to achieve their 100% renewable energy goal. GPA is cautious to avoid the costly lessons learned by others while we expediently work toward a reliable, resilient renewable energy future for the benefit of all ratepayers.

Thank you for the opportunity to testify on Bill 219-35.

Si Yu'os Ma'åse',



JOHN M. BENAVENTE, P.E.
General Manager

Attachments:

1. Benavente J, Guam Power Authority, 2nd Supplemental Testimony re. Bill 196-35 (LS), February 5, 2020.
2. KIUC Asks for Energy Conservation; Rolling Outages Possible 2020, accessed 23 October 2020, < https://website.kiuc.coop/sites/kiuc/files/documents/newsrelease/pr2020-1020%20KIUC%20asks%20for%20energy%20conservation%20and%20announces%20possible%20rolling%20outages.pdf>.
3. Urry, A 2017, 'Tesla Is Turning Kauai Into a Renewable Energy Paradise', *Wired*, 10 August, accessed 23 October 2020, < https://www.wired.com/story/tesla-is-turning-kauai-into-a-renewable-energy-paradise/>.

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ATTACHMENT 1

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

February 5, 2020

Honorable Telena C. Nelson
I Mina' Trentai Singko Na Liheslaturan Guåhan
173 Aspinall Ave., Ste. 202A
Hagåtña, Guam 96910
Via email: senatortcnelson@guamlegislature.org

Honorable Joe S. San Agustin
I Mina' Trentai Singko Na Liheslaturan Guåhan
761 South Marine Corps Dr., Ste. 203
Tamuning, Guam 96931
Via email: senatorjoessanagustin@gmail.com

Re: 2nd Supplemental Testimony re. Bill 196-35 (LS)
AN ACT TO AMEND § 7116(a) AND (d), BOTH OF CHAPTER 7, DIVISION 2, TITLE 17, GUAM CODE ANNOTATED, RELATIVE TO AUTHORIZING THE GUAM DEPARTMENT OF EDUCATION (GDOE) TO ENTER INTO POWER PURCHASE AGREEMENTS (PPA) TO PURCHASE SOLAR ENERGY FROM QUALIFIED PROVIDER(S)

Dear Senators:

The Guam Power Authority provides further information to the proposed amendments to Chapter 7, Division 2, Title 17, Guam Code Annotated, specifically to amend the authority to procure Power Purchase Agreement (PPA) via a Multi-Step Bid from GSA to Guam Department of Education (GDOE).

The legislation should be flexible to allow GPA to contract directly for solar pv energy for GDOE. GPA contracting for an energy agreement for GDOE allows GPA to provide its full complement of expertise and services to GDOE's benefit. A process which receives contract approval by the Consolidated Commission on Utilities and the Public Utilities Commission mitigates significant risk that GDOE enters in agreements which does not result in the intent of the bill.

PROCUREMENT & CONTRACT MANAGEMENT SERVICES

GPA offers its services to conduct the procurement for GDOE in order to ensure the intent of the bill is accomplished in an effective and most efficient manner for the benefit of GDOE, GPA ratepayers and the island community. To achieve lower energy costs while concurrently improving the infrastructure for years to come requires a comprehensive and implementable plan, and a team experienced and successful in executing this task for GDOE. GPA has the complete engineering and procurement team to make this happen. GPA is competent and able to accomplish the following which is necessary for success:

Assessment

- Review existing information and survey facilities to determine best candidates for solar PV systems. Prepare a plan and recommendation to install PV systems in certain schools, cluster of schools or other viable alternatives.
- The magnitude of solar PV systems which could be installed on GDOE infrastructure would certainly require frequency control system or Energy Storage Systems (ESS), such as batteries, in order to be tied into the grid. GPA would evaluate whether one system or individual systems would be required; and would work to minimize its cost impact. All of GPA's solar PV systems are being installed with ESS in order to improve power quality.

Procurement

- Prepare bid specifications and issue a multi-step procurement tender. Venders can ask questions, provide suggestions and recommendations during the question and comment period of the multi-step bid. Site visits would also be planned. This process is complex and technical, and must be well-documented to avoid misunderstandings amongst bidders and avoid or minimize bid protests. This process is strictly monitored and controlled by GPA's procurement department which has successfully awarded over 140,000 kW of Solar PV PPAs over recent years.
- Determine lowest responsive and responsible bidder. Prepare packages and recommendations for award. Address any protest(s) received. Defend decision at OPA appeals or other legal venues which bidders may pursue. Provide the volumes of documents requested through this process or FOIA request.

Approval & Award

- Obtain approval of the Consolidated Commission on Utilities (CCU) for award and the Public Utilities Commission (PUC) as required, and most especially if changes in rates are required to implement the award. As mentioned earlier, customers in the current Net Metering Program do not pay for using the island-wide power grid. GPA has petitioned the PUC to reduce this subsidy by crediting only the avoided cost which, if approved, could make a power purchase agreement more expensive and end up subjecting GDOE to higher costs over the 20-year contract. I would propose the PUC set a new rate to avoid GDOE incurring higher costs. I believe the savings being calculated for GDOE today are being based on a subsidized NEM program. The addition of GDOE into this program will result in increased cost to other ratepayers.
- The award of a PPA requires performance guarantees for the contract to be successful. Therefore, the project has to be successfully constructed and monitored over time. This would require construction management services and engineering expertise over the period. GPA has the expertise to achieve this requirement.

Additional Considerations

- The Net Metering Program has capacity limits of 25 KW for residential and 100 kW for non-residential customers. This could limit what GDOE could install at each school. A procurement which goes through the CCU/PUC process could be treated differently than the current NEM program because these entities have the authority to make the changes. We are all united in our support of our island's education system by improving GDOE infrastructure with energy cost savings without significantly impacting other utility ratepayers.
- GDOE's proposed system may likely trigger an interconnection study depending on the interconnection voltage, solar PV system size, and other characteristics.
- A 20-year PPA is a high-risk program, which if not carefully awarded and monitored, could result in unexpected consequences. A GDOE PPA may involve a commitment between $100M to $200M over the 20 years. I support the quest of the legislature to find a solution for GDOE and believe GPA conducting this procurement and contracting would minimize all risk. A process which passes through the CCU and PUC would be successful.

ENERGY CONSERVATION MEASURES

The other part of the equation for lower GDOE energy cost and improving its infrastructure is conservation and investing in demand side management systems to reduce its energy consumption. As noted in my Supplemental Testimony re. Bill 196-35 (LS) dated January 23, 2020, investing about $41M into the infrastructure could net $4.2M in annual savings. The following outlines the benefits of energy conservation measures:

- The 2019 Siemens study recommended improvements to lighting, air conditioning, energy management systems, water infrastructure and etc. These direct investments will provide system upgrades and new equipment, while concurrently reducing maintenance and energy costs.
- A concerted effort to obtain grants from the federal government and other entities could provide initial and/or sustained funding for the improvements. GPA recently worked with GDOE and successfully received over $3M in grants to upgrade lighting in four (4) major schools to very efficient and longer-life LED lighting. These upgrades would provide significant direct savings to GDOE while extending the life of lights at the school, thereby reducing maintenance cost.
- Similar to a PPA agreement, GDOE could enter into an energy conversion agreement contract with an investor to install, operate and maintain an energy reduction to infrastructure improvement program over a 10 to 20-year period. The investor would be paid from energy cost reduction while reducing GDOE's annual energy bill. Investor could also be required to provide financing for other much needed improvements. The contractor would be required to monitor and manage energy consumption to ensure prudent energy usage. Under such agreement, GPA could be GDOE's owner/engineer to procure and manage such a contract.

In regard to energy conservation efforts, I reviewed GDOE's energy usage over the past four (4) years. The FY 2019 data for each GDOE school (shown below) is sorted by highest cost of energy consumption (kWh) per student.

Building Name	Electricity (kWh)	Annual Spend	Students	kWh/Student	$/Student
Southern HS	3,952,613	$ 1,096,227	1,274	$ 3,103	$ 860
Tamuning ES	1,490,316	$ 409,760	571	$ 2,610	$ 718
Liguan ES	1,172,110	$ 309,123	472	$ 2,483	$ 655
Chief Brodie Memorial ES	686,795	$ 192,448	304	$ 2,259	$ 633
Okkodo HS	4,061,058	$ 1,016,834	1,643	$ 2,472	$ 619
Astumbo MS	1,417,741	$ 369,353	624	$ 2,272	$ 592
Oceanview MS	826,259	$ 240,069	449	$ 1,840	$ 535
Inarajan MS	903,396	$ 266,871	506	$ 1,785	$ 527
Adacao ES	1,007,049	$ 270,867	544	$ 1,851	$ 498
Agueda Johnston MS	1,390,748	$ 377,786	765	$ 1,818	$ 494
Tiyan HS	2,184,489	$ 588,950	1,201	$ 1,819	$ 490
P.C. Lujan ES	604,588	$ 163,107	349	$ 1,732	$ 467
F.B. Leon Guerrero MS	1,789,827	$ 492,641	1,108	$ 1,615	$ 445
C.L. Taitano ES	842,292	$ 243,274	563	$ 1,496	$ 432
J.Q. San Miguel ES	819,468	$ 213,398	498	$ 1,646	$ 429
George Washington HS	2,195,420	$ 634,583	1,497	$ 1,467	$ 424
John F. Kennedy HS	2,784,516	$ 724,413	1,768	$ 1,575	$ 410
Upi ES	847,284	$ 251,724	655	$ 1,294	$ 384

Inarajan ES	378,793	$	101,058	263	$	1,440	$ 384
Machananao ES	559,958	$	175,126	472	$	1,186	$ 371
Wettengel ES	843,027	$	242,359	660	$	1,277	$ 367
Vicente S.A. Benavente MS	1,504,652	$	410,666	1,128	$	1,334	$ 364
Ordot Chalan Pago ES	628,497	$	171,457	471	$	1,334	$ 364
L.P. Untalan MS	1,348,948	$	366,369	1,007	$	1,340	$ 364
M.A. Sablan ES	540,204	$	153,871	427	$	1,265	$ 360
Merizo Martyrs Memorial ES	330,472	$	91,569	259	$	1,276	$ 354
LBJ ES	415,973	$	108,816	311	$	1,338	$ 350
Carbulido ES	609,571	$	152,924	457	$	1,334	$ 335
Truman ES	463,812	$	133,344	399	$	1,162	$ 334
Astumbo ES	533,131	$	178,068	574	$	929	$ 310
Agana Heights ES	403,487	$	109,489	356	$	1,133	$ 308
M.U. Lujan ES	502,710	$	168,823	591	$	851	$ 286
Juan M. Guerrero ES	479,488	$	161,364	567	$	846	$ 285
Captain Price ES	712,470	$	198,559	706	$	1,009	$ 281
Simon Sanchez HS	1,664,731	$	434,607	1,661	$	1,002	$ 262
Talofofo ES	270,617	$	77,133	304	$	890	$ 254
Daniel L. Perez ES	648,580	$	197,074	780	$	832	$ 253
Maria A. Ulloa ES	577,780	$	172,214	683	$	846	$ 252
Jose Rios MS	655,675	$	216,314	879	$	746	$ 246
J.P. Torres ES	95,928	$	32,830	157	$	611	$ 209
Finegayan ES	443,999	$	149,722	909	$	488	$ 165
Totals:	43,588,472	$	12,065,184	28,812	$	1,513	$ 419

Observations:

- The average cost for energy per student in FY 2019 was $419 per year.
- JFK which was recently re-built and GWHS are the benchmark average.
- The top 10 schools which were above average translate to $1.5M in higher cost.
- The leased schools' energy cost per student are substantially higher than the average and are in the top 10. A review of the variables causing this should be pursued. This information would be valuable as GDOE pursuits new schools and to insure it considers energy efficiency in its procurement.
- I recommend an incentive program be established for GDOE schools. The incentive program would be one which allows energy savings above a certain benchmark to be provided back to the school to use for their individual programs, most especially programs typically receiving financing through external fundraisers. I believe such an incentive, would encourage principals and teachers to make all efforts to save energy because it would result in funds specifically available for their needs. I am not certain if this process would need only GDOE Board approval or if it requires specific legislation in order to appropriate savings directly to schools.

I provide my insight and suggestions for your consideration. I am available for discussions or questions prior to the Thursday roundtable meeting, should you so desire. Thank you for the opportunity to comment.

Si Yu'os Ma'åse',

/s/
JOHN M. BENAVENTE, P.E.
General Manager

ATTACHMENT 2

Kaua'i Island Utility Cooperative
Your Touchstone Energy® Cooperative

FOR IMMEDIATE RELEASE
10/20/2020
Contact: Beth Tokioka
808.246.4348
btokioka@kiuc.coop

KIUC Asks for Energy Conservation; Rolling Outages Possible

Līhu'e, Kaua'i, HI – 10/20/2020 - Kaua'i Island Utility Cooperative is asking members to conserve energy and practice voluntary load reductions due to the unexpected lack of availability of several large generating units. In addition, KIUC will likely be implementing rolling outages to begin early this afternoon, as needed, to manage the temporary reduced generation capacity.

Repairs to KIUC's largest and third-largest generators at Kapaia Power Station and Port Allen respectively are underway. The Green Energy Team biomass plant is also under repair and is not expected back on line until next week. In the meantime, KIUC is maximizing generation from smaller conventional units, hydro plants and solar facilities.

"On a normal sunny day, we probably wouldn't need to take these actions," stated KIUC's Chief of Operations Brad Rockwell. "We could run comfortably on our solar resources during the day and count on stored solar to get us through the evening peak. However, due to today's weather conditions, our solar facilities aren't producing adequately to cover the load and aren't storing enough energy to supply us through the evening." He noted that the situation is exacerbated by additional load created by the lack of production from residential and commercial rooftop solar systems.

If implemented, members will experience rolling outages in 30-minute increments. Due to changing operational conditions and member security concerns, a rolling outage schedule will not be published ahead of time. The outages are expected to continue into the evening. Depending on ability to bring additional generating units on line and weather conditions, rolling outages may be necessary through Wednesday morning.

Updates will be issued as new information becomes available.

The public is encouraged to follow the media and KIUC's Facebook page for the latest information.

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ATTACHMENT 3

AMELIA URRY SCIENCE 08.10.2017 10:00 AM

Tesla Is Turning Kauai Into a Renewable Energy Paradise

The power grid of the future will require sunny skies above and energy storage below. Thanks to Tesla, Kauai has both.



GRIST/DANIEL PENNER

THIS STORY ORIGINALLY APPEARED *on Grist and is part of the Climate Desk collaboration.*

When people ask Luke Evslin why he decided to live off the grid, he starts with the time he almost died.

Evslin grew up on Kauai, a nub of a former volcano at the oldest end of the Hawaiian archipelago, but he was living on nearby Oahu at the time of the accident, working and competing in races with an outrigger canoe club.

The biggest race of the year is a daylong ocean crossing from the island of Moloka'i to Oahu's Waikiki Beach, which can take between five and eight hours. Exhausted paddlers rotate out of the canoe during the race, jumping into the water to be scooped up by a waiting motorboat. During the first switch, Evslin was getting ready to heave himself into the canoe when the motorboat struck him.

The propellor sliced across his back in five places, severing muscle and bone along his spine and pelvis, each cut a potential death blow. His teammates pulled him out of the ocean and rushed him to shore. Judging from the looks on everyone's faces, Evslin wasn't sure he would survive the hour-long trip to land.

"I wasn't scared to die," he wrote a month later from his hospital bed, "but I was sad to die. I realized how much I love our beautiful world and everyone that is a part of it … and I was sad that I'd only just noticed."

Soon after, still recovering from his wounds, "I made the terrible choice to read Walden Pond," Evslin recalls. He came across these famous words from Henry David Thoreau: "I went to the woods because I wished to live deliberately, to front only the essential facts of life, and see if I could not learn what it had to teach, and not, when I came to die, discover that I had not lived."

Evslin began dreaming of a self-sufficient life, in touch with nature and free of the careless consumption of modern society. He convinced his then-fiancee, Sokchea, to move to a rainy acre on his native Kauai, where they built an off-grid yurt powered by six solar panels and a bank of batteries.

They planned to use only their own energy, eat what they grew, and eliminate their carbon footprint. Luke even planted a few coffee trees, imagining he would keep up his caffeine habit guilt-free.

"I had this grand plan of being an example for people," he says, "showing how easy it was going to be."

He had good reason to think that. Bathed in Pacific sunlight year-round, Kauai has all the hallmarks of a renewable energy paradise. Others thought so, too. In 2008, the member-owned electricity cooperative set an ambitious goal to run the entire island on 50 percent renewable energy by 2023.

At the time, Kauai had no utility-scale solar at all. But by the final day of 2015, the island's main power plant—a rusty sugar plantation-era diesel generator—shut down for the first time since firing up the 1960s. For a few hours in the middle of the afternoon, two large solar farms did the heavy lifting on the island of 65,000, and the diesel plant sat dormant.

It was a good omen. By the end of 2016, the utility was on track to hit its 50 percent renewable goal five years ahead of schedule.

LEO RAMEL, Grocery clerk, age 29: “[Solar power] is good for the future. It’s not for us, it’s good for our kids in the future. I think it’s a good thing to invest in. You pay a big price up front, but then in time, it will cost less. You’ll get it back.” GRIST/DANIEL PENNER

This February, the co-op board voted to move the goalposts again: 70 percent renewable energy by 2030. It will probably clear that mark early, too.

But, as Evslin quickly learned, the path to a low-carbon future can be tougher than it seems. Even in Hawaii, the sun doesn’t always shine—and when it does, sometimes you end up with more power than you can use in the moment.

How to collect that solar energy, predict it, get it to the right places at the right time, save it up for a rainy day—those are the kind of challenges our massive, spread-out, and unevenly populated country faces as we make the switch to clean energy. It’s one of the reasons that Tesla is making a major investment on Kauai, hoping to get it right.

And it all comes down to a lesson that the Evslins learned the hard way: It’s not about getting off the grid. It’s about building a better one.

“I imagine that there will be a lot more failures than successes to report,” Luke Evslin wrote in the first post of a blog he started to document his life off the grid, on January 1, 2011. “But that’s the point of it.”

Evslin didn’t know just how much he would come to reconsider what counts as failure and what constitutes success. On a visit with the family this summer, I walk the property with Luke as he points out trees he had planted. He’s tailed by a handsome dog named Asher and a mismatched set of terrier mixes, Peanut and Pico. A calico cat appears and settles on the railing with a view of the yard, where ducks and wild chickens peck hopefully.

Luke and his dog, Asher, among his taro plants. GRIST/AMELIA URRY

“I’ve failed at most things I’ve grown,” Luke says with a shrug. Other than the fruit trees dotting the property—supplying all the banana, papaya, breadfruit, and lychee the Evslins could want—little else has taken root. His attempts at arugula and tomatoes fell prey to the chickens, and the ducks discovered a taste for sweet potato; other crops didn’t take to the damp.

“The only real success I’ve had is taro,” Luke says. An easygoing, water-loving crop that can be regrown from its own stem, taro makes up the bulk of the calories the Evslins get from the land. Their one-year-old daughter, Finley, subsists largely on homegrown poi. For Luke and Sokchea, the grocery store remains a necessity.

Then there’s the water. Their water tank, which collects rain from the hill above the yurt, also provides a welcoming home for mosquito larvae. The tank’s lining recently sprung a leak, so the family has been living on jugs of municipal water hauled from Luke’s sister’s house. At one time, Luke might have thought of this as a betrayal of principle; now it’s mostly just inconvenient.

But the biggest problem for Luke, like the utility that serves his island, has been the sun itself. He and Sokchea scaled back their lives to live within their solar-powered means—ditching their toaster and microwave, giving up laundry on cloudy days when their batteries wouldn’t be able to recharge. But they still have rainy weeks where they run out of power and have to run their gas-powered generator to keep the refrigerator from spoiling.

Most days, however, produced more solar power than they could use or successfully store in their batteries. If they were connected to the grid, Luke thought, that power could be used by his neighbors.

It took about a year for Luke to regret his move off the grid. “It’s not that it wasn’t what we expected,” he explains. “We wanted the difficulty of it.” But he also wanted to show people it was possible to live with a smaller carbon footprint;

instead, he was burning gasoline and watching the island's electric utility outpace him, installing solar power and cutting carbon all over the island.

"That was all happening, not because of me," he remembers thinking, "but despite me and my efforts."

Just after 10 am, the sun comes down hot on Kauai's biggest solar field. Rows of darkly gleaming panels ripple toward a horizon of jungle-green mountaintops and whipped-cream clouds.

GRIST/DANIEL PENNER

By high noon on the sunniest days, the Kauai Island Utility Cooperative generates 97 percent of its energy needs from a combination of three large solar fields, residential rooftop solar, biomass, and hydropower. Last year, 42 percent of the electricity used on island came from renewable sources.

In fact, Kauai is capable of generating so much energy from sunlight that any additional solar power the utility installs would likely go unused much of the time. Unlike the mainland United States, where a massive power grid connects far-flung regions, Kauai has nowhere to send the power it doesn't use—and right now, it's got about as much solar power in the middle of a day as it needs.

Yet even on the brightest day, the utility's diesel-fired power plants start chugging back to full speed as the sun sets. It's the solar version of feast or famine. And it's why, despite all its advantages, Kauai is still a long way from complete clean-energy conversion.

That's where the ranks of industrial, refrigerator–sized boxes lined up beside the solar field come in. Grouped together on neat concrete pads, only the occasional Tesla logo hints at what lies inside: batteries.

In March, Tesla cut the ribbon on this groundbreaking grid-scale battery installation, a key test of the viability of energy storage in making renewable energy a more reliable part of the grid. With 50,000 solar panels and 272 batteries, the combined solar-and-storage plant provides enough energy to power 4,500 homes for four hours.

If Tesla can help keep Kauai solar-powered around the clock with its batteries, then it can apply what it has learned elsewhere in the country, and around the world.

SABRA KAUKA, Cultural practitioner, age 72: "I'm very proud of the project with the Tesla batteries. It's going back to being self-supporting and self-sustaining, both with our energy and our food. It can be done. We have the land, we have the sunshine. What we need is the commitment." GRIST/DANIEL PENNER

On this particular sunny day, Tesla engineers are doing some final tests before signing off on the plant. The site manager unlocks the front panel and swings the door open to reveal lithium-ion battery cells stacked like cafeteria trays.

Much of this hardware was borrowed directly from the electric cars that Elon Musk built his company on. (The coolant reservoir fastened to the door looks especially automotive.) Decades of research and development into smartphones and electric cars make lithium-ion batteries the most reliable and cheap battery on the market today.

"We designed the Tesla plant to be like a conventional power plant," Brad Rockwell tells me. He is the head of power supply for Kauai's utility cooperative, the one in charge of balancing supply and demand.

"I can say, 'OK, give me 5 megawatts on the grid,'" Rockwell says. "And the plant looks around and says, 'Am I getting any solar? What do you know, I'm getting 7 megawatts of solar—the grid only needs 5, so I'm going to give them a solid 5, and 2 will go to the battery.'"

He moves a pen across a sheet of paper to underline the shifting arithmetic. "Then when a cloud comes over and the [solar panels are] only putting out 2 megawatts, now I need 2 from the solar and 3 from the battery. And it just does that all day long."

Rockwell is a former US Navy engineer, familiar with photovoltaic and battery systems because he studied them in the early 1990s. "It turns out that most remote islands are powered like ships are," he says. Neither can rely on copious cheap fuel, and they can't afford to waste what power they do have.

An average day of energy use on Kauai, before and after Tesla's batteries came online. In 2016, the period of highest energy demand is met mostly with fossil fuels, after the sun has set. In 2017, solar power generated during the day is stored up and used at night, shrinking the island's fossil fuel use by as much as 1.6 million gallons a year. KAUAI ISLAND UTILITY COOPERATIVE

Most places, including Kauai, see two big, predictable peaks in energy use every day: one in the morning, when most people are waking up and getting ready for work, and a bigger one at night, when they return home. Both of those peaks occur outside the period when most solar power can be generated.

That's why "there's a finite limit" to how much solar power Kauai can consume right now, Rockwell says, showing me a graph of energy use over the course of a day. Between 10 a.m. and 4 p.m. on most days, Kauai nearly reaches its 100 percent renewable goal. Rockwell points out a gap of only a few megawatts between solar supply and the total electricity demand during the daytime hours, represented on the graph as a slim gray wiggle of conventional power under a heap of solar power.

"We're already adding that much in rooftop solar every year. But," he goes on, "if we can keep adding projects that don't have to deliver here," he taps the sunny yellow hill, "then we can start to erase this stuff," he says, gesturing to the twin peaks of dark gray conventional power book-ending the day. "And that's how we get to 100 percent renewable."

Now that the Tesla battery plant is up and running, the utility will be able to cut 1.6 million gallons of fuel use per year. That power will come right off the top of the morning and evening peak demand. Because those peaks are also the most expensive times to generate power, Kauai's customers should see a drop in their electric bills, too.

The co-op is already looking to its next solar-plus-storage installation, this one in partnership with the energy company AES. Announced in January, the AES plant will be about twice as big as the Tesla plant, and will supply 11 percent of the island's annual electricity needs by the end of 2018.

GRIST/DANIEL PENNER

By 2025—three years ahead of their latest goal—the utility expects to get 70 percent of its annual energy from renewables, much of it stored in those battery packs for use during the evening and morning peaks.

In June, Hawaii became the first state to formally adopt the Paris Climate Accord, in the wake of President Trump's announcement that he planned to pull out. The mayor of Kauai, Bernard Carvalho, also threw his support behind the agreement.

"Although Kauai is a small island," Carvalho said, "we believe it is our responsibility to take a leadership position on climate change mitigation. And we are strongly committed to staying on course to build a more sustainable and resilient future."

But what will that future look like? It's increasingly clear that it won't be the off-the-grid Eden that folks like Evslin once imagined. Personal solar panels and other attempts to live the virtuous life look outdated in a place like Kauai, where the utility is committed to cutting carbon and costs at the same time.

The economies of scale are such that Kauai's utility cooperative can install a solar-and-storage unit for about half what it would cost a family to install the same amount on a house. Even when it comes to the island's fossil fuel–generated power, the utility can produce more from a gallon of gasoline than someone with a $100 generator in their basement.

BARBARA NAGAMINE, Former Member Services manager for KIUC, age 65: "I wanted AC in the home, and we knew that was going to cost a lot. So we put in solar. Both of us are retired now. We had to change our lifestyle, so instead of washing clothes or turning on the dishwasher at night, we do it all during the day now. It's been working for us. We love it." GRIST/DANIEL PENNER

Relying on personal power, Rockwell says, is no way to power a community, let alone an island.

This became obvious to Evslin midway through his yurt experiment: Inefficiency is the ultimate downfall of any individual effort to address climate change.

"Either you're wasting electricity in a closed system, because it's sunny and your batteries are full, or you don't have enough power and you gotta run your generator," Evslin says. "That's not a bug in my system. That's a feature of any off-grid system."

These trends mean incentive programs set up to encourage homeowners to install solar panels are now out of whack. Hawaii's public utility commission still requires Kauai's utility to pay early solar adopters for power they generate, based on "avoided cost of fuel." But these days, the power that's being avoided doesn't come from fossil fuels—it's being provided by the island's solar farms.

GRIST/AMELIA URRY

So although the utility is offsetting some panel owners' bills for their (less efficient) solar power, the rest of the utilities' costs (like batteries) are divided among members who don't have access to rooftop solar power. These are the kinds of policy disincentives that Hawaii and the rest of the country will need to take into account as renewable power scales up.

As the island around them goes solar, Luke and Sokchea are looking at houses—they've tentatively picked one out—that would put them back on the grid, and back in a community they could feel a part of. If they lived in town, they could cut down on a huge chunk of their remaining energy use by walking or biking to work, or to run errands.

Still, they both admit they are reluctant to leave the yurt. Settling onto the couch with their dogs in the evening, Finley sleeping in a crib on the other side of their single large room, Luke and Sokchea weigh the pros and cons. They could shell out several thousand dollars to the utility company to hook them up to the grid out here, sure, but they'd still be left with many unanswered questions.

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What about the benefits of neighbors, a little lacking out here at the end of the road? What about walls, which might come in handy as Finley gets older? It's still beautiful here, but it's no longer the dream it was when they moved in.

The experience taught Luke a lot. He learned first-hand the challenges of solar power—how cheap it seems when he needs to run a fan in the middle of the day, how expensive when he's rationing out the last watts in his batteries.

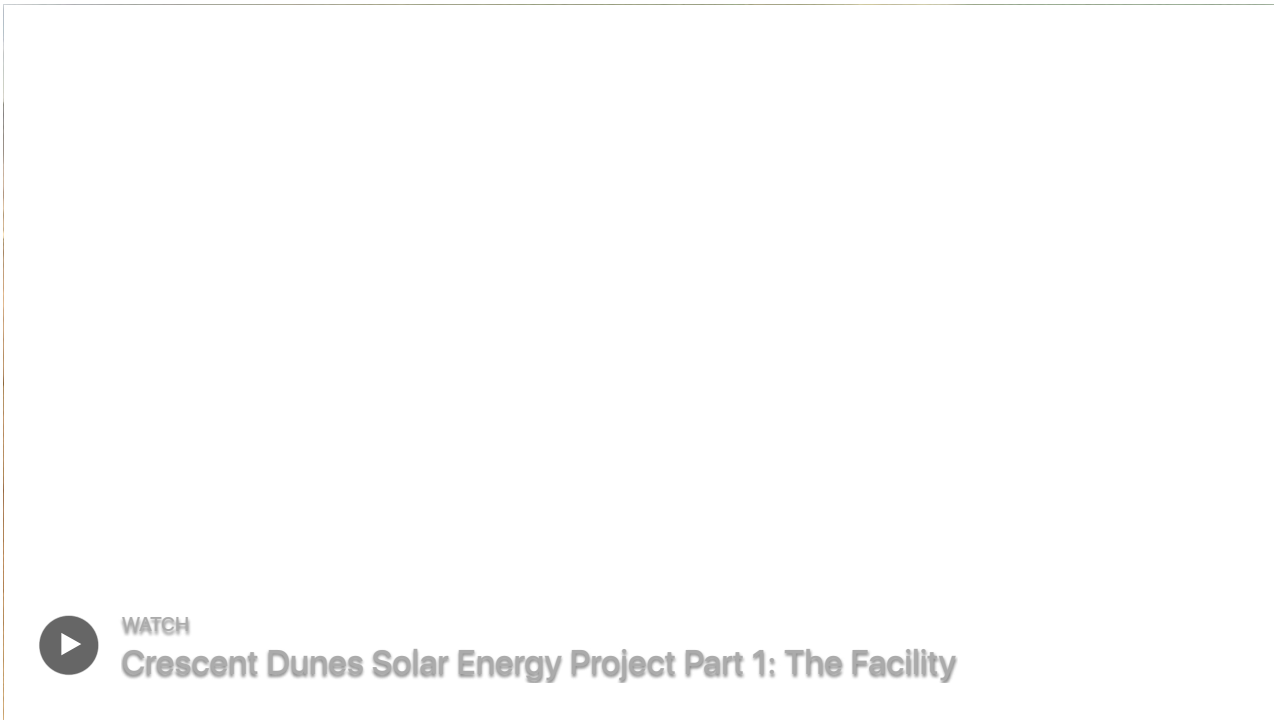
By retreating to his hideaway, Luke came to understand the power of civic participation. He's pursuing a masters in public policy online, and it's not hard to imagine him—wry, self-deprecating, easy to talk to—running for a seat in county government, or maybe even on the utility board.

"The solutions to all of this can't be individual," he says—and by "all of this," it's clear he's thinking about the challenges facing society as a whole, not just Kauai, not just energy.

Walking me out past the taro patch, back across the swinging bridge that spans the creek surrounding his property, Luke points out one last thing. "It's funny," he says, "it was only recently I learned that Thoreau had his mom bring him food out in the woods."

Reporting for this story was supported in part by Longreads and the Fund for Environmental Journalism of the Society of Environmental Journalists.

Featured Video



Crescent Dunes Solar Energy Project Part 1: The Facility

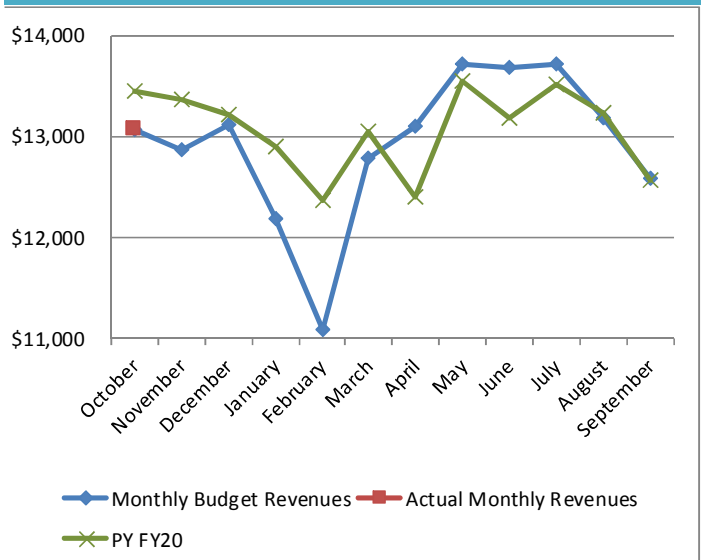
Take a look inside the first commercial-scale solar energy plant to use nothing more than the sun, molten salt, and a whole lot of mirrors to send power to the people. If the Crescent Dunes Solar Energy facility works as promised, it could be a model for the future of renewable energy.

TOPICS CLIMATE DESK RENEWABLE ENERGY SOLAR BATTERIES

CFO
FINANCIAL HIGHLIGHTS
October 2020

October 2020 Monthly Financial Highlights

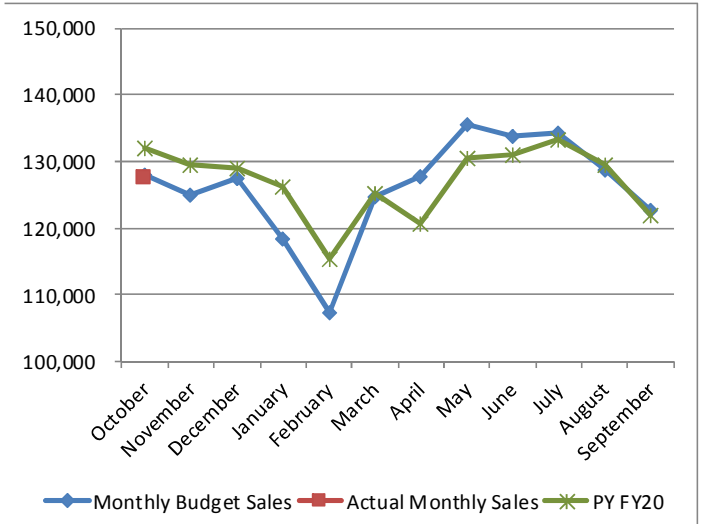
Base Rate Revenue $000



Through October 31, 2020

$000	Monthly Budget Revenues	Actual Monthly Revenues	Variance		PY FY20	CY vs PY Variance	
October	$ 13,064	13,053	$ (11)	↓	$ 13,440	$ (386)	↓
November	12,857				13,358		
December	13,106				13,216		
January	12,174				12,888		
February	11,078				12,357		
March	12,780				13,039		
April	13,085				12,385		
May	13,712				13,550		
June	13,682				13,176		
July	13,708				13,514		
August	13,180				13,220		
September	12,574				12,567		
Total	**$ 155,000**	**$ 13,053**	**$ (11)**		**$ 156,709**	**$ (386)**	

MWh Sales

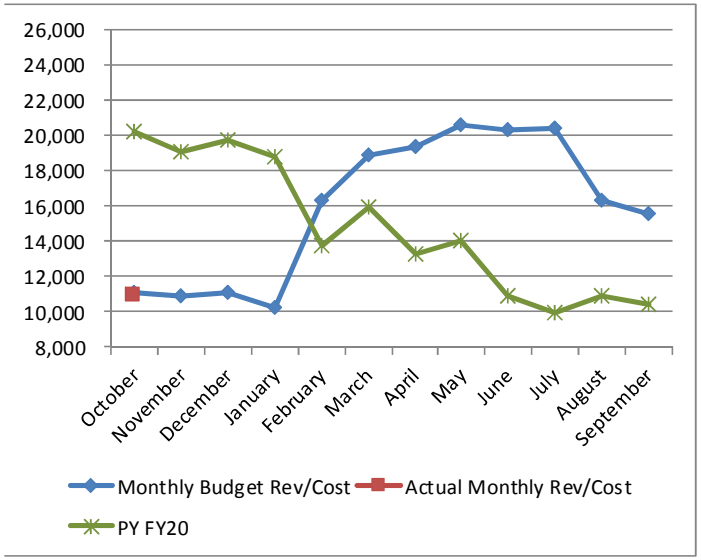


Through October 31, 2020

mwh	Monthly Budget Sales	Actual Monthly	Variance		PY FY20	CY vs PY Variance	
October	127,852	127,515	(337)	↓	131,953	(4,438)	↓
November	125,004				129,421		
December	127,563				128,958		
January	118,299				126,130		
February	107,268				115,346		
March	124,649				125,185		
April	127,762				120,688		
May	135,527				130,531		
June	133,849				130,987		
July	134,332				133,116		
August	128,752				129,337		
September	122,569				121,927		
Total	**1,513,426**	**127,515**	**(337)**		**1,523,579**	**(4,438)**	

October 2020 Monthly Financial Highlights (Continued)

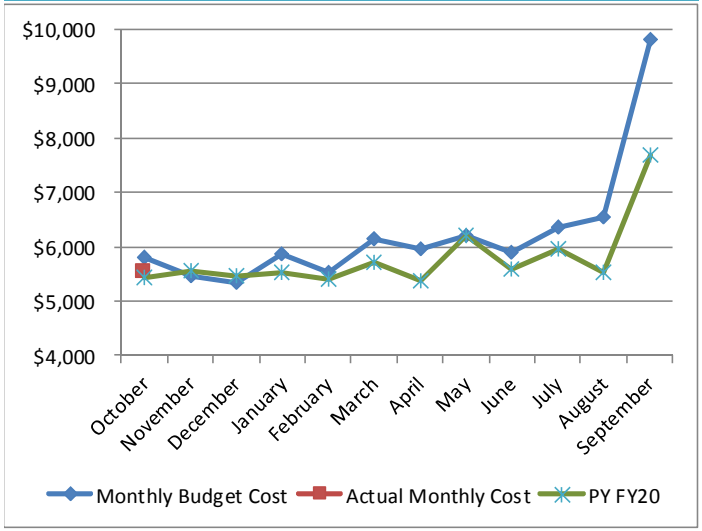
Fuel Revenue/ Cost $000



Through October 31, 2020

$000	Monthly Budget Rev/Cost	Actual Monthly Rev/Cost	Variance		PY FY20	CY vs PY Variance	
October	11,098	10,910	$ (187)	↓	$ 20,165	$ (9,255)	↓
November	10,850				19,088		
December	11,072				19,697		
January	10,268				18,820		
February	16,274				13,701		
March	18,911				15,968		
April	19,383				13,254		
May	20,561				14,001		
June	20,307				10,867		
July	20,380				9,935		
August	16,352				10,925		
September	15,566				10,438		
Total	**$ 191,023**	**$ 10,910**	**$ (187)**		**$ 176,860**	**$ (9,255)**	

O&M Cost $000



Through October 31, 2020

$000	Monthly Budget Cost	Actual Monthly	Variance		PY FY20	CY vs PY Variance	
October	$ 5,790	5,515	275	↑	5,421	(94)	↓
November	5,469				5,572		
December	5,334				5,460		
January	5,857				5,521		
February	5,530				5,417		
March	6,143				5,723		
April	5,956				5,357		
May	6,211				6,215		
June	5,889				5,578		
July	6,363				5,957		
August	6,543				5,539		
September	9,806				7,700		
Total	**$ 74,892**	**$ 5,515**	**$ 275**		**$ 69,461**	**$ (94)**	

October 2020 Monthly Financial Highlights (Continued)

Through October 31, 2020										
	4Q2018	1Q2019	2Q2019	3Q2019	4Q2019	1Q2020	2Q2020	3Q2020	4Q2020	1Q2021
Residential	43,887	43,920	44,144	44,329	44,479	44,203	44,509	45,069	44,191	44,202
Commercial	5,261	5,273	5,291	5,303	5,289	5,154	5,352	5,309	5,366	5,292
Government	1,077	1,090	1,074	1,075	1,070	1,072	1,059	1,061	1,081	1,092
Streetlights	1,152	1,151	1,152	1,138	1,138	1,135	1,128	1,139	1,132	1,135
Navy	1	1	1	1	1	1	1	1	1	1
Total	51,378	51,435	51,662	51,846	51,977	51,565	52,049	52,579	51,771	51,722

Debt service coverage (DSC) calculation-indenture	2015	2016	2017	2018	2019	2020	2021
Senior lien coverage	3.62	3.28	2.65	2.53	1.97	1.67	1.69
Aggregate debt service coverage	2.62	3.28	2.65	2.53	1.97	1.67	1.69
Debt service coverage (DSC) calculation-IPP as O&M							
Senior lien coverage	2.56	2.45	1.79	1.65	1.64	1.48	1.50
Aggregate debt service coverage	1.85	2.45	1.79	1.65	1.64	1.48	1.50

October 2020 Monthly Financial Highlights (Continued)

Date	# Prepaid Customers	Balance in arrear	Payment Plan	Total
July 31, 2020	951	$ 579,651	$ 98,276	$ 677,927
Aug .31, 2020	955	$ 133,710	$ 565,383	$ 699,093
Sept. 30, 2020	996	$ 360,861	$ 546,949	$ 907,810
Oct. 31, 2020	1000	$ 534,346	$ 544,028	$ 1,078,374

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

Issues for Decision

Resolution No. 2020-23

Relative to Authorizing Banking Transactions on Behalf of GPA

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

The Guam Power Authority (GPA) maintains a variety of bank accounts, Letter of Credit facilities and other financial instruments and accounts at institutions including but not limited to the Bank of Guam, Bank of Hawaii, First Hawaiian Bank, ANZ Guam Inc., Coast 360 Federal Credit Union, Bank Pacific, Community First Credit Union, US Bank. The Guam Power Authority has designated certain employees to sign checks and financial instruments including but not limited to Letters of Credit and to authorize transactions on behalf of the Utility. GPA has determined that due to staffing changes, it is appropriate that a change be made to the authorized signatories. The limitation for the amount of checks requiring two (2) signatories has not been modified since October 27, 2015 and remains unchanged.

The following persons are authorized to sign financial instruments including checks, Letters of Credits, bank transfers and other transaction documents and to authorize other types of payments on behalf of the Guam Power Authority:

JOHN M. BENAVENTE, P.E., General Manager
MELINDA C. MAFNAS, P.E., Assistant General Manager of Operations
JOHN J.E. KIM, Chief Financial Officer
MARIPAZ N. PEREZ, Assistant Chief Financial Officer
LENORA M. SANZ, Controller

Transaction amounts of $10,000.00 or less will require a single signatory. All other transactions will require two (2) signatories.

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

RESOLUTION NO.: 2020-23

TO CHANGE THE SIGNATORIES THAT MAY AUTHORIZE BANKING TRANSACTIONS ON BEHALF OF GPA

WHEREAS, the Guam Power Authority (GPA) maintains a variety of bank accounts, Letter of Credit facilities and other financial instruments and accounts at institutions including but not limited to the Bank of Guam, Bank of Hawaii, First Hawaiian Bank, ANZ Guam Inc., Coast 360 Federal Credit Union, Bank Pacific, Community First Credit Union, US Bank; and

WHEREAS, the Guam Power Authority has designated certain employees to sign checks and financial instruments including but not limited to Letters of Credit and to authorize transactions on behalf of the Utility; and

WHEREAS, GPA has determined that due to staffing changes, it is appropriate that a change be made to the authorized signatories; and

WHEREAS, the limitation for the amount of checks requiring two (2) signatories has not been modified since October 27, 2015 and remains unchanged; and

NOW THEREFORE, BE IT RESOLVED BY THE CCU, AS THE GOVERNING BODY OF THE GPA, AS FOLLOWS:

1. The following persons are authorized to sign financial instruments including checks, Letters of Credits, bank transfers and other transaction documents and to authorize other types of payments on behalf of the Guam Power Authority:

JOHN M. BENAVENTE, P.E., General Manager
MELINDA C. MAFNAS, P.E., Assistant General Manager of Operations
JOHN J.E. KIM, Chief Financial Officer
MARIPAZ N. PEREZ, Assistant Chief Financial Officer
LENORA M. SANZ, Controller

2. Transaction amounts of $10,000.00 or less will require a single signatory. All other transactions will require two (2) signatories.

3. The Chairman and Secretary of the Consolidated Commission on Utilities are authorized to sign resolutions which are generally consistent with the authorizations.

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 24th **DAY OF NOVEMBER 2020**

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**MICHAEL T. LIMTIACO**
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

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

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

Ayes: _____
Nays: _____
Abstentions: _____
Absent: _____

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

Issues for Decision

Resolution No. 2020-24

Relative to LEAC

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

The Guam Public Utilities Commission (GPUC) has established a Tariff under which the Guam Power Authority (GPA) is allowed to recover its fuel costs and fuel related costs under a factor which is reset and trued up every (6) six months through the Levelized Energy Adjustment Clause (LEAC). The LEAC Clause allows for interim adjustment if over recovery balance is projected to exceed $2 million during the six-month levelized period. The LEAC period covered from February 1, 2020 through July 31, 2020, GPA requested to adjust the LEAC rate of $0.134474/kWh that was approved for meters read on or after February 1, 2020 in anticipation of projected declining prices of black oil in the fuel market and to recover the under-recovery at the end of the period. On March 24, 2020, GPA filed for an Interim LEAC Factor of $0.110039/ kWh as the projected price of diesel dropped about $24/bbl bringing the average projected cost for both types of fuel down to $53.36/bbl. In May 2020, the Interim LEAC Factor of $0.086800/kWh effective June 1, 2020, as ordered by the Public Utilities Commission, included the additional rate of $0.003109/kWh establishing the funding source for the Demand Side Management (DSM) Program that would provide roughly $1.5M for a six-month period. For the regular biannual LEAC period of August 1, 2020 thru January 31, 2021, the Public Utilities Commission ordered to maintain the Interim LEAC Factor of $0.086800/kWh and the rates for the alternative voltage levels effective June 1, 2020, including the imbedded rate of $0.003109/kWh for the DSM Program.

The average market price of residual fuel oil and diesel used in the initial filing for the current period was approved at $39.30/bbl for the (6) six-month period ending January 31, 2021, the current projection for the same period is $48.50/bbl. **The projected average price of residual fuel oil and diesel for the period ending July 31, 2021 is expected to reach $53.82/bbl. The most recent Morgan Stanley market projections indicate rising fuel prices and projected under-recovery for the period ending July 31, 2021 at the current LEAC rate of $.0868000/kWh is $30.3M.**

Under this resolution, GPA proposes a gradual true up of fuel cost by increasing the LEAC rate to recover 50% of the total projected under recovery from $0.0868000/kWh to $0.111653/kWh for the current LEAC rate for secondary voltage customers for the periods of February 1, 2021 through July 31, 2021. An estimated $1.5 million is included for costs associated with the Demand Side Management rebate program for this anticipated LEAC period. GPA is now requesting the Consolidated Commission on Utilities to authorize the Authority to file such petition with the Guam Public Utilities Commission.

How much will it cost?

The projected LEAC rate for Secondary voltage customers **is $0.111653/kWh or a 28.63% increase** from the current LEAC rate.

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

RESOLUTION NO. 2020-24

AUTHORIZING THE MANAGEMENT OF THE GUAM POWER AUTHORITY TO PETITION THE GUAM PUBLIC UTILITIES COMMISSION FOR A CHANGE IN THE LEVELIZED ENERGY ADJUSTMENT CLAUSE

WHEREAS, the Guam Public Utilities Commission (GPUC) has established a Tariff under which the Guam Power Authority (GPA) is allowed to recover its fuel costs and fuel related costs under a factor which is reset and trued up every (6) six months through the Levelized Energy Adjustment Clause (LEAC); and

WHEREAS, the deadline for the next filing is December 15, 2020; and

WHEREAS, for the LEAC period covered from February 1, 2020 through July 31, 2020, GPA requested and was approved for an adjustment to the LEAC rate of $0.134474/kWh that was approved for meters read on or after February 1, 2020 in anticipation of projected declining prices of black oil in the fuel market and to recover the under-recovery balance of fuel cost at the end of the period. At the time of original the original filing, the average projected cost for black oil and diesel was $62.05/bbl; and

WHEREAS, on March 24, 2020, GPA filed for an Interim LEAC Factor of $0.110039/ kWh as the projected price of diesel dropped about $24/bbl bringing the average projected cost for both types of fuel down to $53.36/bbl. The interim LEAC factor was approved for meters read on or after April 1, 2020; and

WHEREAS, in May 2020, the Interim LEAC Factor of $0.086800/kWh effective June 1, 2020, as ordered by the Public Utilities Commission, included the additional rate of $0.003109/kWh establishing the funding source for the Demand Side Management (DSM) Program that would provide roughly $1.5M for a six-month period.

Total revenues collected for the DSM Program between the five-month period of June through October 2020 is $1.6M, or an average of $320 thousand per month; and

WHEREAS, for the regular biannual LEAC period of August 1, 2020 thru January 31, 2021, the Public Utilities Commission ordered to maintain the Interim LEAC Factor of $0.086800/kWh and the rates for the alternative voltage levels effective June 1, 2020, including the imbedded rate of $0.003109/kWh for the Demand Side Management (DSM) Program; and

WHEREAS, the average market price of residual fuel oil and diesel used in the initial filing for the current period was approved at $39.30/bbl for the (6) six-month period ending January 31, 2021, the current projection for the same period is $48.50/bbl. The projected average price of residual fuel oil and diesel for the period ending July 31, 2021 is expected to reach $53.82/bbl; and

WHEREAS, the most recent Morgan Stanley market projections indicate rising fuel prices and projected under-recovery for the period ending July 31, 2021 at the current LEAC rate of $.0868000/kWh is $30.3M; and

WHEREAS, GPA proposes a gradual true up of fuel cost by increasing the LEAC rate to recover 50% of the total projected under recovery from $0.0868000/kWh to $0.111653/kWh or a 28.63% increase from the current LEAC rate for secondary voltage customers for the periods of February 1, 2021 through July 31, 2021; and

WHEREAS, an estimated $1.5 million is included for costs associated with the Demand Side Management rebate program for the anticipated LEAC period; and

WHEREAS, GPA now is requesting the Consolidated Commission on Utilities to authorize the Authority to file such petition with the Guam Public Utilities Commission; and

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

The General Manager of the Guam Power Authority is authorized to petition the Guam Public Utilities Commission for the proposed secondary voltage LEAC rate of $0.111653/kWh effective for the period from February 1, 2021 to July 31, 2021. (LEAC factors for alternative voltage levels are as reflected in the attached spreadsheets in the attached Exhibit A.)

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 24th DAY OF NOVEMBER 2020

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**MICHAEL T. LIMTIACO**
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

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

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

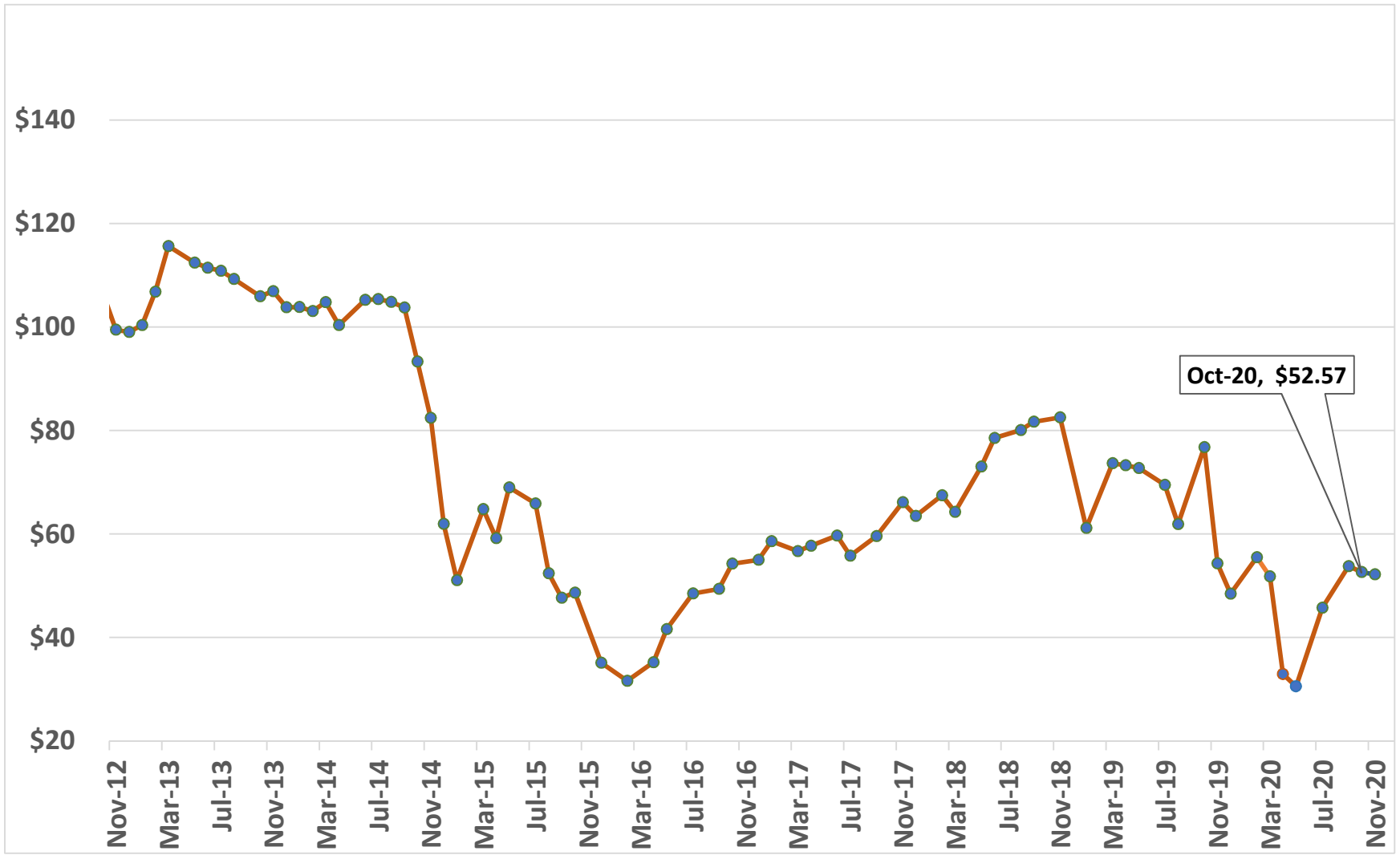
Ayes: _____
Nays: _____
Abstentions: _____
Absent: _____

Exhibit A

LEAC – Proposed

	Full Recovery MS Pricing 10.29.20 to 11.04.20 Feb 21- Jul 21	50% Recovery MS Pricing 10.29.20 to 11.04.20 Feb 21- Jul 21
Average Price per Bbl-RFO	$ 53.30	$ 53.30
Average Price per Bbl-Diesel	$ 54.62	$ 54.62
Number 6 (HSFO/LSFO)	$ 43,790	$ 43,790
Number 2 (Diesel)	29,079	29,079
Renewable (Solar)	4,690	4,690
TOTAL COST	$ 77,559	$ 77,559
Handling Costs	6,443	6,443
Total Current Fuel Expense	$ 84,003	$ 84,003
Civilian Allocation	80.530%	80.530%
LEAC Current Fuel Expense	$ 67,648	$ 67,648
Estimated DSM for this period	$ 1,500	$ 1,500
Deferred Fuel Expense at the beginning of the period	14,000	14,000
Total LEAC Expense	$ 83,148	$ 83,148
Less: Trans. Level Costs	(4,184)	(3,422)
Distribution Level Costs	$ 78,964	$ 79,725
Over recovery/(Under) at the end of the period	$ -	$ (15,139)
Adjusted Distribution Level Costs	$ 78,964	$ 64,587
Distribution Level Sales (mWh)	578,459	578,459
LEAC Factor Distribution	**0.136507**	**0.111653**
Current LEAC Factor Distribution	0.086800	0.086800
Increase/(Decrease)	0.04971	0.02485
Monthly Increase/(Decrease) - 1000 kWh	$ 49.71	$ 24.85
% Increase/(Decrease) in LEAC	57.27%	28.63%
% Increase/(Decrease) in Total Bill	27.40%	13.70%
Discount (3%) - Primary 13.8 KV	$ 0.132437	$ 0.108324
Discount (4%) - 34.5 KV	$ 0.132055	$ 0.108012
Discount (5%) - 115 KV	$ 0.130430	$ 0.106682

LEAC Update – GPA Fuel Purchases (Per Barrel)



Note: No fuel purchase in June 2020.

Purchased

Ordered

LEAC Update – Morgan Stanley Asian Morning Call

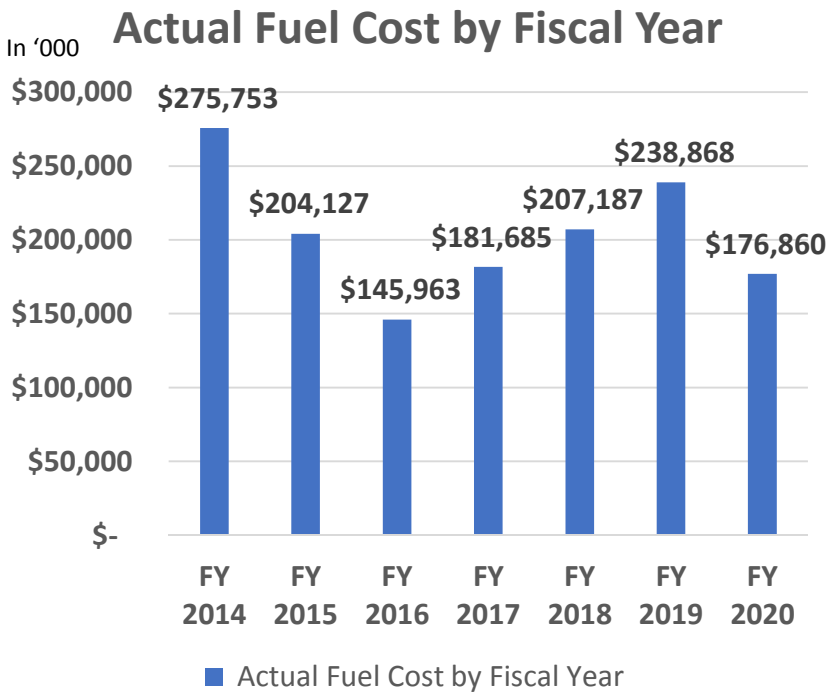
Sing HSFO 180 CST

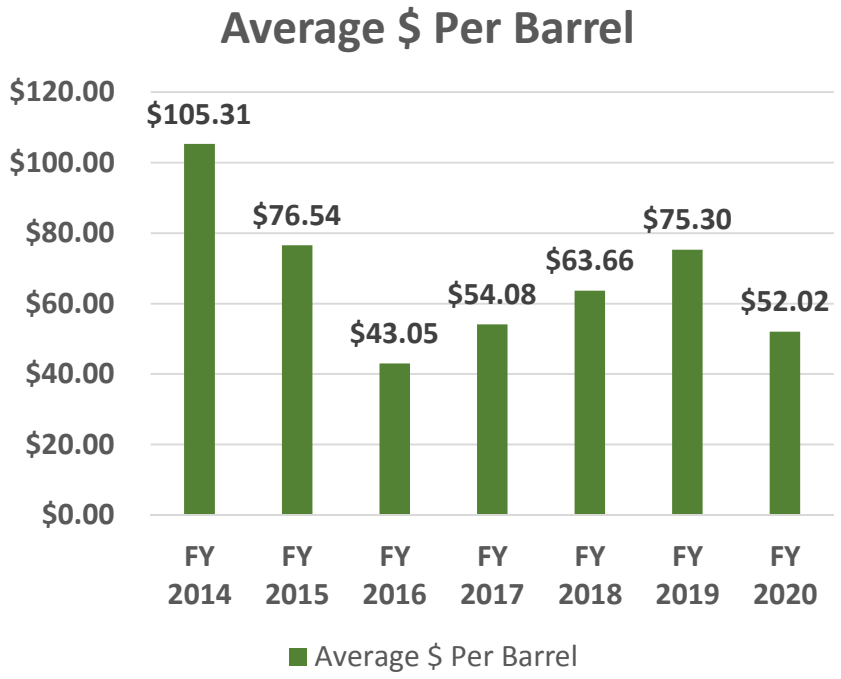
Date	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
10/29/2020	$ 247.86	$ 244.11	$ 242.61	$ 242.86	$ 242.86	$ 244.19	$ 244.19	$ 244.19	$ 245.94	$ 245.94	$ 245.94
10/30/2020	$ 248.73	$ 244.98	$ 243.48	$ 243.73	$ 243.73	$ 245.06	$ 245.06	$ 245.06	$ 246.81	$ 246.81	$ 246.81
11/2/2020	$ 242.09	$ 238.59	$ 237.34	$ 237.84	$ 237.92	$ 240.34	$ 240.34	$ 240.34	$ 242.92	$ 242.92	$ 242.92
11/3/2020	$ 255.68	$ 252.18	$ 250.93	$ 251.43	$ 251.51	$ 253.93	$ 253.93	$ 253.93	$ 256.51	$ 256.51	$ 256.51
11/4/2020	$ 266.48	$ 262.98	$ 261.73	$ 262.23	$ 262.32	$ 264.73	$ 264.73	$ 264.73	$ 267.32	$ 267.32	$ 267.32
Five-day average	$ 252.17	$ 248.57	$ 247.22	$ 247.62	$ 247.67	$ 249.65	$ 249.65	$ 249.65	$ 251.90	$ 251.90	$ 251.90

Gassoil 10ppm

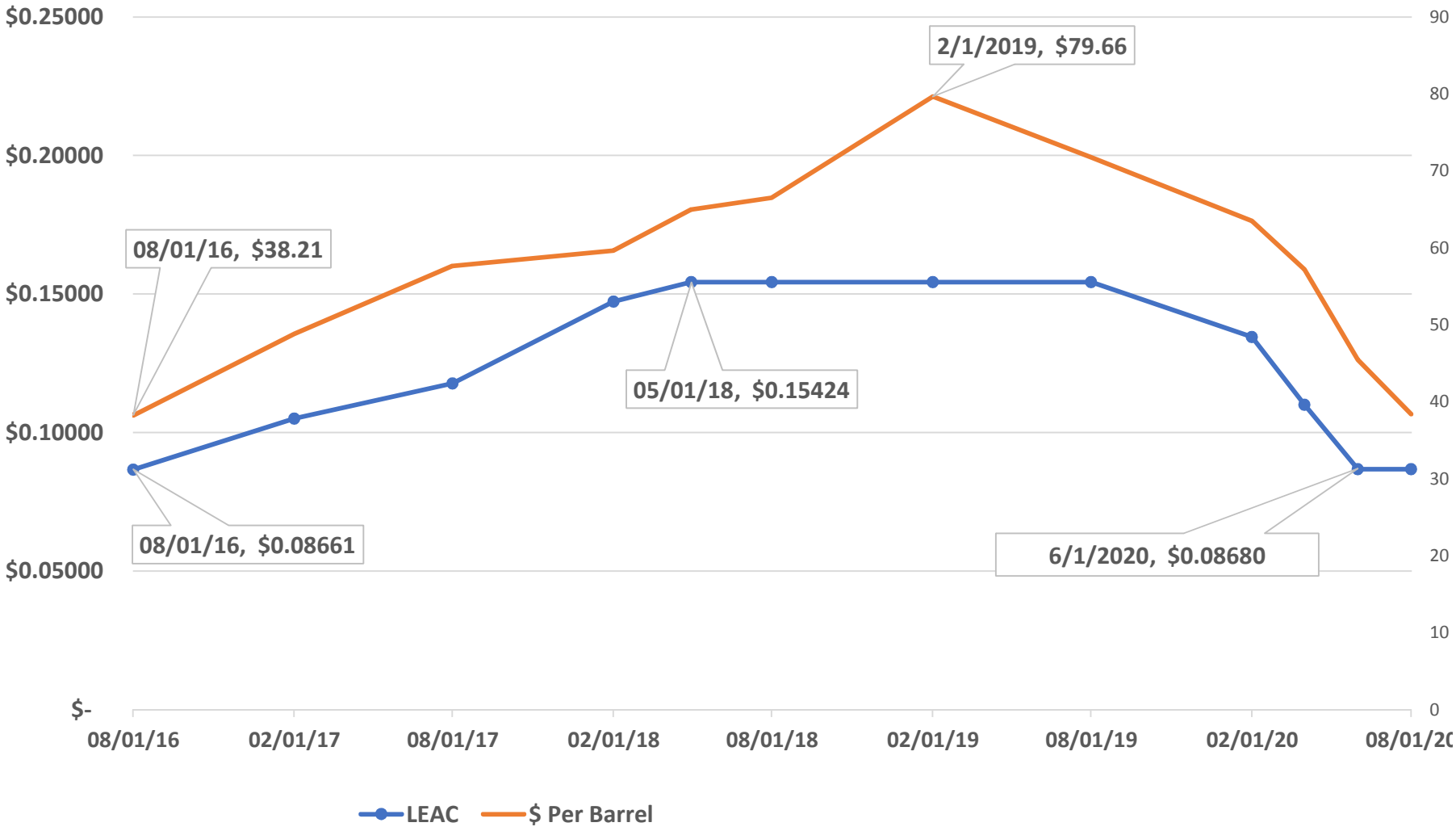
10/29/2020	$ 42.30	$ 42.82	$ 43.29	$ 43.76	$ 43.76	$ 45.19	$ 45.19	$ 45.19	$ 46.57	$ 46.57	$ 46.57
10/30/2020	$ 41.26	$ 41.79	$ 42.23	$ 42.68	$ 42.68	$ 44.05	$ 44.05	$ 44.05	$ 45.46	$ 45.46	$ 45.46
11/2/2020	$ 39.70	$ 40.15	$ 40.60	$ 41.05	$ 41.06	$ 42.50	$ 42.50	$ 42.50	$ 43.96	$ 43.96	$ 43.96
11/3/2020	$ 42.02	$ 42.52	$ 42.94	$ 43.38	$ 43.38	$ 44.79	$ 44.79	$ 44.79	$ 46.23	$ 46.23	$ 46.23
11/4/2020	$ 43.91	$ 44.31	$ 44.67	$ 45.03	$ 45.06	$ 46.42	$ 46.42	$ 46.42	$ 47.79	$ 47.79	$ 47.79
Five-day average	$ 41.84	$ 42.32	$ 42.75	$ 43.18	$ 43.19	$ 44.59	$ 44.59	$ 44.59	$ 46.00	$ 46.00	$ 46.00

LEAC Update – Fuel Cost by Fiscal Year

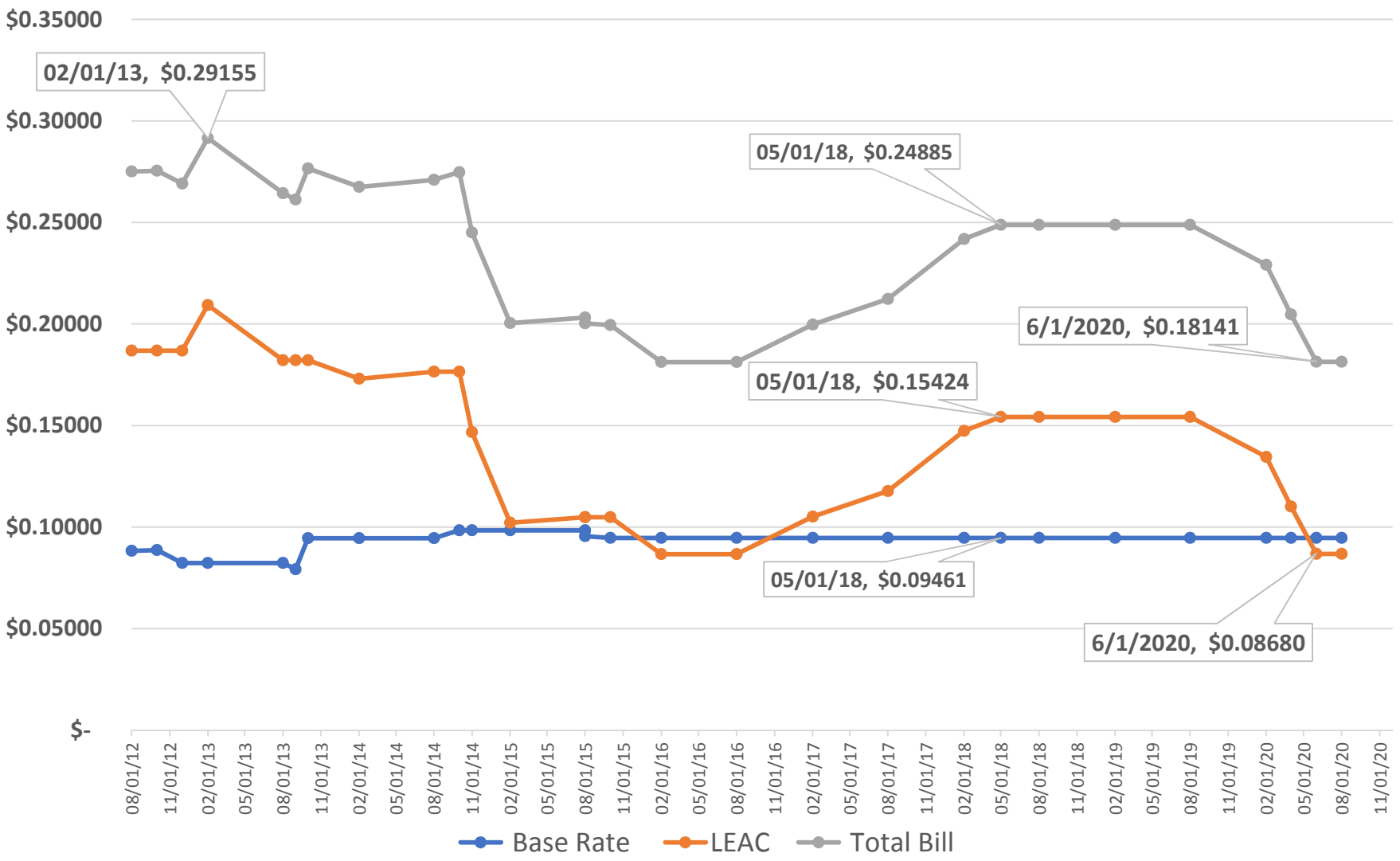




Historical Residential LEAC Rate



Historical Residential Rate



Historical LEAC Over (Under) Recovery

LEAC Period		Approved LEAC	Actual Over	
From	To	Rate	(Under) Recovery	
4/1/2012	7/31/2012	$ 0.192310	$ (3,040,418)	
8/1/2012	1/31/2013	$ 0.186834	$ (2,494,052)	
2/1/2013	7/31/2013	$ 0.209271	$ 1,345,259	
8/1/2013	10/31/2013	$ 0.182054	$ 1,300,093	
2/1/2014	7/31/2014	$ 0.172986	$ (1,137,034)	
8/1/2014	10/31/2014	$ 0.176441	$ (4,646,872)	
11/1/2014	1/31/2015	$ 0.146666	$ 661,428	
2/1/2015	7/31/2015	$ 0.102054	$ 1,757,878	
8/1/2015	1/31/2016	$ 0.104871	$ (2,467,151)	
2/1/2016	7/31/2016	$ 0.086613	$ (2,668,603)	
8/1/2016	1/31/2017	$ 0.086613	$ (9,915,360)	
			$ (5,315,360)	(a)
2/1/2017	7/31/2017	$ 0.105051	$ (14,050,504)	
8/1/2017	01/31/1018	$ 0.117718	$ (16,775,982)	
2/1/2018	4/30/2018	$ 0.147266	$ (13,005,689)	
5/1/2018	7/31/2018	$ 0.154242	$ (8,422,674)	
8/1/2018	1/31/2019	$ 0.154242	$ (13,336,698)	
2/1/2019	7/31/2019	$ 0.154242	$ (10,225,349)	
8/1/2019	1/31/2020	$ 0.154242	$ (2,193,618)	
2/1/2020	3/31/2020	$ 0.134474	$ (1,803,778)	
4/1/2020	5/31/2020	$ 0.110039	$ (2,981,023)	
6/1/2020	7/31/2020	$ 0.086800	$ (3,563,177)	
8/1/2020	1/31/2021	$ 0.086800	$ (14,000,379)	Estimated

Notes:
(a) Under-recovery Balance after applying the $4.6 million from the Cabras 3&4 Extra Expense claim

LEAC – Rate Scenarios

	Aug. 1, 2020 to Jan. 2021	2021 Feb to July		
	Current	Scenario A - Full Recovery	Scenario B - 50%	Scenario C - 0%
Rate	$ 0.086800	$ 0.136507	$ 0.111653	$ 0.086800
(in '000)				
Under Recovery on Jan. 31, 2021	$ 14,000			
Under Recovery on July 31, 2021		$ -	$ 15,139	$ 30,228
Average Price Per BBL - RFO	$ 44.07	$ 53.30	$ 53.30	$ 53.30
Average Price Per BBL - Diesel	$ 60.38	$ 54.62	$ 54.62	$ 54.62

LEAC – Sample Bill

	RATE SCHEDULE R					
	Current LEAC		Scenario A Full Recovery		Scenario B 50% Recovery	
	Effective 06-01-20		Effective 02-01-21		Effective 02-01-21	
KWH		**1,000**		**1,000**		**1,000**
Monthly Charge	$ 15.00	$ 15.00	$ 15.00	$ 15.00	$ 15.00	$ 15.00
Non-Fuel Energy Charge						
First 500 KWH	0.069550	34.78	0.069550	34.78	0.069550	34.78
Over 500 KWH	0.086870	43.44	0.086870	43.44	0.086870	43.44
Emergency Water-well charge	0.002790	1.40	0.002790	1.40	0.002790	1.40
Total Electric Charge before Fuel Recovery Charges		94.61		94.61		94.61
Fuel Recovery Charge	**0.086800**	86.80	**0.136507**	136.51	**0.111653**	111.65
Total Electric Charge		$ 181.41		$ 231.11		$ 206.26
Increase/(Decrease) in Total Bill				**$ 49.71**		**$ 24.85**
% Increase/(Decrease) in Total Bill				**27.40%**		**13.70%**
% Increase/(Decrease) in LEAC Rate				**57.27%**		**28.63%**

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

RESOLUTION NO. 03–FY2021

RELATIVE TO CONTRACT APPROVAL FOR THE ASAN-ADELUP-HAGATNA, ROUTE 1 SEWER REHABILITATION AND REPLACEMENT PHASE II PROJECT S15-002-EPA

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

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

WHEREAS, GWA has received a grant from USEPA under the State Revolving Fund program to improve the sewer collection system, which included gravity sewer line along Route 1, from the Asan "War in the Pacific" National Historical Park to the Agaña Main Pump Station; and

WHEREAS, the stretch of gravity sewer line indicated is deteriorating, which included approximately 1,700 linear feet of gravity sewer line along Route 1 in Adelup, and over 6,900 linear feet in Hagatna, and the intent of this project is to rehabilitate, repair or replace the identified piping from Adelup to Hagatna; and

WHEREAS, GWA and USEPA agree that efforts to rehabilitate, repair or replace these sewer lines are necessary to properly maintain and operate the sewer collection system, and the first effort needed to do so was through the general civil engineering, geotechnical engineering, and archeological investigation for wastewater collection system evaluation, analysis and design; and

WHEREAS, in June 2015 GWA Management began the procurement process to find a consulting engineering team to design the sewer rehabilitation and replacement, and via Resolution No. 02-FY2016, approved by the CCU in October 2015, GWA Management was authorized to enter into a contract with HDR Engineering, Inc. (HDR) to design the sewer rehabilitation and replacement; and

WHEREAS, in December of 2015 GWA Management entered into a contract with HDR to design the sewer rehabilitation and replacement, and in April of 2017 the final design for Phase I was completed; and

WHEREAS, due to funding limitations, the full scope of work for construction of the Rt. 1 Sewer Rehabilitation and Replacement Project was divided into phases such that Phase 1 construction was awarded to InfraTech International LLC, from Asan to the Asan Pump Station, through Invitation for Re-Bid No. IFB-11-ENG-2017 (GWA Project No. S15-002-EPA) and a contract was issued to InfraTech International LLC on November 8, 2018; and

WHEREAS, on March 24, 2020, GWA awarded Change Order No. 7 to increase the funding for the HDR design contract to an amount of One Million Nine Hundred Ninety-Four Thousand Five Hundred Fifty-Five Dollars ($1,994,555.00) to prepare construction bid documents for the Asan-Adelup-Hagatna, Route 1 Sewer Rehabilitation and Replacement Phase II; and

WHEREAS, on June 16, 2020, GWA advertised the Invitation to Bid (IFB-06-ENG-2020) for the Asan-Adelup-Hagatna, Route 1 Sewer Rehabilitation and Replacement Phase II soliciting bid proposals from experienced and responsive bidders to repair and/or replace segments of gravity sewer lines and manholes from Adelup to Hagatna; and

WHEREAS, IFB packages were obtained by eleven (11) interested parties, from which GWA received bid proposals from four (4) parties (SEE EXHIBIT A – Abstract of Bids) before the bid proposal deadline; and

WHEREAS, GWA Engineering, the Project Manager and the Engineer evaluated the proposals received on September 3, 2020 and determined that the lowest apparent bidder for the

Base Bid and all Additive Bids failed to meet the bid requirements established in the IFB packages; and,

WHEREAS, GWA rejected the lowest apparent bidder pursuant to 2 GAR §3115(e)(3) and 2 GAR §3116(b)(5) due to inadequate qualifications needed to perform this work on September 10, 2020 (SEE EXHIBIT B – ProPacific Builder Corporation Rejection Letter); and

WHEREAS, GWA Engineering, the Project Manager and the Engineer determined that HDCC Guam, LLC was the second lowest bidder and that their bid was responsive and responsible and met all the bid requirements set forth by GWA (See EXHIBIT C – Recommendation Letter from HDR dated October 19, 2020); and

WHEREAS, GWA Engineering, the Project Manager and the Engineer reviewed the HDCC Guam, LLC Additive Bids and determined that the Base Bid and all Additive Bids 1 through 6 provided the best combination of bid options and is within the available grant funding; and

WHEREAS, GWA Management finds HDCC Guam, LLC's bid proposal for The Base Bid and Additive Bids 1 through 6 acceptable; and

WHEREAS, GWA Management seeks CCU approval of HDCC Guam, LLC's bid proposal for the Base Bid and Additive bids 1 through 6 in the amount of Eight Million Seven Hundred Forty-Two Thousand Four Hundred Eight Dollars and Sixty-Two Cents ($8,742,408.62), plus a ten percent (10%) contingency of Eight Hundred Seventy-Four Thousand Two Hundred Forty Dollars and Eighty-Six Cents ($847,240.86), to bring the total authorized funding amount to Nine Million Six Hundred Sixteen Thousand Six Hundred Forty-Nine Dollars and Forty-Eight Cents ($9,616,649.48); and

WHEREAS, funding for this project will be from the USEPA State Revolving Funds and, if necessary, GWA Bond funds with an estimated project budget of Eight Million Seven Hundred Forty-Two Thousand Four Hundred Eight Dollars and Sixty-Two Cents ($8,742,408.62); 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 bid proposal submitted by HDCC Guam, LLC are fair and reasonable.
3. The CCU hereby authorizes the management of GWA to accept the bid proposal from HDCC Guam, LLC for the Base Bid and all Additive Bids 1 through 6.
4. The CCU hereby further authorizes the management of GWA to enter into a contract with HDCC Guam, LLC in the amount of Eight Million Seven Hundred Forty-Two Thousand Four Hundred Eight Dollars and Sixty-Two Cents ($8,742,408.62).
5. The CCU hereby further approves the funding total of Eight Million Seven Hundred Forty-Two Thousand Four Hundred Eight Dollars and Sixty-Two Cents ($8,742,408.62), plus a ten percent (10%) contingency of Eight Hundred Seventy-Four Thousand Two Hundred Forty Dollars and Eighty-Six Cents ($847,240.86), to bring the total authorized funding amount to Nine Million Six Hundred Sixteen Thousand Six Hundred Forty-Nine Dollars and Forty-Eight Cents ($9,616,649.48).
6. The CCU hereby approves the use of USEPA State Revolving Funds and, if necessary, GWA Bond funds as the funding source.
7. The CCU further approves management to duly notify the PUC that this contract will exceed One Million Dollars ($1,000,000.00), and is funded primarily by USEPA State Revolving Funds and, if necessary, GWA Bond Funds.

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

DULY AND REGULARLY ADOPTED, this 24th day of November, 2020.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

MICHAEL T. LIMTIACO
Secretary

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:

AYES: 5

NAYS: ϕ

ABSENT: ϕ

ABSTAIN: ϕ

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EXHIBIT A

GUAM WATERWORKS AUTHORITY

Project Name: **ASAN-ADELUP-HAGATNA, ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT -PHASE II**
Project Number: S15-002-EPA IFB NO.: IFB-06-ENG-2020

Virtual Bid Opening Date: September 3, 2020
Time: 3:00 PM

ABSTRACT OF BIDS

	BIDDERS NAME	Section A-5 Bid Bond	CERTIFICATIONS								ADDENDUM					BID AMOUNT							
			Bidder Qualification Statement	Non-Collusion Affidavit	Equal Employment Opportunity	Non-Segregated Facilities	Non-Employment of Sexual Offender	Wage & Benefit Determination	Major Shareholders Affidavit	Special Instruction to Bidders	1	2	3	4	5	BASE BID	ADDITIVE BID NO. 1	ADDITIVE BID NO. 2	ADDITIVE BID NO. 3	ADDITIVE BID NO. 4	ADDITIVE BID NO. 5	ADDITIVE BID NO. 6	GRAND TOTAL (Base Bid + Additive Bid 1 -6)
1.	INFRATECH INTERNATIONAL LLC	Safe Co. Insurance Co. of Am. 15% OF accomaning Bid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	$6,534,440.24	$1,568,718.60	$1,562,730.85	$1,537,379.86	$991,277.70	$855,580.20	$678,130.63	$13,764,258.08
2.	PROPACIFIC BUILDER CORP.	Aioi Nissay Dowa Ins. C. Ltd. 15% OF total Bid Amount	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	$4,699,227.00	$1,087,082.00	$935,832.00	$945,244.00	$396,910.00	$540,410.00	$278,924.00	$8,884,440.00
3.	HDCC GUAM LLC	Zurich American Ins. Co. 15% OF BID AMOUNT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	$5,287,826.00	$763,430.00	$693,530.00	$589,809.00	$397,961.00	$511,391.00	$498,481.00	$8,742,408.00
4.	INSITUFORM TECHNOLOGIES LLC	NO BID																					
5.	SUMITOMO MITSUI CONSTRUCTION	NO BID																					
6.	MOCON CORPORATION	Cashiers Check 15% of BID	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	$5,920,072.50	$590,666.75	$542,162.00	$668,119.00	$324,295.00	$677,000.00	$251,230.00	$8,973,545.25
7.	MICHAELS CORPORATION	NO BID																					
8.	IAN CORPORATION	NO BID																					
9.	GIANT CONSTRUCTION CORPORATION	NO BID																					
10.	PACIFIC RIM CONSTRUCTION INC.	NO BID																					
11.	GAB / HES	NO BID																					
	GWA Engineer's Estimate															$ 4,301,383.00	$ 978,894.00	$ 910,497.00	$ 889,817.00	$ 368,464.00	$ 505,605.00	$ 384,601.00	$ 8,339,261.00

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

Tabulated By:
LEILANI LUNCHANGCO
(Name and Signature)

GWA Procurement Representative:
ROLAND LUMONGSUD
(Name and Signature)

Witnesses:
Diran, John A.

EXHIBIT B

GUAM WATERWORKS AUTHORITY
Gloria B. Nelson Public Service Building | 688 Route 15, Mangilao, Guam 96913
P.O. Box 3010, Hagatna, Guam 96932
Tel. No. (671) 300-6846

September 28, 2020

Jean Yeon Yu, President
ProPacific Builder Corporation
750 Route 8
Suite 202, Hanam Plaza
Barrigada, GU 96913

Project: IFB-06-ENG-2020
Asan-Adelup-Hagatna, Route 1 Sewer Rehabilitation and Replacement – Phase II
GWA Project No. S13-002-EPA – Bid Rejection

Hafa Adai Ms. Yu,

Thank you for submitting your bid of the subject project on September 3, 2020 and for the additional information provided to GWA in ProPacific Builder Corporation's (PPBC) letters to GWA dated September 17, 2020 and September 21, 2020. GWA regrets to inform you that we must reject PPBC's bid pursuant to 2 GAR §3115(e)(3) and 2 GAR §3116(b)(5). Based on the information provided in the bid and supplemental letters, PPBC and your proposed subcontractors do not have the cured in-place pipe (CIPP) lining experience required by the bid documents. For this reason, we consider PPBC a non-responsive and un-qualified bidder. Therefore, we are hereby returning your bid security (i.e., Bid Bond).

As stated in the Project Specifications that were included in the bid package, specifically Section 00200, Instructions to Bidders, Article 12.03 and Article 19.03, the contractor was required to submit to GWA for evidence of the Contractors experience qualifications for the specialty CIPP work in accordance with Section 30 01 30.72 or 33 01 30.73, Section 1.5, Items A and B. Based upon the information provided in the two referenced letters from PPBC to GWA, GWA has determined that the qualifications criteria established in the bid documents have not been met by PPBC and your proposed subcontractor for the following:

1. Specification 33 01 30.72 or 33 01 30.73, Section 1.5, Item B, successful installation of a cumulative total of 100,000 linear feet and/or 300 line segments of CIPP liner into sewer main host pipes of 18-inch or larger diameter.

GWA appreciates your interest and encourages your company to continue to participate in future GWA procurements.

Should you have any questions, please do not hesitate to contact our legal counsel Kelly Clark at 300-6853.

Sincerely,



MIGUEL C. BORDALLO, P.E.
General Manger

Cc: Kelly Clark, GWA Legal Counsel
Barbara Cruz, P.E., GWA Chief Engineer, Acting
Kurt Bilz, Brown and Caldwell

EXHIBIT C

October 19, 2020

Mrs. Barbara Cruz, P.E.
Acting Chief Engineer
The Guam Waterworks Authority
Engineering Division
Gloria B. Nelson Public Service Building
688 Rt. 15
Mangilao, Guam 96913

SUBJECT: Asan-Adelup-Hagatna, Route 1 Sewer Line Rehabilitation and Replacement – Phase II, Recommendation of Bid Award, GWA Project No. S15-002-EPA

Dear Mrs. Cruz,

HDR has reviewed the four (4) bid submissions submitted for the Phase II bid for the Asan-Adelup-Hagatna Sewer Line Rehabilitation and Replacement project from the following construction contractors:

1. Core-Tech-Hawaiian Dredging, LLC
2. Infratech International, LLC
3. Mocon
4. ProPacific Builder Corporation

All bid submissions included all of the required bidding forms to be submitted as part of the bid package. All bonding requirements have been met by all contractors.

The bid schedules for all contractors were tabulated, reviewed and are included herein with this letter for your review. The following observations were made while tabulating each Contractor's bid:

Core-Tech-Hawaiian Dredging, LLC:

1. The bid form supplied by Core-Tech-Hawaii Dredging, has several mathematical calculation errors in the base bid and all additive bids. Per the Instructions to Bidders, Article 14.01, Item C, the sum total for a unit price bid item shall favor the unit prices provided. In the included bid tabulation provided with this letter, the unit prices were held and multiplied against the quantities that were provided in the bid schedule and the new totals were calculated. These values have been highlighted in yellow in the included bid tabulation for easy reference and below is a summary table of the results of the submitted bid vs. the revised calculated bid amounts:

hdrinc.com

134 W. Soledad Ave., Suite 404, Hagatna, GU 96910
T 671.989.5558 **F** 671.989.5557

Summary of Revised Calculated Bid Amounts			
Bid Type	**Submitted Bid Amount**	**Calculated Bid Amount**	**Difference**
Base Bid	$5,287,826.00	$5,287,828.67	$2.67
Additive Bid #1	$763,430.00	$763,427.66	-$2.34
Additive Bid #2	$693,530.00	$693,525.04	-$4.96
Additive Bid #3	$589,809.00	$589,818.25	$9.25
Additive Bid #4	$397,961.00	$397,956.70	-$4.30
Additive Bid #5	$511,371.00	$511,370.58	-$0.42
Additive Bid #6	$498,481.00	$498,481.72	$0.72
Grand Total of Base + All Additive Bids	$8,742,408.00	$8,742,408.62	$0.62

2. The supplied project experience that was submitted by the Contractor and more specifically their sub-contractor, Michels Corporation, was insufficient to verify the qualifications against Specification 33 01 30.72 or 33 01 30.73, Section 1.5, Items A and B. In a letter, dated October 6, 2020 from GWA, these deficiencies were stated in more detail and the request for additional information was returned by Core Tech – Hawaiian Dredging on October 13, 2020. This additional information was found to be adequate and has met all of the requested additional information. In summary, here are the finding of this additional requested information:
    a. Contractor qualifications for Michels Corporation as required by Specification 33 01 30.72 or Specification 33 01 30.73, Section 1.5, Item A. A total of 206,575 linear feet of 18 inches or greater of sewer line was submitted, however only the following projects submitted have been able to be confirmed, but still meet the minimum requirements of the specifications:

Summary of Projects Verified			
Project Name	**Total LF Listed**	**Total LF Confirmed**	**Notes**
Notice No. 128-1-2014 Sanitary Sewer Mains Lining & Repair	2,852	2.852	Confirmed, but did not provide further details
Notice No. 145-1-2015 Sanitary & Storm Sewer Main Lining	4,012	4,012	Confirmed, but did not provide further details
Lining of Sanitary Transmission Main	7,339	7,339	-
Notice 18-1-2016 Combined Sewer Main Lining	5,348	5,348	Confirmed, but did not provide further details
Cured-in-Place Pipe Rehabilitation 2016, Project No. 101-016	3,800	3,743	Nathan was the staff engineer/inspector for the project. He confirmed 3,743 LF for the project

Summary of Projects Verified Cont'd			
Project Name	**Total LF Listed**	**Total LF Confirmed**	**Notes**
Bloomington Interceptor Rehabilitation Project, #808060	6,100	9,200	Confirmed additional 2,000 LF of 27" and 1,100 LF of 42"
Notice No. 5-1-2017 Combined Sewer Main Relay & Combined Sewer Lining	3,373	3,373	Confirmed, but didn't provide details.
C2017-22 Sanitary and Storm Sewer Lining	3,170	3,700	Confirmed and additional 480 LF of 24" and 50 LF of 30"
Scanlon Interceptor Fiberglass Pipe Rehabilitation Project	4,767	4,767	Confirmed with satisfactory work.
SPIS 8566-370 and 7705 Rehabilitation, Contract No. 17P355	7,362	7,362	Confirmed
Belcher Brook Interceptor Sewer Rehabilitation (Contract 2018-11)	8,775	8,755	-
Project CIP 3001 19, Sanitary and Storm Sewer CIPP Lining	3,401	3,401	-
GWA Interceptor Sewer Refurbishment Project, Northern District, Project No. 518-003-0EA	44,356	44,356	-
Total CIPP	**104,655**	**108,228**	**-**

b. Contractor personnel qualifications for Michels Corporation, as required by Specification 33 01 30.72 or Specification 33 01 30.73, Section 1.5, Item B were found to have met the requirements. The submitted resumes for Jason Gubin, Clayton Muenchmeyer and Aljhon Aler have found to be acceptable and meet all the requirements of the specifications and should be the minimum personnel conducting the work for the subject project.

3. The base bid provided is much higher than the engineer's estimate, however the additive bid items bid amounts were found to be within reason of the engineer's estimate and in most cases were found to be lower.

Infratech International, LLC:

1. The bid form supplied by Infratech International, has several mathematical calculation errors in the base bid and all additive bids. Per the Instructions to Bidders, Article 14.01, Item C, the sum total for a unit price bid item shall favor the unit prices provided. In the included bid tabulation provided with this letter, the unit prices were held and multiplied against the quantities that were

provided in the bid schedule and the new totals were calculated. These values have been highlighted in yellow in the included bid tabulation for easy reference and below is a summary table of the results of the submitted bid vs. the revised calculated bid amounts:

Summary of Revised Calculated Bid Amounts			
Bid Type	**Submitted Bid Amount**	**Calculated Bid Amount**	**Difference**
Base Bid	$6,534,440.24	$6,534,440.41	$0.17
Additive Bid #1	$1,568,718.60	$1,568,718.60	$0.00
Additive Bid #2	$1,562,730.85	$1,565,730.85	$3,000.00
Additive Bid #3	$1,537,379.86	$1,537,379.86	$0.00
Additive Bid #4	$991,277.70	$991,277.70	$0.00
Additive Bid #5	$855,580.20	$855,580.20	$0.00
Additive Bid #6	$678,130.63	$678,130.63	$0.00
Grand Total of Base + All Additive Bids	$13,764,258.08	$13,767,258.25	$3,000.17

2. Overall, the bid prices submitted by Infratech International, LLC are higher than all other bidders for this project and all additive bids are approximately 2-3 times higher than all other bidders.
3. Because Infratech International, LLC was not the lowest bidder or next to lowest bidder, an exhaustive verification of contractor qualification or personnel experience, as related to the specification requirements, was not conducted.

Mocon:

1. The supplied bid forms contained no errors that can be found. All bid prices tabulated match the supplied bid forms. All other bid documents that were required of the bid submission were provided also.
2. The base bid provided is much higher than the engineer's estimate, however the additive bid items bid amounts were found to be within reason to the provided engineer's estimate or in most cases found to lower.
3. Because Mocon was not the lowest bidder or next to lowest bidder, an exhaustive verification of contractor qualification or personnel experience, as related to the specification requirements, was not conducted.

ProPacific Builder Corporation:

1. The supplied bid forms contained no errors that can be found. All bid prices tabulated match the supplied bid forms.
2. ProPacific Builder Corporation submitted the lowest bid, therefore additional confirmation that the contractor met the requirements of the specifications was conducted. It was determined that the bid submitted did not contain all of the information needed, therefore GWA sent a letter dated September 10, 2020 requesting for additional information. This additional information was received in a letter dated September 17, 2020 and the findings of this information was deficient in either verifying the information against the requirements of the specifications or was deficient in meeting the requirements of the specifications. A subsequent letter from GWA for additional

information, dated September 17, 2020, was provided to ProPacific for specific information and a response was provided on September 21, 2020 to this request. After reviewing the information that was submitted, summarized below are the findings of that information:

a. The September 17, 2020 response letter confirmed that Tunnel Vision Pipeline Services would be executing 100% of the CIPP work on the subject project. The documentation provided in the September 21, 2020 letter to verify Tunnel Vision Pipeline Services meets the requirements of Specification 33 01 30.72 or 33 01 30.73, Section 1.5, Item A, shows the project qualification experience was not for Tunnel Vision Pipeline Services, but was for a company named Abel Recon Alpha Liner. Although for a separate company, the total linear footage of projects listed that showed CIPP installed on sewer lines 18 inches and larger only totaled 8,076 linear feet from the listed projects. This total falls below the required 100,000 linear feet of the specification requirements. No total pipe segments were given and no further validation of these linear footages were provided.
b. Contractor personnel qualifications for ProPacific as required by Specification 33 01 30.72 or Specification 33 01 30.73, Section 1.5, Item B was found to be deficient. The personnel shown to be associated with Tunnel Vision Pipeline Services did not contain any staff that met the minimum requirements for the CIPP supervisor. In response to GWA letters, ProPacific provided a resume for a Mr. Mike Mills, which states that he is the Operations Manager for IPR Great Lakes and not employed with Tunnel Vision Pipeline Services and the resume did not list any projects that show that Mr. Mills meets the minimum requirements of the specifications. In review of all of the documentation provided by ProPacific and Mr. Mills resume, the only connection that could be made is that Mr. Mills shows that he worked for Abel Recon Alpha Liner and the project listings for this company showed Mr. Mills as the foreman, therefore the only reasonable conclusion that could be made is that Mr. Mills only has 8,076 linear feet of CIPP experience on sewer lines 18 inches or larger, as was stated in item a., above. Therefore, ProPacific's submission appears to not meet the minimum personnel qualifications for the CIPP supervisor.

Listed below is a summary table of the various bid options and their respective totals for all bidders:

Summary of Revised Calculated Bid Amounts				
Bid Type	**Core Tech-Hawaiian Dredging, LLC**	**Infratech International, LLC**	**Mocon**	**ProPacific Builder Corporation**
Base Bid	$5,287,828.67	$6,534,424.10	$5,920,072.50	$4,669.227.00
Additive Bid #1	$763,427.66	$1,558,718.60	$590,666.75	$1,087,893.00
Additive Bid #2	$693,525.04	$1,565,730.85	$542,162.00	$935,832.00
Additive Bid #3	$589,818.25	$1,537,379.86	$668,119.00	$945,244.00
Additive Bid #4	$397,956.70	$991,277.70	$324,295.00	$396,910.00
Additive Bid #5	$511,370.58	$855,580.20	$677,000.00	$540,410.00
Additive Bid #6	$498,481.72	$678,130.63	$251,230.00	$278,924.00
Grand Total of Base + All Additive Bids	$8,742,408.62	$13,767,241.94	$8,973,545.25	$8,884,440.00

The basis of award for this project was the base bid, which resulted in the lowest bidder to be ProPacific Builder Corporation. However after further evaluation of the Contractor qualification and as was submitted in a letter by GWA dated September 28, 2020, ProPacific was found to be non-responsive for not meeting the minimum requirements of the project specifications.

After review of the next lowest bidder, Core Tech-Hawaiian Dredging, their bid documents and Contractor qualifications have been found to have met the requirements of the project bid solicitation and specification requirements. Therefore, it is recommended that GWA award the project award to Core Tech-Hawaiian Dredging as the lowest, most responsive bidder for this bid solicitation. Because the additive bid amounts were found to be within reason of the engineer's estimate, it is recommended GWA proceed with as many additive bids, in addition to the base bid, that the project's budget can support.

If you should have further questions, please feel free to call me at 671-686-6425 or email at Nicholas.manley@hdrinc.com.

Sincerely,

HDR Engineering, Inc.



Nick Manley
Project Manager

Enclosure: Route 1 Sewer Rehab – Phase II – Bid Tabulation

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Base Bid Description of Work:
Line B Work (SMH 13Asan to SMH 350AHaga and SMH 350BHaga to SMH339Haga)
Work consists of cleaning and rehabilitating existing 16-inch, 24-inch and 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, reinstating sewer laterals after CIPP rehabilitation is complete, replacing sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization	Lump Sum	$ 496,577.00	1	$ 496,577.00	$ 853,284.47	1	$ 853,284.47	$ 1,431,105.00	1	$ 1,431,105.00	$ 550,032.87	1	$ 550,032.87	$ 982,000.00	1	$ 982,000.00	$ 450,000.00	1	$ 450,000.00
2	Light Sewer Line Cleaning of existing 16-inch Asbestos Cement Pipe (ACP) and 16-inch Polyvinyl Chloride (PVC) pipe sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 25.00	2,648	$ 66,200.00	21.08	2,648	55,826.46	15.34	2,648	40,620.32	31.99	2,648	84,709.52	22.00	2,648	58,256.00	15.00	2,648	39,720.00
3	Light Sewer Line Cleaning of existing 24-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 44.00	3,628	$ 159,632.00	25.52	3,628	92,568.42	19.29	3,628	69,984.12	32.77	3,628	118,889.56	35.00	3,628	126,980.00	15.00	3,628	54,420.00
4	Light Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 45.00	3,706	$ 166,770.00	32.46	3,706	120,278.23	22.53	3,706	83,496.18	37.29	3,706	138,196.74	55.00	3,706	203,830.00	15.00	3,706	55,590.00
5	Heavy Sewer Line Cleaning of existing 16-inch Asbestos Cement Pipe (ACP) and 16-inch Polyvinyl Chloride (PVC) pipe sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 80.00	559	$ 44,720.00	38.39	559	21,461.41	32.19	559	17,994.21	64.38	559	35,988.42	42.00	559	23,478.00	15.00	559	8,385.00
6	Heavy Sewer Line Cleaning of existing 24-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 100.00	127	$ 12,700.00	60.74	127	7,713.35	64.17	127	8,149.59	68.77	127	8,733.79	95.00	127	12,065.00	15.00	127	1,905.00
7	Heavy Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 110.00	249	$ 27,390.00	77.12	249	19,202.88	68.19	249	16,979.31	75.29	249	18,747.21	150.00	249	37,350.00	15.00	249	3,735.00
8	Specialty Cleaning of all pipe size sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Hour	$ 600.00	40	$ 24,000.00	742.86	40	29,714.50	1,296.38	40	51,855.20	275.07	40	11,002.80	1,000.00	40	40,000.00	400.00	40	16,000.00
9	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 16" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 12.00	646	$ 7,752.00	12.41	646	8,015.25	13.39	646	8,649.94	28.74	646	18,566.04	2.50	646	1,615.00	5.00	646	3,230.00
10	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 24" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	1,814	$ 25,396.00	13.38	1,814	24,275.86	16.91	1,814	30,674.74	29.12	1,814	52,823.68	2.50	1,814	4,535.00	5.00	1,814	9,070.00
11	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	1,853	$ 25,942.00	15.74	1,853	29,156.96	20.43	1,853	37,856.79	33.51	1,853	62,094.03	4.00	1,853	7,412.00	5.00	1,853	9,265.00
12	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 16" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 12.00	1,292	$ 15,504.00	9.68	1,292	12,503.33	2.47	1,292	3,191.24	28.74	1,292	37,132.08	2.50	1,292	3,230.00	5.00	1,292	6,460.00
13	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 24" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	3,628	$ 50,792.00	9.86	3,628	35,772.08	2.82	3,628	10,230.96	29.12	3,628	105,647.36	2.50	3,628	9,070.00	5.00	3,628	18,140.00
14	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	3,706	$ 51,884.00	11.51	3,706	42,646.80	3.52	3,706	13,045.12	33.51	3,706	124,188.06	4.00	3,706	14,824.00	5.00	3,706	18,530.00
15	Installation of cured-in-place pipe (CIPP) lining in existing 16-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 317.00	646	$ 204,782.00	347.91	646	224,749.86	209.83	646	135,550.18	498.06	646	321,746.76	283.75	646	183,302.50	400.00	646	258,400.00
16	Installation of cured-in-place pipe (CIPP) lining in existing 24-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 367.00	1,814	$ 665,738.00	499.94	1,814	906,895.70	221.72	1,814	402,200.08	846.05	1,814	1,534,734.70	400.00	1,814	725,600.00	532.00	1,814	965,048.00
17	Installation of cured-in-place pipe (CIPP) lining in existing 27-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 405.00	1,853	$ 750,465.00	588.13	1,853	1,089,804.89	229.87	1,853	425,949.11	854.65	1,853	1,583,666.45	675.00	1,853	1,250,775.00	593.00	1,853	1,098,829.00
18	Reinstatement of existing sewer laterals upon completion of CIPP lining installation, and all incidentals, in place complete.	Ea.	$ 2,400.00	16	$ 38,400.00	9,948.93	16	159,182.88	8,648.13	16	138,370.08	2,647.59	16	42,361.44	8,500.00	16	136,000.00	20,000.00	16	320,000.00

GUAM WATERWORKS AUTHORITY

Item No.	Description	Unit	Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
			Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
19	Installation of cured-in-place lateral liner for sewer laterals from 4-6 inches in diameter. (Includes 4 Ea. to be installed on sewer laterals associated with the Route 4 Relief Sewer Line Rehabilitation and Replacement at approximately Sta. 2+20, 4+04, 5+99, and 7+06)	Ea.	$ 18,000.00	4	$ 72,000.00	20,293.18	4	81,172.73	25,726.25	4	102,905.00	17,946.48	4	71,785.92	12,500.00	4	50,000.00	25,000.00	4	100,000.00
20	Chemical Grouting on sewer lines for each installation up to 1 gallon, including all cleaning, CCTV, sewer bypass, and all other items as necessary to complete the work.	Ea.	$ 15,000.00	2	$ 30,000.00	6,917.84	2	13,835.67	5,003.50	2	10,007.00	5,717.84	2	11,435.68	15,450.00	2	30,900.00	1,500.00	2	3,000.00
21	Chemical Grouting on sewer lines for all installations over 1 gallon, including all cleaning, CCTV, sewer bypass, and all other items as necessary to complete the work.	Ea.	$ 500.00	100	$ 50,000.00	489.11	100	48,911.00	29.59	100	2,959.00	186.85	100	18,685.00	240.00	100	24,000.00	1,500.00	100	150,000.00
22	Chemical Grouting on laterals for each installation up to 1 gallon, including all cleaning, CCTV, sewer bypass, and all other items as necessary to complete the work.	Ea.	$ 15,000.00	3	$ 45,000.00	8,619.42	3	25,858.25	6,107.00	3	18,321.00	11,420.66	3	34,261.98	15,450.00	3	46,350.00	1,500.00	3	4,500.00
23	Chemical Grouting on laterals for all installations over 1 gallon, including all cleaning, CCTV, sewer bypass, and all other items as necessary to complete the work.	Ea.	$ 500.00	150	$ 75,000.00	504.54	150	75,681.38	29.59	150	4,438.50	188.58	150	28,287.00	300.00	150	45,000.00	1,500.00	150	225,000.00
24	Sewer manhole concrete collar, including reinforcing steel, borrow material, where required, and all other items as necessary to complete the work.	Ea.	$ 1,500.00	3	$ 4,500.00	4,972.41	3	14,917.23	3,729.00	3	11,187.00	7,660.64	3	22,981.92	3,500.00	3	10,500.00	5,000.00	3	15,000.00
25	Sewer Flow Control for Sewer Rehabilitation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 690,000.00	1	$ 690,000.00	784,948.99	1	784,948.99	1,004,646.00	1	1,004,646.00	810,149.96	1	810,149.96	975,000.00	1	975,000.00	350,000.00	1	350,000.00
26	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 290,000.00	1	$ 290,000.00	167,585.94	1	167,585.94	170,821.00	1	170,821.00	294,522.77	1	294,522.77	130,000.00	1	130,000.00	75,000.00	1	75,000.00
27	Point Repair for 16-inch diameter PVC sewer pipe, including pavement demolition, shoring, or bracing, underpinning, positive groundwater control, protection and support of structures and utilities, removal of trench support, select fill, flowable fill, traffic covers, and all incidentals required to complete the work. (4 LF pipe section or less, per line segment)	Ea.	$ 5,837.00	2	$ 11,674.00	29,041.42	2	58,082.85	35,699.00	2	71,398.00	14,966.69	2	29,933.38	45,500.00	2	91,000.00	20,000.00	2	40,000.00
28	Extra Length Point Repair for 16-inch diameter PVC sewer pipe, all depths; in excess of 4 LF (Typ.)	Lin. Ft.	$ 1,523.00	40	$ 60,920.00	4,427.88	40	177,115.00	8,128.55	40	325,142.00	3,082.95	40	123,318.00	4,500.00	40	180,000.00	2,000.00	40	80,000.00
29	Point Repair for 24-inch diameter PVC sewer pipe, including pavement demolition, shoring, or bracing, underpinning, positive groundwater control, protection and support of structures and utilities, removal of trench support, select fill, flowable fill, traffic covers, and all incidentals required to complete the work. (4 LF pipe section or less, per line segment)	Ea.	$ 6,344.00	1	$ 6,344.00	41,130.90	1	41,130.90	43,150.00	1	43,150.00	15,873.60	1	15,873.60	55,500.00	1	55,500.00	50,000.00	1	50,000.00
30	Extra Length Point Repair for 24-inch diameter PVC sewer pipe, all depths; in excess of 4 LF (Typ.)	Lin. Ft.	$ 1,523.00	20	$ 30,460.00	5,338.90	20	106,777.90	10,015.20	20	200,304.00	3,840.38	20	76,807.60	5,500.00	20	110,000.00	2,000.00	20	40,000.00
31	Point Repair for 27-inch diameter PVC sewer pipe, including pavement demolition, shoring, or bracing, underpinning, positive groundwater control, protection and support of structures and utilities, removal of trench support, select fill, flowable fill, traffic covers, and all incidentals required to complete the work. (4 LF pipe section or less, per line segment)	Ea.	$ 6,921.00	1	$ 6,921.00	44,212.44	1	44,212.44	45,366.00	1	45,366.00	15,983.74	1	15,983.74	65,500.00	1	65,500.00	50,000.00	1	50,000.00
32	Extra Length Point Repair for 27-inch diameter PVC sewer pipe, all depths; in excess of 4 LF (Typ.)	Lin. Ft.	$ 1,650.00	20	$ 33,000.00	5,842.81	20	116,856.15	10,570.10	20	211,402.00	4,301.13	20	86,022.60	6,500.00	20	130,000.00	2,000.00	20	40,000.00
33	Sewer Flow Control for Point Repairs of 16-inch, 18-inch, 24-inch, and 27-inch for every 4 LF of point repair, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Ea.	$ 12,690.00	4	$ 50,760.00	22,997.11	4	91,988.43	31,823.50	4	127,294.00	5,164.93	4	20,659.72	25,000.00	4	100,000.00	30,000.00	4	120,000.00

GUAM WATERWORKS AUTHORITY

Item No.	Description	Unit	Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
			Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
34	Traffic Control Work for each Point Repair, including traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Ea.	$ 2,540.00	4	$ 10,160.00	7,064.98	4	28,259.93	3,146.50	4	12,586.00	6,113.43	4	24,453.72	14,000.00	4	56,000.00	5,000.00	4	20,000.00
	BASE BID (TOTAL Items 1 through 34, inclusive)				$ 4,301,383.00			$ 5,610,388.07			$ 5,287,828.67			$ 6,534,424.10			$ 5,920,072.50			$ 4,699,227.00
											Submitted Bid Price			*Submitted Bid Price*			*Submitted Bid Price*			*Submitted Bid Price*
	BASE BID (BASIS OF AWARD) =				$ 4,301,383.00			$ 5,610,388.07			$ 5,287,828.67	*5,287,826.00*		$ 6,534,424.10	*6,534,440.24*		$ 5,920,072.50	*5,920,072.50*		$ 4,699,227.00	*4,699,227.00*
	ADDITIVE BID #1 =				$ 978,894.00			$ 978,894.00			$ 763,427.66	*763,430.00*		$ 1,568,718.60	*1,568,718.60*		$ 590,666.75	*590,666.75*		$ 1,087,893.00	*1,087,893.00*
	ADDITIVE BID #2 =				$ 910,497.00			$ 910,497.00			$ 693,525.04	*693,530.00*		$ 1,565,730.85	*1,562,730.85*		$ 542,162.00	*542,162.00*		$ 935,832.00	*935,832.00*
	ADDITIVE BID #3 =				$ 889,817.00			$ 889,817.00			$ 589,818.25	*589,809.00*		$ 1,573,379.86	*1,537,379.86*		$ 668,119.00	*668,119.00*		$ 945,244.00	*945,244.00*
	ADDITIVE BID #4 =				$ 368,464.00			$ 368,464.00			$ 397,956.70	*397,961.00*		$ 991,277.70	*991,277.70*		$ 324,295.00	*324,295.00*		$ 396,910.00	*396,910.00*
	ADDITIVE BID #5 =				$ 505,605.00			$ 505,605.00			$ 511,370.58	*511,371.00*		$ 855,580.20	*855,580.20*		$ 677,000.00	*677,000.00*		$ 540,410.00	*540,410.00*
	ADDITIVE BID #6 =				$ 384,601.00			$ 384,601.00			$ 498,481.72	*498,481.00*		$ 678,130.63	*678,130.63*		$ 251,230.00	*251,230.00*		$ 278,924.00	*278,924.00*
	GRAND TOTAL BASE BID + ADDITIVE BID #1 TO ADDITIVE BID #6				$ 8,339,261.00			$ 9,648,266.07			$ 8,742,408.62	*8,742,408.00*		$ 13,767,241.94	*13,764,258.08*		$ 8,973,545.25	*8,973,545.25*		$ 8,884,440.00	*8,884,440.00*

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #1 Description of Work:
Line B Work (SMH 339Haga to SMH 335Haga)
Work consists of cleaning and rehabilitating existing 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, reinstating sewer laterals after CIPP rehabilitation is complete, replacing sewer manhole frame and covers, sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 72,511.00	1	$ 72,511.00	$ 78,286.09	1	$ 78,286.09	$ 118,079.00	1	$ 118,079.00	$ 60,065.34	1	$ 60,065.34	$ 35,000.00	1	$ 35,000.00	$ 100,000.00	1	$ 100,000.00
2	Light Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 45.00	2,118	$ 95,310.00	$ 33.22	2,118	$ 70,365.26	$ 22.60	2,118	$ 47,866.80	$ 37.29	2,118	$ 78,980.22	$ 55.00	2,118	$ 116,490.00	$ 18.00	2,118	$ 38,124.00
3	Specialty Cleaning of all pipe size sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Hour	$ 600.00	40	$ 24,000.00	$ 647.76	40	$ 25,910.20	$ 1,297.95	40	$ 51,918.00	$ 275.07	40	$ 11,002.80	$ 1,000.00	40	$ 40,000.00	$ 18.00	40	$ 720.00
4	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	1,059	$ 14,826.00	$ 15.82	1,059	$ 16,748.09	$ 19.75	1,059	$ 20,915.25	$ 33.51	1,059	$ 35,487.09	$ 4.00	1,059	$ 4,236.00	$ 6.00	1,059	$ 6,354.00
5	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	2,118	$ 29,652.00	$ 11.67	2,118	$ 24,717.06	$ 3.17	2,118	$ 6,714.06	$ 33.51	2,118	$ 70,974.18	$ 4.00	2,118	$ 8,472.00	$ 6.00	2,118	$ 12,708.00
6	Installation of cured-in-place pipe (CIPP) lining in existing 27-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 405.00	1,059	$ 428,895.00	$ 460.34	1,059	$ 487,497.41	$ 237.45	1,059	$ 251,459.55	$ 854.65	1,059	$ 905,074.35	$ 156.25	1,059	$ 165,468.75	$ 593.00	1,059	$ 627,987.00
7	Reinstatement of existing sewer laterals upon completion of CIPP lining installation, and all incidentals, in place complete.	Ea.	$ 2,400.00	8	$ 19,200.00	$ 9,882.59	8	$ 79,060.68	$ 8,382.75	8	$ 67,062.00	$ 2,647.59	8	$ 21,180.72	$ 8,500.00	8	$ 68,000.00	$ 20,000.00	8	$ 160,000.00
8	Cast iron manhole frame and cover, 25-inch diameter, including grade adjustment rings where required, and other items as necessary to complete the work.	Ea.	$ 3,000.00	1	$ 3,000.00	$ 4,228.35	1	$ 4,228.35	$ 1,616.00	1	$ 1,616.00	$ 4,797.38	1	$ 4,797.38	$ 4,500.00	1	$ 4,500.00	$ 6,000.00	1	$ 6,000.00
9	Sewer manhole concrete collar, including reinforcing steel, borrow material, where required, and all other items as necessary to complete the work.	Ea.	$ 1,500.00	1	$ 1,500.00	$ 4,819.41	1	$ 4,819.41	$ 2,117.00	1	$ 2,117.00	$ 7,660.64	1	$ 7,660.64	$ 3,500.00	1	$ 3,500.00	$ 6,000.00	1	$ 6,000.00
10	Sewer Flow Control for Sewer Rehabilitation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 210,000.00	1	$ 210,000.00	$ 168,763.66	1	$ 168,763.66	$ 179,932.00	1	$ 179,932.00	$ 290,122.65	1	$ 290,122.65	$ 125,000.00	1	$ 125,000.00	$ 80,000.00	1	$ 80,000.00
11	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 80,000.00	1	$ 80,000.00	$ 42,280.31	1	$ 42,280.31	$ 15,748.00	1	$ 15,748.00	$ 83,373.23	1	$ 83,373.23	$ 20,000.00	1	$ 20,000.00	$ 50,000.00	1	$ 50,000.00
	ADDITIVE BID #1 (TOTAL Items 1 through 11, inclusive)		**$ 978,894.00**					**$ 1,002,676.50**			**$ 763,427.66**			**$ 1,568,718.60**			**$ 590,666.75**			**$ 1,087,893.00**

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #2 Description of Work:
Line B Work (SMH 335Haga to SMH 327Haga)
Work consists of cleaning and rehabilitating existing 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, replacing sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 67,445.00	1	$ 67,445.00	$ 64,800.74	1	$ 64,800.74	$ 74,756.00	1	$ 74,756.00	$ 59,446.97	1	$ 59,446.97	$ 35,000.00	1	$ 35,000.00	$ 90,000.00	1	$ 90,000.00
2	Light Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 45.00	2,192	$ 98,640.00	33.16	2,192	$ 72,686.72	22.35	2,192	$ 48,991.20	37.29	2,192	$ 81,739.68	55.00	2,192	$ 120,560.00	18.00	2,192	$ 39,456.00
3	Specialty Cleaning of all pipe size sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Hour	$ 600.00	40	$ 24,000.00	632.64	40	$ 25,305.70	1,237.50	40	$ 49,500.00	275.07	40	$ 11,002.80	1,000.00	40	$ 40,000.00	18.00	40	$ 720.00
4	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	1,096	$ 15,344.00	15.77	1,096	$ 17,286.66	19.58	1,096	$ 21,459.68	33.51	1,096	$ 36,726.96	4.00	1,096	$ 4,384.00	6.00	1,096	$ 6,576.00
5	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	2,192	$ 30,688.00	11.93	2,192	$ 26,139.60	4.19	2,192	$ 9,184.48	33.51	2,192	$ 73,453.92	4.00	2,192	$ 8,768.00	6.00	2,192	$ 13,152.00
6	Installation of cured-in-place pipe (CIPP) lining in existing 27-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 405.00	1,096	$ 443,880.00	467.25	1,096	$ 512,100.52	252.58	1,096	$ 276,827.68	854.65	1,096	$ 936,696.40	168.75	1,096	$ 184,950.00	593.00	1,096	$ 649,928.00
7	Sewer manhole concrete collar, including reinforcing steel, borrow material, where required, and all other items as necessary to complete the work.	Ea.	$ 1,500.00	1	$ 1,500.00	5,215.66	1	$ 5,215.66	3,702.00	1	$ 3,702.00	7,660.64	1	$ 7,660.64	3,500.00	1	$ 3,500.00	6,000.00	1	$ 6,000.00
8	Sewer Flow Control for Sewer Rehabilitation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 179,000.00	1	$ 179,000.00	167,957.89	1	$ 167,957.89	190,343.00	1	$ 190,343.00	276,488.57	1	$ 276,488.57	125,000.00	1	$ 125,000.00	80,000.00	1	$ 80,000.00
9	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 50,000.00	1	$ 50,000.00	42,818.98	1	$ 42,818.98	18,761.00	1	$ 18,761.00	82,514.91	1	$ 82,514.91	20,000.00	1	$ 20,000.00	50,000.00	1	$ 50,000.00
	ADDITIVE BID #2 (TOTAL Items 1 through 9, inclusive)				**$ 910,497.00**			**$ 934,312.47**			**$ 693,525.04**			**$ 1,565,730.85**			**$ 542,162.00**			**$ 935,832.00**

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #3 Description of Work:
Line B Work (SMH 327Haga to SMH 323Haga)
Work consists of rehabilitating existing 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, replacing sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

Item No.	Description	Unit	Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
			Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 65,913.00	1	$ 65,913.00	$ 64,729.10	1	$ 64,729.10	$ 74,544.00	1	$ 74,544.00	$ 59,372.38	1	$ 59,372.38	$ 35,000.00	1	$ 35,000.00	$ 90,000.00	1	$ 90,000.00
2	Light Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 45.00	2,184	$ 98,280.00	$ 32.96	2,184	$ 71,979.18	$ 21.54	2,184	$ 47,043.36	$ 37.29	2,184	$ 81,441.36	$ 55.00	2,184	$ 120,120.00	$ 18.00	2,184	$ 39,312.00
3	Specialty Cleaning of all pipe size sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Hour	$ 600.00	40	$ 24,000.00	$ 643.16	40	$ 25,726.20	$ 1,279.55	40	$ 51,182.00	$ 275.07	40	$ 11,002.80	$ 1,000.00	40	$ 40,000.00	$ 18.00	40	$ 720.00
4	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	1,092	$ 15,288.00	$ 15.75	1,092	$ 17,193.54	$ 19.47	1,092	$ 21,261.24	$ 33.51	1,092	$ 36,592.92	$ 4.00	1,092	$ 4,368.00	$ 6.00	1,092	$ 6,552.00
5	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	2,184	$ 30,576.00	$ 11.75	2,184	$ 25,656.54	$ 3.48	2,184	$ 7,600.32	$ 33.51	2,184	$ 73,185.84	$ 4.00	2,184	$ 8,736.00	$ 6.00	2,184	$ 13,104.00
6	Installation of cured-in-place pipe (CIPP) lining in existing 27-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 405.00	1,092	$ 442,260.00	$ 488.09	1,092	$ 532,994.28	$ 225.96	1,092	$ 246,748.32	$ 854.65	1,092	$ 933,277.80	$ 278.75	1,092	$ 304,395.00	$ 593.00	1,092	$ 647,556.00
7	Sewer manhole concrete collar, including reinforcing steel, borrow material, where required, and all other items as necessary to complete the work.	Ea.	$ 1,500.00	3	$ 4,500.00	$ 4,597.08	3	$ 13,791.23	$ 1,227.67	3	$ 3,683.01	$ 7,660.64	3	$ 22,981.92	$ 3,500.00	3	$ 10,500.00	$ 6,000.00	3	$ 18,000.00
8	Sewer Flow Control for Sewer Rehabilitation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 179,000.00	1	$ 179,000.00	$ 149,297.87	1	$ 149,297.87	$ 119,078.00	1	$ 119,078.00	$ 273,113.47	1	$ 273,113.47	$ 125,000.00	1	$ 125,000.00	$ 80,000.00	1	$ 80,000.00
9	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 30,000.00	1	$ 30,000.00	$ 42,772.34	1	$ 42,772.34	$ 18,678.00	1	$ 18,678.00	$ 82,411.37	1	$ 82,411.37	$ 20,000.00	1	$ 20,000.00	$ 50,000.00	1	$ 50,000.00
	ADDITIVE BID #3 (TOTAL Items 1 through 9, inclusive)				**$ 889,817.00**			**$ 944,140.28**			**$ 589,818.25**			**$ 1,573,379.86**			**$ 668,119.00**			**$ 945,244.00**

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #4 Description of Work:
Line B Work (SMH 323Haga to Hagatna Pump Station Wetwell)
Work consists of rehabilitating existing 27-inch diameter gravity sewer lines with cured-in-place pipe (CIPP) liner, replacing sewer manhole concrete collars, and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 27,294.00	1	$ 27,294.00	$ 54,519.10	1	$ 54,519.10	$ 75,358.00	1	$ 75,358.00	$ 67,718.38	1	$ 67,718.38	$ 35,000.00	1	$ 35,000.00	$ 40,000.00	1	$ 40,000.00
2	Light Sewer Line Cleaning of existing 27-inch Asbestos Cement Pipe (ACP) sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Lin. Ft.	$ 45.00	820	$ 36,900.00	$ 33.77	820	$ 27,687.30	$ 24.77	820	$ 20,311.40	$ 37.29	820	$ 30,577.80	$ 55.00	820	$ 45,100.00	$ 18.00	820	$ 14,760.00
3	Specialty Cleaning of all pipe size sewer lines, including removal and disposal of debris, and other items as necessary to complete the inspection and rehabilitation work.	Hour	$ 600.00	40	$ 24,000.00	$ 646.46	40	$ 25,858.20	$ 1,292.75	40	$ 51,710.00	$ 275.07	40	$ 11,002.80	$ 1,000.00	40	$ 40,000.00	$ 18.00	40	$ 720.00
4	Closed-Circuit Television (CCTV) inspections for initial assessment of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	410	$ 5,740.00	$ 19.15	410	$ 7,850.48	$ 21.08	410	$ 8,642.80	$ 33.51	410	$ 13,739.10	$ 4.00	410	$ 1,640.00	$ 18.00	410	$ 7,380.00
5	Closed-Circuit Television (CCTV) inspections for pre- and post-rehabilitation of existing 27" sewer line and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	820	$ 11,480.00	$ 12.28	820	$ 10,071.65	$ 5.62	820	$ 4,608.40	$ 33.51	820	$ 27,478.20	$ 4.00	820	$ 3,280.00	$ 6.00	820	$ 4,920.00
6	Installation of cured-in-place pipe (CIPP) lining in existing 27-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 405.00	410	$ 166,050.00	480.17	410	196,869.70	283.01	410	116,034.10	867.17	410	355,539.70	177.50	410	72,775.00	593.00	410	243,130.00
7	Cast iron manhole frame and cover, 30-inch diameter, including replacement of manhole cone section, grade adjustment rings where required, replacement of concrete sidewalk, curb and other items as necessary to complete the work.	Ea.	$ 10,000.00	1	$ 10,000.00	8,156.54	1	8,156.54	7,447.00	1	7,447.00	12,679.15	1	12,679.15	6,500.00	1	6,500.00	6,000.00	1	6,000.00
8	Sewer Flow Control for Sewer Rehabilitation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 67,000.00	1	$ 67,000.00	154,780.77	1	154,780.77	101,288.00	1	101,288.00	367,835.06	1	367,835.06	100,000.00	1	100,000.00	50,000.00	1	50,000.00
9	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 20,000.00	1	$ 20,000.00	41,816.13	1	41,816.13	12,557.00	1	12,557.00	104,707.51	1	104,707.51	20,000.00	1	20,000.00	30,000.00	1	30,000.00
	ADDITIVE BID #4 (TOTAL Items 1 through 9, inclusive)				**$ 368,464.00**			**$ 527,609.85**			**$ 397,956.70**			**$ 991,277.70**			**$ 324,295.00**			**$ 396,910.00**

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #1 Description of Work:
Line C Work (SMH 398Asan to 355AAsan)
Work consists of abandoning an existing 12-inch ACP sewer line, installing a new 12-inch diameter polyvinyl chloride (PVC) sewer line, and providing temporary bypassing and traffic control as necessary to complete the work.

			Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
Item No.	Description	Unit	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 37,453.00	1	$ 37,453.00	$ 42,336.43	1	$ 42,336.43	$ 6,922.00	1	$ 6,922.00	$ 62,423.73	1	$ 62,423.73	$ 50,000.00	1	$ 50,000.00	$ 50,000.00	1	$ 50,000.00
2	Abandonment of 12-inch diameter ACP pipe, and all incidentals required to complete the work.	Lin. Ft.	$ 180.00	123	$ 22,140.00	$ 200.61	123	$ 24,675.34	$ 33.69	123	$ 4,143.87	$ 218.76	123	$ 26,907.48	$ 400.00	123	$ 49,200.00	$ 150.00	123	$ 18,450.00
3	New Pipe install new 12" PVC pipe (AWWA C-900, DR 25) by open trenching, including pavement demolition, unclassified trench excavation, shoring, underpinning, crushed rock bedding material, piping, fittings, select fill, compaction, testing, warning/identification tape, and all incidentals, in place complete. (10'-20' Depth)	Lin. Ft.	$ 3,825.00	80	$ 306,000.00	$ 2,410.88	80	$ 192,870.40	$ 1,742.70	80	$ 139,416.00	$ 1,900.82	80	$ 152,065.60	$ 2,500.00	80	$ 200,000.00	$ 3,500.00	80	$ 280,000.00
4	A.C. Pavement Resurfacing, including pavement transitions, prime coat, tack coat, traffic striping, miscellaneous restoration, and all necessary labor, materials and equipment, in place complete.	Sq. Yds.	$ 233.00	74	$ 17,242.00	$ 382.88	74	$ 28,332.94	$ 434.15	74	$ 32,127.10	$ 297.36	74	$ 22,004.64	$ 650.00	74	$ 48,100.00	$ 150.00	74	$ 11,100.00
5	Milling Asphalt Friction Course, including all necessary labor, materials and equipment, in place complete.	Sq. Yds.	$ 110.00	109	$ 11,990.00	$ 334.48	109	$ 36,458.05	$ 333.35	109	$ 36,335.15	$ 224.56	109	$ 24,477.04	$ 700.00	109	$ 76,300.00	$ 80.00	109	$ 8,720.00
6	Asphalt Friction Course, including pavement transitions and all necessary labor, materials and equipment, in place complete.	Sq. Yds.	$ 160.00	183	$ 29,280.00	$ 249.22	183	$ 45,606.35	$ 352.62	183	$ 64,529.46	$ 264.24	183	$ 48,355.92	$ 300.00	183	$ 54,900.00	$ 80.00	183	$ 14,640.00
7	Sewer manhole concrete collar, including reinforcing steel, borrow material where required, and other items as necessary to complete the work.	Ea.	$ 1,500.00	1	$ 1,500.00	$ 5,353.07	1	$ 5,353.07	$ 2,120.00	1	$ 2,120.00	$ 8,292.29	1	$ 8,292.29	$ 3,500.00	1	$ 3,500.00	$ 7,500.00	1	$ 7,500.00
8	Install new Plain Precast Concrete Manhole, including plugging or bypass pumping, excavation and backfill, crushed rock base, reinforced concrete base, precast concrete riser(s) and cone, flexible pipe seals and connectors, grade adjustment ring(s), Type "SA" frame and cover, channelized invert, testing, incidentals, and all necessary labor, materials, and equipment, in place complete.	Ea.	$ 30,000.00	1	$ 30,000.00	$ 51,090.82	1	$ 51,090.82	$ 52,137.00	1	$ 52,137.00	$ 37,226.27	1	$ 37,226.27	$ 65,000.00	1	$ 65,000.00	$ 50,000.00	1	$ 50,000.00
9	Sewer Flow Control for new pipe installation, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 20,000.00	1	$ 20,000.00	$ 173,294.69	1	$ 173,294.69	$ 169,267.00	1	$ 169,267.00	$ 363,911.76	1	$ 363,911.76	$ 85,000.00	1	$ 85,000.00	$ 75,000.00	1	$ 75,000.00
10	Traffic Control Work for new pipe installation and rehabilitation, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 30,000.00	1	$ 30,000.00	$ 46,072.12	1	$ 46,072.12	$ 4,373.00	1	$ 4,373.00	$ 109,915.47	1	$ 109,915.47	$ 45,000.00	1	$ 45,000.00	$ 25,000.00	1	$ 25,000.00
	ADDITIVE BID #1 (TOTAL Items 1 through 10, inclusive)		$ 505,605.00					$ 646,090.20			$ 511,370.58			$ 855,580.20			$ 677,000.00			$ 540,410.00

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

GUAM WATERWORKS AUTHORITY

Bid Tabulation

Additive Bid #6 Description of Work:
Line B Work (SMH 350AHAGA to SMH 350BHAGA)
Work consists of rehabilitating one siphon consisting of two (2) - 18-inch barrels and providing temporary bypassing and traffic control as necessary to complete the rehabilitation work.

Item No.	Description	Unit	Engineer's Estimate			Average Unit Bid Price			Core-Tech-Hawaiian Dredging, LLC			Infratech International, LLC			Mocon			ProPacific Builder Corporation		
			Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount	Unit Price	Qty	Bid Amount
1	Mobilization (For costs associated with bonding, insurance and permits)	Lump Sum	$ 28,489.00	1	$ 28,489.00	$ 70,947.63	1	$ 70,947.63	$ 163,165.00	1	$ 163,165.00	$ 60,625.52	1	$ 60,625.52	$ 35,000.00	1	$ 35,000.00	$ 25,000.00	1	$ 25,000.00
2	Sewer Line Cleaning of Inverted Siphon (2 - 18" Cast Iron Barrels, approximately 124 linear feet each, 22.5 degree bends), including removal and disposal of debris, and all incidentals necessary to complete work.	Lump Sum	$ 30,000.00	1	$ 30,000.00	$ 66,814.92	1	$ 66,814.92	$ 78,271.00	1	$ 78,271.00	$ 63,988.67	1	$ 63,988.67	$ 75,000.00	1	$ 75,000.00	$ 50,000.00	1	$ 50,000.00
3	Closed-Circuit Television (CCTV) inspections for pre- and post rehabilitation of existing inverted siphon (2 - 18" Cast Iron Barrels, approximately 124 linear feet each, 22.5 degree bends) and sewer manholes, including reports, documentation, and other items as necessary to complete the work.	Lin. Ft.	$ 14.00	248	$ 3,472.00	$ 47.37	248	$ 11,748.38	$ 139.69	248	$ 34,643.12	$ 32.30	248	$ 8,010.40	$ 10.00	248	$ 2,480.00	$ 7.50	248	$ 1,860.00
4	Installation of cured-in-place pipe (CIPP) lining in existing 18-inch sewer line, including wet out, preparation, testing of installed liner, sealing at manholes, reconstructing manhole transition sections and benches, and other items as necessary to complete the work.	Lin. Ft.	$ 380.00	248	94,240.00	$ 520.53	248	129,090.82	$ 554.45	248	137,503.60	$ 778.41	248	193,045.68	$ 156.25	248	38,750.00	$ 593.00	248	147,064.00
5	Sewer Flow Control for siphon inspection and cleaning, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement and concrete pavement), electrical and standby power/pumps, monitoring, spill containment/mitigation, additional traffic control, all related restoration work, in place complete.	Lump Sum	$ 190,300.00	1	$ 190,300.00	$ 121,078.56	1	$ 121,078.56	$ 72,981.00	1	$ 72,981.00	$ 296,333.23	1	$ 296,333.23	$ 75,000.00	1	$ 75,000.00	$ 40,000.00	1	$ 40,000.00
6	Traffic Control Work, including obtaining approvals, redesign/modification of traffic control plans for the contractor's convenience, traffic control work, all traffic control devices, placement and removal of devices and detours, cleanup, restoration, and incidentals.	Lump Sum	$ 38,100.00	1	$ 38,100.00	$ 27,011.28	1	$ 27,011.28	$ 11,918.00	1	$ 11,918.00	$ 56,127.13	1	$ 56,127.13	$ 25,000.00	1	$ 25,000.00	$ 15,000.00	1	$ 15,000.00
	ADDITIVE BID #6 (TOTAL Items 1 through 6, inclusive)				**$ 384,601.00**			**$ 426,691.59**			**$ 498,481.72**			**$ 678,130.63**			**$ 251,230.00**			**$ 278,924.00**

= Value Corrected Due to Mathematical Error per Instructions to Bidders, Article 14.01, Item C.

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

RESOLUTION NO. 05-FY2021

RELATIVE TO THE APPROVAL OF THE CREATION OF THE ASSISTANT GENERAL MANAGER -ENGINEERING (AGME) (UNCLASSIFIED) JOB CLASSIFICATION STANDARD

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

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

WHEREAS, the GWA General Manager requests the CCU to approve the creation of the Assistant General Manager – Engineering (AGME) (Unclassified) position (Exhibit A); and

WHEREAS, the GWA General Manager requests the CCU to approve the job classification standards of the Assistant General Manager – Engineering (AGME) position in the unclassified status; and

WHEREAS, Public Law 34-131, Section 2, §6303(e) as added and 4 GCA §6303 (d) & (2C) authorizes the creation of positions in Autonomous Agencies and Public Corporations; and

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

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

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The creation of the job classification standard for the Assistant General Manager – Engineering (AGME) (Unclassified) position in the classified status is hereby approved and attached herein as Exhibit A.
3. The Assistant General Manager – Engineering (AGME) (Unclassified) position is hereby added to the certified, technical and professional (CTP) list of positions and testing designated positions (TDP) list at GWA.

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

DULY AND REGULARLY ADOPTED, this 24th day of November 2020.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

MICHAEL T. LIMTIACO
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:

AYES: 5

NAYS: ϕ

ABSENT: ϕ

ABSTAIN: ϕ

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Assistant General Manager – Engineering (AGME)
(Unclassified)

NATURE OF WORK IN THIS CLASS:

The Assistant General Manager of Engineering (AGME) serves under the direction of the General Manager. This is a complex work involving in the planning, permitting, organizing, coordinating, design, construction inspection, construction management, and operations support including the preventive and corrective maintenance and repair of facilities to ensure systems meet high level compliance with water and wastewater standards for Guam Waterworks Authority (GWA) water and wastewater facilities.

The AGME is responsible and accountable to the Guam Waterworks Authority's General Manager for the effective planning, design, construction and post-construction engineering support of all facilities required to conduct operations to meet the established levels of service for all customers, in accordance with the Guam Safe Drinking Water Act and the Clean Water Act, associated regulations, and applicable permit requirements. The AGME also responsible and accountable for the managing and organizing efficient business operations of the engineering department and a multi-disciplinary engineering staff. The AGME shall also be responsible for assisting with the formulation of recommendations on policies, goals and objectives to, and implementation of plans, policies and procedures adopted by the Consolidated Commission on Utilities (CCU).

AGME directs and manages the development and execution of GWA's short and long-term capital improvement and capital maintenance goals and objectives; makes sure all assigned operations and functions are sustainable and effectively serve the needs of GWA's ratepayers, while complying with adopted and industry standards, applicable laws and regulations; and performs related duties as assigned.

ILLUSTRATIVE EXAMPLES OF WORK: (These examples do not list all the duties which may be assigned; any one position may not include all the duties listed)

Directs Guam Waterworks Authority's (GWA) engineering department resources to carry out its duties, functions and responsibilities; Develops goals and priorities; Provides leadership, directions and guidance for the engineering division.

Directs all GWA planning, permitting and new area development activities in accordance with GWA service rules and regulations, Guam building and development laws, regulations, codes and adopted GWA engineering and construction standards.

Directs all engineering design and construction activities including management of staff and oversight of consultants to ensure that results are accomplished efficiently and in accordance with acceptable standards for quality and technical integrity, and in compliance with applicable laws, regulations, policies, and procedures.

Oversees the preparation, administration, monitoring and periodic updating of five (5) year Capital Improvement Program (CIP), twenty (20) year Water Resources Master Plan and related activities. Directs the planning, development, and monitoring of the Engineering budget to ensure the most efficient use of resources, adherence to established guidelines, and accurate and timely reporting of budgetary information.

Directs the effective conduct of Engineering operations to meet the established levels of service for all customers, in accordance with the GWA's Water Resources Master Plan, Safe Drinking Water Act and the Clean Water Act, associated regulations and applicable permit requirements.

Directs contracting for Engineering, including the issuance of all requests for proposals, contracts for professional services, and associated contract amendments related to the Capital Improvement Program. Approves construction contracts and related faithful performance and payment bonds, construction change orders, and extra work for execution.

Reviews, analyzes and evaluates performance and operation of Engineering division and develops strategy for implementing changes benefiting the organization.

Directs the preparation of reports and documents as requested by the General Manager for Consolidated Commission on Utilities (CCU) meetings; make presentations to the CCU and other stakeholders, as required, to keep them apprised of GWA's engineering program activities.

Evaluates and analyzes issues and recommends solutions. Assures effective communication strategies among GWA management team members. Serves as liaison between GWA Engineering Division and various local, territorial government, and federal organizations and agencies. Assures the satisfaction of internal and external customers. Leads departmental and division quality improvement initiatives.

Directs critical engineering activities to maintain project schedules; determine corrective action necessary to meet project objectives and implement required modifications to ensure successful completion of program.

Facilitates the resolution of problems and conflicts relating to engineering issues; Promotes technical guidance on engineering issues to technical and professional staff, the general public and government officials. Advises the General Manager (GM) and Consolidated Commission on Utilities (CCU) on technical and engineering issues.

Develops and implements design and construction standards, policies, and standard operation procedures as required to maintain and/or improve work results of the department.

Directs management of construction projects with Engineering Managers and Supervisors, operations personnel, local and federal government authorities and community groups. Collaborates with Assistant General Manager – Compliance & Safety on developing managing Court ordered projects timelines and meeting regulatory requirements.

Directs complex engineering projects and studies to ensure that GWA's short and long-term interests and needs are met. Directs engineering support of preventive maintenance and other facilities operation programs; Oversees planning of engineering economy evaluations of equipment alternatives and recommends projects with better life cycle costs.

Performs other duties as assigned or required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of water and wastewater facility design, construction, maintenance and operating principles.

Knowledge of US Environmental Protection Agency (USEPA) and Guam Environmental Protection Agency (GEPA) Safe Drinking Water and Clean Water Regulations, the National Pollutant Discharge Elimination System (NPDES) permit program, and water/wastewater utility rules, regulations, ordinances, codes administrative orders and other operational guidelines and directives.

Knowledge of conventional and Global Positioning System (GPS) survey principles and practices.

Knowledge of the standard methods, materials, practices and equipment used in the construction, operations, repair and maintenance of potable water and wastewater systems, including ancillary infrastructure, such as roadways, drainage and other improvements.

Knowledge of business strategies and organizational management theories and practices; budget development, implementation and administration; personnel management practices and regulations; public sector contracting practices and regulations.

Ability to lead a large multifunctional division.

Ability to analyze and evaluate engineering, statistical and financial data, conduct and direct research and develop alternatives and recommendations.

Ability to analyze engineering problems; exercise judgment and discretion.

Ability to recommend and implement changes in policies, procedures, materials and equipment to enhance program effectiveness.

Ability to develop and oversee a multimillion-dollar operating budget.

Ability to interpret and apply federal and local laws and complex governmental regulations, pertaining to work.

Ability to analyze situations accurately and make independent engineering judgments to provide information, take effective action, and resolve physical and construction support issues.

Ability to effectively communicate orally and in writing on technical subject matters to technical and non-technical audiences.

Ability to establish and maintain collaborative working relationships with all levels within the Authority, contractors, local, territorial government, and federal organizations and agencies.

Skill to develop written specifications, scopes of work and requests for proposals for engineering services.

Skill in analyzing and interpreting data to produce technical reports and recommendations on a wide variety of engineering issues.

Skill in evaluating the work of contractors and consultants for compliance with project plans, specifications and applicable laws, ordinances and policies.

Skill to mentor, develop, and motivate staff.

Skill in creating and delivering presentations to large groups, executive management, and the CCU

MINIMUM EXPERIENCE AND TRAINING:

A. Bachelor's degree in Engineering from an Accreditation Board of Engineering and Technology (ABET) accredited University; AND 10 (ten) years of engineering experience in planning, design, construction, and operations of wastewater and water systems, including five (5) years which shall have been in a supervisory capacity; AND Current registration as a Professional Engineer on Guam, or current registration as a Professional Engineer by any state or US territory and the ability to obtain registration on Guam within one (1) year of hire; OR

B. Master's degree in Engineering from an Accreditation Board of Engineering and Technology (ABET) accredited University; AND 9 (nine) years of engineering experience in planning, design, construction, and operations of wastewater and water systems, including five (5) years which shall have been in a supervisory capacity; AND Current registration as a Professional Engineer on Guam, or current registration as a Professional Engineer by any state or US territory and the ability to obtain registration on Guam within one (1) year of hire.

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Guam Environmental Protection Agency Operator Certification Level IV in Water Treatment, Water Distribution, Wastewater Collection OR Wastewater Treatment.

ESTABLISHED: November 2020

JOB EVALUATION POINTS: 1514

PAYGRADE/STEP	MINIMUM:	R5-A; $144,772
	MAXIMUM:	R6-A; $150,650

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
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GWA RESOLUTION NO. 04-FY2021

RELATIVE TO APPROVAL OF A CHANGE ORDER FOR A CONSTRUCTION MANAGEMENT CONTRACT FOR PHASE II OF THE ASAN-ADELUP-HAGATNA, ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT PROJECT S15-002-EPA

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

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

WHEREAS, GWA has received a grant from the United States Environmental Protection Agency ("USEPA") under the State Revolving Fund ("SRF") program to improve the sewer collection system, which included the gravity sewer line along Route 1, from the Asan "War in the Pacific" National Historical Park to the Agana Main Pump Station; and

WHEREAS, the segments of gravity sewer line indicated is deteriorating and has experienced collapses, bellies in the sewer line, offsets, and sections of missing or badly corroded pipe, and the intent of this project is to rehabilitate, repair or replace these sections; and

WHEREAS, GWA procured construction management (CM) services through Request for Proposal No. RFP-04-ENG-2017 that included CM services for the Rt.1 Sewer Line Rehabilitation and Replacement Project from Asan to Hagatna; and

WHEREAS, due to funding limitations, the full scope of work for construction of the Rt.1 Sewer Rehabilitation and Replacement Project was divided into phases such that Phase I construction was awarded to InfraTech International LLC for Phase I, from Asan to the Asan

Pump Station, through Invitation for Re-Bid No. IFB-11-ENG-2017 (GWA Project No. S15-002-EPA) and Phase II, from the Asan Pump Station to Adelup and toward Hagatna, was recently advertised through Invitation for Bid no. IFB-06-ENG-2020 (GWA Project No. S15-002-EPA); and

WHEREAS, GWA selected Duenas, Camacho & Associates, Inc. (DCA) for the CM Services, and negotiated with DCA for Phase I in the amount of amount of Eight Hundred Seventy Thousand Six Hundred Ten Dollars and Forty-One Cents ($870,610.41); and

WHEREAS, by Resolution No. 30-FY2018, see Exhibit A, the CCU authorized awarding the CM services contract to DCA and CM services was contracted to DCA for a maximum amount of Nine Hundred Fifty-Seven Thousand Six Hundred Seventy-One Dollars and Forty-Five Cents ($957,671.45) which included Eighty-Seven Thousand Sixty-One Dollars and Four Cents ($87,061.04) for contingencies; and,

WHEREAS, GWA and USEPA agree that efforts to rehabilitate, repair or replace these sewer lines are necessary and the proceeding order to accomplish such task is through services that include construction management; and

WHEREAS, GWA is preparing to award a contract to the lowest responsive and responsible bidder under the Phase II IFB; and,

WHEREAS, GWA requires CM services for Phase II construction and has negotiated a fair and reasonable fee for such services from DCA under the scope of work advertised under Request for Proposal No. RFP-04-ENG-2017; and,

WHEREAS, GWA management is requesting to amend the DCA contract to provide construction management services for Phase II in the amount of Five Hundred Seventy-One Thousand Five Hundred Fifty ($571,550.00), see Exhibit B, including a contingency amount of Twenty-Eight Thousand Four Hundred Fifty Dollars ($28,450.00), for a total amount of Six Hundred Thousand Dollars ($600,000.00); and,

WHEREAS, funding for this project will be from the USEPA State Revolving Fund and, if necessary, GWA Bond funds.

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

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the fee proposal submitted by DCA are fair and reasonable (See Exhibit B).
3. The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
4. The CCU hereby authorizes the management of GWA to execute a Change Order to the contract with DCA in the amount of Six Hundred Thousand Dollars ($600,000.00).
5. The CCU hereby further approves the total funding for the CM contract with DCA in the amount of One Million Five Hundred Fifty-Seven Thousand Six Hundred and Seventy-One Dollars and Forty-Five Cents ($1,557,671.45).

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

DULY AND REGULARLY ADOPTED, this 24th day of November 2020.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

MICHAEL T. LIMTIACO
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:

AYES: 5
NAYS: ϕ
ABSENT: ϕ
ABSTAIN: ϕ

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EXHIBIT A

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

RESOLUTION NO. 30-FY2018

RELATIVE TO APPROVAL OF A CONSTRUCTION MANAGEMENT CONTRACT FOR THE ASAN-ADELUP-HAGATNA, ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT PROJECT S15-002-EPA

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

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

WHEREAS, GWA has received a grant from the United States Environmental Protection Agency ("USEPA") under the State Revolving Fund ("SRF") program to improve the sewer collection system, which included the gravity sewer line along Route 1, from the Asan "War in the Pacific" National Historical Park to the Agana Main Pump Station; and

WHEREAS, the segments of gravity sewer line indicated is deteriorating and has experienced collapses, bellies in the sewer line, offsets, and sections of missing or badly corroded pipe, and the intent of this project is to rehabilitate, repair or replace these sections; and

WHEREAS, GWA procured engineering design services through RFP-02-ENG-2015 that included general civil engineering, geotechnical engineering, and archeological investigation for wastewater collection system evaluation, analysis and detailed design; and

WHEREAS, the professional engineering design services have been completed by HDR Engineering, Inc. through contract, which was signed on December 10, 2015, and all rendered design documents have been accepted by GWA in May 2017; and

WHEREAS, GWA and USEPA agree that efforts to rehabilitate, repair or replace these sewer lines are necessary and the proceeding order to accomplish such task is through services that include construction management; and

WHEREAS, GWA has advertised the Request for Proposal (RFP-04-ENG-2017) dated March 30, 2017, soliciting statement of qualifications from experienced and qualified engineering firms to provide construction management services for the ASAN-ADELUP-HAGATNA, ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT PROJECT; and

WHEREAS, RFP packages were downloaded by multiple interested parties, from which GWA received proposal submittal from eight (8) engineering firms before the RFP submittal deadline; and

WHEREAS, the GWA A-E Selection Committee reviewed and evaluated the eight (8) proposals (see EXHIBIT A-Evaluation Score) and generated a short list of the top three (3) firms with a recommendation to award a contract to the firm DUENAS, CAMACHO & ASSOCIATES, INC. ("DCA") and any successor at interest thereto (see EXHIBIT B- GM Determination); and

WHEREAS, GWA advertised the initial Invitation to Bid (IFB-06-ENG-2017) for the construction of this project on May 12, 2017, and received no responsive and responsible bidders; and

WHEREAS, GWA advertised a second time, with the Invitation to Re-Bid (IFB-11-ENG-2017) on October 31, 2017, and again received no responsive and responsible bidders; and

WHEREAS, Following the second attempt, GWA revised the bid documents and Bid Form to include two separate, independent Bid Schedules, Bid Schedule A and Bid Schedule B, with Bid Schedule A being primarily repairs by Cured-In-Place-Pipe installation, and Bid Schedule B being repairs entirely by Open Cut and Replacement; and

WHEREAS, GWA advertised the next Invitation to Re-Bid (IFB-05-ENG-2018) on May 4, 2018, with the two revised Bid Schedules; and

WHEREAS, Bid Schedule A will be opened first, and if bids should be opened and found to be responsive and responsible, the lowest responsive and responsible bid will be selected; and

WHEREAS, if no Contractors submit for Bid Schedule A, Bid Schedule B will then be opened, and the lowest responsive and responsible bid will be selected from Bid Schedule B; and

WHEREAS, DCA and GWA negotiated the price for the construction management services to be provided if either Bid Schedule A or Bid Schedule B is selected; and

WHEREAS, If Bid Schedule A is selected, the construction management services with DCA will be in the amount of Six Hundred Eighty-Three Thousand Nine Hundred Thirty-One Dollars and Thirty-Four Cents ($683,931.34) on a Time and Materials basis (See EXHIBIT C – Fee Proposal); and

WHEREAS, If Bid Schedule B is selected, the construction management services with DCA will be in the amount of Eight Hundred Seventy Thousand Six Hundred Ten Dollars and Forty-One Cents ($870,610.41) on a Time and Materials basis (See EXHIBIT C – Fee Proposal); and

WHEREAS, GWA Management seeks approval of the fee proposal for the Scope of Work relative to the construction Bid Schedule B, which includes construction management, inspection, and project coordination services during construction of Eight Hundred Seventy Thousand Six Hundred Ten Dollars and Forty-One Cents ($870,610.41), plus a ten percent (10%) contingency of Eighty-Seven Thousand Sixty-One Dollars and Four Cents ($87,061.04), for a total amount of Nine Hundred Fifty-Seven Thousand Six Hundred Seventy-One Dollars and Forty-Five Cents ($957,671.45); and

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

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

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the fee proposal submitted by Duenas, Camacho & Associates, Inc. (DCA) are fair and reasonable.
3. The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
4. The CCU hereby authorizes the management of GWA to enter into a contract with DCA in the amount of Eight Hundred Seventy Thousand Six Hundred Ten Dollars and Forty-One Cents ($870,610.41) (EXHIBIT C).
5. The CCU hereby further approves the total funding amount for this project of Eight Hundred Seventy Thousand Six Hundred Ten Dollars and Forty-One Cents ($870,610.41), plus a ten percent (10%) contingency of Eighty-Seven Thousand Sixty-One Dollars and Four Cents ($87,061.04), to bring the total authorized funding amount to a maximum of Nine Hundred Fifty-Seven Thousand Six Hundred Seventy-One Dollars and Forty-Five Cents ($957,671.45).

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

//

//

DULY AND REGULARLY ADOPTED, this 22nd day of May 2018.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

J. GEORGE BAMBA
Secretary

SECRETARY'S CERTIFICATE

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

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

AYES: 4

NAYS: 0

ABSTENTIONS: 0

ABSENT: 1



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///

Exhibit A (1 of 2)

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

May 19, 2017

To: Thomas F. Cruz, P.E., Chief Engineer

From: Gloria P. Bensan
Chairperson, Consultant Selection Board

Subject: RFP-04-ENG-2017
Construction Management Services for the Asan-Adelup-Hagatna, Route 1 Sewerline Rehabilitation and Replacement
GWA Project No. S15-002-EPA

The following information is intended to document the evaluation process undertaken for the referenced solicitation.

EVALUATION COMMITTEE MEMBERS	
Name	**Title**
Clinton Huntington II	Senior Engineer
Rylma Carino	Junior Engineer
Anthony Chargualaf	Operations Manager
George Watson	Brown & Caldwell, PMO

Consultant	Evaluation Score				Total	Rank
1. AmOrient	85	89	81	75	330	4
2. EMPSCO Engineering Consultants	62	90	86	86	324	5
3. LYON	80	85	80	70	315	7
4. E.M. Chen & Associates, Inc.	77	88	81	70	316	6
5. Duenas, Camacho & Associates	82	92	92	90	356	1
6. TG Engineers, PC	83	91	90	85	349	2
7. Coeval Design Partners	70	84	74	66	294	8
8. AECOM	75	89	86	89	339	3

Scores were evaluated based on sum of the individual scores. The recommendation of the evaluation committee is shown in the ranking above.

Please review and approve at your earliest convenience so that we may proceed with the notification letters.

Exhibit A (2 of 2)

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, Guam 96913

MEMORANDUM

TO: Thomas F. Cruz, P.E., Chief Engineer

FROM: Gloria P. Bensan

SUBJECT: CM Selection

DATE: May 18, 2017

Per our discussion with the General Manager and Legal Counsel on May 15, 2017, the CM selection team reconvened on May 16, 2017 at 2:30 pm to discuss the merits of evaluation for each proposal submitted for the following projects:

1. Asan-Adelup-Hagatna, Route 1 Sewerline Rehabilitation and Replacement
2. Route 2 War in the Pacific National Park Sewerline Rehabilitation and Replacement

Each selection committee reviewed the RFP proposals and reevaluated them based on the predetermined set of criteria. Committee members obtained reasonable, rational and consistent basis for their scores in comparison to the evaluation criteria outlined in the solicitation documents and determined the final ranking of proposers as shown in the attached evaluation summary.

Exhibit B (1 of 1)

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, Guam 96913

MEMORANDUM

To: Miguel C. Bordallo, P.E., General Manager

From: Thomas F. Cruz, P.E., Chief Engineer

Subject: RFP-04-ENG-2017
Construction Management Services for the Asan-Adelup-Hagatna, Route 1 Sewerline Rehabilitation and Replacement
GWA Project No. S15-002-EPA

Date: May 19, 2017

The Selection Committee has completed all necessary actions for selecting the most qualified consultant for the referenced solicitation. All proposals were reviewed and scored according to the conditions established in the solicitation. The evaluation summary sheet is attached for your information.

The committee recommends the following top three (3) firms in order of preference for the project:

1. Duenas, Camacho & Associates
2. TG Engineers, PC
3. AECOM

Concurred:

VINCENT E. GUERRERO
~~Supply Management~~ Administrator

5/22/2017
Date

GENERAL MANAGER'S DETERMINATION

Consultant Firm Selected:

DUENAS CAMACHO & ASSOC.

Remarks:

MIGUEL C. BORDALLO, P.E.
General Manager

5.23.17
Date

Exhibit C (1 of 9)

Website: www.dcaguam.com
Email: dca@dcaguam.com

April 23, 2018

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

Attention: **Mr. Thomas F. Cruz, Chief Engineer, GWA / George Watson, Brown & Caldwell**

Subject: **GWA RFP-04-ENG--2017, Construction Management Services for Asan-Adelup-Hagatna Route 1 Sewerline Rehabilitation and Replacement, GWA Project No. S15-002-EPA**

Re: *Revised* Fee Proposal Related to Bid Schedules A and B

Hafa Adai:

Duenas, Camacho & Associates, Inc. is pleased to submit this *revised* fee proposal for **GWA RFP-04-ENG-2017, Construction Management Services for Asan-Adelup-Hagatna Route 1 Sewerline Rehabilitation and Replacement, GWA Project No. S15-002-EPA.** The revisions and updates include the following:

1. Fee estimates for:
   a. CM Services under Base Bid Schedule A – CIPP Rehabilitation of Existing Sewer Lines
      Revised Fee Estimate: $683.931.34 including a $10,000 Time & Material allowance for Material Testing
   b. ~~CM Services under Base Bid Schedule B – Cut and Cover Construction of New Sewer Lines~~
      ~~**Fee Estimate: $654,143.21 including a $20,000 Time & Material allowance for Material Testing**~~
      Revised estimate for Bid Schedule B attached.
2. 2018 (current) DCA Personnel Labor and OH Rates
3. A GRT Tax Rate of 5% (recently enacted into law)

Our revised fee estimates for construction management services for each Bid Schedule are supported by the following:

- Detailed Fee Breakdown showing an estimate of effort and expenses
- Exhibit A – Estimated expenses for DCA and CH2M submitted earlier (no change)
- Deletion of Secure Safe Solutions for video surveillance (as requested by GWA)

As indicated in our Proposal submitted in response to the subject RFP, DCA will retain CH2M (our CM Team CIPP Specialist) if a Construction Contract is awarded under Base Bid Schedule A – CIPP Rehabilitation of Existing Sewer Lines. Geo-Engineering & Testing Inc. will provide geotechnical consultation and quality assurance material testing services. The cost for video surveillance by Secure Safe Solutions has been removed at GWA's request.

The estimate of CM effort is based on the following assumptions:

1. The Scope of CM services and tasks as described in the RFP;
2. Base Bid Schedules A and B as described in the amended Bid Form provided to DCA;
3. Project construction duration of 450 calendar days;
4. Full-time resident inspection and supplementary inspection (25% of resident inspection effort for CM Services under Base Bid Schedule A and 50% of resident inspection effort for CM services under Base Bid Schedule B);

5. Part-time CM support by our CIPP Specialist from CH2M under Base Bid Schedule A;
6. Current (2018) DCA personnel rates (loaded).

We look forward to negotiations.

Sincerely,

//Signed
JOHN P. DUENAS, P.E.
President
Enclosures

ENGINEERING * PLANNING * SURVEYING * ENVIRONMENTAL SERVICES * GEOGRAPHIC INFORMATION SYSTEM * CONSTRUCTION MANAGEMENT
GUAM P.O. Box 8900, Tamuning, Guam 96931/238 E. Marine Corps Drive, Suite 201 Diamond Plaza, Hagatña, GU 96910-5194 Tel: (671) 477-7991/Fax: (671) 479-6315
SAIPAN PMB 164, Box 10000, Saipan, MP 96950/Island Commercial Ctr., Chalan Pale Arnold Road, Gualo Rai, Saipan 96950 / Tel: (670) 234-9017/Fax: (670) 234-3842

Exhibit C (3 of 9)

EXHIBIT A - BASE BID SCHEDULE A
DCA EXPENSES

DUENAS, CAMACHO & ASSOCIATES, INC MANAGEMENT SERVICES FOR ASAN-ADELUP-HAGATNA ROUTE 1 SEWERLINE REHABILITATION AND CONSTRUCTION					
	CM Inspection Related Expenses	Unit	Quan	Rate	Cost
1	**Miscellaneous Expenses**	LS			$ 500.00
2	Mileage (Inspection)	mi	3200	$ 0.33	$ 1,161.60
3	Mileage (miscellaneous)	mi	2800	$ 0.33	$ 1,016.40
4	Pictures, video, etc.	LS			$ 250.00
5	Reproduction	LS			$ 3,500.00
6	Communications, etc.	LS			$ 500.00
7	Miscellaneous Survey Materials	LS			$ 250.00
		GRT	5.25%		**$ 376.85**
		DCA EXPENSES			**$ 7,554.85**

CH2M EXPENSES

CH2M MANAGEMENT SERVICES FOR ASAN-ADELUP-HAGATNA ROUTE 1 SEWERLINE REPLACEMENT, GWA PROJECT NO. S15-002-EPA REHABILITATION AND CONSTRUCTION					
		Unit	Quan	Rate	Cost
1	Travel expenses for CH2M CIPPSpec Site Visit		3	$ 3,000.00	$ 9,000.00
2	Lodging (28 days total)	Days	28	$ 215.00	$ 6,622.00
3	Meals	Days	28	$ 75.00	$ 2,310.00
4	Rental Car	Days	28	$ 50.00	$ 1,540.00
5	Misc. Expenses	Trip	3	$ 100.00	$ 330.00
	Subtotal				**$ 19,802.00**
		CH2M EXPENSES			**$ 19,802.00**

Exhibit C (4 of 9)

GUAM WATERWORKS AUTHORITY
CONSTRUCTION MANAGEMENT SERVICES FOR A SAN ANDELUP-HAGATNA ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT,
GWA PROJECT NO. S15-002-EPA

SCHEDULE A - BASE BID: CIPP

Task No.	Task Description		Principal In Charge	Construction Manager	Project Construction Manager	Resident Construction Inspector	Construction Inspector (Supplemental)	Civil Engineer (CM Support)	Staff Engineer (CM Support)	Engineering Technician (CM Support)	Chief Environmental Scientist	2-Man Crew	Chief Surveyor	Administrative Assistant (CM Support)	TOTALS	CH2M Project Manager (CM Support)	CH2M Project Engineer (CIPP QC Specialist)	CH2M Administrative Manager (CM Support)	TOTALS	Geo-Engineering & Testing (CM Support) Principal Geotechnical Engineer	Staff Engineer	Administrative Assistant	TOTAL
			Duenas, Camacho & Associates, Inc. (DCA)													CH2M				Geo-Engineering & Testing (CM Support)			
	Loaded 2018 DCA Labor Rates >>>>>	No.	$ 140.66	$ 100.30	$ 111.84	$ 73.83	$ 73.83	$ 126.71	$ 67.06	$ 86.00	$ 130.01	$ 100.30	$ 131.33	$ 71.09		$ 104.50	$ 180.90	$ 144.18		$ 179.00	$ 90.00	$ 88.99	
		Units																					
	CM SERVICES - TOTALS		90	285	1299	2571	707	338	156	100	76	144	48	403	$ 546,842.01	36	377	38	$88,548.25	22	0	0	$ 3,740.00
	CONSTRUCTION MANAGEMENT SERVICES																						
A.	General Construction Management Tasks		90	281	501	0	0	4	0	0	64	0	4	269	$ 140,368.74	16.3	165	16.5	$38,794.34	0	0	0	$ -
1	Project Controls		90	257	0	0	0	4	0	0	4	0	4	129	$68,329.09	12	17	12	$28,185.12				$0.00
2	Project Correspondence		0	0	129	0	0	0	0	0	0	0	0	0	$14,276.57	0	8	0	$0.00				$0.00
a	Daily Construction Log		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	8	0	$0.00				$0.00
b	Weekly Status Report		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
c	Material Testing Forms		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
d	Photo Log		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
3	Review & Processing of Payment Requests	15	0	0	60	0	0	0	0	0	0	0	0	15	$7,740.90	1.5	8	1.5	$3,523.14				$0.00
4	Conduct Project Meetings		0	0	60	0	0	0	0	0	0	0	0	8	$7,237.60	0	0	0	$0.00				$0.00
5	Pre-construction Conference		0	4	4	0	0	0	0	0	0	0	0	1	$1,157.28	0	0	0	$0.00				$0.00
6	Progress Meetings		0	0	30	0	0	0	0	0	0	0	0	15	$4,409.70	0	8	0	$0.00				$0.00
7	Other Meetings		0	0	10	0	0	0	0	0	0	0	0	6	$1,665.60	1	10	1	$2,348.71				$0.00
8	Project Coordination		0	0	10	0	0	0	0	0	0	0	0	3.0	$3,257.40	0	0	0	$0.00				$0.00
9	Requests for Information		0	0	30	0	0	0	0	0	0	0	0	0	$3,331.20	1.2	12	1.2	$2,818.51				$0.00
10	General Compliance Monitoring	15	0	0	30	0	0	0	0	0	30	0	0	15	$7,428.00	0	0	0	$0.00				$0.00
a	Regulations & Laws		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
b	Labor Laws		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
c	Licensure		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
d	Permits		0	0	0	0	0	0	0	0	30	0	0	0	$9,018.30	0	0	0	$0.00				$0.00
e	Insurance		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
11	Claims and Disputes		0	0	60	0	0	0	0	0	0	0	0	8	$7,237.60	0	8	0	$0.00				$0.00
a	Records		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	8	0	$0.00				$0.00
b	Claims		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	8	0	$0.00				$0.00
12	Stop Work Orders		0	0	15	0	0	0	0	0	0	0	0	6	$2,097.90	0	0	0	$0.00				$0.00
13	Schedule Monitoring		0	0	45	0	0	0	0	0	0	0	0	15	$6,076.80	0	0	0	$0.00				$0.00
14	Acceptance		0	0	18	0	0	0	0	0	0	0	0	13	$3,077.21	0.8	8	0.8	$1,879.01				$0.00
B.	Interpretations and Clarifications		0	2	15	0	0	0	0	0	12	0	0	12	$4,054.92	0	0	0	$0.00	8			$1,360.00
C.	Shop Drawings/Submittals (Review and Coordination)	60	0	4	120	0	0	80	120	60	0	0	0	60	$40,451.80	3	30	7	$4,697.52				$0.00
D.	Substitutes (Evaluation and Coordination)		0	4	30	0	0	0	0	0	0	0	0	0	$3,873.40	0.4	4	0.4	$939.50				$0.00
E.	Inspections & Tests		0	0	448	2571	643	32	0	0	0	0	0	64	$ 292,582.69	3.2	32	3.2	7516.031	8	0	0	1360
1	Resident Inspections		0	0	386	0	0	0	0	0	0	0	0	0	$43,829.71	0	0	0	$0.00	8			$1,360.00
a	Resident Inspector		0	0	0	2571	643	0	0	0	0	0	0	0	$234,417.86	0	0	0	$0.00				$0.00
b	Special Inspections		0	0	0	0	0	32	0	0	0	0	0	0	$4,358.72	3.2	32	3.2	$7,516.03				$0.00
2	Testing		0	0	60	0	0	0	0	0	0	0	0	60	$10,976.40	0	0	0	$0.00				$0.00
F.	Change Management	4	0	0	80	0	0	24	0	0	0	0	0	8	$ 12,152.24	0.8	8	0.8	$ 1,879.01	2	0	0	$ 340.00
1	Change Order Review		0	0	16	0	0	4	0	0	0	0	0	0	$2,321.48	0.2	2	0.2	$469.75	2			$340.00
2	Design Change		0	0	8	0	0	4	0	0	0	0	0	0	$1,433.16	0.2	2	0.2	$469.75				$0.00
3	Design Change Verification Request		0	0	16	0	0	4	0	0	0	0	0	0	$2,321.48	0.2	2	0.2	$469.75				$0.00
4	Negotiation with Contractor		0	0	16	0	0	4	0	0	0	0	0	0	$2,321.48	0	0	0	$0.00				$0.00
5	Change Order Documents		0	0	16	0	0	4	0	0	0	0	0	0	$2,321.48	0.2	2	0.2	$469.75				$0.00
6	Establish Change Order Pricing Bases		0	0	8	0	0	4	0	0	0	0	0	0	$1,433.16	0	0	0	$0.00				$0.00
G.	Construction Survey Services	12	0	0	12	0	0	0	0	0	0	144	144	0	$30,383.64	0	0	0	$0.00				$0.00
H.	Disputes (Handling and Resolution)		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00	4			$680.00
I.	Contractor Completion Documents		0	0	64	0	48	14	32	36	0	0	0	8	$ 17,407.26	2.2	22	2.2	$ 5,167.27	0	0	0	$ -
1	Substantial Completion		0	0	8	0	0	0	0	0	0	0	0	0	$888.32	0.8	8	0.8	$1,879.01				$0.00
2	Project Records		0	0	8	0	0	0	8	24	0	0	0	0	$2,981.60	0	0	0	$0.00				$0.00
3	Punch List Development		0	0	8	0	24	4	4	0	0	0	0	0	$3,334.12	0.6	8	0.8	$1,879.01				$0.00
4	Closing Inspections		0	0	16	0	8	4	4	0	0	0	0	0	$3,255.56	0.4	4	0.4	$939.50				$0.00
a	Agency Acceptance Inspections		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
b	Pre-Final Inspection		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
c	Final Inspection		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
5	Final Report		0	0	16	0	8	2	0	0	0	0	0	0	$2,832.56	0.2	2	0.2	$469.75				$0.00
6	Record Drawings		0	0	8	0	8	4	16	12	0	0	0	0	$4,115.16	0	0	0	$0.00				$0.00
J.	Commissioning and Startup		0	8	8	0	0	0	0	0	0	0	0	0	$1,529.52	0	0	0	$0.00				$0.00
K.	Training		0	4	12	0	16	4	4	4	0	0	0	8	$4,899.44	12	120	12	$21,183.12				$0.00
L.	Warranties		0	4	8	0	0	0	0	0	0	0	0	0	$1,529.52	0.4	4	0.4	$1,409.28				$0.00
M.	Spare Parts		0	2	4	0	0	0	0	0	0	0	0	0	$764.76	0	0	0	$0.00				$0.00

3:03 PM

4/20/18

Exhibit C (5 of 9)

Task No.	Task Description		Principal In Charge	Construction Manager	Project Construction Manager	Resident Construction Inspector	Construction Inspector (Supplementary)	Civil Engineer (CM Support)	Staff Engineer (CM Support)	Engineering Technician (CM Support)	Chief Environmental Scientist	3 Man Crew	Chief Surveyor	Administrative Assistant (CM Support)	TOTALS	CH2M Project Manager (CM Support)	CH2M Project Engineer (CWP QC Specialist)	CH2M Administrative Manager (CM Support)	TOTALS	Principal Geotechnical Engineer	Staff Engineer	Administrative Assistant	TOTAL
	Loaded 20% DCA Labor Rates >>>>>	No.	PRIN $ 182.50	CM $ 150.00	PCM $ 111.06	RCI $ 73.83	CI $ 73.83	CE $ 130.71	SCD $ 97.66	ET $ 54.00	CES $ 105.61	3M EC $ 180.00	RLS $ 121.73	ADM $ 71.90		$ 208.58	$ 180.90	$ 141.15		$ 170.00	$ 80.00	$ 60.00	
	Subconsultants		Expenses	Services	Totals	Reference																	
1	CH2M		$ 19,802.00	$ 88,548.25	$ 108,350.25	Exhibit A																	
2	GeoEngineering & Testing, Inc. (Consultation)			$ 3,740.00	$ 3,740.00																		
3	Secure Safe Solutions [months/cost/month]	13		$ -	$ -	Exhibit B																	
			Exhibit B, Op 3																				
	Subtotal - Subconsultants		$ 19,815.00	$ 92,288.25	$ 112,090.25																		
	Coordination & Handlin @		2.0%	$ 1,845.77	$ 2,241.81																		
	Subtotal - Subconsultants + DCA Handling			$ 94,134.02	$ 114,332.06																		

ADDITIONAL TIME & MATERIAL COSTS

Item No.	Category of Cost	Estimated Cost
1	QA Material Testing	$ 10,000.00

COST SUMMARY

DCA LABOR		$	546,042.01
DCA EXPENSES	Exhibit A	$	7,554.85
DCA	Subtotal	$	553,596.85
SUBCONSULTANTS	CH2M	$	108,350.25
	GeoEngineering & Testing	$	3,740.00
	Secure Safe Solutions	$	-
	Subtotal	$	112,090.25
	DCA Handling 2%	$	2,241.81
	GRT 5.25%	$	6,002.43
SUBTOTAL		**$**	**673,931.34**
QA Testing Time & Material Estimated		$	10,000.00

3:03 PM

4/20/18

DUEÑAS · CAMACHO

Website: www.dcaguam.com
Email: dca@dcaguam.com

Exhibit C (6 of 9)

April 23, 2018

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

Attention: **Mr. Thomas F. Cruz, Chief Engineer, GWA / George Watson, Brown & Caldwell**

Subject: **GWA RFP-04-ENG--2017, Construction Management Services for Asan-Adelup-Hagatna Route 1 Sewerline Rehabilitation and Replacement, GWA Project No. S15-002-EPA**

Re: *Revised* Fee Proposal Related to Bid Schedule B

Hafa Adai:

Duenas, Camacho & Associates, Inc. is pleased to submit this *revised* fee proposal for **GWA RFP-04-ENG-2017, Construction Management Services for Asan-Adelup-Hagatna Route 1 Sewerline Rehabilitation and Replacement, GWA Project No. S15-002-EPA.** The revisions address the following changes:

1. Fee estimate for CM Services under Base Bid Schedule B – Cut and Cover Construction of New Sewer Lines based on the projected Construction Contract Completion Period from 450 to **650** calendar days. **Fee Estimate: $870,610.41 including a $20,000 Time & Material allowance for Material Testing**
2. 2018 (current) DCA Personnel Labor and OH Rates
3. A GRT Tax Rate of 5% (recently enacted into law)

Our revised fee estimate for construction management services for Base Bid Schedule B is supported by the attached detailed fee breakdown showing an estimate of effort and expenses for a construction period of 650 calendar days and the *deletion* of Secure Safe Solutions for video surveillance (as requested by GWA). Geo-Engineering & Testing Inc. will provide geotechnical consultation and quality assurance material testing services.

The estimate of CM effort is based on the following assumptions for Base Bid Schedule B:

1. The Scope of CM services and tasks as described in the RFP;
2. Base Bid Schedule B as described in the amended Bid Form provided to DCA;
3. Revised projected construction duration of from 450 to 650 calendar days;
4. Full-time resident inspection and supplementary inspection of 50% of the resident inspection effort;
5. Current (2018) DCA personnel rates (loaded).

We look forward to negotiations.

Sincerely,

//Signed
JOHN P. DUENAS, P.E.
President

Enclosures

Exhibit C(7 of 9)

EXHIBIT A - BASE BID SCHEDULE B

DCA EXPENSES

DUENAS, CAMACHO & ASSOCIATES, INC CONSTRUCTION MANAGEMENT SERVICES FOR ASAN-ADELUP-HAGATNA ROUTE 1 SEWERLINE					
	CM Inspection Related Expenses	Unit	Quan	Rate	Cost
1	**Miscellaneous Expenses**	LS			$ 500.00
2	Mileage (Inspection)	mi	4650	$ 0.33	$ 1,687.95
3	Mileage (miscellaneous)	mi	3150	$ 0.33	$ 1,143.45
4	Pictures, video, etc.	LS			$ 250.00
5	Reproduction	LS			$ 3,500.00
6	Communications, etc.	LS			$ 500.00
7	Miscellaneous Survey Materials	LS			$ 500.00
		GRT	5.25%		**$ 424.27**
		DCA EXPENSES			**$ 8,505.67**

CH2M EXPENSES

CH2M CONSTRUCTION MANAGEMENT SERVICES FOR ASAN-ADELUP-HAGATNA ROUTE 1 SEWERLINE REHABILITATION AND REPLACEMENT, GWA PROJECT NO. S15-002-EPA					
		Unit	Quan	Rate	Cost
1	Travel expenses for CH2M CIPPSpec Site Visit		0	$ 3,000.00	$ -
2	Lodging (28 days total)	Days	0	$ 215.00	$ -
3	Meals	Days	0	$ 75.00	$ -
4	Rental Car	Days	0	$ 50.00	$ -
5	Misc. Expenses	Trip	0	$ 100.00	$ -
	Subtotal				$ -
		CH2M EXPENSES			$ -

Exhibit C (8 of 9)

Task No.	Task Description		Principal in Charge	Construction Manager	Project Construction Manager	Resident Construction Inspector	Construction Inspector (Geotechnical)	Civil Engineer (CM Support)	Staff Engineer (CM Support)	Engineering Technician (CM Support)	Chief Environmental Scientist	3-Man Crew	Chief Surveyor	Administrative Assistant (CM Support)	TOTALS	CH2M Project Manager (CM Support)	CH2M Project Engineer (CMPP QC Specialist)	CH2M Administrative Manager (CM Support)	TOTALS	Principal Geotechnical Engineer	Staff Engineer	Administrative Assistant	TOTAL
	Loaded 2018 OCA Labor Rates >>>>>	No	$ 182.86	$ 166.20	$ 111.84	$ 72.03	$ 72.03	$ 136.21	$ 87.66	$ 66.80	$ 100.81	$ 166.86	$ 125.33	$ 71.80		$ 206.58	$ 168.80	$ 141.18		$ 170.00	$ 90.00	$ 66.80	
	CONSTRUCTION MANAGEMENT SERVICES																						
A.	**General Construction Management Tasks**		110	375	738	0	0	14	0	0	91	0	4	327	$ 196,894.98	0	0	0	$ -	4	0	0	$ 680.00
1	Project Controls		130	371	0	0	0	4	0	0	4	0	4	186	$98,060.86	0	0	0	$0.00	4			$680.00
2	Project Correspondence		0	0	186	0	0	0	0	0	0	0	0	0	$20,621.73	0	0	0	$0.00				$0.00
a.	*Daily Construction Log*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
b.	*Weekly Status Report*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
c.	*Material Testing Forms*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
d.	*Photo Log*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
3	Review & Processing of Payment Requests	22	0	0	87	0	0	0	0	0	0	0	0	15	$10,701.97	0	0	0	$0.00				$0.00
4	Conduct Project Meetings		0	0	87	0	0	0	0	0	0	0	0	8	$10,198.67	0	0	0	$0.00				$0.00
5	Pre-construction Conference		0	4	4	0	0	0	0	0	0	0	0	1	$1,157.26	0	0	0	$0.00				$0.00
6	Progress Meetings		0	0	43	0	0	0	0	0	0	0	0	15	$5,890.23	0	0	0	$0.00				$0.00
7	Other Meetings		0	0	14	0	0	0	0	0	0	0	0	8	$2,179.11	0	0	0	$0.00				$0.00
8	Project Coordination		0	0	14	0	0	0	0	0	0	0	0	30	$3,760.91	0	0	0	$0.00				$0.00
9	Requests for Information		0	0	43	0	0	0	0	0	0	0	0	0	$4,811.73	0	0	0	$0.00				$0.00
10	General Compliance Monitoring	22	0	0	43	0	0	0	0	0	43	0	0	15	$10,250.00	0	0	0	$0.00				$0.00
a.	*Regulations & Laws*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
b.	*Labor Laws*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
c.	*Licensure*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
d.	*Permits*		0	0	0	0	0	0	0	0	43	0	0	0	$4,359.77	0	0	0	$0.00				$0.00
e.	*Insurance*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
11	Claims and Disputes		0	0	87	0	0	0	0	0	0	0	0	8	$10,198.67	0	0	0	$0.00				$0.00
a.	*Records*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
b.	*Claims*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
12	Stop Work Orders		0	0	22	0	0	0	0	0	0	0	0	4	$2,837.27	0	0	0	$0.00				$0.00
13	Schedule Monitoring		0	0	65	0	0	0	0	0	0	0	0	15	$8,296.10	0	0	0	$0.00				$0.00
14	Acceptance		0	0	22	0	0	0	0	0	0	0	0	15	$3,570.73	0	0	0	$0.00				$0.00
B.	**Interpretations and Clarifications**		0	2	22	0	0	0	0	0	12	0	0	12	$4,796.59	0	0	0	$0.00	8			$1,360.00
C.	**Shop Drawings/Submittals (Review and Coordination)**	60	0	4	120	0	0	60	120	60	0	0	0	60	$40,451.80	0	0	0	$0.00				$0.00
D.	**Substitutes (Evaluation and Coordination)**		0	4	43	0	0	0	0	0	0	0	0	0	$5,052.08	0	0	0	$0.00				$0.00
E.	**Inspections & Tests:**		0	0	617	3714	1857	32	0	0	0	0	0	960	$ 483,924....	0	0	0	0	24	0	0	4080
1	Resident Inspections		0	0	557	0	0	0	0	0	0	0	0	0	$61,865.12	0	0	0	$0.00	24			$4,080.00
a	*Resident Inspector*		0	0	0	3714	1857	0	0	0	0	0	0	0	$406,324.29	0	0	0	$0.00				$0.00
b	*Special Inspections*		0	0	0	0	0	32	0	0	0	0	0	0	$4,358.72	0	0	0	$0.00				$0.00
2	Testing		0	0	60	0	0	0	0	0	0	0	0	960	$10,976.40	0	0	0	$0.00				$0.00
F.	**Change Management**	4	0	0	80	0	0	24	0	0	0	0	0	0	$ 12,152.24	0	0	0	$ -	8	0	0	$ 1,360.00
1	Change Order Review		0	0	16	0	0	4	0	0	0	0	0	0	$2,321.48	0	0	0	$0.00	8			$1,360.00
2	Design Change		0	0	8	0	0	4	0	0	0	0	0	0	$1,433.16	0	0	0	$0.00				$0.00
3	Design Change/Verification Request		0	0	16	0	0	4	0	0	0	0	0	0	$2,321.48	0	0	0	$0.00				$0.00
4	Negotiation with Contractor		0	0	16	0	0	4	0	0	0	0	0	0	$2,321.48	0	0	0	$0.00				$0.00
5	Change Order Documents		0	0	16	0	0	4	0	0	0	0	0	0	$2,321.48	0	0	0	$0.00				$0.00
6	Establish Change Order Pricing Bases		0	0	8	0	0	4	0	0	0	0	0	0	$1,433.16	0	0	0	$0.00				$0.00
G.	**Construction Survey Services**	32	0	0	30	0	0	0	0	0	0	360	745	0	$68,572.45	0	0	0	$0.00				$0.00
H.	**Disputes (Handling and Resolution)**		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00	8			$1,020.00
I.	**Contractor Completion Documents**		0	0	64	0	28	14	32	36	0	0	0	0	$ 17,407.26	0	0	0	$ -	0	0	0	$ -
1	Substantial Completion		0	0	8	0	0	0	0	0	0	0	0	0	$888.37	0	0	0	$0.00				$0.00
2	Project Records		0	0	8	0	0	0	8	24	0	0	0	0	$3,981.60	0	0	0	$0.00				$0.00
3	Punch List Development		0	0	8	0	24	4	4	0	0	0	0	0	$3,534.17	0	0	0	$0.00				$0.00
4	Closing Inspections		0	0	16	0	8	4	4	0	0	0	0	0	$3,255.56	0	0	0	$0.00				$0.00
a	*Agency Acceptance Inspections*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
b.	*Pre-Final Inspection*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
c.	*Final Inspection*		0	0	0	0	0	0	0	0	0	0	0	0	$0.00	0	0	0	$0.00				$0.00
5	Final Report		0	0	16	0	8	2	0	0	0	0	0	0	$2,632.50	0	0	0	$0.00				$0.00
6	Record Drawings		0	0	8	0	8	4	16	12	0	0	0	0	$4,115.16	0	0	0	$0.00				$0.00
J.	**Commissioning and Startup**		0	4	8	0	0	0	0	0	0	0	0	0	$1,529.57	0	0	0	$0.00				$0.00
K.	**Training**		0	4	32	0	16	4	4	4	0	0	0	0	$4,688.44	0	0	0	$0.00				$0.00
L.	**Warranties**		0	4	8	0	0	0	0	0	0	0	0	0	$1,529.57	0	0	0	$0.00				$0.00
M.	**Spare Parts**		0	2	8	0	0	0	0	0	0	0	0	0	$764.78	0	0	0	$0.00				$0.00

Subconsultants	Expenses	Services	TOTAL	Reference
1 CH2M	$ -	$ -	$ -	Exhibit A
2 GeoEngineering & Testing, Inc. (Consultation)		$ 8,500.00	$ 8,500.00	

ADDITIONAL TIME & MATERIAL COSTS			
Item No.	Category of Cost		Estimated Cost

COST SUMMARY	
OCA LABOR	$ 832,979.66

8:00 AM

4/26/18

Exhibit C (9 of 9)

Task No.	Task Description		(Principal In Charge)	(Construction Manager)	(Project Construction Manager)	(Resident Construction Inspector)	(Construction Inspector (Representative))	(Civil Engineer (CM Support))	(Staff Engineer (CM Support))	(Engineering Technician (CM Support))	(Chief Environmental Scientist)	(3-Man Crew)	(Chief Surveyor)	(Administrative Assistant (CM Support))	TOTALS	(CH2M Project Manager (CM Support))	(CH2M Project Engineer (CHPP QC Specialist))	(CH2M Administrative Manager (CM Support))	TOTALS	(Principal Geotechnical Engineer)	(Staff Engineer)	(Administrative Assistant)	TOTAL
	Loaded 2018 DCA Labor Rates >>>>>	No.	$ 142.50	$ 160.38	$ 111.00	$ 73.93	$ 72.93	$ 136.31	$ 87.00	$ 80.00	$ 100.01	$ 100.00	$ 131.25	$ 71.00		$ 209.58	$ 189.90	$ 141.18		$ 170.00	$ 98.00	$ 80.00	
3	Secure Sale Solutions (months (cost/month)	13		$ -		$ -		Exhibit B										DCA EXPENSES		Exhibit A			$ 8,505.67
		E (Exhibit B, Op 3							1	QA Material Testing				$ 20,000.00				DCA		Subtotal			$ 841,485.33
																		SUBCONSULTANTS			CH2M	$ -	
	Subtotal - Subconsultants	$ 13.00		$ 8,500.00		$ 8,500.00														GeoEngineering & Testing	$	8,500.00
	Coordination & Handling @	2.0%		$ 170.00		$ 170.00														Secure Sale Solutions	$	-
	Subtotal - Subconsultants + DCA Handling			$ 8,670.00		$ 8,670.00														Subtotal	$	8,500.00
																				DCA Handling	2%	$	170.00
																				GRT	5.25%	$	455.18
																				SUBTOTAL		$	850,610.51
																				QA Testing Time & Material (Estimated)		$	20,000.00
																				TOTAL		$	870,610.51

8:00 AM

4/26/18

EXHIBIT B

DUEÑAS · CAMACHO & Associates Inc.

Website: www.dcaguam.com
Email: dca@dcaguam.com

November 6, 2020

Miguel C. Bordallo, P.E.
General Manager, Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam, 96913

Attn: John Riegel P.E., Brown & Caldwell Project Manager

Subject: **RFP 04-ENG-2017, GWA S15-002-EPA, Asan-Adelup-Hagatna – Route 1 Sewer Rehabilitation and Replacement**

Ref: **Change Order for Construction Management Services for the Asan-Adelup-Hagatna – Route 1 Sewer Rehabilitation and Replacement – Phase II**

Hafa Adai Mr. Riegel,

At the request of GWA, Duenas, Camacho and Associates (DCA) is submitting this change order proposal for the referenced services. This change order is intended to provide services for Phase II of the subject project in accordance with DCA's construction management services contract with GWA dated July 31, 2018. The construction duration used for this proposal is 425 calendar days. The fee for this change order proposal is**: $571,550.**

Sincerely,

Kenneth M. Rekdahl, P.E.
Vice-President
Dueñas, Camacho & Associates, Inc.

Att:
Fee Breakdown

	Task Description		Principal	Project Manager	Civil Engineer	Structural Engineer	Project Engineer	Environmental Engineer	Staff Engineer/Designer	Spec Writer	Cost Estimator	Engineering Tech	CAD Tech	Sr CAD Tech	Planner	GIS Specialist	Chief Environmental Scientist	Environmental Scientist	Construction Manager	Project Construction Engi	Inspector	Chief Surveyor	2-Man Crew	3-Man Crew	4-Man Crew	Surveyor	Assistant Chief Surveyor	Crew Chief	Computer	Carthographer	Instrument Man	Survey Tech	Survey Researcher	Survey Aide	Administrative Assistant	Secretary	
			PRIN	PM	CE	SE	PE	EE	SED	SPEC	CEST	ETECH	CAD	CAD3	PLNR	GIS	CES	ES	CM	PCE	INSP	RLS	2MSC	3MSC	4MSC	SUR	ASUR	SPC	COMP	CART	INSM	STECH	SVYRSR	SAID	ADM	TYP	Total
	Direct Labor Rates >>>>>	No. of Dwgs	$ 183.00	$ 149.00	$ 136.00	$ 172.00	$ 126.00	$ 115.00	$ 89.00	$ 134.00	$ 127.00	$ 57.00	$ 48.00	$ 59.00	$ 109.00	$ 82.00	$ 101.00	$ 89.00	$ 160.00	$ 112.00	$ 74.00	$ 114.00	$ 123.00	$ 161.00	$ 195.00	$ 115.00	$ 88.00	$ 61.00	$ 75.00	$ 67.00	$ 54.00	$ 58.00	$ 53.00	$ 34.00	$ 72.00	$ 67.00	
	Total Sheet Count and Effort >>>>	0	0	60	0	0	740	0	80	0	0	0	0	0	0	0	340	0	436	672	3046	0	0	64	0	0	8	0	0	0	0	0	0	0	0	$ 527,636.00
A.	**Pre Construction Services**		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	48	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$ 13,352.00
1	CM Plan																		24	24																	$ 6,528.00
2	QA Plan																		16	16																	$ 4,352.00
3	Bidding Support																																				$ -
4	Document Review																		8	8	4																$ 2,472.00
5																																					$ -
6																																					$ -
B.	**Construction Phase Services**		0	8	0	0	740	0	80	0	0	0	0	0	0	0	340	0	388	624	3042	0	0	64	0	0	8	0	0	0	0	0	0	0	0	0	$ 503,976.00
1	Project records and Document Control (Procore), Weekly	60		4					30																												$ 3,266.00
2	Daily Construction Reports, week	55		4															27.5	55																	$ 11,156.00
3	Progress Photo Logs, week	60																		60																	$ 6,720.00
4	Submittal, ea	15																	7.5	30																	$ 4,560.00
5	Shop Drawing review, day	15					60													15																	$ 9,240.00
6	Project Schedule (month)	18																	9	36																	$ 5,472.00
7	Payment Request, ea (month)	14																	14	84																	$ 11,648.00
8	Payroll Review, ea	14																		28																	$ 3,136.00
9	Project meetings, week	60																	90	120	30																$ 30,060.00
10	As built control, week	50							50																												$ 4,450.00
11	RFIs, ea	20																	20	80																	$ 12,160.00
12	mpliance monitoring, week 80% of duration	340					680										340																				$ 120,020.00
13	Claims and disputes																		40	80																	$ 15,360.00
14	Change order negotiation and review																		60																		$ 9,600.00
15	DCVR																		24																		$ 3,840.00
16	ion monitoring (days), 80% of duration X1.1	340																			2992																$ 221,408.00
17	Testing QA																		24																		$ 3,840.00
18	Acceptance																		40																		$ 6,400.00
19	Construction Survey services, daily saite visit	8																	8					64			8										$ 12,288.00
20	Project Closeout																		24	20	20																$ 7,560.00
21	Training and Warranty																			16																	$ 1,792.00
22																																					$ -
23																																					$ -
C	**Post Construction Services**	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$ 10,308.00
1	Final Report			24																																	$ 3,576.00
2	Record Drawings			12																																	$ 1,788.00
3	Closeout Meetings			16															16																		$ 4,944.00
4																																					$ -
5																																					$ -
6																																					$ -
7																																					$ -
9																																				Direct Labor	$ 527,636.00

	Subconsultants	DL	Fee
S.1	Conc/GEO Testing		$ -
S.2	TRMA		
S.3	CH2		$ -
S.4	EMCE (ESTIMATE)		$ -
S.5			
S.6			
S.7			
	Subtotal - Subconsultants	$ -	$ -
	Coordination & Handling @	5%	$ -
	Subtotal - Subconsultants + DCA Handling		$ -

	DCA Expenses	Unit	Quan	Rate	Cost
1	Procore Based on $6.0M Construction cost	1	1	$ -	$ 14,904.00
2	Mileage	1	10	$ 50.00	$ 500.00
3		1	0		$ -
4		1	0		$ -
5		1	0		$ -
6		1	0		$ -
7		1	0		$ -
8		1	0		$ -
9		1	0		$ -
10					
	Subtotal - Expenses				$ 15,404.00

COST SUMMARY

1	LABOR			$ 527,636.00
2	OVERHEAD @	Included		
3	SUBCONSULTANTS		Subtotal, Subconsultants+DCA Handling	$ -
4	Subtotal		Row 1 + Row 3	$ 527,636.00
5	PROFIT	Included		
6	EXPENSES		Expenses	$ 15,404.00
7	Subtotal		Row 4 + Row 6	$ 543,040.00
8	GRT	@ 5.25%		$ 28,509.60
			Total	$ 571,549.60
			Say	**$ 571,550**

PROCORE

Duenas, Camacho and Assocait

Option 1

Year 1

ACV: 4.2 million

Name	Price
Project Management Pro	$7,925
Quality & Safety	$2,510
Total	**$10,435**

Total Price: **$10,435**

$10,435/4.2 =
$2,484 per $1M
$2,484 X 6M =
$14,904

Option 2

FYI, this amount was if the contract was executed earlier this year

Year 1

ACV: 4.2 million

Name	Price
Project Management Pro	$6,700
Quality & Safety	$2,250
Total	**$8,950**

Total Price: **$8,950**

The pricing presented should be considered as non-binding budgetary pricing to be leveraged for modeling and scenario planning, and as such, is subject to formal approval before it can be considered final.

Procore Products

Connect the entire business process from bidding to closeout with every member of your team working together in the same system.

TOOLS INCLUDED WITH ALL PRODUCTS*

DIRECTORY
Everyone's digits, under the control of yours.

DOCUMENTS
When documents go digital, nothing gets lost.

APP MARKETPLACE
With over 150 partner solutions in our App Marketplace, connect with what works best for you—even if we don't build it.

TASKS
Track and manage every coordination-related step in your process.

REPORTS
Insights to help you analyze every detail.

* Excluding Invoice Management, Design Coordination and BIM.

PROJECT MANAGEMENT

Project Management Pro

RFIs
RFI software to remind, record, and remove excuses.

PUNCH LIST
Streamline construction with punch list software.

DAILY LOG
Capture everything you need to report to the office.

PHOTOS
Capture your questions, skills, and results in a snap.

DRAWINGS
Revisions won't need markers, scissors, sticky notes, or tape.

SPECIFICATIONS
Intelligent Spec Management—save time while doing more.

TIMECARD
Fast time tracking for the project management team.

SCHEDULE
Minimize confusion with integrated scheduling.

SUBMITTALS
Don't let inaccuracy sink your projects.

EMAILS
Open your inbox to everything you need to know.

MEETINGS
Manage all aspects of your project meetings.

TRANSMITTALS
Don't lose sleep over your important documents.

*Project Management Starter is also available - includes RFIs, Daily Log, Drawings, Punch List, Photos and Specifications.

PROCORE®

procore.com | 866 477 6267

The pricing presented should be considered as non-binding budgetary pricing to be leveraged for modeling and scenario planning, and as such, is subject to formal approval before it can be considered final.

PROJECT MANAGEMENT

Quality & Safety

INSPECTIONS
Proactively identify hazards before they injure more than your reputation.

OBSERVATIONS
Track, assign, and report upon multiple types of observations and corrective actions on the fly.

INCIDENTS
Digitally capture and manage incidents easily and accurately.

DAILY LOG
Capture everything you need to report to the office.

FORMS
Simple to complex fillable PDF forms at your fingertips.

SCHEDULE
Minimize confusion with integrated scheduling.

PHOTOS
Capture your questions, skills, and results in a snap.

Design Coordination

COORDINATION ISSUES
Identify and resolve constructability issues prior to construction.

BIM

MODELS
Extremely performant BIM viewer.

FINANCIAL MANAGEMENT*

Project Financials

COMMITMENTS
Real-time statuses and values of all contracts and purchase orders.

CHANGE EVENTS
The new standard in construction for managing potential costs as they occur.

BUDGETS
Avoid profit erosion with accurate, configurable budgets.

CHANGE ORDERS
Reduce unrecoverable change orders with quicker approvals.

PRIME CONTRACT
Replace stacks of paper and printing costs with digital contract management.

COST MANAGEMENT
Avoid the price of being over budget with cost management.

Invoice Management

OWNER INVOICING
Prefill owner invoices with approved subcontractor invoices.

SUBCONTRACTOR INVOICING
Empower the trades to be proactive about monthly invoices.

*Accounting Integrations available - additional fees apply.

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PRECONSTRUCTION

Prequalification

PREQUALIFICATIONS
Manage the entire qualification process from forms to approvals.

PREQUALIFICATION PORTAL
Complete and submit qualification forms on a secure online platform.

Bid Management

BIDDING
Manage the entire bidding process from bid package creation to bid award.

PLANROOM
Access bid package details, files, and communications in order to submit a bid.

RESOURCE MANAGEMENT

Field Productivity

TIMESHEETS
Track employee and crew time for all projects on mobile or web.

T&M TICKETS
Document and track out-of-scope work to get paid for everything you do.

CREWS
Add, group, and edit crews—with one mobile, flexible tool.

TIMECARD
Fast time tracking for the project management team.

PRODUCTION TRACKING
Compare budgeted versus actual quantities to see percentage complete against each cost code.

PLATFORM

Analytics

PROCORE ANALYTICS
Leverage Analytics to turn project data into business insight.

DATA EXTRACT
Extract and combine data from Procore and across your tech stack.

The pricing presented should be considered as non-binding budgetary pricing to be leveraged for modeling and scenario planning, and as such, is subject to formal approval before it can be considered final.

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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., September 22, 2020

MINUTES

1. CALL TO ORDER

The CCU Chairman called the September 22 , 2020 CCU Regular Meeting to order at 5:33 p.m. He said four [4[Commissioners were present for a quorum and that Comm. Sanchez was excused. Others in attendance include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis E. Santos	CCU Vice Chairman
Michael T. Limtiaco	CCU Secretary
Judith P. Guthertz	CCU Treasurer

Executive Mgmt.:

John Benavente	GM / GPA
Melinda Mafnas	AGMA / GPA
Tricee Limtiaco	AGMA / GPA
Chris Budasi	AGMA / GWA
John Kim	CFO / GPA
Taling Taitano	CFO / GWA
Graham Botha	Legal Counsel / GPA
Kelly Clark	Legal Counsel / GWA

Management & Staff:

Vien Wong	IT Support / GPA
Vlad Novasca	IT Support / GPA
Patti Diego	Communications / GPA
Ann Borja-Gallarde	Management Analyst IV / GWA Ex.Office
Lou Sablan	Board Secretary / CCU

2. APPROVAL OF MINUTES

The Minutes of June 23, 2020 was presented for approval.

Comm. Limtiaco motioned to approve the Minutes subject to verification and written correction second by Comm. Guthertz. There was no objection or discussion and the motion passed unanimously.

3. **PUBLIC COMMENTS - None**

4. **GWA**

4.1 GM Report

GM Miguel gave his usual GM Summary – highlights are noted below.

GWA Workforce availability as of September 11, 2020

Healthy	357	94.4%
Sick, not COVID-19 related	4	1.1%
COVID-19 Quarantined	2	0.5%
Employee diagnosed with COVID-19	1	0.3%
COVID-19 Medical Risk		0.0%
Military Leave	13	3.4%
LTD	1	0.3%
	378	100%

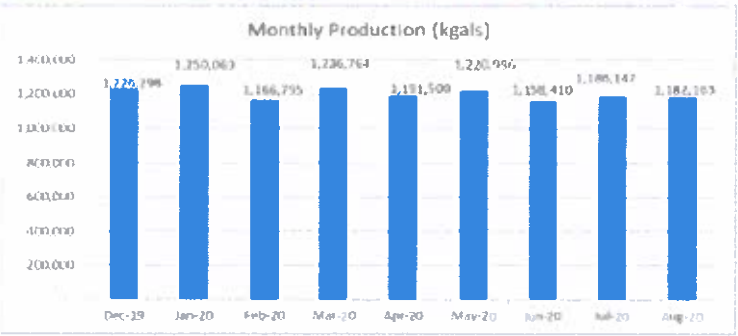
	Total	
Healthy/Reporting for duty at worksite	267	70.6%
Healthy/Reporting for duty - Part Teleworking and Part Reporting for duty at worksite	39	10.3%
Healthy/Reporting for duty - Teleworking	48	12.7%
Employee sick - symptoms unrelated to COVID-19	4	1.1%
Military Leave	13	3.4%
LTD/Workers Comp	1	0.3%
Employee wants to electively self-quarantine; status not considered vulnerable - does not report for duty	3	0.8%
Employee's direct exposure to a household member - COVID-19 confirmed case	1	0.3%
Employee diagnosed with COVID-19	1	0.3%
Employee's direct exposure to a household member being tested for COVID-19	1	0.3%
	378	100%

Operations Update

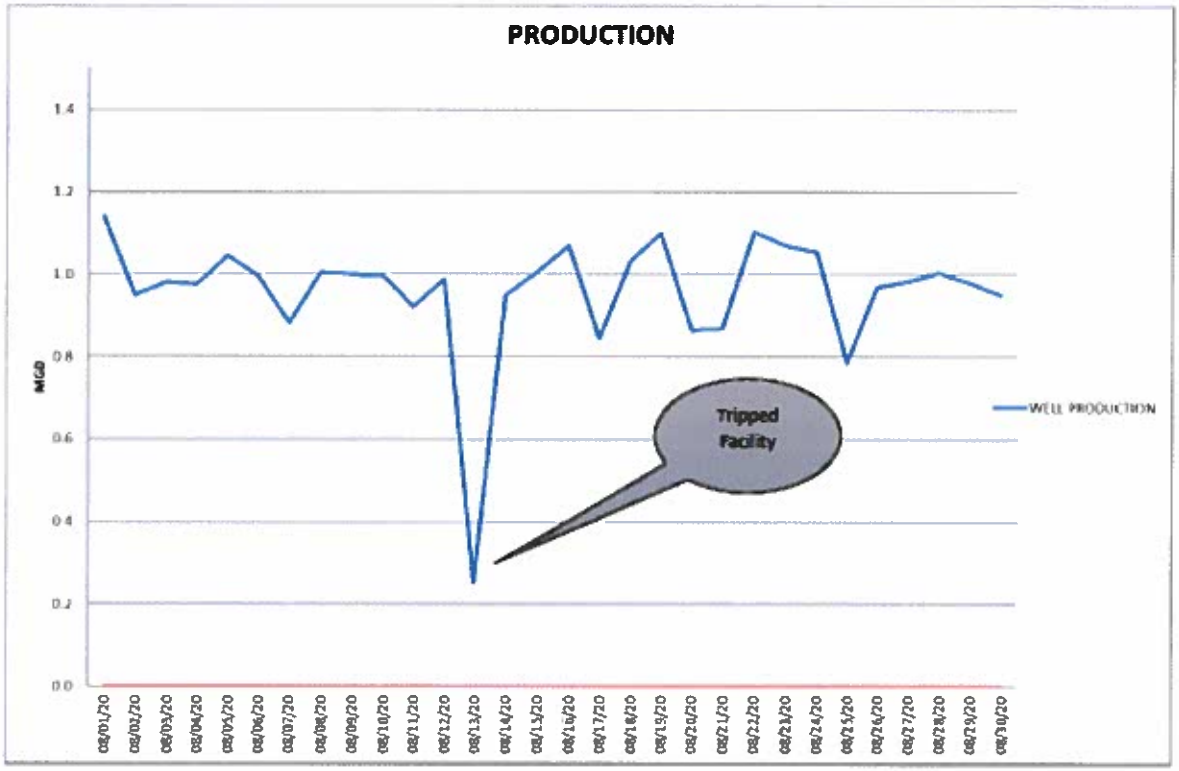
Production (August 2020)

Monthly Production Summary - August 2020			
Deep Wells		34.8	MGD
Active wells =	88 of 120		
Avg days in operation =	31 days		
Total Production =	1,078,387 Kgals		
Springs		0.18	MGD
Avg days in operation =	31 days		
Total Production =	5709 Kgals		
Ugum Surface Water Plant		2.2	MGD
Avg days in operation =	31 days		
Total Production =	68,309 Kgals		
Tumon Maui Well		0.96	MGD
Avg days in operation =	31 days		
Total Production =	29,758 Kgals		
	1,182,163 Kgals	38.1	MGD

DW Status as of 8/31/2020	
Active	88
Grounded motor or Pump Failure	8
Out of commission	8
Temporarily Secured	2
Standby	14
TOTAL	120



Tumon Maui Well Production (August 2020)

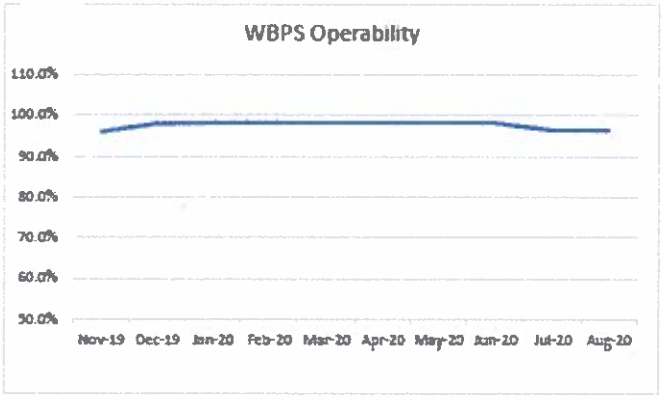


Distribution (August 2020)

Monthly Distribution Summary - August 2020

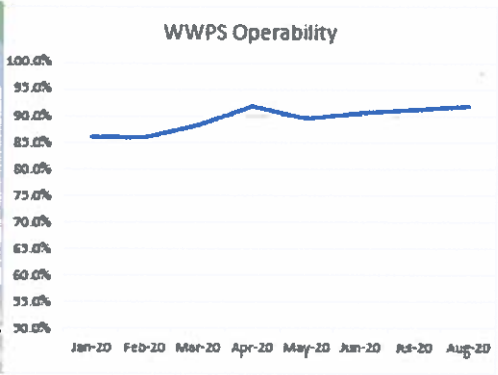
Water Booster Pump Stations

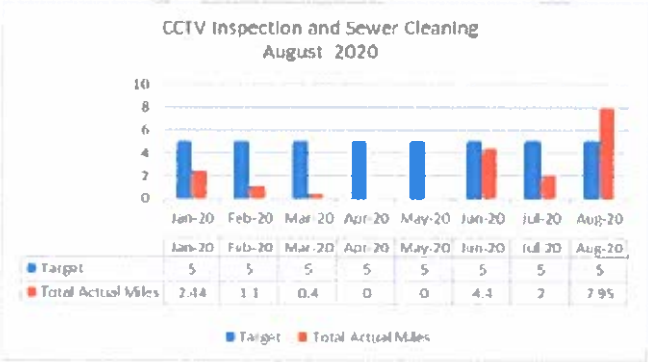
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	13	26	24	92.3%
	Central	7	15	15	100.0%
	Southern	7	15	15	100.0%
		27	56	54	96.4%



Wastewater Collections (August 2020)

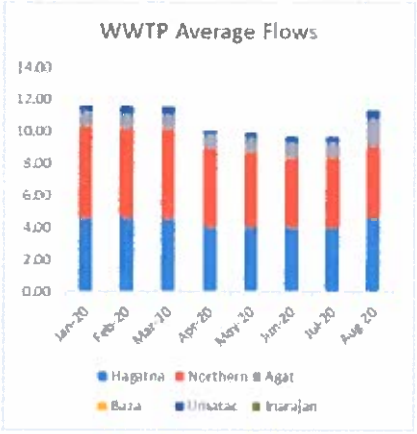
Monthly Collections Summary - August 2020					
Wastewater Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	47	90.4%
	Central	29	63	57	90.5%
	Southern	26	56	53	94.6%
		77	171	157	91.8%





Wastewater Treatment (August 2020)

Monthly Wastewater Treatment Summary - August 2020				
WW Treatment Plants - Flows				
	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. ($)
	Hagatna	4.56	264,940	$ 23,845
	Northern	4.5	661,740	$ 59,557
	Agat	1.8	20,680	$ 1,861
	Baza	0		
	Umatac	0.40		
	Inarajan	0.09		
		11.35	947,360	$ 85,263

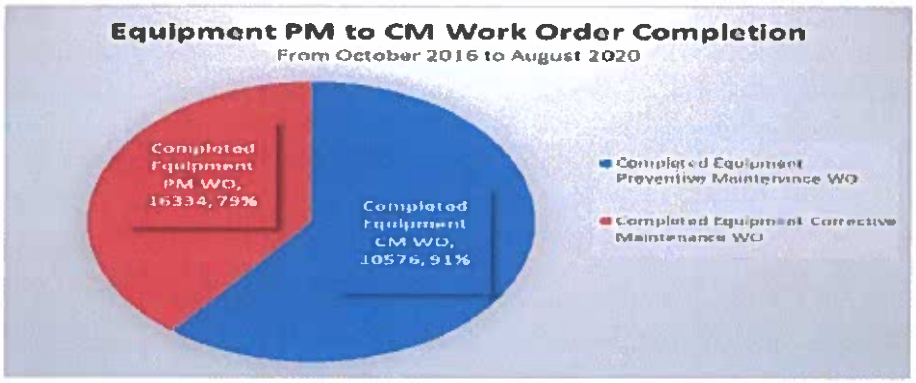


Asset Management (August 2020)

I. **Equipment Preventive Maintenance to Corrective Maintenance *Ratio***

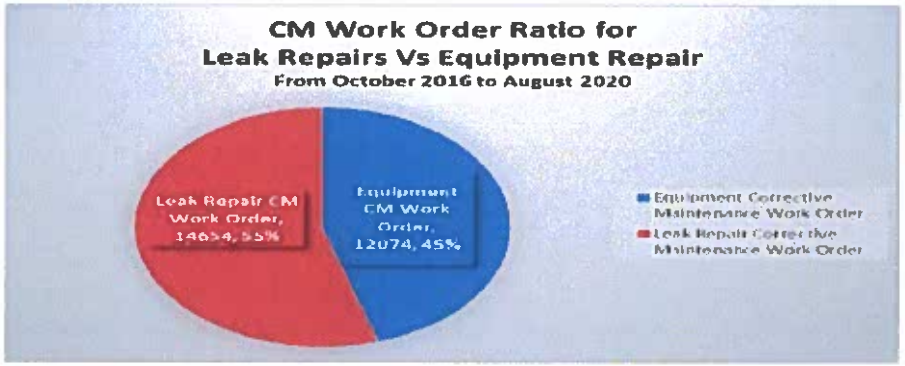


II. **Equipment Preventive Maintenance to Corrective Maintenance *Work Order Completion***

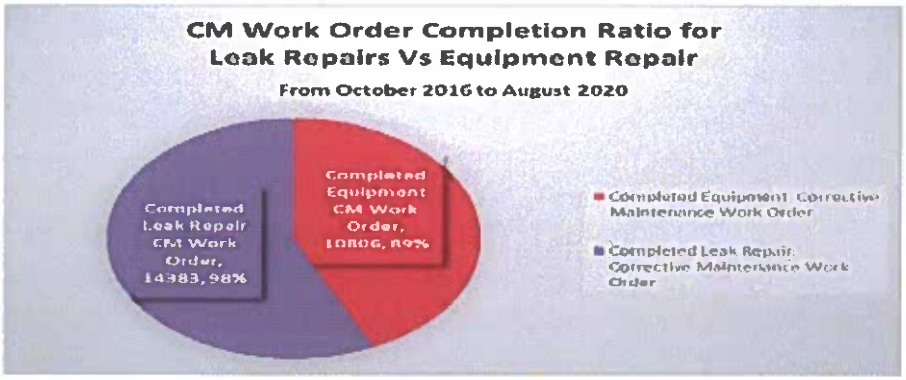


Asset Management (August 2020)

III. **Corrective Maintenance Work Order *Ratio* for Leak Repairs vs. Equipment Repair**

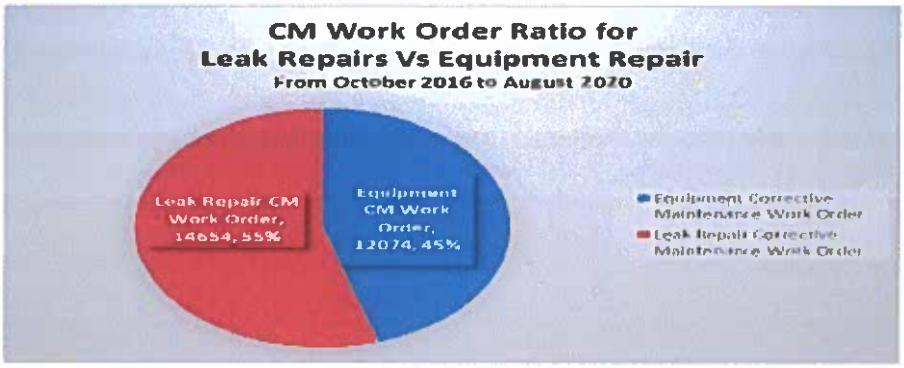


IV. **Corrective Maintenance Work Order *Completion* for Leak Repairs vs. Equipment Repair**

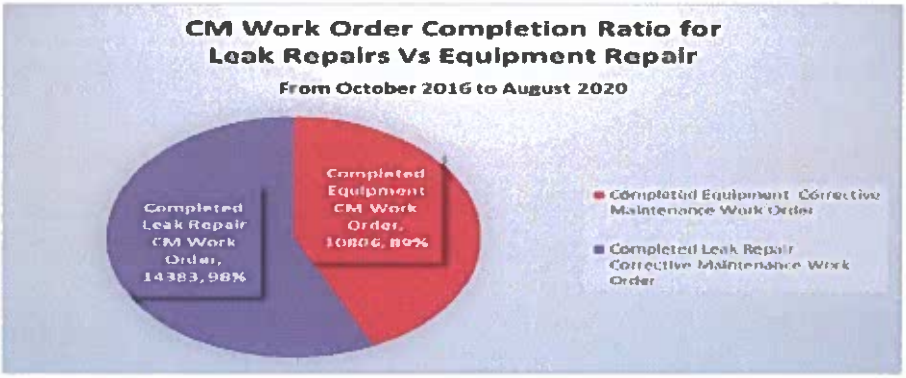


Asset Management (August 2020)

III. Corrective Maintenance Work Order *Ratio* for Leak Repairs vs. Equipment Repair



IV. Corrective Maintenance Work Order *Completion* for Leak Repairs vs. Equipment Repair



Backbilling through August 2020

Guam Waterworks Authority
Collections Report[1] on Accounts Backbilled thru August 31, 2020
For fiscal years 2015 thru 2020 (Aug)

Accounts Billed			Collection Status											
			Amounts Collected[1]			Amounts Adjusted			Total Uncollected (Active)			Total Uncollected (Inactive)		
FY Billed	No. of Accounts	Amount	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%
FY2015														
FY2016	17	$ 882	17	$ 882	100%	0	$ -		0	$ -		0	$ -	
FY2017	537	$ 397,450	462	297,758	75%	18	38,437	10%	31	35,336	9%	26	25,869	7%
FY2018	1,374	$ 742,109	1,199	559,140	75%	60	69,706	9%	67	71,743	10%	48	41,520	6%
FY2019	8,325	$ 3,064,384	7,511	2,091,485	68%	186	169,997	6%	401	694,204	23%	228	108,697	4%
FY2020	2,980	$ 903,704	2,158	355,973	43%	34	17,145	2%	742	483,903	54%	46	11,683	0%
Total	13,233	$ 5,108,529	11,347	$ 3,335,238	69%	297	$ 295,336	6%	1,241	$ 1,290,186	25%	348	$ 187,769	4%

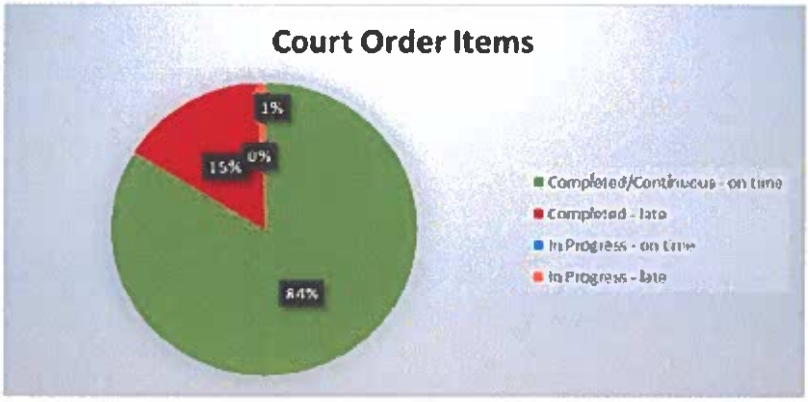
[1] Collections thru September 9, 2020

One Guam Update (August 2020)

- Tumon Maui Well
  - Quarterly inspection - awaiting lab results
    - New log book for GPA generator maintenance placed at TMW for easy verification during inspections.
  - DOD unable to locate missing keys for property adjacent to St John's.
    - GWA was given permission to cut the locks, replace with their own, and provide Navy with a copy of the keys.
  - GWA and DoD in discussions on next steps when license renewals expire.
- 02-AG1
  - Fence proposal update (for independent GWA access to well)
    - GWA identified crew and equipment to locate water lines.
  - GWA and DoD in discussions on modification of license production rates
    - license allowance is 5M gallons/month (~115 gpm)
    - Permitted capacity is 7.6M gallons/month (~174 gpm)
    - Andersen will look at modifying the license.
- 04-OEA Projects
  - Observation Wells/NGLA
    - No update on TCEs.
    - Maria requested cost breakdown by well from WERI and USGS to develop the MOU for annual cost for monitoring and maintenance for the DOD wells.
- 05-Interagency Utility service agreement
  - GWA and DoD met to discuss how to move forward.
- 07-Property Transfers
  - Transfer of Navy Laterals at Murray Road to GWA – no update.
- 30-Other
  - Marine Corps Base – Forest Enhancement Irrigation (FEI)
    - Updated water requirements were received.
    - GWA to determine methods of delivery available.
  - Umatac / Cetti Bay Easement
    - GWA Legal to move forward on determining in-kind request options.
  - Intergovernmental Service Agreement / Bulk Water Sales
    - Maria met with Miguel to begin the process.

Court Order Summary (August 2020)

	Total Items	On-time Items Completed / Continuous	In Progress - late	Completed - Late	In Progress - on time	Performance %
Court order total	93	78	1	14	0	98.90%



	Court Order Items	%	Performance (on-time or completed)
Completed/Continuous - on time	78	84%	
Completed - late	14	15%	
In Progress - on time	0	0%	
In Progress - late	1	1%	98.9%
Totals	93	100%	

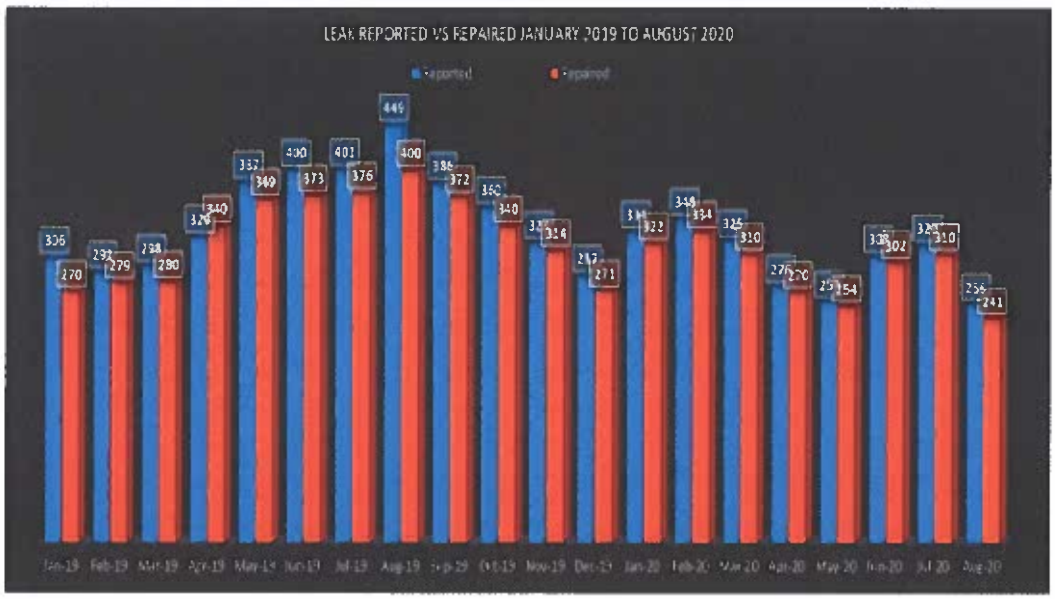
Court Order – Status Information (August 2020)

- 1 item delayed - The Court Order is down to one item remaining, § II, (C), (29) – Storage tank Repair. Restoration, Replacement or Relocation – which is the item that will take longer than the "end" of the court order. That makes us 98.9% done with the CO.
- Final Date to complete all Court Order items will be delayed past December 31, 2020.
  - CO 29(b) has been expanded by 31% beyond the original Court Order Requirements
  - General Counsel is drafting filing for submission to District Court
  - Additional impact resulted from delay of 2020 Bond issuance and there is also delay due to COVID-19 impacts
- Overflow or Bypass events reported to USEPA:
  - 8.27.20 - Vietnam Veterans Highway, Barrigada - sewer overflow SSO #220 - rain
  - 8.27.20 - Chalon Canton Tasi, Hagatña - sewer overflow SSO #221 - rain
  - 8.13.20 – Limtiaco Street, Asan - #210 - contractor pump capacity, insufficient - rain
  - 8.31.20 – Mendioka Street, Dededo - SO#230- manhole overflow - FOG
  - 9.05.20 - 209 Chalan Guagua, Dededo - sewer overflow SSO #232 – FOG
  - 9.05.20 - 132 Taigigao Street, Agaña Heights - sewer overflow SSO #235 – FOG
  - 9.07.20 - 136 Tun Justo Dungca Street, Tamuning - sewer overflow SSO#233 – FOG

Land Acquisition Summary (August 2020)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo	Gov't. - CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. Follow up update status request emailed to DLM 05/14/2020.
	Piti	Private	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 form.
	Airport	Private	Email response from property owners on GWA offer letter, pending review from family attorney 09/01/2020.
Deep Wells	AG-12	Dept. of Agriculture/Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2nd follow up sent on 09/12/18. 3rd follow up sent on 04/10/19. Retracement Survey Property Map filed and recorded at DLM 7/10/19.
Booster Pump Station	Agfayan	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19.
Asan Springs	Asan	Federal	In order for NPS to issue a land ROW agreement with GWA, NPS has to complete NEPA first. GWA has HDR under contract to perform this work and an Environmental Assessment will be developed. The permit for the biological survey was submitted on 6/12/2020 and is currently still in the hands of NPS. NPS is waiting to confirm with USFWS on the threatened and endangered species that are of concern at the project location. They are just waiting on USFWS confirmation.

Comparison of Leaks Reported vs. Leaks Repaired (August 2020)



4.2 Financials

CFO Taitano submitted the following financial update:

In response to the jump in cases in July and August, the Governor issued Executive Order (EO) 2020-27 on August 16 placing the island back in PCOR 1 for two weeks, closing essential businesses and restricting public access to government agencies. On August 27, the Governor issued EO 2020-29, continuing the stay at home order on a modified basis while allowing the GPWA drive thru's to open as well as public access to customer service lobbies. Subsequent EOs have extended the stay at home order to September 18th. Operations employees have continued to report to work, while most other employees are teleworking.

Using social media, GWA continues to encourage customers to conduct business online or via the phone. GWA also joined the *Going Online Together* campaign in June with several other organizations. Additionally, GWA has launched an automated customer service online support portal on its website.

Payments made online, on the mobile app, and over the phone increased as a percentage of total payments from 33% in June to 41% in August. Payments made at our facilities decreased as a percentage of total payments from 47% to 31%.

Collections appeared to return to pre-pandemic levels in June but have declined in July and August; August collections were more than $1M less than July. The closure of our cashiers' operations for a week after the PCOR 1 declaration likely influenced the decrease.

On April 28th, CCU Resolution 24-FY2020 granted the lifting of credit card limits on payments for non-residential accounts. Below is a summary of payments made and related fees exceeding the limit.

Month	Customer Count	Amount Paid	Fees	% of Fees to Payments
May 2020	18	$22,011	$543	2.46%
June 2020	21	$34,919	$702	2.01%
July 2020	35	$53,191	$1,069	2.01%
August 2020	32	$59,558	$1,197	2.01%

Year to Date consumption is slightly lower than last year (water consumption -1%, wastewater consumption 0%) and August 2020 consumption dipped below August 2019 (water consumption -3%, wastewater consumption 0%). Increases in residential demand continue to be offset by reductions in commercial demand. We continue to monitor bills as they drop to determine the impact of the closing of the economy. Visitors from low risk countries will not be quarantined if they stay less than 5 days. However, with the increase in COVID cases, their home countries may not be willing to ease quarantine requirements on their return.

Schools continue to remain closed during PCOR 1. This impacts demand as GDOE has been one of GWA's top ten customers for both water and wastewater services. See Schedule K for Water Demand for FY2015 to FY2020.

As revenues are monitored, the cost containment plan continues to be also adjusted as needed. While sufficient cash reserves are in place, management will continue to assess the situation and make any course corrections required to ensure continuity of services to our customers while keeping the safety of our staff the highest priority.

GWA refunded a portion of its Series 2013 Bonds and issued Series 2020B on August 26, 2020. The average coupon of the refunded bonds was 5.48% versus the average coupon of the new bonds at 3.61%. The net present value of savings is $11.9 million. GWA will save almost $1.5M in debt service in the first year and almost $1.9M annually between 2022 and 2027.

Balance Sheet

- Total Assets & Deferred Outflows of Resources of $915.7M in September 2019 grew by $195M or 21% to $1.1B in August 2020 largely due to funds from the sale of bonds. Current Assets decreased by $5.9M, Property, Plant and Equipment increased by $66.9M, and Other Noncurrent Assets increased by $114.9M. Schedule G contains a schedule of restricted and unrestricted cash and investments.
- Liabilities & Deferred Inflow of Resources of $714.2M in September 2019 similarly increased by $143.4M or 20% to $857.6M in August 2020 primarily due to the bond sales, increasing Long Term Debt by $157.3M.
- Accounts Receivable days were 49 in August 2020 as compared to 50 in September 2019 and Accounts Payable days were 32 in August 2020 as compared to 38 in September 2019.

Statement of Operations and Retained Earnings

- Note that the budget was adjusted to reflect the forecast adopted in the Series 2020B Official Statement.
- Total Operating Revenues for August 2020 of $8.4M were 5% or $474K less than budget and 10% or $911K less than August 2019 due to the impact of the COVID-19 public health emergency and offset by the 5% increase effective in March.
- Year to Date Operating Revenues as of August 2020 of $97.5M were about the same as budget or $258K more than budget and were $4.8M or 5% less than last year.
- Total Operating Expenses for August 2020 of $6.9M were $169K or 2% below budget. Total Operating Expenses for August 2020 were 8% or $591K less than August 2019 with decreases in most expense categories except for depreciation and retiree benefits.
- Year to Date Operating Expenses at August 2020 of $78.8M were $436K or 1% less than budget. Year to Date Operating Expenses at August 2020 were $1.7M or 2% more than last year's $77.1M mainly due to increases in Depreciation compared to the prior year.
- Earnings from Operations for August 2020 of $1.4M were 18% or $304K less than budget and 18% or $320K less than August 2019. Change in Net Assets for August 2020 of $5.2M were $2M more than the $3.2M budget mainly due to $4M more in Grants and $2.4M more than August 2019 due to $5.9M more in Grants offsetting the $3.2M decrease in Non-operating Revenues and Expenses.

- **Year to Date Earnings from Operations as of August 2020 of $18.7M were 1% or $178K less than budget and 26% or $6.5M less than YTD Earnings as of August 2019. Year to Date Change in Net Assets as of August 2020 of $51.6M were $16.4M or 47% more than budget mainly due to $19.9M more in Grants than projected. Year to Date Change in Net Assets as of August 2020 were $17.4M or 51% more than YTD as of August 2019 mainly due to $43.1M more in Grants and $12.7M less in AFUDC and $3.3M less in interest income.**

Key Financial Indicators

Indicator	Target	July 2020	August 2020
DSC YTD			
• Per Section 6.12 of Indenture	1.25	1.30	1.33
• Per PUC / CCU	1.40	1.30	1.33
YTD Month to Month Change in Net Assets		23%	13%
Days – Cash on Hand	120 days	296 days	291 days
Collection Ratio			
• Month to Date	*99%	101%	89%
• Year to Date	*99%	98%	98%
Days Billed	30	31	31
Account Receivable Days	*30	48	49
Account Payable Days	45	37	32
Employee Count	400 FTE	382 FTE	381 FTE
Water Demand			
• Month to Date	467,615	487,510	473,988
• Year to Date	3,740,923	4,794,023	5,268,011
Wastewater Flow			
• Month to Date	382,224	337,787	331,167
• Year to Date	2,775,095	3,394,712	3,725,878
Water Customers	42,724	42,904	42,992
Wastewater Customers	29,604	29,684	29,551

*Updated to reflect targets in Levels of Service

4.3 Resolution 36-FY2020 Relative to Approval of Amendment for the Indefinite Delivery/Indefinite Quantity Professional Project/Construction Management Services Contract for Task Order No. 7 Consent Decree and Hydraulic Modeling Assistance

GWA currently has an IDIQ contract with Brown and Caldwell. This Task Order would be added to the IDIQ Contract to provide technical input needed to complete the ongoing Consent Decree negotiations with the USEPA. The technical expertise is primarily required to define the criteria that will be used for the exiting capacity evaluations and for future expansion requirements for the wastewater collection system including the gravity sewer pipelines, pump stations and force mains. This work will also include updating of the existing wastewater collection system hydraulic models and calibration of the models for wet weather conditions.

Since the current USEPA negotiations are in progress the Consent Decree assistance is needed now. Also, since the hydraulic model analysis requires wet weather data that needs to be collected this wet season, work is needed to start on this component of the Task Order as well. The work anticipated under this task order will also include some work that is anticipated to be required under the expected Consent Decree later this year.

This Task Order will provide information exchange and a collection system Capacity Evaluation Report. The Consent Decree and hydraulic modeling work cover all of Guam. There are no construction activities associated with this Task Order.

The cost for this task Order No.7 is $325,750.00 with a 10% contingency of $32,575.00 for a total amount of $358,325.

The current authorized IDIQ contract amount is $1,742,860.00 that includes $166,231.00 not yet allocated to a Task Order. Task Orders issued to date include:

- Task Order 1 for the Consulting Engineers Report
- Task Order 2 for Project Management of the Route 4 Sewer Rehabilitation Project
- Task Order 3 for Project Management of the Route 1 Asan-Adelup Sewer Rehabilitation Project
- Task Order 4 for Project Management of the Southern SSES Sewer Project
- Task Order 5 for the Cost of Service Study
- Task Order 6 for Water Meter Technical Assistance

An additional $192,094.00 will be added to the IDIQ Contract to cover the Task Order 7 scope and a 10% contingency that will increase the IDIQ Contract amount to $1,934,954.00 and the funding source will be from GWA bonds and internally generated funds.

The Consent Decree assistance is anticipated to be complete by December 31, 2020 and the hydraulic modeling assistance work is anticipated to be completed by September 30, 2021.

Comm. Guthertz motioned to approve Resolution 36-FY2021 second by Comm. Limtiaco. There was no further discussion or objection and the motion passed 4 ayes and 1 absent.

4.4 Resolution 39-FY2020 Relative to Approving an Increase in Funding for the Tumon No. 2, Hyundai, Chaot No. 2 Tank and System Upgrades CM Services Contract

The project is part of the 2011 Court Order Paragraph 29 – Storage Tank/Reservoir Repair, Replacement, and Relocation Program. As a Court Order project, it is necessary and urgent to work towards meeting the Court Order deadlines. The project's objective is to provide construction management services for the construction of the Tumon No. 2, Hyundai, and Chaot No. 2 tanks and related distribution system upgrades, which include Hyundai booster pump station, transmission and distribution water lines for the Hyundai-Barrigada Heights area, St. John's PRVs, San Vitores PRVs, Dero Rd PRV, SCADA upgrades, chlorination upgrade at the Chaot and Agana Heights chlorination buildings and A-Series wells.

The objective of this Construction Management (CM) contract is to oversee and manage the construction of the work described above. The CCU authorized the initial CM contract in October 2017. The construction contractor was issued a Notice to Proceed on February 07, 2018 to begin work at the Tumon No. 2 and Hyundai tank and Chaot offsite work.

Change Order No. 1 was issued to the construction contractor on January 16, 2019 to include the construction of the Chaot No. 2 tank, Hyundai booster pump station, an 8-in and 12-in transmission and distribution line for the Hyundai-Barrigada Heights area.

Due to various delays in the construction work, the construction has been extended to February 2021. The main delays are the following:

1. Construction permit and highway encroachment permit delays for each individual site, which include the Marine Corps Drive waterline work, St. John's PRVs, San Vitores PRVs, Dero Road PRVs, and Hyundai-Barrigada Heights Sabana Road waterline work, and A-series well work;
2. COVID-19 pandemic delays, which include work shutdown, contractor staffing hold ups, and permitting agency (DPW) shutdown;
3. Inaccurate as-builts and record drawings for Marine Corps Drive and Hyundai-Barrigada Heights water lines, which led to GWA and Contractor troubleshooting the system and changes in design to accommodate for actual site conditions;
4. Design changes initiated by GWA for the Hyundai Booster Pump Station, additional SCADA work at all sites, and modification to the chlorination system at the Chaot and Agana Heights central chlorination buildings and A-series wells;

The original RFP for the CM services included all sites. The scope and fee were negotiated for only Tumon No. 2 and Hyundai tank and Chaot offsite work matching the Contractor's original contract. The CM services construction work performance period was from February 07, 2018 to April 7, 2019.

In order to reduce costs, GWA required the CM to adjust staffing without increasing the CM fee to cover the Chaot No. 2, Hyundai booster pump station, and waterline work. The adjustment covered the CM work for an additional 6-month period and allowed GWA to enter into negotiations with the CM last year to continue services to completion. The CM's original proposal included a fee for the work at Chaot No.2, which was not authorized at the time of CM contract issuance. GWA asked the CM to revisit this proposed amount, and include the additional work to match the construction contractor's scope. While negotiations were ongoing, the CM worked under the adjusted staffing levels and has nearly exhausted the original contract amount. The negotiations went through several iterations, over $200,000 in reductions and was agreed upon at $1,260,592.95 as detailed in Exhibit B.

A change order is required to continue the construction management construction phase services through to completion of the expanded construction scope.

Tumon No. 2 Reservoir

The existing steel reservoir will be replaced with a new concrete reservoir (1.0 MG). The work will also include upgrading three PRVs on Pale San Vitores Road and Marine Corps. Drive.

Tumon No. 2 is located off Marine Corps. Drive next to the Nissan dealership.

Hyundai Reservoir

The existing steel reservoir will be replaced with a new concrete reservoir (1.0 MG). The work will also include a new booster pump station at the reservoir site and water line upgrades in the surrounding service area.

Hyundai is located at the top of Barrigada Heights off of North Sabana Drive.

Chaot Reservoir

A new reservoir (0.5 MG) will be constructed adjacent to the Chaot No. 1 reservoir (0.5 MG). This will bring the capacity of the site back to 1.0 MG. The A-series wells that feed the Chaot and Agana Heights system will be disconnected from the distribution line; making the wells feed directly to the Sinjana-Agana Heights transmission lines. The chlorination systems at the central chlorination building will be modified. The Dero Road PRV will be rehabilitated.

Chaot No. 2 is located at the end of Dero Road. The A-series wells are located along Route 8.

Relative to cost, TGE's current contract is $1,954,089.00; TGE's change order no. 1 fee proposal is $1,260,592.95 and there is $195,408.90 contingency available in the current authorization. GWA is requesting $1,065,184.05 to supplement the available contingency to bring the available funding to $3,214,681.95. The funding source is from the Water System Reservoirs 2005 Improvements. The project completion is estimated for February 21, 2021.

Comm. Guthertz motioned to approve Resolution 39-FY2021 second by Comm. Limtiaco

In discussion Comm. Limtiaco asked if there was an additional 10% contingency on the cost and GM Bordallo said yes.

On the motion there was no further discussion or objection and the notion passed 4 ayes, 1 absent.

4.5 Resolution 40-FY2020 Relative to Approving an Increase in Funding for the Pressure Zone Realignment Construction Phase I Project

The project is part of the Guam Waterworks Authority's Master Plan as developed by Brown and Caldwell. The project's objective is to install (i.e. repair, rehabilitate, replace, relocate, or develop) pressure regulating or sustaining valves and their appurtenances in strategic locations to improve areas with inadequate service pressures and to develop defined pressure zones throughout the island.

Site construction has not started due to construction permitting and COVID-19 pandemic delays. The COVID-19 pandemic forced certain permitting agencies to halt permit review from March to June 2020. The building permit review process is still ongoing and approval is expected within the coming weeks.

While the permit has been pending, the urgency of improving the service pressure within zones affected by the additive bid PRV locations has become more pressing, thus urging us to award the additive bid work.

There are seven sites in this project's base bid: Carnation PRVs, Marbo PRVs, Okkodo PRV, Ysengsong PRV, Clara PRV, Kaiser Bypass PRV and Kaiser PRV (both near GWA Kaiser Reservoir), and electrical work at Yigo and Astumbo Reservoirs. All sites are located within the villages of Yigo, Dededo, and Mangilao. There are **two additive bid** sites that we are requesting funding to award: Terao PRV in Mangilao and Maimai PRV in Chalan Pago/ Ordot.

SMCC's cost estimate for the two sites is $962,000 and includes the following:Contractor furnishing all labor, tools, equipment and material necessary to complete the construction of Terao PRV(s) and Maimai PRV(s) to include but not be limited to: traffic control, demolition of current vaults and piping, construction and installation of meter vault(s) and meter device(s) with all necessary piping and appurtenances, construction and installation of PRV vault(s) and PRV(s) with all necessary appurtenances,

installation of electrical systems and SCADA instrumentation, and site and pavement restoration under the provision of the bid documents and in accordance with applicable GWA standards.
There is $412,000 of contingency available in the current authorization. GWA is requesting $550,000 to supplement the available contingency plus an additional contingency of $467,000.00 to replenish available contingency, bringing the total authorized funding to $5,549,000.00. Funding sources will be the Water Audit Program, the Master Metering Program and the USEPA Grant. The project completion is estimated at 365 days from the notice to proceed.

Comm. Limtiaco motioned to approve Resolution 40-FY2020 second by Comm. Santos. There was no further discussion or objection and the motion passed 4 ayes 1 absent.

4.6 Resolution 41-FY2020 Approval of Contract for Construction of Northern Guam Lens Aquifer (NGLA) Monitoring System Rehabilitation Project for the Guam Water and Wastewater Infrastructure Improvement Projects, Project No. W20-002-OEA

The ten (10) monitoring wells to be rehabilitated are located in various locations in Northern Guam, including the villages of Dededo, Barrigada, Chalan Pago, and Mangilao and used to monitor water level and other groundwater characteristics of the NGLA. This project is necessary to ensure GWA, in partnership with WERI and USGS, can continue to monitor the NGLA under its Comprehensive Water Monitoring Program, and the effects of increased water supply demand resulting from the relocation of U.S. Marines and their dependents to Guam to ensure a sustainable NGLA. The intent of this project is to perform rehabilitation activities on each monitoring well that will help prolong the life of each facility. The rehabilitation activities include the construction of new concrete structures, casing material upgrades, providing new wellhead enclosures and improvements. Additionally, since this project is funded by a U.S Department of Defense, Office of Economic Assistance (OEA) Grant, the project needs to be completed before the Grant deadline.

The cost of this construction contract is $965,204.04 with a 5% contingency of $48,260.20 for a total amount of $1,013,464.24 funded by OEA General Assistance Grants. Project completion is no later than August 31. 2021 Bids were received by ProPacific Builders Corporation and HDCC Guam.

GM Bordallo said that 52% of the total funding is grant funds.

Comm. Guthertz motioned to approve Resolution41-FY2020, second by Comm. Santos. There was no further discussion or objection and the motion passed. The vote was 4 ayes, 1 absent.

4.7 Resolution 42-FY2020 Approval of Contract for Construction of Northern Guam Lens Aquifer (NGLA) Monitoring System Expansion Project for the Guam Water and Wastewater Infrastructure Improvement Projects, Project No. W20-002-OEA

If approved Resolution 42-FY2020 will expand the ability to monitor and protect the NGLA through constructing seven (7) new monitoring wells in sub-basins of the aquifer for which there is very limited groundwater data available, and rehabilitate two (2) existing wells for the purposes of monitoring the water level and other groundwater characteristics of the NGLA. This project is necessary to build a more complete model of the NGLA and monitor the effects of increased water supply demand resulting from GWA's production and the relocation of U.S. Marines and their dependents to Guam to ensure a sustainable NGLA. General project activities include the construction of new concrete structures, well development, casing material upgrades, providing new wellhead enclosures and improvements.

Additionally, since this project is funded by a U.S Department of Defense, Office of Economic Assistance (OEA) Grant, the project needs to be completed before the Grant deadline.

The seven (7) new wells and two (2) existing wells for rehabilitation are located at various sites in Northern Guam on Department of Defense Property, including Anderson Air Force Base, Naval Computer and Telecommunications Site (NCTS), and Naval Communication Station Barrigada.

The cost of this construction contract is $3,489,092.84 with a 5% contingency of $174,454.64 for a total amount of $3,663,547.48 and will be funded from the OEA General Assistance Grants subject to an inter-grant transfer. The Construction Contract is anticipated to be complete no later than September 31, 2021. Out of 9 interested parties, only one bid was received for the project from HDCC Guam LLC.

Comm. Santos motioned to approve Resolution 42-FY2020 second by Comm. Guthertz.

There was discussion about WERI the GM said they are very interest in this well to get a better picture. Having this info and having WERI do the work is better to practice sustainable resource management. Comm. Duenas said WERI needs some funding and WERI works for us. Comm. Santos said UOG charges them an administrative fee so GWA should lead any discussion with WERI. The Chairman asked the GK to work on this, to put something together and to get back to the CCU. Comm. Santos added rather than ratepayers funding this cost, perhaps consider using SDC funds or the military.

On the motion there was no further discussion or objection and the motion passed r ayes, 1 absent.

5. **GPA**

5.1 GM Report

There was no GM Summary at this meeting.

5.2 Financials

The financials were not discussed at this meeting.

5.3 Resolution 2020-19 PMC Extension with TEMES for Dededo CT, Macheche CT & Yigo CT

The GPA Combustion Turbine Power Plants in Dededo, Macheche and Yigo provide 80 MW of additional capacity to support GPA's daily MW requirements, especially during major outages for the baseload units. Additionally, the Macheche and Yigo CT units are being dispatched daily to support system stability during the operation of GPA's 25-MW Solar Power Plant. The current PMC ensured that critical projects such as the rehabilitation of the Dededo CT #1 and #2, and turbine exchanges for Macheche CT and Yigo CT were completed, providing 80 MW of reliable additional capacity during critical periods beginning May 2016, through today. Partnering with the PMC allows for more efficient completion of critical projects, receiving technical advice on operations and maintenance, and sourcing of materials and resources. This request is to extend the PMC for three (3) years, starting March 1, 2021, with an option to extend for another two (2) years after February 28, 2024. Fixed Management Fees and O&M Budgets will be funded through revenue funds – O&M. CIP will also be funded through revenue funds, but will subject first to GPA review and approval.

Negotiations with TEMES as provided for in existing contract.

	Current	Year 6	Year 7	Year 8	Year 9	Year 10
Fixed Mgmt	$703,687	$774,056	$797,278	$821,196	$845,832	$871,207
Routine O&M	$549,756	$604,731	$622,873	$641,560	$660,806	$680,631
TOTAL COST	$1,253,443	$1,378,788	$1,420,151	$1,462,756	$1,506,638	$1,551,838
% Increase		10%	3%	3%	3%	3%

In discussion Comm. Limtiaco asked the outcome of the negotiations – were they higher. GM Benavente said yes by 39% with escalating cost of #% for the 5-year optioin.

Comm. Santos motioned to approve Resolution 2020-19, second by Comm. Guthertz. There were no further questions or objection and the notion passed.

6. **OTHER DISCUSSION**

6.1 CCU Rules Update

There was no discussion on this matter.

7. **ANNOUNCEMENTS**

7.1 Next CCU Meetings

The Chairman announced that the next meeting would be a GWA Work Session on October 20; a GPA Work Session on October 22 and the regular monthly CCU Meeting on October 27.

8. **ADJOURNMENT**

There being no other business to bring before the Commission.

Comm. Santos motioned to adjourn the meeting second by Comm. Guthertz. There was no objection or discussion and the meeting adjourned at 6:14 p.m.

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Bls

Attested

JOSEPH T. DUENAS, Chairman

MICHAEL T. LIMTIACO Secretary

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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., September 3, 2020

MINUTES

1. CALL TO ORDER

The CCU Chairman Duenas called the September 3, 2020 CCU Regular Meeting to order at 5:32 p.m. He said all five [5[Commissioners were present for a quorum – Comm. Sanchez and he were physically present; Commissioners Guthertz, Santos and Limtiaco were attending electronically. Others in attendance include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis E. Santos	CCU Vice Chairman - virtual
Michael T. Limtiaco	CCU Secretary - virtual
Judith P. Guthertz	CCU Treasurer - virtual
Simon A. Sanchez	CCU Member

Executive Mgmt.:

John Benavente	GM / GPA
Miguel Bordallo	GM / GWA
Melinda Mafnas	AGMA / GPA
Tricee Limtiaco	AGMA / GPA
Chris Budasi	AGMA / GWA - virtual
John Kim	CFO / GPA
Taling Taitano	CFO / GWA
Graham Botha	Legal Counsel / GPA
Kelly Clark	Legal Counsel / GWA

Management & Staff:

Vien Wong	IT Support / GPA
Patti Diego	Communications / GPA - virtual
Yvonne Cruz	Budget Office / GWA - virtual
Ann Borja-Gallarde	Management Analyst IV / GWA Ex.Office
Lou Sablan	Board Secretary / CCU

Guest:

Tricia Granillo	AM Insurance -virtual

2. APPROVAL OF MINUTES

The Minutes of May 21, 2020 was presented for approval.

Comm. Sanchez motioned to approve the Minutes subject to verification and written correction second by Comm. Santos. There was no objection or discussion and the notion passed unanimously.

The Minutes of June 16, 2020 was presented for approval.

Comm. Sanchez motioned to approve the Minutes subject to verification and written correction second by Comm. Guthertz. There was no further discussion or objection and the motion passed unanimously.

Due to technical difficulties with the audio, the Chairman called for a 5-minute recess to allow technicians to resolve the issue. It was 5:52 p.m.

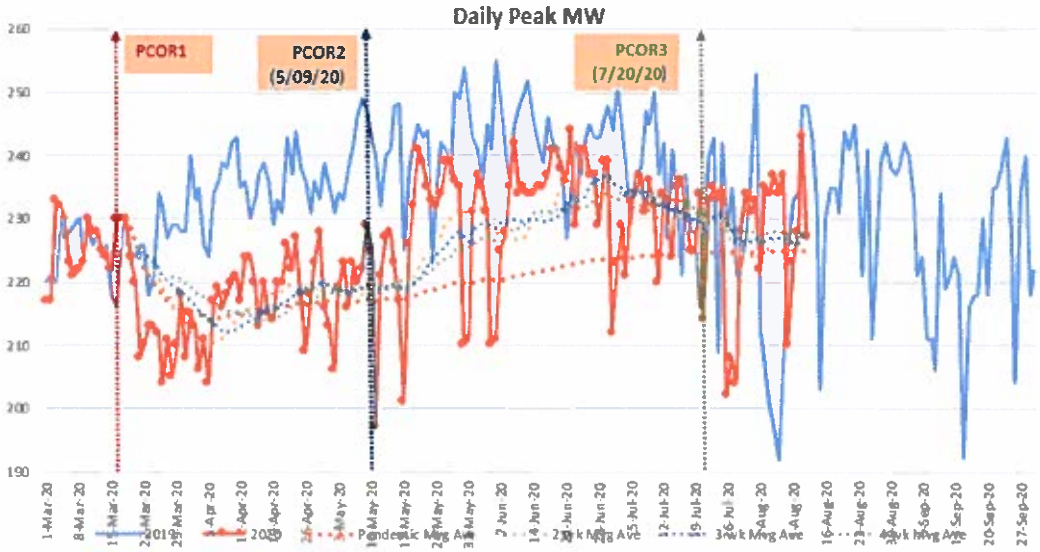
The meeting was called back to order at 5:57 p.m.

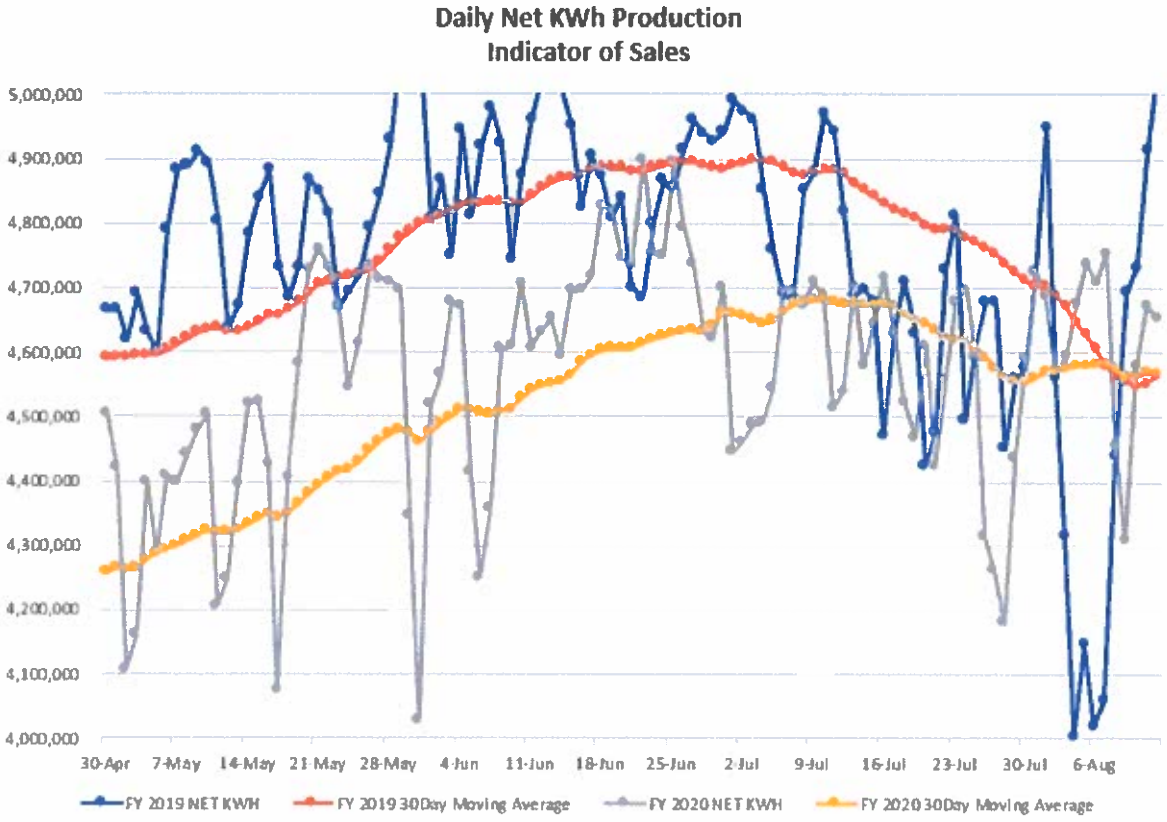
3. GPA

3.1 GM Report

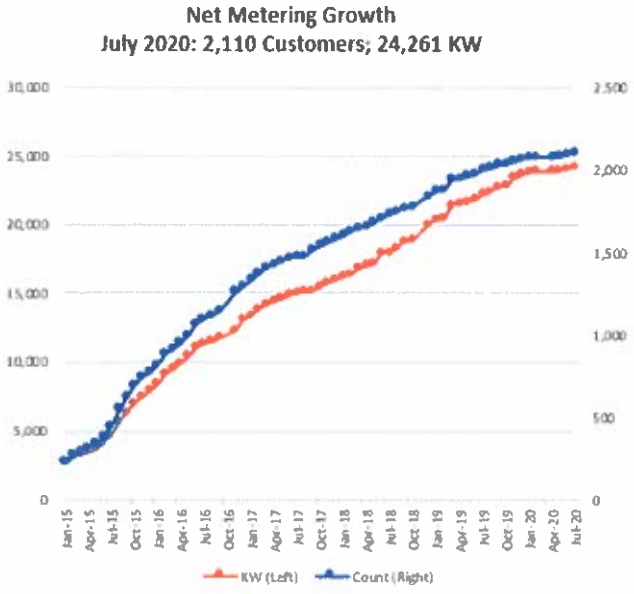
1. Generation System: Reserve Margin forecast for Sept 2020:

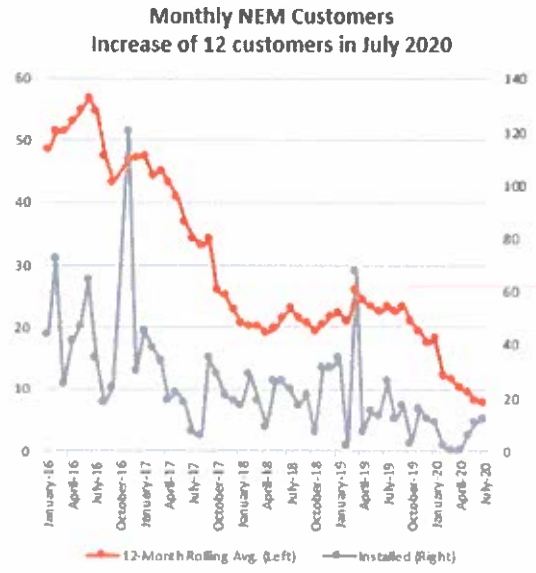
Projected Available Capacity:	367 MW
Projected Demand:	243 MW
Anticipated Reserve Margin:	124 MW



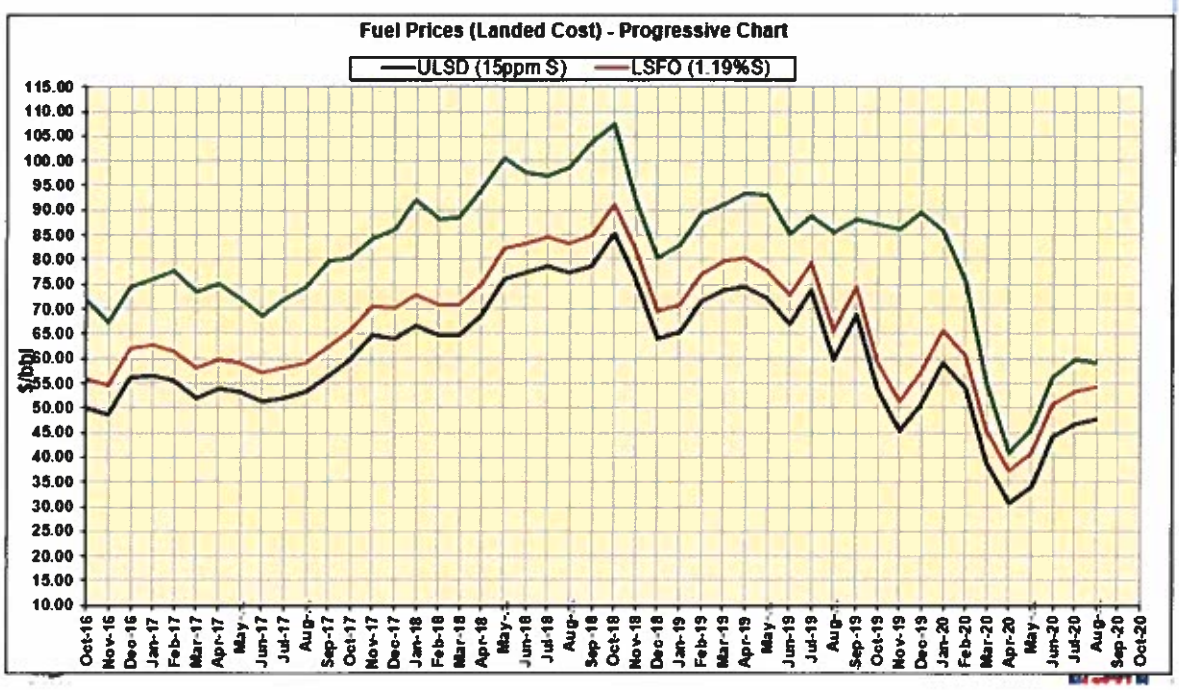


2. Net Metering (NEM) Growth Thru July 2020:





3. Fuel Prices (Per Barrel) Ending August 27, 2020



4. PUC Update:

- **No PUC meeting this month (August 2020) due to current Pandemic Condition of Readiness 1 (PCOR-1).**
- **PUC approved the following GPA dockets during its July 30, 2020 meeting:**
  - **GPA Docket 20-13**, LEAC, held rates to June 2020 LEAC of $0.086/kWh
  - **GPA Docket 20-15**, Performance Management Contract for Cabras 1 & 2 Plants
  - **GPA Docket 20-17**, Contract for Residual Fuel Oil No. 6 for the Baseload Plants
- **GPA dockets pending approval by the PUC:**
  - **GPA Docket 20-10,** Creation of Condominium Rate Schedule
  - **GPA Docket 20-16**, Petition to approve the Retirement of Piti 8 & 9 Units and to Procure 60MW of Renewable Energy.
  - **GPA Docket 20-18,** Petition to approve a one-month extension to the Contract for Residual Fuel Oil No. 6 for the baseload power generating plants.

5. Phase III Renewables Project Update:

- The Phase III Intent to Award to Engie for 40 MW of Solar PV with full supply shifting Energy Storage System has been under appeal with the OPA. Final briefs were filed on August 11, 2020. OPA decision is typically within 30 days.

6. Standby Generators:

- The following is an update on portable generators for support of GWA:

Typhoon Mangkhut FEMA Matching Grant - due September 30, 2020
Replacement units for ones damaged during the typhoon

300 kW	AG-2 (AGAFA GUMAS)
40 kW	ND-4 (MOGFOG, YPAOPAO ESTATES)
275 kW	DOC (MAIMAI, MANGILAO)
60 kW	SD-4 (UMATAC BRIDGE)
180 kW	UR MARKET (NCS, DEDEDO)
200 kW	Y-15 (YIGO, UPI SCHOOL)

GPA purchased portable Generator Update (Increased Inventory):

	Quantity	Status
25 kW	1	DELIVERED
60 kW	3	RE-BID – In Bid Evaluation Stage
150 kW	6	DUE 9/30
250 kW	3	DELIVERED
500 kW	3	DUE 9/30

7. Suit Against USEPA for Cabras Non-Attainment

- Environmental groups have filed a suit against the U.S. Environmental Protection Agency (EPA), alleging it has allowed two states and Guam to not turn in State Implementation Plans (SIPs) to clean up sulfur dioxide air pollution in their nonattainment areas. In the case of Guam, the federal lawsuit refers to the site of the problem as Piti-Cabras. The suit states the EPA "must ensure that states and U.S. territories have valid plans in place to clean up that pollution. But it has failed to do so in these areas, which are home to more than half a million people."

- Guam has a consent degree in place, announced last February, under which GPA agreed to pay $400,000 after the federal government filed a complaint alleging GPA violated federal air pollution laws. The settlement reached between GPA, Marianas Energy Company and the U.S. Department of Justice, on behalf of U.S. Environmental Protection Agency, was the result of settlement talks that began in 2013.

- GPA reported that the consent decree resolved its violations of the Clean Air Act. Under the settlement, the utility agreed to build a new, state-of-the-art dual-fire power plant, retire its older plants and build 100 megawatts of solar power capacity. GPA believes the settlement is a fair resolution of the alleged violations and will complete the work to satisfy the settlement terms, which will provide our ratepayers and the citizens of Guam with clean and green energy for years to come.

8. Outage Management System (OMS) Text Messaging Service



GPA POWER ALERTS

- **OMS is a New text messaging service providing customers with real time information on outages directly affecting their homes or businesses, including the estimated time of restoration**
- **Texts only customers who have registered their mobile numbers with their customer accounts AND only those customers affected by an outage**
- **GPA Power Alerts toll free number 1-855-252-9998**
- **All customers with valid mobile numbers associated with GPA accounts are automatically enrolled in the program**
- **Text:**
  OUT - Reports power is out
  STATUS - Replies with known information about your service address and any power outages
  GPA HELP/HELP - Provides GPA's 24/7 Trouble Dispatch numbers
  QUIT/CANCEL/END/UNSUBSCRIBE/STOP - To stop receiving text messages
  GPA - To opt in and start receiving text messages again

9. Energy Storage System (ESS) Update:

- The contractor has resumed commissioning on Monday, August 10th and so far work is proceeding as scheduled. Again, the commissioning process would take two months and both the Talofofo 16MW ESS and the Hagatna 24MW ESS would be commissioned into full service by end of October 2020. Talofofo projected to operate by September 20, 2020 and Hagatna projected to operate by October 20, 2020.

10. Update GPA and GWA Customer Services During Mandated Shutdown

- A public service announcement was sent out on August 30th regarding Guam Power Authority (GPA)and Guam Waterworks Authority (GWA) Customer Service Options. The Guam Power Authority and Guam Waterworks Authority provide essential, continuous electrical power and water infrastructure service that are critical to our island. **GPA and GWA will ensure continuity of essential electric and water/wastewater services during the mandated shutdown for all our customers and will continue to remain open with some limitations.** GPA and GWA remain committed to protect the safety of all employees, ratepayers and the general public.

11. Generation KPI's:

- The following graphs show updated information through July 2020

3.2 Financials

Summary

The increase in net assets for the month ended was $1.3 million as compared to the anticipated net increase of $1.6 million projected at the beginning of the year. The total kWh sales for the month was 6.51% less than projected and non-fuel revenues were $1.0 million less than the estimated amounts. O & M expenses for the month were $6.2 million which was $0.4 million less than our projections for this year. Other expenses for the month such as interest expense, IPP costs, (net of interest income and other income) totaled to $3.2 million, which was $0.1 million over than projected amounts. There were no other significant departures from the budget during the period.

Analysis

Description	Previous Month	Current Month	Target
Quick Ratio	3.51	2.87	2
Days in Receivables	41	40	52
Days in Payables	13	27	30
LEAC (Over)/Under Recovery Balance -YTD	$2,981,020	$3,563,177	$3,592,541
T&D Losses	5.52%	5.63%	<7.00%
Debt Service Coverage	1.52	1.52	1.75
Long-term equity ratio	1.70%	1.96%	30 – 40%
Days in Cash	211	232	60

The Quick Ratio has been a challenge for GPA historically. However, the influx of cash from insurance proceeds continued to keep this ratio steady. GPA has current obligations of approximately $72 million and approximately $207 million in cash and current receivables. The LEAC under-recovery for the month was $1.2 million. Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

3.3 Resolution 2020-18 FY2021 Budget

GM Benavente asked the Commission to approve GPA's budget for FY2021.
Section 6.11 of the GPA Bond Indenture Agreement requires the Authority to provide a copy of an approved budget to the Bond Trustee prior to the beginning of each fiscal year. The General Manager has carefully reviewed and proposes the budget for Fiscal Year 2021 totaling $347,138,000 provision for bad debt of $1,045,000. The GM has reviewed and proposes a Revenue Funded Capital Improvement Project budget totaling $25,700,800. The Fiscal Year 2021 Budget is based on a Non-Fuel Revenue forecast of $155,000,000 and miscellaneous revenues of $2,160,000 and a Fuel Revenue forecast of $191,023,000 and less $1,045,000 provision for bad debt for total revenues of $347,138,000.

Total Operations and Maintenance budget includes Labor and Retiree's benefit costs of $50,254,251; Non-Labor cost of $31,227,935; less Capitalized O&M of $6,590,042 for total O&M Budget of $74,892,144; Bad Debt Expense of $1,045,000, Independent Power Producers costs plus Aggreko of $22,600,000; Debt Service of $47,763,000. Funds pledged for the Bond Reserves are not included in the overall budget amounts.

The General Manager of the Guam Power Authority has created and thoroughly reviewed the budget for Fiscal Year 2021 totaling $347,138,000. The CCU Commissioners noted that the budget provides funding of Revenue Funded Capital Improvement Projects totaling $25,700,800.

Some items mentioned – the total number of full time employees for FY21 is 490 the debt service comparison between FY20 and FY21 is 1.31 v. 133 respectively. The GM has transfer authority between accounts with exception of personnel.

Comm. Guthertz motioned to approve Resolution 2020-18, second by Comm. Sanchez.

In discussion Comm. Guthertz mentioned she was to ensure funding for PIO's initiatives. This is significant to ensure that enough resources are available to thoroughly address / actions all pandemic related communications and public outreach. GM Benavente assured the Commissioner that this is also a priority for him and agreed.

On the motion, there was no further discussion or objection and the motion passed unanimously – 5 ayes.

4. GWA

4.1 GM Report

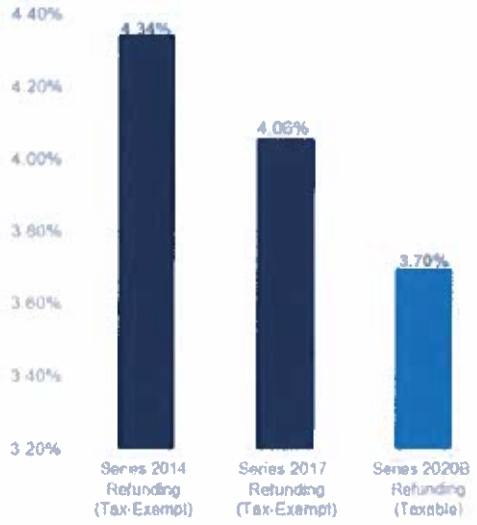
Management Update

- **Series 2020B Bonds – Taxable Refunding Final Information**
  - **Bond Par Amount:** $166,075,000
  - **Maturities Refunded** 2029-2043
  - **Net PV Savings:** $11,927,792.44
  - **% NPV Savings** 8.36%
  - **All-in New TIC:** 3.696%
  - **Annual Debt Service Savings:** $1.5M-$1.9M to 2027
  - **Sale Date:** August 18/19, 2020
  - **Closing Date:** August 25/26, 2020

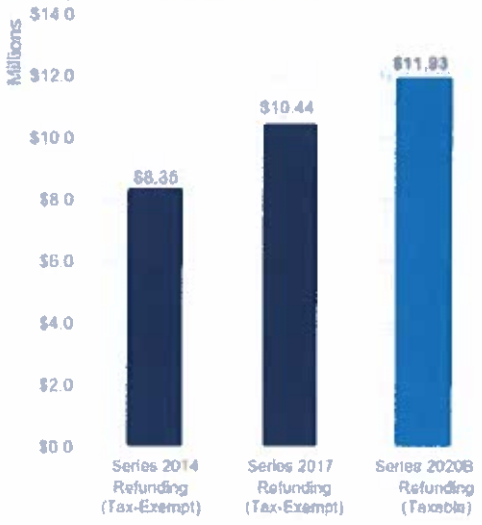
Comparison of GWA's Refunding Transactions

GWA's Series 2020B Bonds were able to achieve the highest PV savings and lowest TIC of any of GWA's three refunding transactions

GWA Refundings All-in TIC (%)



GWA Refundings PV Savings ($)



GWA Workforce availability as of August 14

Healthy	354	93.4%
Sick, symptoms related to COVID-19	2	0.5%
Sick, not COVID-19 related	10	2.6%
COVID-19 Quarantined	1	0.3%
COVID-19 Medical Risk	1	0.3%
Military Leave	10	2.6%
LTD	1	0.3%
	379	**100%**

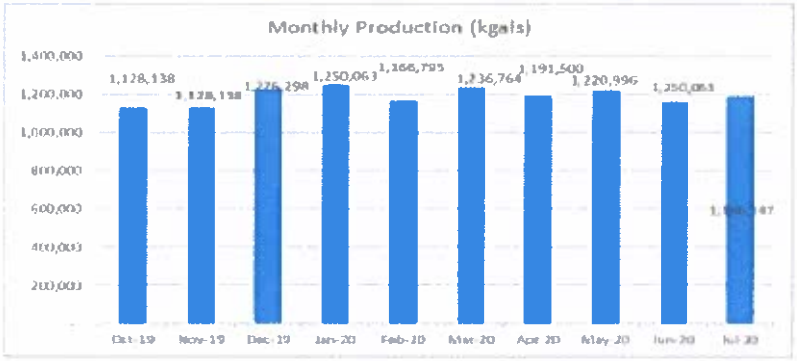
	Total	
Healthy/Reporting for duty at worksite	322	85.0%
Healthy/Reporting for duty - Part Teleworking and Part Reporting for duty at worksite	19	5.0%
Healthy/Reporting for duty - Teleworking	13	3.4%
Employee sick - symptoms related to COVID-19	2	0.5%
Employee sick - symptoms unrelated to COVID-19	10	2.6%
Employee's indirect exposure to individual that is: COVID-19 symptomatic, being tested for COVID-19 or confirmed COVID-19 (1+ person removed) - does not report for duty	1	0.3%
Employee or household member is at medical risk (i.e. COVID-19 vulnerable)	1	0.3%
Military Leave	10	2.6%
LTD/Workers Comp	1	0.3%
	379	**100%**

Operations Update

Production (July 2020)

Monthly Production Summary - JULY 2020			
Deep Wells		34.9	MGD
Active wells =	91 of 120		
Avg days in operation =	31 days		
Total Production =	1,080,391 Kgals		
Springs		0.18	MGD
Avg days in operation =	31 days		
Total Production =	5,635 Kgals		
Ugum Surface Water Plant		2.3	MGD
Avg days in operation =	31 days		
Total Production =	70,510 Kgals		
Tumon Maui Well		0.96	MGD
Avg days in operation =	31 days		
Total Production =	29,611 Kgals		
	1,186,147 Kgals	38.3	MGD

DW Status as of 7/31/2020		
Active	91	
Grounded motor or Pump Failure	8	A12-A28-D03-H08-P13-V01-V13-V21
Out of commission	8	A02-A07-A28-D05-D13-H04-H05-H05
Temporarily Secured	2	A23-A25
Standby	11	A30-A28-D01-D08-D29-D20-D24-H09-P18-P20-H12
TOTAL	120	



Distribution (July 2020)

Monthly Distribution Summary - JULY 2020

Water Booster Pump Stations

	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	13	26	24	92.3%
	Central	7	15	15	100.0%
	Southern	7	15	15	100.0%
		27	56	54	96.4%



Wastewater Collections (July 2020)

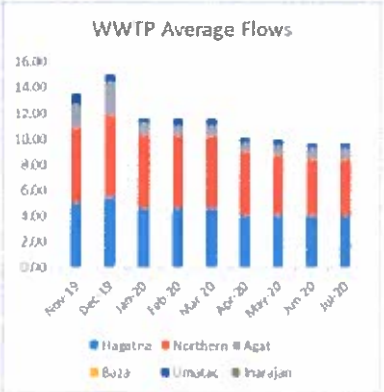
Monthly Collections Summary - JULY 2020					
Wastewater Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	46	88.5%
	Central	29	63	56	88.9%
	Southern	26	56	54	96.4%
		77	171	156	91.2%





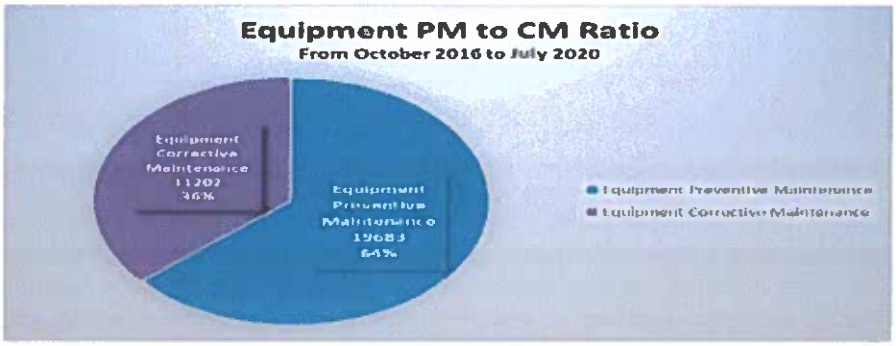
Wastewater Treatment (July 2020)

Monthly Wastewater Treatment Summary - July 2020				
WW Treatment Plants - Flows				
	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. ($)
	Hagatna	4.39	294,380	$ 26,494
	Northern	4.3	837,320	$ 75,359
	Agat	1.1	37,900	$ 3,411
	Baza	0		
	Umatac	0.19		
	Inarajan	0.07		
		10.05	1,169,600	$ 105,264

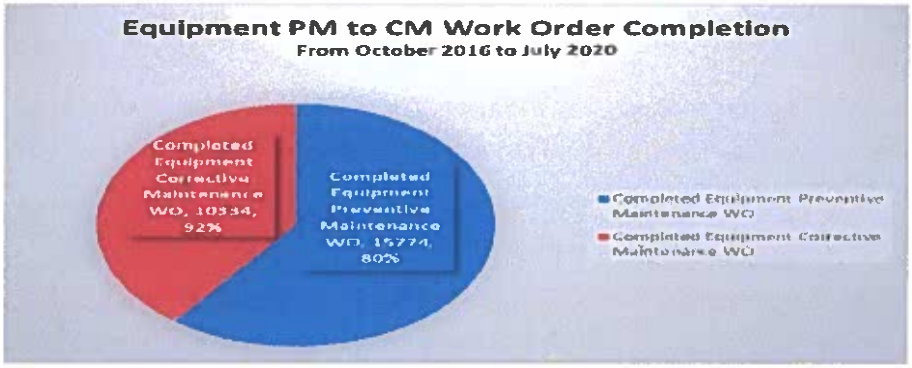


Asset Management (July 2020)

I. **Equipment Preventive Maintenance to Corrective Maintenance *Ratio***

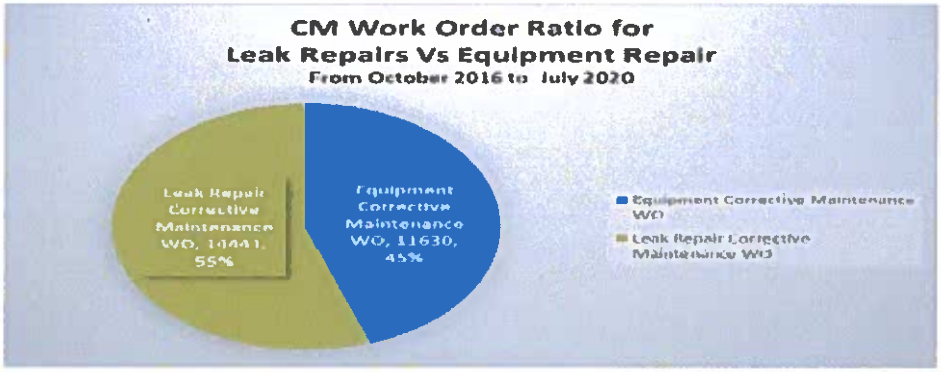


II. **Equipment Preventive Maintenance to Corrective Maintenance *Work Order Completion***

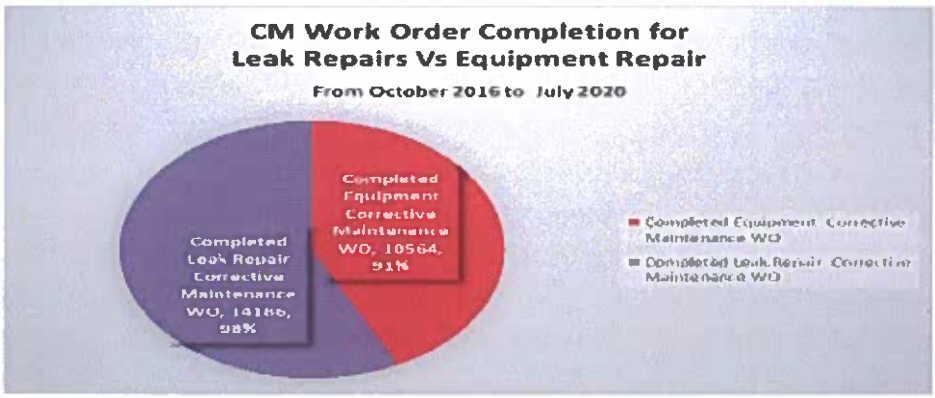


Asset Management (July 2020)

III. **Corrective Maintenance Work Order *Ratio* for Leak Repairs vs. Equipment Repair**



IV. **Corrective Maintenance Work Order *Completion* for Leak Repairs vs. Equipment Repair**



Meters from January 2017 through August 10, 2020

COMPLETED FIELD ACTIVITY JAN 2017 THRU AUG 10 2020	2017	2018	2019	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	TOTAL	COMPLETED FIELD ACTIVITIES (in process) TO BE POSTED IN CIS
GWA - Meter Exchange	6487	13353	10850	8079	714	548	117	44	59	148	20	33419	61

# OF METERS TESTED AS PER METER TEST FACILITY REPORTS:	6079	12259	9278	749	908	1116	341	662	635	694	32721
AVG # OF FIELD STAFF PERFORMING CHANGE OUTS (MON THRU FRI):	29	26	7	7	7	7	7	3	3	3	3
# OF ADMIN STAFF TO CREATE AND POST FIELD ACTIVITIES IN CIS:	30	6.5	5	5	5	2	2	2	2	2	2
TOTAL:	29	22	12	12	12	9	8	2	2	2	2

*project completed effective 9/1/19 and resumed 01/02/20.

REMAINING ACTIVE BADGER LP MODELS TO BE REPLACED AS OF 08/10/20: **12**

3/4" BADGER METERS IN STOCK AS OF Aug 08, 2020:

Stock #	Size	Meter Description	New Meters Passed	New Meters Untested	Passed Field Meters	MMP	Meters Available	Meters at MTP	Failed Meters	Total Count
60484	3/4"	METER, Badger AMR 5/8" X 3/4" RCDL Model M25 Disc Meter	96	0	278	0	375	0	28	403
74131	3/4"	METER, Badger AMR 5/8" x 3/4" **WARRANTY** RCDL Model M25	0	0	0	0	0	0	0	0
60293	3/4"	METER,Badger 5/8"x3/4" M25R63-0 RCDL M25LL Disc Meter fringed	84	0	3	0	87	0	2	89
74131	3/4"	METER, Badger AMR 5/8" x 3/4" RCDL Model M25 ***[illegible]***	0	0	0	0	0	0	0	0
84769	3/4"	METER, Badger E-SERIES 5/8"X3/4" UL ERMSONIC	960	0	1	0	961	0	5	966

Backbilling through July 2020

Guam Waterworks Authority
Collections Report[1] on Accounts Backbilled thru July 31, 2020
For fiscal years 2015 thru 2020 (Jul)

Accounts Billed			Collection Status											
			Amounts Collected[1]			Amounts Adjusted			Total Uncollected (Active)			Total Uncollected (Inactive)		
FY Billed	No. of Accounts	Amount	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%	No. of Accounts	Amount	%
FY2015														
FY2016	17	$ 882	17	$ 882	100%	0	$ -		0	$ -		0	$ -	
FY2017	537	$ 397,450	465	302,009	76%	12	33,437	17%	27	30,979	8%	27	25,974	7%
FY2018	1,374	$ 742,109	1,203	566,742	76%	61	69,705	9%	63	64,056	9%	48	41,605	6%
FY2019	8,325	$ 3,054,384	7,516	2,085,339	68%	152	159,195	5%	406	712,134	23%	221	107,717	4%
FY2020	2,482	$ 756,174	1,859	340,863	45%	30	15,366	2%	552	339,472	52%	41	10,472	0%
Total	12,735	$ 4,900,999	11,060	$ 3,295,835	68%	280	$ 282,754	6%	1,048	$ 1,196,641	24%	337	$ 185,769	4%

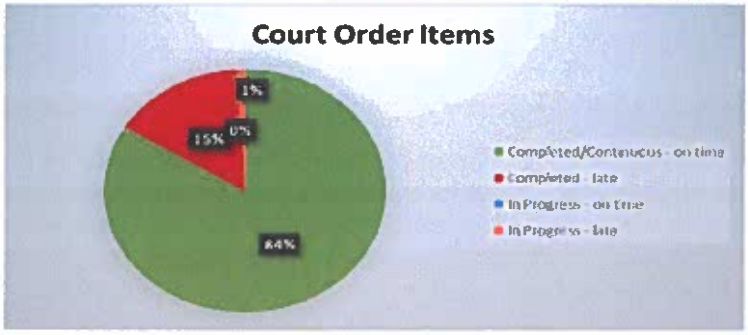
[1] Collections thru August 12, 2020

One Guam Update (July 2020)

- Tumon Maui Well
  - Additional Maintenance Required: GWA will be maintaining the gated portion of lot adjacent to the TMW treatment system as part of the existing license. GWA has installed a lock at the gate to ensure that access will be controlled.
- OEA Projects
  - Observation Wells/NGLA
    - Naval Base Guam's ECP assessment will be complete next week. The TCEs will be prepared for the locations of the Observation wells that will be on DOD property.
    - GWA's project is out for bid. The timeframe for TCE to be completed is needed to inform potential contractor.
    - The NTP is expected by the end of September.
- Strategy/Framework Discussion
  - GWA and DoD will be updating 2016 Framework for discussion, Strategy for an Integrated Water System for Guam.
  - GWA inquired about input from the technical experts' group to current discussions of the strategy.
  - The Aquifer Technical Experts Group will be contacted to discuss how to move forward with better monitoring, better planning better protection, etc.
  - A work session is scheduled for September to discuss options.
- Property Issues
  - Transfer of BPM-1: No change
  - Transfer of Navy Laterals at Murray Road to GWA: Pending the transfer memo, which is with the Navy's XO.
  - AG-1 Access for GWA/GPA:
    - GWA will go to the site before finalizing an option for review for the gate construction for access.
  - Marine Corps Base – Forest Enhancement Irrigation (FEI)
    - No update
    - The DOD want to make sure the water requirement is correct.
  - Umatac / Cetti Bay Easement
    - GWA General Counsel is still waiting on the attorneys from Land Management / CLTC.

Court Order Summary (July 2020)

	Total Items	On-time Items Completed / Continuous	In Progress - late	Completed - Late	In Progress - on time	Performance %
Court order total	93	78	1	14	0	98.90%



	Court Order Items	%	Performance (on-time or completed)
Completed/Continuous - on time	78	84%	
Completed - late	14	15%	
In Progress - on time	0	0%	
In Progress - late	1	1%	98.9%
Totals	93	100%	

Court Order – Status Information (July 2020)

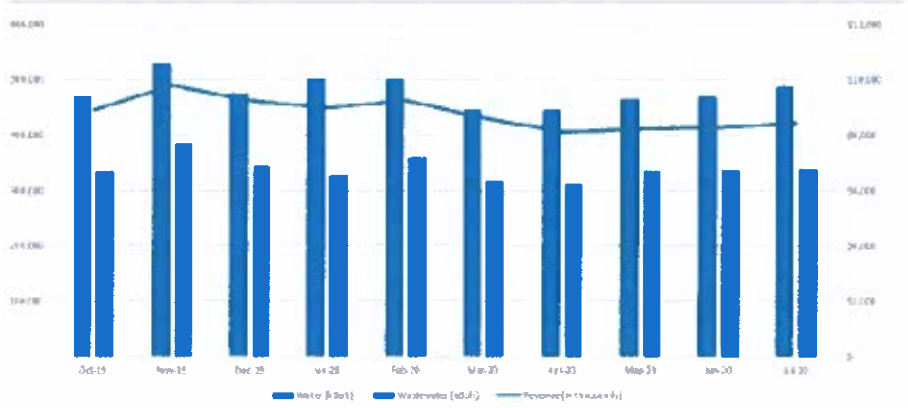
- 1 item delayed - The Court Order is down to one item remaining, § II, (C), (29) – Storage tank Repair. Restoration, Replacement or Relocation – which is the item that will take longer than the "end" of the court order. That makes us 98.9% done with the CO.
- Final Date to complete all Court Order items will be delayed past December 31, 2020.
  - CO 29(b) has been expanded by 31% beyond the original Court Order Requirements
  - General Counsel is drafting filing for submission to District Court
  - Additional impact resulted from delay of 2020 Bond issuance and there is also delay due to COVID-19 impacts
- Overflow or Bypass events reported to USEPA:
  - 06-25-2020, S. Marine Corp Drive, Asan – Sewer Line Bypass Hose broke
  - 07-02-2020, 4th Street, Tiyan, Cleanout - spill-contractor-broken cleanout cover
  - SSO#199 Royal Orchid, Tumon - Sewer Overflow – FOG
  - SSO#200 Pale San Vitores Rd., Tumon - Sewer overflow – FOG

Land Acquisition Summary (July 2020)

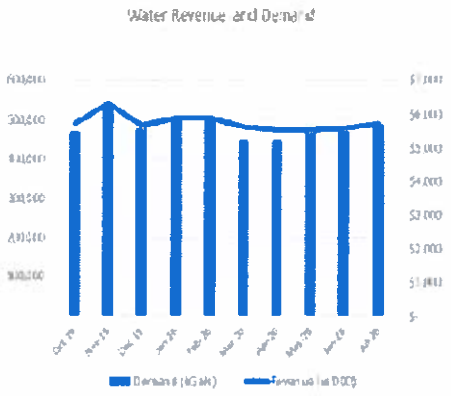
GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo	Gov't. - CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. Follow up update status request emailed to DLM 05/14/2020.
	Piti	Private	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 form.
	Airport	Private	Property owners need more time for discussion with family regarding GWA's Offer Letter 07/04/2020. Emailed follow up request to property owner on status 08/11/2020
Deep Wells	AG-12	Dept. of Agriculture/Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2nd follow up sent on 09/12/18. 3rd follow up sent on 04/10/19. Retracement Survey Property Map filed and recorded at DLM 7/10/19.
Booster Pump Station	Agfayan	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19.
Asan Springs	Asan	Federal	In order for NPS to issue a land ROW agreement with GWA, NPS has to complete NEPA first. GWA has HDR under contract to perform this work and an Environmental Assessment will be developed. The permit for the biological survey was submitted on 6/12/2020 and is currently still in the hands of NPS. NPS is waiting to confirm with USFWS on the threatened and endangered species that are of concern at the project location. They are just waiting on USFWS confirmation.

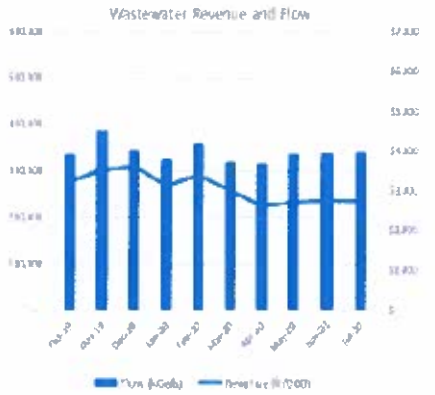
4.2 Financials

Overall Revenues and Demand/Flow

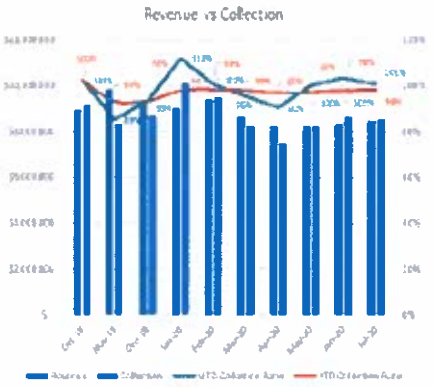


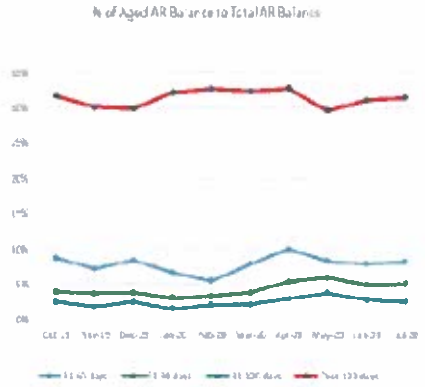
Overall Revenues and Demand/Flow



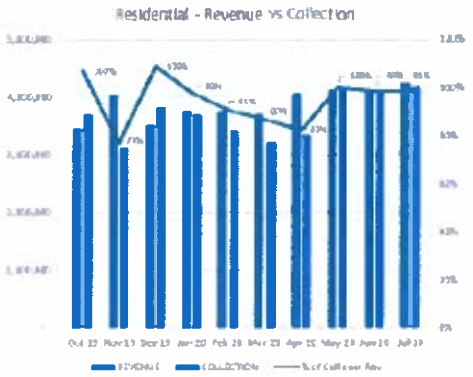


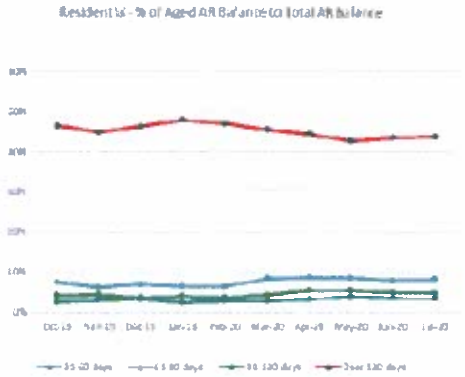
Overall Revenues and Collections



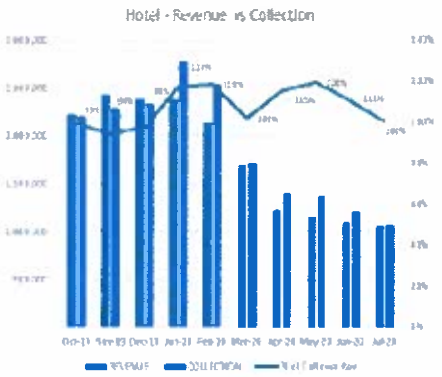


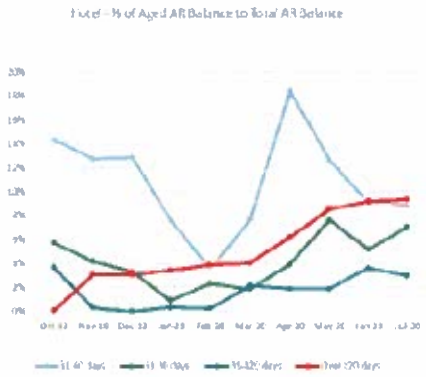
Residential Revenues and Collections





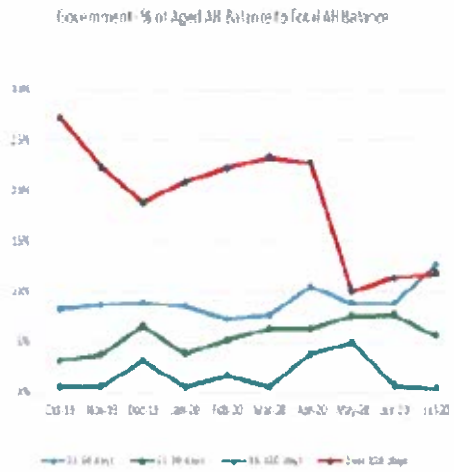
Hotel Revenues and Collections



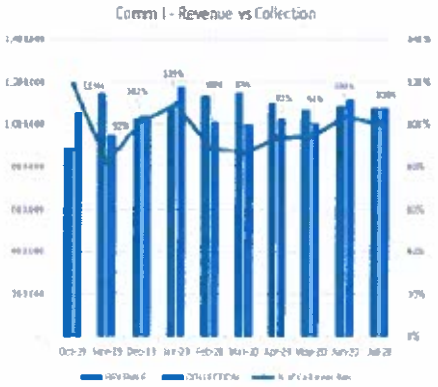


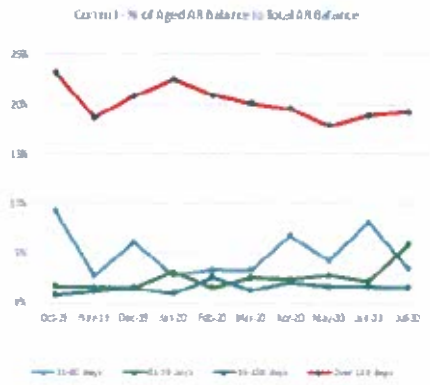
Government Revenues and Collections



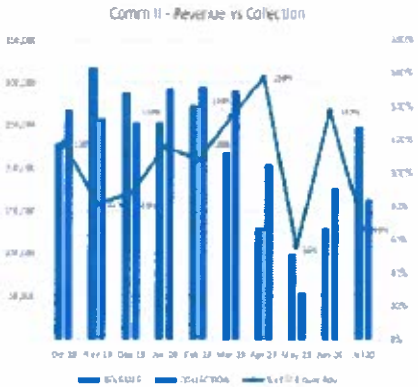


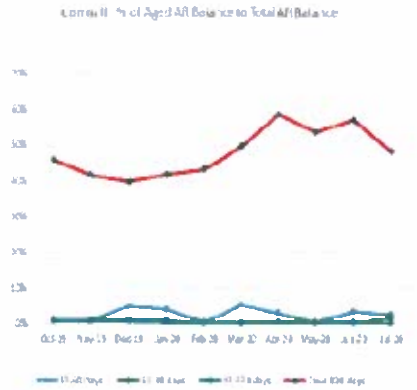
Commercial I Revenues and Collections



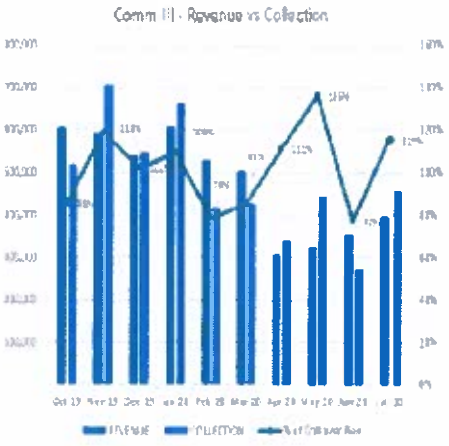


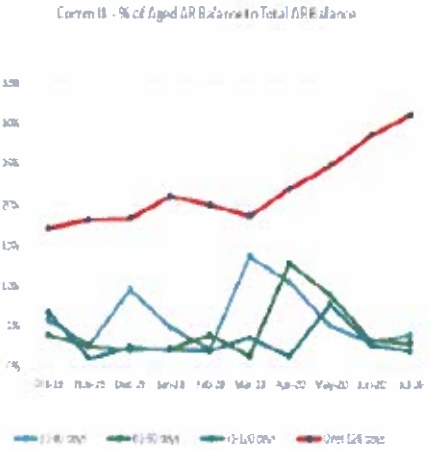
Commercial II Revenues and Collections



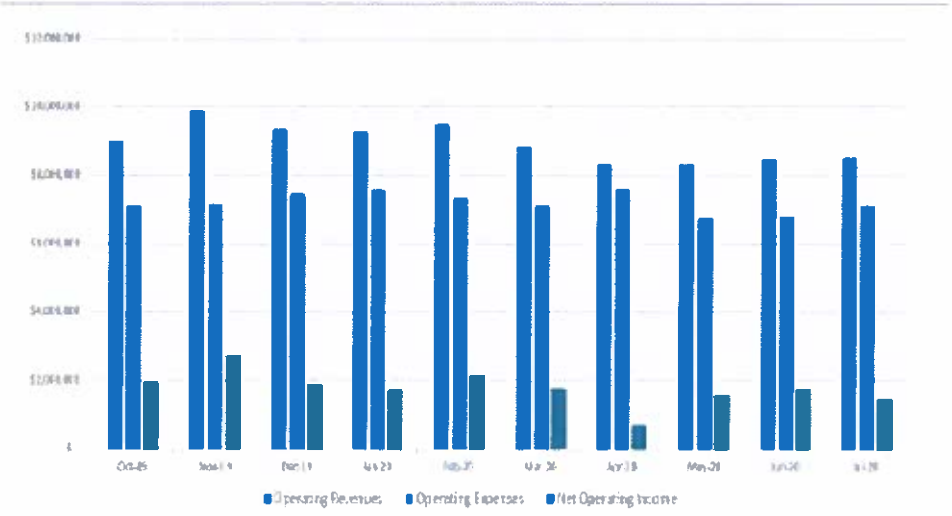


Commercial III Revenues and Collections





Income Statement FY2020



GWA Key Financial Indicators

Indicator	Target	June 2020	July 2020
DSC YTD			
• Per Section 6.12 of Indenture	1.25	1.27	1.30
• Per PUC / CCU	1.40	1.27	1.30
YTD Month to Month Change in Net Assets		22%	23%
Days – Cash on Hand	120 days	292 days	296 days
Collection Ratio			
• Month to Date	98%	103%	101%
• Year to Date	98%	98%	98%
Days Billed	30	31	31
Account Receivable Days	45	48	48
Account Payable Days	45	35	37
Employee Count	400 FTE	384 FTE	382 FTE
Water Demand			
• Month to Date	467,615	469,531	487,510
• Year to Date	3,740,923	4,306,513	4,794,023
Wastewater Flow			
• Month to Date	382,224	337,574	338,787
• Year to Date	2,775,095	3,055,924	3,394,712
Water Customers	42,724	42,838	42,934
Wastewater Customers	29,604	29,516	29,084

4.3 Resolution No. 35-FY2020 Relative to Approval of Construction Contract Change Order No. 3 for the Route 4 Relief Sewerline Rehabilitation and Replacement Project S15-006-EPA

If approved, Resolution 35-FY2020 will improve the sewer collection system, which included repairing and/or replacing sewer manholes and over 4,200 linear feet of gravity sewer line along Route 4 and Route 1 in the village of Agana. These sewer infrastructure elements have been identified by GWA, through an SSES investigation, to be subjected to either inactivity due to incomplete construction work or excessive infiltration and inflow (I&I). Successful completion of this project will result in proper maintenance and operation of the sewer collection system and USEPA agree that efforts to rehabilitate, repair or replace the sewer line are necessary.

Change Order No. 3 is necessary to compensate the contractor for additional work to install the sewer main where numerous unknown utilities and related concrete encasements were encountered while installing the new sewer main at the Rt.4/O'Brien intersection. These encountered utilities complicated work, slowed production, and required hand excavation due to space limitations. The contractor has asked for additional compensation that the construction manager reviewed and negotiated to a fair and reasonable amount based on field logs during actual work. Note that the funding for continued construction management services through September 2020 was approved under CCU Resolution 34-FY2020.

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

The total cost of Change Order No. 3 comes out to the amount of Fifty-Eight Thousand Three Hundred Seventy-Eight Dollars ($58,378.00). Change Order No. 2 consumed the balance of the contingency funds. Hence, GWA Management seeks CCU approval of PPBC's proposal for additional compensation for unknown underground utilities in the additional funding amount of Fifty-Eight Thousand Three Hundred Seventy-Eight Dollars ($58,378.00), to bring the total authorized funding amount to Three Million Eight Hundred Fifty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents ($3,854,867.54). The funding for this project will be from USEPA Title 2 Construction Grants Program and, if necessary, GWA Bond Funds with a maximum project budget of Three Million Eight Hundred Fifty-Four Thousand Eight Hundred Sixty-Seven Dollars and Fifty-Four Cents ($3,854,867.54).

The additional construction work associated with the Change Order No. 3 has already been completed. The remainder of the project will be completed by September 2020.

Comm Limtiaco motioned to approve Resolution 35-FY2020, second by Comm. Guthertz. There was no further discussion or objection and the motion passed unanimously – 5 ayes.

4.4 <u>Resolution No. 37-FY2020 Relative to Approving a Collective Bargaining Agreement with Guam Waterworks Authority and Guam Federation of Teachers Union</u>

GWA recognizes the GFTU as the exclusive representative of GWA employees because the GFTU membership exceeds ten percent (10%) of the total number of GWA employees.

In June of 2019, the GWA entered negotiations with the GFTU to update the CBA between GWA and the GFTU that expired in May 2019; therefore, necessitating that the agreement be updated.

The objective of approving a new CBA with GFTU is to comply with the Public Employee-Management Relations Act (PEMRA) to negotiate a written agreement with the GFTU reflecting bilateral determination of specific terms and conditions of employment, subject to paramount law and regulations.

The GWA and GFTU, through their respective representatives, have negotiated a successor agreement describing the terms and conditions for employment for members of the GFTU.

The agreement includes modifications to the predecessor agreement generally described as follows:

1. Increased contract period to five (5) years.
2. Authorized stewards may participate in the preparation and revision of GWA Policies and Procedures at a subcommittee level.
3. Added mediation and arbitration as options under the grievance procedure.
4. Updated the performance evaluation section to reflect the pay for performance evaluation policy.
5. Added rules for compensations adjustments following a promotion or demotion.
6. Included the updated GWA Drug and Alcohol-Free Workplace Policy.
7. Added ergonomic assessments of work environment.

The GFTU presented the CBA for ratification by its members who are employees of GWA, and it was lawfully ratified unanimously. GWA management is requesting that the CCU approve entering into this agreement because it serves to promote employee relations with the members of the GFTU and preserves a constructive labor environment which is a benefit to all GWA ratepayers.

The GWA-GFTU CBA applies to all GWA work sites where employees are assigned. There are no additional costs incurred by GWA due to the CBA. Any associated costs with the CBA are already accounted for under existing Operations and Maintenance budgets. Effective date is upon the approval of the Consolidated Commission on Utilities and signature by the General Manager. Operations and Maintenance funds will be used for any related expenses

AGM Budasi provided update at last week's work session and noted changes between the previous and current agreements.

Comm. Santos motioned to approve Resolution 37-FY2020 for discussion, second by Comm. Sanchez

There was discussion on the cost and the possibility of sharing the cost with GFT. Counsel Clark said that this is voluntary remediation so GWA will not go forward unless there is confidence for positive outcome. If the matter cannot be resolved with GFT then it will move forward to the Civil Service Commission. Comm. Duenas said management has to agree to mediation and if they choose this route, GWA pays the cost because GWA invoked it.

Comm. Limtiaco asked Counsel if he thinks he negotiated the best agreement. Counsel Clark said yes.

After discussion ended the motion was put to vote – there were 4 ayes and 1 nay – the motion passed. For the record Comm. Santos voted nay.

4.5 <u>Resolution No. 38-FY2020 Relative to Approving the Guam Waterworks Authority Fiscal Year 2021 Budget</u>

The purpose is to approve amendments to GWA's Fiscal Year 2021 Budget

The Fiscal Year 2021 Budget totals $89 million. Operating costs are earmarked at approximately $25 million in salaries and benefits; $13 million in power purchases; $9 million in water purchases; $11 million in administrative and general expenses; $6 million in contractual expenses; $22 million in depreciation and $3 million in retiree supplemental annuities and health care.

The FY2021 Budget represents anticipated revenues and expenditures for the fiscal period of October 1, 2020 through September 30, 2021.

The FY21 budget reductions recommended for approval project operating revenue of $113 million derived from $70 million in water revenues; $39 million in wastewater revenue; $3 million in Legislative surcharges; $430 thousand in other revenue; and $920 thousand in system development charges.

Comm. Sanchez motioned to approve Resolution 38-FY2020 for discussion, second by Comm. Santos.

It was mentioned that at GWA's work session this matter was discussed in length and management did a good job with guesstimates; it was also mentioned that the projection includes PUC rates.

Comm. Duenas mentioned that GWA's rates will incur a 5% increase soon and asked if the Budget reflects this. Managements response was yes. He added that GWA's budget is realistic to GWA's needs however he strongly encourages management and employees to minimize cost to ratepayers where possible. It will take a very long time to recover economically and it is important to prove to the people of Guam that we are prudent. Be guided with a strong commitment to our people, our ratepayers.

Comm. Limtiaco asked if it is an accurate assumption that GWA can recover 80% of their normal consumption. GM Bordallo said it is the best that management knows right now. The projection is that we will continue on the current demand patter on this rate class.

Comm. Sanchez commented given the challenge of projecting did the CFO and GM look at what if scenarios. Management responded yes - that many various were discussed and the guesstimated in this budget reflects the best anticipated outcomes adding that this is the whole point of the cost constraints and stream line efforts. A month to month analysis will follow with adjustments accordingly.

Comm. Duenas asked how much do hotels represent in the overall revenue; CFO Taitano said about 20% overall adding the trend is that what is lost in hotels is made up in residentials.

On the motion there was no further discussion or objection and the motion passed unanimously – 5 ayes.

5 OTHER DISCUSSION

5.1 CCU Rules Update

This matter was not discussed.

6 ANNOUNCEMENTS

6.1 Next CCU Meetings

The Chairman announced that the next meeting would be the GWA work session on Sept. 15; the GPA work session on Sept. 17 and the regular monthly CCU meeting on Sept. 22

7. ADJOURNMENT

There being no other business to bring before the Commission, the meeting adjourned at 6:49 p.m.

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Attested

JOSEPH T. DUENAS, Chairman

MICHAEL T. LIMTIACO Secretary