Gmail

Senator Therese Terlaje <senatorterlajeguam@gmail.com>

Fwd: CCU MEETING 11/27/18 / MATERIALS

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

Fri, Nov 30, 2018 at 9

11-29-18	14:17	11-27-18	Consolidated Commission on Utilities - Meeting Materials for CCU Regular Board Meeting November 27, 2018 *Email	Consolidated Commission on Utilities GPA/GWA	34GL-18-2611

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The Office of Vice Speaker Therese M. Terlaje
Committee on Culture and Justice
I Mina'trentai Kuåttro na Liheslaturan Guåhan
34th Guam Legislature
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---------- Forwarded message ----------
From: **Bernadette Lou Sablan** <l.sablan@gpagwa.com>
Date: Tue, Nov 27, 2018 at 2:17 PM
Subject: CCU MEETING 11/27/18 / MATERIALS
To: **Angelica Perez** <aperez@amibrokers.com>, **Ann Borja - GWA** <annborja@guamwaterworks.org>, **Annmarie Muna** (amuna@ambrokers.com) <amuna@ambrokers.com>, **Artemio S Pere** <aperez@gpagwa.com>, **Cameron Mulka** (cimiculka@guampdn.com) <cimiculka@guampdn.com>, **Chilang F Unpingco** <cfejeran@gpagwa.com>, **Chris Budasi** (cbudasi@guamwaterworks. <cbudasi@guamwaterworks.org>, **Fred Horecky** (horeckylaw@teleguam.net) <horeckylaw@teleguam.net>, **Gaynor Delano** (gdumat-ol@guam.gannett.com) <gdumat-ol@guam.gannett.com **Gilda Mafnas** <gildam@guamwaterworks.org>, **Governor's Office** <joy.unpingco@guam.gov>, **Greg P. Cruz** <gpcruz@guamwaterworks.org>, **Heidi Ballendorf** <heidi@guamwaterworks.org>, **Jams Y Kim** (pacguam@gmail.com) <pacguam@gmail.com>, **Jeff Johnson** (jeffcharjohnson@hotmail.com) <jeffcharjohnson@hotmail.com>, **Jennifer G Sablan** <jsablan@gpagwa.com>, **Jes Peterson** (webmaster@theguamguide.com) <webmaster@theguamguide.com>, **Jessy Gogue** (ocp.mayor@gmail.com) <ocp.mayor@gmail.com>, **Joe John Mantanona** (joejohnmantanona@gmail.com) <joejohnmantanona@gmail.com>, **John O'Connor** (john@postguam.com) <john@postguam.com>, **John Reigel** (jriegel@brwncald.com) <jriegel@brwncald.com>, **Joyce N Sayama** <jsayama@gpagwa.com>, **Karla Tydingco** <ktydingco@guamwaterworks.org>, **Kevin Kerrigan** (kevin@postguam.com) <kevin@postguam.com>, **Garrido** <kim.garrido@mec-guam.com>, **Louella Losinio** (louella@postguam.com) <louella@postguam.com>, **Manny Apuron** <mapuron@guamwaterworks.org>, **Manny Cruz** <mlcruz@guampdn.com>, **Maripaz N. Perez** <mnperez@gpagwa.com>, **Michael White** (whitema@cdmsmith.com) <whitema@cdmsmith.com>, **Nestor Licanto** (nestor@kuam.com) <nestor@kuam.com>, **Patricia L. Diego** <pldiego@gpagwa.com>, **PDN Newsroom** (news@guampdn.com) <news@guampdn.com>, **Peter Montinola** (peter@isuguam.com) <peter@isuguam.com>, **Selma HG Blas** <sblas@gpagwa.com>, **Steve Limtiaco** (slimtiac@guam.gannet.com) <slimtiac@guam.gannet.com>, **Telena Nelson** (senatortcnelson@gmail.com) <senatortcnelson@gmail.com>, **Therese Terlaje** (senatorterlajeguam@gmail.com) <senatorterlajeguam@gmail.com>, **Tina Thai** <tina.thai@ipehq.com>, tinathai671@gmail.com <tinathai671@gmail.com>

Hi everyone,

Attached is the pdf version of board books for tonight's CCU meeting.

Best,

Lou Sablan

B. Lou Sablan

Board Secretary

Consolidated Commission on Utilities

Admin Asst., Legal Counsel, GPA

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http://guampowerauthority.com/home.html

http://guamwaterworks.org/

Vice Speaker Therese M. Terlaje
34GL-18-2611
NOV 29 2018
Time: 14:17
Received by:

2018 NOV 30 AM 9:32

2611

2 attachments

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CCU 11.27.18.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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., November 27, 2018

AGENDA

1. CALL TO ORDER

2. APPROVAL OF MINUTES

3. COMMUNICATIONS
   - 3.1 Public Comments (2 min. per person)

4. GPA
   - 4.1 New Business
   - 4.1.1 GM Report
   - 4.1.2 Financials
   - 4.1.3 Resolution 2018-27 Levelized Energy Adjustment Clause (LEAC)
   - 4.1.4 Resolution 2018-28 Creation of Equipment Operator Superintendent Position
   - 4.1.5 Resolution 2018-29 Relative to FHB Credit Card
   - 4.1.6 Resolution 2018-30 Relative to 2nd Year Extension to Diesel Fuel Contract
   - 4.1.7 Resolution 2018-31 / GWA Resolution 10-FY2019 Ratification of the Nov. 23, 2018 Thanksgiving Holiday

5. GWA
   - 5.1 New Business
   - 5.1.1 GM Report
   - 5.1.2 Financials
   - 5.1.3 Resolution 02-FY2019 Relative to Proposed Contract with Eurofin Eaton Analytical Inc. for Laboratory Services
   - 5.1.4 Resolution 03-FY2019 Relative to Ratification of the Contract Extension with Eurofin Eaton Analytical Inc. Testing Services
   - 5.1.5 Resolution 04-FY2019 Approval of a Multi-Year Lease Agreement for Heavy Equipment
   - 5.1.6 Resolution 05-FY2019 Approval of a Two-Year Extension of the Contract with JMI Edison for the Purchase of Cationic Polymer for the Hagatna and Northern Wastewater Treatment Plants
   - 5.1.7 Resolution 06-FY2019 Approval of a Two-Year Extension of the Contract with Total Chemical Resources, Inc. for the Purchase of Anionic Polymer and ACH Aluminum Chlorhydrate for the Hagatna and Northern Wastewater Treatment Plants
   - 5.1.8 Resolution 07-FY2019 Approval of Change Order to the Construction Management Contract for the Agat-Santa Rita WWTP Upgrades
   - 5.1.9 Resolution 08-FY2019 Approval of Change Order to the Design Contract for the Agat-Santa Rita WWTP Upgrades
   - 5.1.10 Resolution 09-FY2019 Approval of Change Order to the Construction Management Contract for the Baza Gardens Wastewater Conveyance Project

5.1.11 Resolution 10-FY2019/ GPA Resolution 2018-31 Ratification of the Nov. 23, 2018 Thanksgiving Holiday

6. ANNOUNCEMENTS

6.1 Next CCU Meetings: No Work Session or Meeting in December
January 2019 CCU Calendar: Jan. 10 - CCU Oath of Office; Jan. 15 – GWA WS; Jan 17 - GPA WS
Jan. 22 – CCU Meeting

7. EXECUTIVE SESSION

7.1 Personnel Matter

7.2 Litigation Matter

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
4:30 p.m., October 19, 2018

MINUTES

1. CALL TO ORDER

The Chairman called the CCU regular meeting of October 19, 2018 to order at 4:35 p.m. He said all four (4) Commissioners were present; Comm. Bamba was absent and excused. Others in attendance include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis Santos	CCU Vice Chairman
Judith P. Guthertz	CCU Treasurer
Simon A. Sanchez	CCU Member

Executive Mgmt.:

John Benavente	GM / GPA
Miguel Bordallo	GM / GWA
Melinda Mafnas	AGMO / GPA
John Cruz	AGMET / GPA
Tricee Limtiaco	AGMA / GPA
John Kim	CFO / GPA
Greg Cruz	CFO / GPA
Graham Botha	Staff Attorney / GPA

Management & Staff:

Roy Topasna	GWA
Zina Pangelinan-Charfauros	Personnel Administrator / GWA, HR
Vincent Pangelinan	GWA
Gilda Mafnas	Asst. CFO / GWA, Finance
Janet Arroyo	Internal Auditor / GWA
Heidi Ballendorf	Communications / GWA
Patti Diego	Communications / GPA
Joyce Sayama	Mgmt. Analyst / GPA Ex. Office
Lou Sablan	Board Secretary / CCU

Guest:

Fred Horecky	ALJ / PUC
Manny Cruz	PDN

2. APPROVAL OF MINUTES

The Minutes of September 25, 2018 was presented for approval.

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

3. COMMUNICATIONS

3.1 Public Comments - None

4. GWA

4.1 New Business

4.1.1 GM Report

GWA GM Bordallo said there is no change on the report he gave at the GWA Work Session on 10/16. Below is a summary; a copy of the complete report is available upon request.

Operations Update

Production

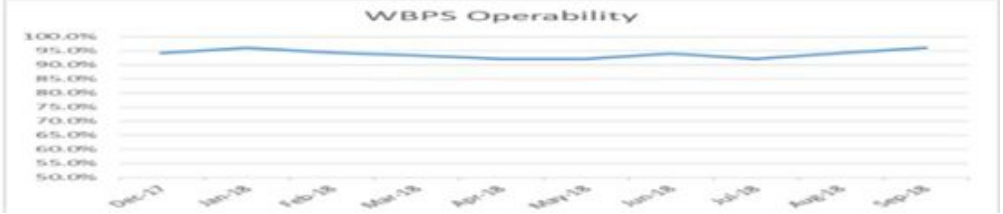
Monthly Production Summary - September 2018			
Deep Wells			35.6 MGD
Active wells =	100	of 120	
Avg days in operation =	30	days	
Total Production =	1,066,897	Kgals	
Springs			0.00 MGD
Avg days in operation =	0	days	*placed on standby
Total Production =	0	Kgals	
Ugum Surface Water Plant			1.8 MGD
Avg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

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



Distribution

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

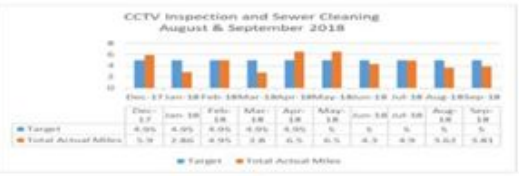


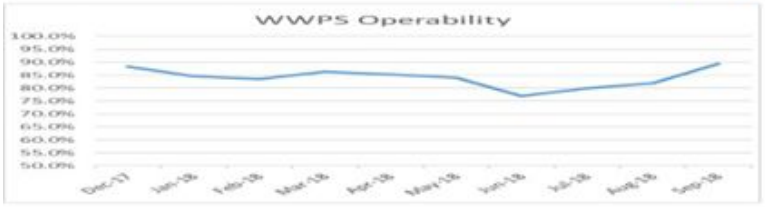
Wastewater Collections

Monthly Collections Summary - September 2018

Wastewater Pump Stations

District	No. of Stations	Total Pumps	Pumps Operating	% Operational
Northern	22	52	48	92.3%
Central	29	65	55	84.6%
Southern	25	52	48	92.3%
	76	169	151	89.3%



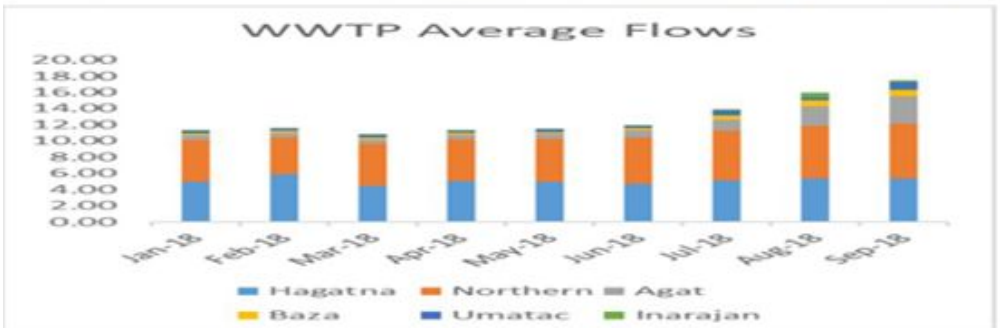


Wastewater Treatment

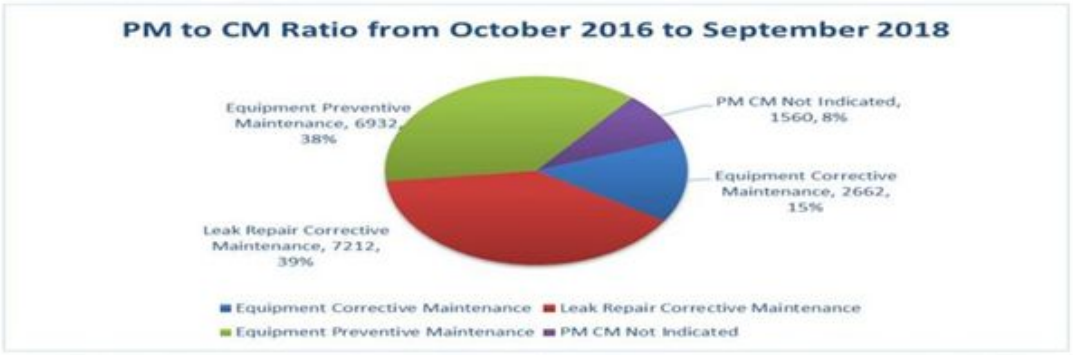
Monthly Wastewater Treatment Summary - September 2018

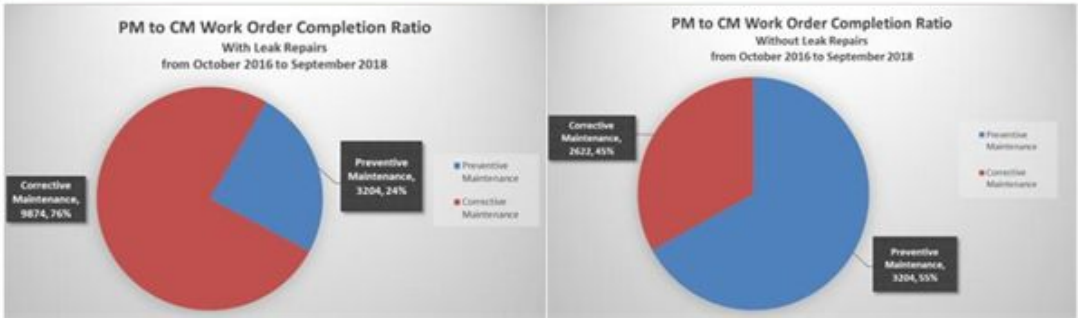
WW Treatment Plants - Flows

Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. ($)
Hagatna	5.40	333,740	$ 30,037
Northern	6.7	711,820	$ 64,064
Agat	3.46		
Baza	0.75		
Umatac	0.90		
Inarajan	0.24		
	17.45	1,045,560	$ 94,100



Asset Management for September 2018





Operational Issues

Production & Distribution

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

Wastewater Collection & Treatment

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

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

Meters for month of September 2018

COMPLETED FIELD ACTIVITY JAN 2017 THRU SEPT 2018 (POSTED IN CIS)	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	TOTAL:	COMPLETED FIELD ACTIVITIES (INVOICED TO BE POSTED IN CI
GWA - Test Meter	30	9	9	371	745	87	393	743	1000	1007	434	378	750	969	1213	1429	84	1299	797	1489	639	13875	699
GWA - Meter Exchange	393	179	220	276	482	353	501	807	1526	1039	452	259	239	1086	2120	121	121	1056	1248	1125	767	14370	146
GWA - Verify Zero Report	30	124	114	94	96	402	261	199	550	89	82	169	356	106	117	69	13	2	2	1	5	2881	0
GWA - Verify Low Usage	0	0	0	2	37	36	196	488	657	202	127	612	858	1222	1055	463	19	5	3	6	6	5894	0
TOTAL:	453	312	343	743	1360	878	1351	2237	3733	2337	1095	1418	2203	3283	4505	2082	237	2362	2050	2621	1417	37020	845

REPORTS:	345	350	344	252	305	220	302	397	1013	1150	927	704	721	1041	1347	815	671	544	1159	1228	1013	14606	
# OF BACKBILLINGS APPLIED AS PER FINANCE REPORTS:	0	0	0	20	122	84	29	111	219	80	77	4	136	23	323	48	75	20	30	253	243	1897	$ 1,200,636.2

# OF FIELD CREW PERFORMING CHANGE OUTS	10	10	13	9	21	21	14	24	30	28	28 *	28 *	5	13	2	2	2	28	17	25	25		
# OF ADMIN STAFF TO CREATE AND POST FIELD ACTIVITIES IN CIS:	7	4	5	6	9	9	10	13	15	15	13	13	8	11	5	4	1	13	9	5	5		
# OF SUPPLY STAFF TO ISSUE WATER LID AND PROGRAM NEW METERS	2	2	2	2	2	2	2	2	2	2	2	2	2	4	0	0	0	2	2	2	2		
# OF TEST FACILITY PERSONNEL TESTING METERS	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1	2	2		
# OF ACCOUNTANTS CALCULATING BACK BILLS:	0	0	0	2	3	2	2	3	3	2	2	2	2	2	2	2	2	2	2	N/A	N/A		
TOTAL:	30	18	22	22	38	37	31	45	58	50	48	48	20	32	11	10	7	47	31	34	34		

* Projects were mainly started 11.8.2017 thru Dec 8.2017. During this period, Kyle full time performed work on this project during the regular work day with a majority of the work completed during Nov and Dec month accruing back hours after the DT moratorium.
NOTE: MARCH 9, 2018 - PROJECT ON HOLD PENDING ARRIVAL OF M METERS
Project resumed June 04 2018, added 2 hrs per week for Kevin on June 18, 2018
REMAINING ACTIVE BADGER LP MODELS AS OF SEPT 30, 2018: 17014

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

Marbo (Andy-South) Wells – Status

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

One Guam Update

- Tumon Maui Well:
  - Repairs to damaged fence completed; Repairs to tank hatch pending.
- Santa Rosa Tank:
  - NAVFACMAR CO has briefed Andersen MSG (Missions Support Group) commander, and Civil Engineering Squad (CES) commander, and the General regarding the MOU for the Santa Rosa Tank project. Further action by GWA pending finalization of MOU.

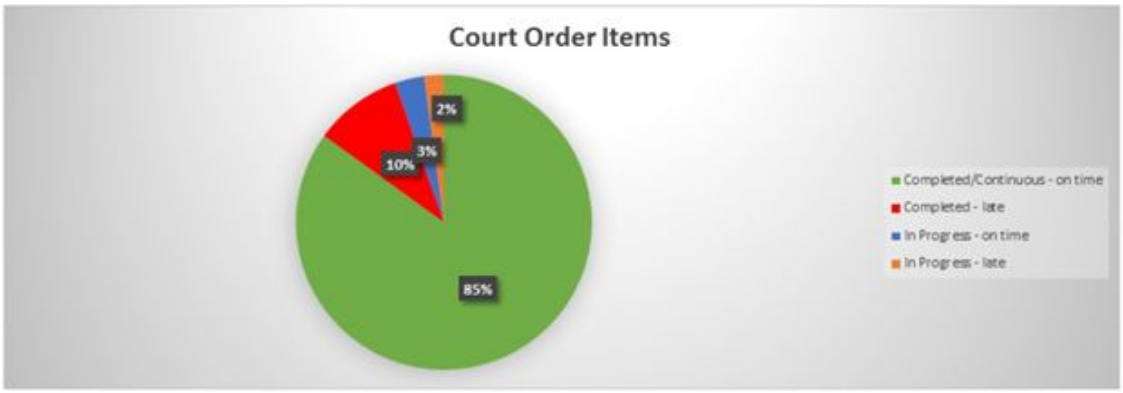
- Agat-Santa Rita WWTP
  - Still waiting on revised letter from Navy real estate office regarding in-kind consideration for easement costs.
- OEA Projects
  - NGLA Observation Wells - Discussion with DoD's Legal needed to nail down ownership and maintenance issues
  - Interceptor – working out coordination issues with regard to by-pass routing, GPA renewable project, and housing demo
- Training and Collaboration
  - AWWA HIWPS training for operators – waiting for DoD interest
  - CIPP training scheduled for this month Oct 22-26.

30-Other

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

Court Order

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



Status Information

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

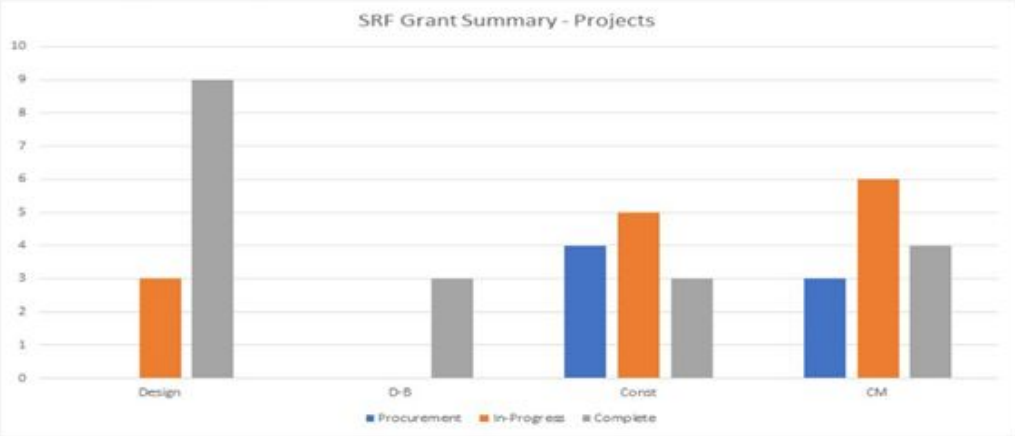
CIP Summary

Pending reconciliation between Engineering and Finance

SRF Grant Summary

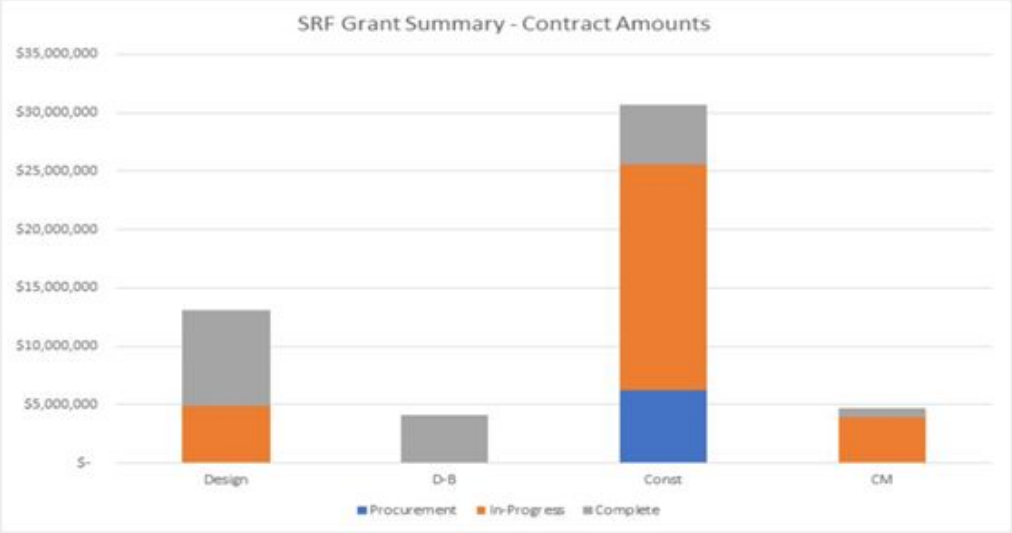
SRF Grant Summary - Projects (Sep 2018)

	Procurement	In-Progress	Complete	Totals	%
Design	0	3	9	12	30%
D-B	0	0	3	3	8%
Const	4	5	3	12	30%
CM	3	6	4	13	33%
Totals	7	14	19	40	
%	18%	35%	48%		



SRF Grant Summary - Contract Amounts (Sep 2018)

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



OEA Grant Summary

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

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

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

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

Action Item	Date (Target)	Date (Actual)	Status	Remarks
Project Funds Available	July-16	AUG-30-16	Completed	
Land Acquisition	Jan-17	Jan-17 (Compensation Pending)	Completed	Survey complete, appraisals complete – Deed circulated for signatures
Procure PM/CM Firm	Jan-17	Jan-17 (NTP Issued Feb 10th)	Completed	
Procure Design Firm	Jul-17		Completed	Contract issued; kickoff pending
Design -- 30/60/90/Final -- Review	Jun-18	30% - completed May 60% - expected Sep	On-target	Project design schedule has been revised / delayed
NEPA Analysis and Determination	Feb-17	Pending	Delayed	USEPA received SHPO concurrence; OEA to review EPA EA
Procure Construction Firm	Dec-18		On-target	Phased construction; Phase 1 expected award before Dec '18; Phase 2 award in 1st quarter '19
Construction Complete/Commence Operations	Nov-21		On-target	
Sewer line connection from MCB to GWA infrastructure	Jul-19		On-target	
MCB Initial Operating Capability	Jul-22		On-target	

Land Acquisition Summary

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

4.1.2 Financials

CFO Cruz said there was no change to the Financial Report given at the GWA Work Session. The report was preliminary for year end for FY2018 ending Sept. 30, 2018. Revenue is short by 4% of projections. He attributes this to meters. For 2018 sales for water is about 6billlion gallons but estimates is about 5.7billion which was what it's been for about 3 years. We are at 42,000 customers last year and is about the same this year. It was mentioned that the meter issue when resolved may make a difference. There was discussion on some items listed in the statement of operations.

5. GPA

5.1 New Business

5.1.1 GM Report

- General Issues

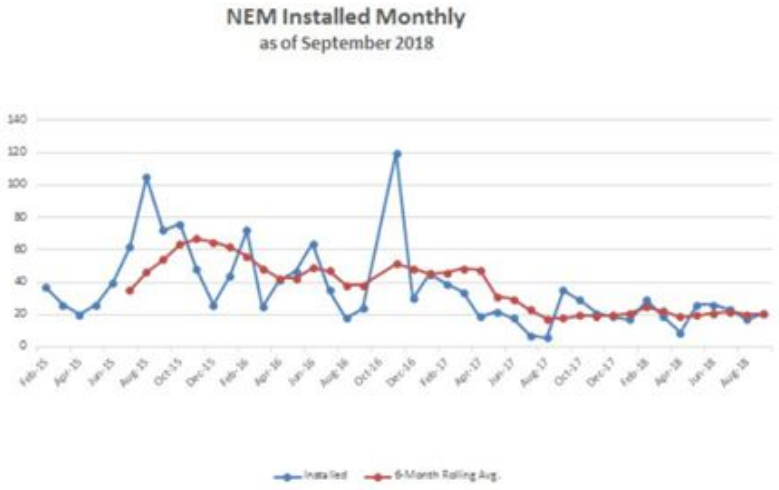
1. Generation System: The following summarizes the generation capacity projection for November 2018. The Cabras steam units are currently on-line but limited to about 50 MW each. MEC 8 is undergoing its major overhaul scheduled from October 15th to November 6th.

October 2018 Projected Capacity:	**319 MW**
October 2018 Projected Demand:	**240 MW**
Anticipated Reserve Margin:	**79 MW**

2. Net Melering Summary Ending September 2018:

Description:	Count	Kw
Active	1,771	18,823
Pending	19	241
Totals:	1,790	19,064

Service:	Count	KW	Kw/Customer
Residential	1,678	15,446	9.2
Others	93	3,377	36.3
Total:	1,771	18,823	10.6
% Residential	94.7%	82.1%	
Estimated 12 Months Revenue Impact:	$3,521,130		



3. Demand Side Management Expenses Thru September 2018

Description	FY16	FY17	FY18 as of 9/30/2018*	Total to Date
Regular/OT Pay	$ 11,348.80	$ 22,256.00	$ 20,469.95	$ 54,074.75
Other Contractual	$ 28,278.50	$ 85,550.05	$ 99,622.25	$ 213,450.80
Bank Fees	$ 155.00	$ 1,032.06	$ 1,085.08	$ 2,272.14
Paid Rebates-Split AC	$ 154,700.00	$ 557,275.00	$ 1,141,925.00	$ 1,853,900.00
Paid Rebates- Central AC	$ 3,400.00	$ 8,200.00	$ 4,400.00	$ 16,000.00
Paid Rebates- Washer/Dryer	$ 2,800.00	$ 7,425.00	$ 41,000.00	$ 51,225.00
Total Expenses	**$200,682.30**	**$681,738.11**	**$1,308,502.28**	**$2,190,922.69**

DSM PROGRAM SUMMARY

DSM Program reduces peak demand and reduces LEAC cost for all customers at a one time fixed rebate. DSM eliminates running less efficient peaking units at peak time thereby reducing fuel cost.

DESCRIPTION	AMOUNT
Initial DSM Budget FY'16	$ 1,806,014.00
Interest Income as of Sep 18	$ 4,621.45
Total Expense	**$ 2,190,922.69**
Ending Balance as of Sep 18	$ (380,287.24)
Addtl. Budget: Approved (FY'18)	$ 1,139,189.00
Total Ending Balance as of Aug 18	**$ 758,901.76**

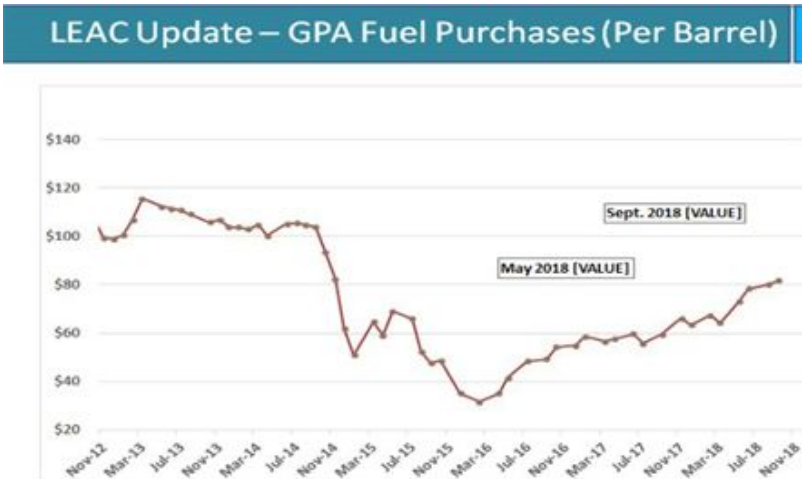


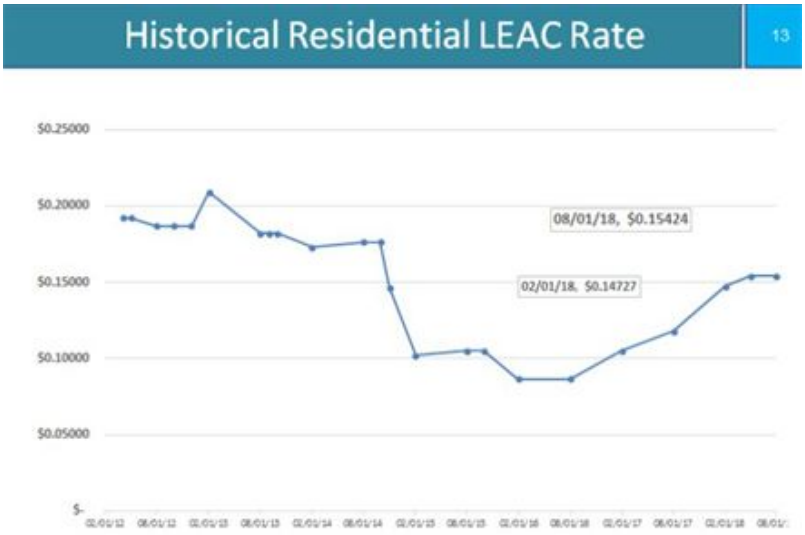
4. **PUC Dockets: Dockets on Agenda for October 25th**
    - **19-01 Bulk Storage Tanks Inspection and Refurbishment**
    - **19-02 New ULSD Pipeline System**
    - **19-03 Property Insurance Contract**
5. **New 180 MW Power Plant:** The short listed seven (7) proponents have received the technical specifications. Bid opening is scheduled for January 2019.
6. **Meetings with Mayors':** We held meetings on October 10th and 11th here at Fadian with the village Mayors. The meeting covered typhoon restoration efforts, vegetation management and other issues. Meeting was well received and we plan to hold meetings quarterly in order to keep mayors abreast with developments within GPA and as a means for improved communications with the Mayors.
7. **Meetings with Employees:** We held our semi-annual briefing of employees on October 3rd and 4th. Briefing covered the many issues GPA faced over the past several months and the near term goals GPA is pursuing. We thanked employees most especially for their excellent work during the Typhoon Mangkhut recovery.
8. **New 40 MW Energy Storage Systems:** The 16 MW and 24 MW battery systems are now scheduled for completion in December 2018. The project will improve reliability by reducing loss of a generator related outages by over 70%.
9. **New SCADA System:** The new SCADA system for Power, Water and Wastewater is scheduled for completion by October 31st 2018. We are planning the commissioning ceremony for late November 2018. The system will improve system dispatching and day to day coordination between GPA and GWA.



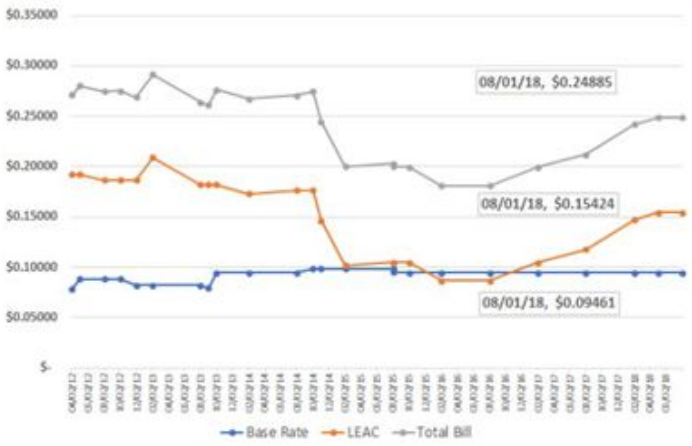
10. **$1.25M Grant Award from Office of Insular Affairs "Energizing Insular Communities" (EIC):**
    - **GPA was awarded funding for the following two projects which will save GDOE greater than $250K per year**:
        - $954,685 -GUAM-EIC-2018-1, Bringing Energy Savings To (BEST) Schools, Southern High School LED Lighting Retrofit
        - $295 ,315 -GUAM-EIC-2018-2, Bringing Energy Savings To (BEST) Schools, George Washington High School LED Lighting Retrofit
        - GPA will continue to apply for grants including ones under Pre-Disaster Mitigation and Hazard Mitigations Grant opportunities which became available when the President declared Guam a disaster area due to Typhoon Mangkhut in 2018. GPA intends to submit a grant proposal to provide standby generators at all the schools in order to avoid lost school day due to storms.
        - **Congratulations and Thank you to Project Manager Ms. Jessica T. Lazatin (Engineer I)**, Mr. Cruz, AGMET, and Mrs. Jennifer Sablan, SPORD Manager and the SPORD team for obtaining this significant grant in support of our community.

11. **BEST Schools Study:** The Siemen's group will be in Guam in November to present their findings and recommendations on energy and water cost savings opportunities and supply options for the GDOE schools. We will be scheduling a session for the presentation. This $250K study is funded by GPA from savings of the recent bond refinancing.
12. **LEAC Update**: Fuel prices have gone up in the past couple of months. Attached are slides showing the Historical LEAC Over (Under) Recovery and scenario model runs with the latest fuel price from Oct 10th to 15th .
13. **Key Performance Indicators:** The following are indicators thru September 2018. Key points include:
    - **Fuel oil cost continued to climb**
    - **Peak demand has dropped substantially**
    - **KWH sales continue to decline**





Historical Residential Rate



Historical LEAC Over (Under) Recovery

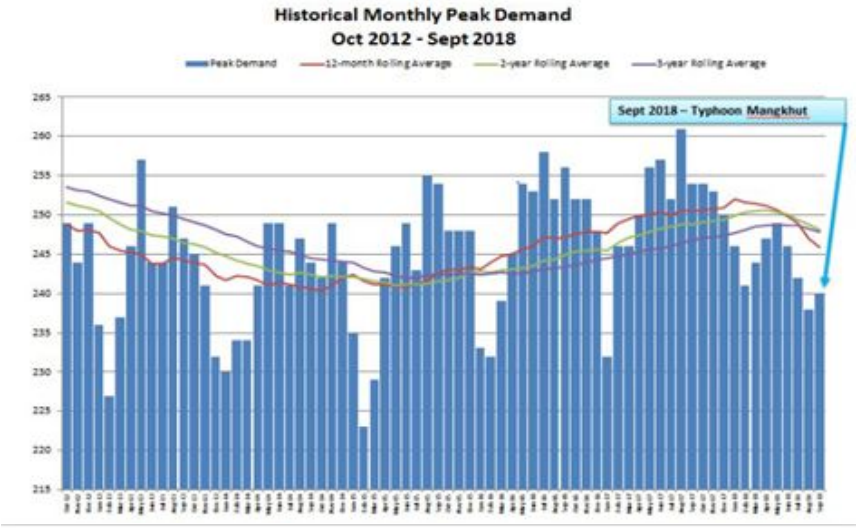
LEAC Period From	To	Approved LEAC Rate	Actual Over (Under) Recovery	
4/1/2012	7/31/2012	$ 0.192310	$ (3,040,418)	
8/1/2012	1/31/2013	$ 0.186834	$ (2,494,052)	
2/1/2013	7/31/2013	$ 0.209271	$ 1,345,259	
8/1/2013	10/31/2013	$ 0.182054	$ 1,300,093	
2/1/2014	7/31/2014	$ 0.172986	$ (1,137,034)	
8/1/2014	10/31/2014	$ 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	$ (11,841,650)	Estimate

LEAC Update – Scenario Model Runs

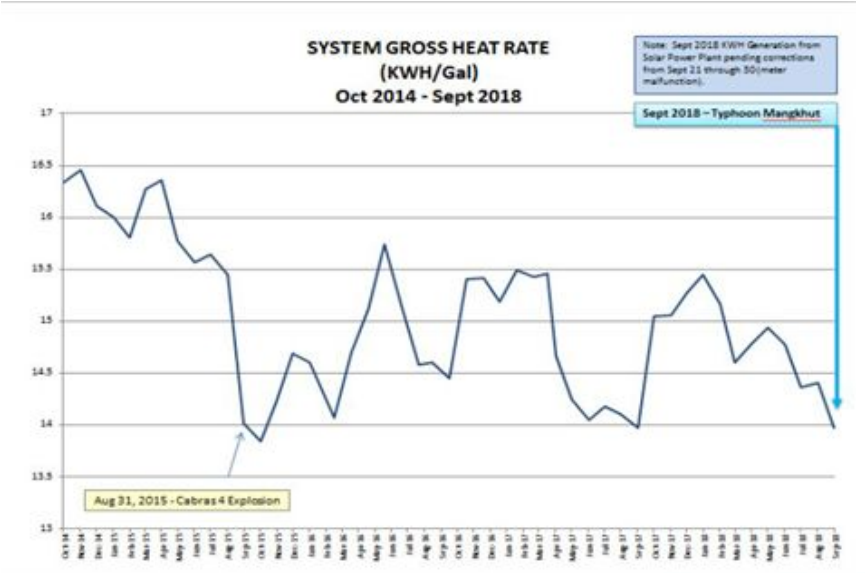
	Proposed Effective 02/01/2019	Fuel Price (Oct 10-15, 2018) @ Zero Cost Recovery	@ 50% Recovery	@ Full Cost Recovery
1	Average Price per BBL-RFO	$ 85.64	$ 85.64	$ 85.64
2	Average Price per Gal-Diesel	$ 105.02	$ 105.02	$ 105.02
3	Proposed LEAC Rate	**$ 0.154242**	**$ 0.169659**	**$ 0.185078**
4	Monthly Increase/(Decrease) - 1000 kWh	$ -	$ 15.42	$ 30.84
5	% Increase/(Decrease) in LEAC	0.00%	10.00%	19.99%
6	% Increase/(Decrease) in Total Bill	0.00%	6.2%	12.39%
7	Fuel Cost (Over) Under Recovery at the end of the period	**$20.0M**	**$10.0M**	$ -

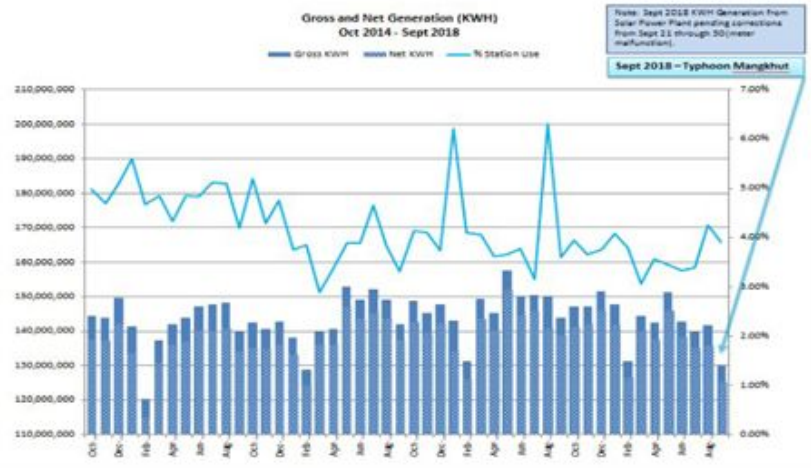
LEAC Update – Billing Illustrations

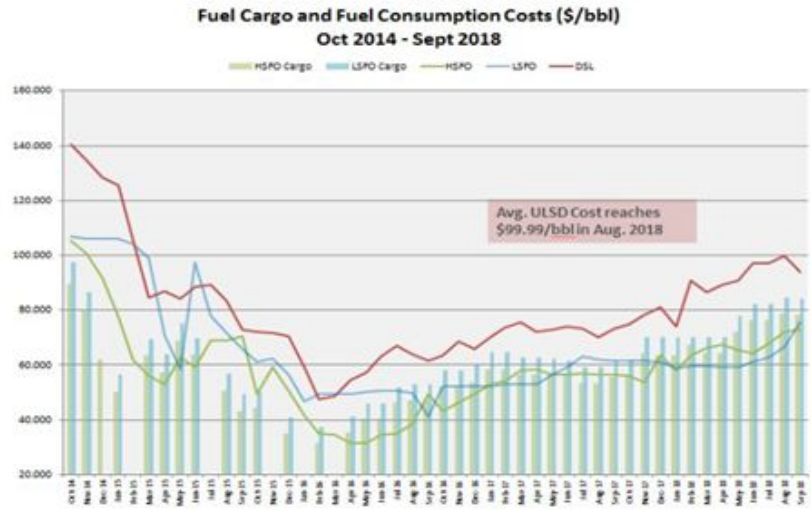
	@ Zero Recovery Effective 2/1/19		@ 50% Recovery Effective 2/1/19		@ Full Recovery Effective 2/1/19	
KWH		1,000		1,000		1,000
Monthly Charge	15.00	15.00	15.00	15.00	15.00	15.00
Non-Fuel Energy Charge						
First 500 KWH	0.06955	$ 34.78	0.06955	$ 34.78	0.06955	$ 34.78
Over 500 KWH	0.08687	$ 43.44	0.08687	$ 43.44	0.08687	$ 43.44
Emergency Water-well charge	0.00279	$ 1.40	0.00279	$ 1.40	0.00279	$ 1.40
Insurance Charge		$ -		$ -		$ -
Working Capital Fund Surcharge		$ -		$ -		$ -
Roll-Back Credit		$ -		$ -		$ -
Total Electric Charge before Fuel Recovery Charges		$ 94.61		$ 94.61		$ 94.61
Fuel Recovery Charge	0.154242	154.24	0.169659	169.66	0.185078	185.08
Total Electric Charge		$248.85		$264.26		$279.68
Increase (Decrease) in Total Bill		$0.00		$15.42		$30.84
% Increase (Decrease) in Total Bill		0.00%		6.20%		12.39%
% Increase (Decrease) in LEAC		0.00%		10.00%		19.99%
Cents/KWh		$ 0.2488		$ 0.2643		$ 0.2797






SYSTEM GROSS HEAT RATE
(KWH/Gal)
Oct 2014 - Sept 2018
Note: Sept 2018 KWH Generation from Solar Power Plant pending corrections from Sept 21 through 30(meter malfunction).
Sept 2018 – Typhoon Mangkhut
Aug 31, 2015 - Cabras 4 Explosion


Gross and Net Generation (KWH)
Oct 2014 - Sept 2018
Gross KWH
Net KWH
% Station Use
Note: Sept 2018 KWH Generation from Solar Power Plant pending corrections from Sept 21 through 30(meter malfunction).
Sept 2018 – Typhoon Mangkhut


Fuel Cargo and Fuel Consumption Costs ($/bbl)
Oct 2014 - Sept 2018
HSFO Cargo
LSFO Cargo
HSFO
LSFO
DSL
Avg. ULSD Cost reaches
$99.99/bbl in Aug. 2018

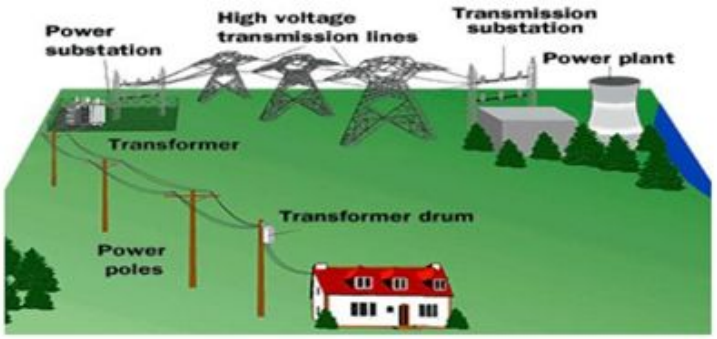
- PUC Docket 19-05 Standby Generators

GWA CRITICAL Water, and Wastewater ASSETS WIDESPREAD
Difficult to recover immediately After Storms!!!



HOW POWER IS DELIVERED

Substantial Repairs Need to be done before Customer Receives Power



T&D SYSTEM

Description	Overhead Miles	Underground Miles	TOTAL Miles
Transmission Lines	154	35	189
Distribution Lines	1,331	307	1,638
Substations	29		
Distribution Feeders	67		
GPA Customers Served	50,763		

Sector	# of Feeders	Transmission Lines (mi)	Distribution Lines (mi)
North	33	72	790
Central	23	47	552
South	11	70	296

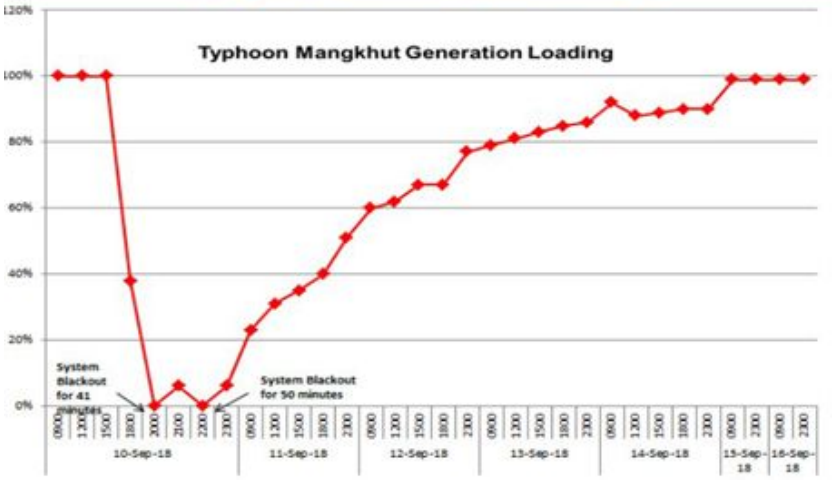
GPA CUSTOMERS

Northern Villages	28,056 Customers
Dededo	12,528
Tamuning-Tumon-Harmon	10,248
Yigo	5,280

Southern Villages	7,160 Customers
Agat	1,478
Inarajan	766
Merizo	528
Santa Rita	1,170
Talofofo	1,016
Umatac	196
Yona	2,006

Central Villages	16,130 Customers
Agana Hts.	1,142
Asan-Maina	724
Barrigada	2,988
Chalan Pago-Ordot	2,201
Hagatna	798
Mangilao	4,490
Mongmong-Toto-Maite	2,261
Piti	647
Sinajana	879

System Loading



Restoration Delays are Costly to GPA
Typhoon Mangkhut Revenue Loss Almost a $1M

Pre-Typhoon Period			Post-Typhoon Period			VARIANCE (KWH)	Projected Sales Loss
Date	Day	Net KWH	Date	Day	Net KWH		
3-Sep	Mon	4,459,346	10-Sep	Mon	3,023,541	1,435,805	$ 136,799
4-Sep	Tue	4,476,709	11-Sep	Tue	1,358,717	3,117,992	$ 297,072
5-Sep	Wed	4,505,685	12-Sep	Wed	2,878,520	1,627,165	$ 155,031
6-Sep	Thu	4,487,488	13-Sep	Thu	3,701,117	786,371	$ 74,923
7-Sep	Fri	4,565,742	14-Sep	Fri	4,107,311	458,431	$ 43,678
8-Sep	Sat	4,614,858	15-Sep	Sat	4,463,970	150,888	$ 14,376
9-Sep	Sun	4,595,994	16-Sep	Sun	4,454,821	141,173	$ 13,450
	TOTAL:	31,705,821			23,987,997	7,717,824	$ 735,328

* Based on the August Revenue Reports average base rate

Water Service Crucial to Health and Wellness of Island Community and Typhoons on Guam Impact Water Service; GPA's Top Priority is to Restore Power to Water Wells and Wastewater Stations; Without Standby Generators Recovery to Customers Substantially Delayed Six Major Typhoons Impacted Guam Between 1988 to 1992

Date	Typhoon	Estimated Winds MPH	Estimated Damages
11-Nov-62	KAREN	175 to 185	$250M
21-May-76	PAMELA	150	$500M
12-Jan-88	ROY	100 to 130	$28M
21-Apr-89	ANDY	80 to 100	
20-Dec-90	RUSS	120 to 150	$120M
27-Nov-91	YURI	90 to 115	$33M
28-Aug-92	OMAR	135 to 150	$457M
23-Nov-92	GAY	100	No Data
16-Dec-97	PAKA	145 to 185	$500M
28-Jun-02	CHATAAN	110	$60M
8-Dec-02	PONGSONA	144 to 173	$700M
15-May-15	DOLPHIN	80 to 106	$10M
Sept 8 2018	MANGKHUT	80 to 100	

Typhoons Typically Causes Substantial Water Outages

Without Standby Generators Water Restoration to all Customers will be Substantially Delayed Causing Hardship to the Community

Date	Typhoon	Days of Significant Water Issues (Source: PDN Articles)
11-Nov-1962	KAREN	???
21-May-1976	PAMELA	???
12-Jan-1988	ROY	10 days
21-Apr-1989	ANDY	*no major structural damage/only crop damage
20-Dec-1990	RUSS	8 days
27-Nov-1991	YURI	6 days
28-Aug-1992	OMAR	17 days
23-Nov-1992	GAY	*little additional destruction/Omar earlier
16-Dec-1997	PAKA	15 days
28-Jun-2002	CHATA'AN	25 days
8-Dec-2002	PONGSONA	30 days
15-May-2015	DOLPHIN	12 days to Restore Affected 11% of GWA Customers
8-Sep-2018	MANGKHUT	5 days for <1% of GWA Customers

GPA Installed 143 STANDBY GENERATORS in 1993

Generators Were Installed with $13M of GPA 1992 Bond Funds to Insure Water Wells and Wastewater Facilities Had Electricity after Typhoons so that GPA could Effectively and Efficiently Restore All Power Customers

- About 145 Water and Wastewater Assets in 1993
- Generators were installed in typhoon proof buildings
- Generators installed with automatic transfer switches and fuel tanks adequate for running several days without refueling
- From 1993 to 2015 GWA added more water and wastewater assets including about 90 standby generators
- 89% of GWA customers had water during and after Typhoon Dolphin in 2015
- GPA took responsibility for 90 GWA generators in November 2015
- During and after Typhoon Mangkhut, greater than 99% of GWA customers had water service because of the GPWA Standby Generator Partnership
- GPWA Continues Working Towards Having All GWA Assets With Generators

STANDBY GENSETS AT GWA SITES

GWA Water Wells, Water Booster Pump Stations, Wastewater Pump Stations and Wastewater Lift and Ejector Stations

- About 88 % of Operating Water and Wastewater Assets have standby generators installed
- Uninterrupted water service to the South throughout Typhoon Mangkhut, except for high elevation areas which had boosters
  - GPA installed 800 kW generator at Ugum in November 2017
  - GWA upgraded Ugum plant membranes to process higher turbidity water
- GPA to begin replacement program of standby generators over 10 years. Units are mostly 25 years old now and near end of useful life
- More portable generators need to be procured for emergencies
- Planning underway to implement short term solutions to small water booster stations and wastewater lift stations which suffered prolong power interruptions causing no water service to high elevation customers and sewage spills to customers in low areas
- About 27 Operating Asset Sites Without Generators and will Require Capital Investments to Installed Concrete Building to House Generator, Automatic Transfer Switch and 7 Days of Fuel Supply

STANDBY GENSETS AT GWA SITES

GWA TOTAL OPERATING ASSETS			
	With Generator	No Generator	TOTAL
Booster Pumps	20	11	31
Waterwells	100	5	105
Wastewater	70	11	81
Laboratory	1		1
TOTAL	**191**	**27**	**218**
Percentage With Generators:	87.6%		

STANDBY GENSETS AT GWA SITES

GENERATOR AVAILABILITY			
	Operational	Down	Availability
Booster Pumps	20	0	100.0%
Waterwells	97	3	97.0%
Wastewater	65	5	92.9%
Laboratory	1	0	100.0%
TOTAL	**183**	**8**	**95.8%**

STANDBY GENSETS AT GWA SITES

Lack of generators at small water booster pump stations caused interrupted water service to about 150 Customers; GWA customers total about 42,000

Because water service continued thru the typhoon, sewage spills occurred at small lift stations because no generators available

The following pictures show some locations which lack standby generators and mainly consist of water booster stations and wastewater lift and ejector systems

GPA Surcharge Chronology

- Public Law 21-133 directed GPA to procure and install standby generators to be used for the operation of Public Utilities of Guam (PUAG) water wells, water booster pumps and wastewater pump stations
- Approximately $13 million from the 1992 30-Year Revenue Bond funded these generators. Original number of generators to be installed was at 143 locations based on the Docket 92-010 when Rate Schedule E was created.
- In Docket 92-010, GPA's application for tariff Rate Schedule E was approved by PUC on March 30, 1994 and became effective on April 1, 1994
- Rate Schedule E was applicable to PUAG to pay for the (1) Debt Service of the generators (2) Capital expenditures (3) Operations and Maintenance and (4) Fuel and fuel related charges
- At the end of FY 96, GPA's receivable from PUAG under tariff Rate Schedule E was approximately $7.2 million. PUAG did not make a single payment since the creation of the tariff.
- In Docket 95-001, GPA's 1996 base rate case, PUAG's non-payment of tariff Rate Schedule E was discussed
- In Docket 96-004, PUC established the water well surcharge to be collected from all civilian ratepayers beginning June 1, 1996. The regulatory asset of $7.2 million was set up and the water well surcharge rate was established at $0.00477/kWh
- In Docket 97-002, the $5 million Tariff E regulatory asset was extended, which would expire by order on 9/30/1997. The surcharge was at $0.00719/kWh. An additional surcharge of $2.8 million was established to fund FY 1997 Tariff E charges to be recovered from March 1, 1998 until October 1, 1999 at the rate of $0.00242/kWh.
- Subsequently, GPA petitioned PUC for the Tariff E surcharge creating annual revenues of about $2.8 million and the regulatory asset creating annual revenues of about $5 million be embedded into base rates and that the tariff be rescinded.

- The stipulation in Docket 97-002 dated May 8, 1998 states that the revenue stream associated with Tariff E ($5 million regulatory asset) effective June 1, 1998 be added to civilian base rates in anticipation of significant new expenses arising from GPA's contract obligations under the IPP contracts and to avoid another base rate increase in FY 1999. It also states that the additional Tariff E surcharge ($2.8 million revenues) should continue in force and in effect until further Commission order to provide a revenue stream to support Tariff E related expenses.

- In the last several rate cases, this surcharge was included in the total revenue requirement of GPA. So in any adjustment of the base rates, the surcharge was also increased by the same approved % increase. In the 2012 base rate case, the PUC staff Georgetown Consulting Group recommended that the water well surcharge be embedded in the base rates, but this change has not yet been implemented.

- Water Service is of Paramount Priority to the Community
- From 1988 to 1992 Major Storms Impacted Guam Resulting in GPA Constantly Having to Isolate Customers in Order to Quickly Restore Power to Water and Wastewater Facilities
- GPA installed 143 Standby Generators at PUAG Sites in 1993 in Order to Effectively and Efficiently Restore Power Service to All Customers
- Generators Installed in 1993 Continue to Maintain High Availabilities
- Disconnecting Customers in Order to Restore Water Service was Ineffective and Inefficient Causing Significant Burdens on GPA customers
- Delayed Restoration of GPA Customers Results in Substantial Revenue Losses

- Surcharge was Established by the PUC for GPA to be Able to Pay Debt Service and Expenses of the Generators because PUAG Refused to Pay for the Service
- The Surcharge was and is not a Restricted Account and is not similar to the Restricted Accounts Like the Self-Insurance Fund and the Working Capital Fund
- It was Recommended to Merge the Surcharge Revenue into the Base Rate. We Recommend it be Done in the Next Rate Case
- The Generators will need to be Replaced Over the Next Few Years since They are Mostly 25 Years of Age.

- The CCU Merged All Standby Generator Asset Responsibilities of GPWA to GPA in 2015
- Funding for about 27 New Standby Generator Systems need to be Identified
- All GPA Generators installed in 1993 need to be replaced over a 10 Year Period
- In the Interim GPA needs to Purchase More Portable Generators for use during Emergency Failures
- GWA Continues to Add New Generators on Various Sites and on All New Infrastructure
- GPWA will Continue to Work on its Goal to Continiously Serve Water to All Customers During Storm Periods

At the end of the GM Benavente's presentation, there was discussion about where to go from here. Comm. Sanchez said it is good that management did the historical research so that correct information could be given the PUC to shed light on how the surcharge originated. However going forward, he recommended to the Commission to task management to develop 10-year projection on what it would

cost to fund the remaining 11% of wells equipped with standby generators and to repair and retrofit the existing 89% of assets and the maintenance cost for all assets going forward. It was also mentioned that it would be a good idea to make this review a standard procedure.

It was mentioned that if these numbers are not sufficient to be covered by the surcharge being collected now that PUC may need to revisit the rates every 5 years so that this fund would be sufficient for continual maintenance for another decade. GM Benavente said it is possible to come up with the numbers by the November meeting since this matter is being currently reviewed anyway.

Comm. Duenas agreed with Comm. Sanchez but added that relative to the movement of the surcharge / rates, he would leave that for PUC to determine the process. It is important to give the PUC the data to show them the need.

Comm. Sanchez said there was accusation by the public that the funds were not being used as intended to buy generators, fix buildings, house generators but that is exactly what it was used for. Do we still need it? Once the data is available, it will be easier to justify the need for the revenue.

The last comment mentioned came from ALJ Horecky who was present. He said that it is unusual how the surcharge was handled and whether it was the best or most appropriate way – that is the question.

5.1.2 Financials

CFO Kim said there's no change to the financials discussed yesterday. Below is snippet of what report submitted.

Summary

The increase in net assets for the month ended was $0.8 million as compared to the anticipated net increase of $0.5 million projected at the beginning of the year. The total kWh sales for the month were 8.44% less than projected and non-fuel revenues were $1.1 million less than the estimated amount. O & M expenses for the month were $5.9 million which was $0.5 million less than our projections for the month. 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 $0.8 million less than the projected amounts. There were no other significant departures from the budget during the period.

Analysis

Description	Previous Month	Current Month	Target
Quick Ratio	2.48	2.62	2
Days in Receivables	39	38	52
Days in Payables	29	20	30
LEAC (Over)/Under Recovery Balance -YTD	$8,422,674	$7,313,081	$8,722,838
T&D Losses	5.03%	5.08%	<7.00%
Debt Service Coverage	1.80	1.78	1.75
Long-term equity ratio	17%	17%	30 – 40%
Days in Cash	172	199	60

The Quick Ratio has been a challenge for GPA historically. However, over the last two fiscal years, the influx of cash from insurance proceeds continued to improve this ratio. GPA has current obligations of approximately $64 million and approximately $168 million in cash and current receivables. Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

5.1.3 Resolution 2018-23 Authorizing Funds for the DSM Rebate Program

This resolution seeks approval to fund the DSM Program under LEAC for the following reasons:

The DSM Program is experiencing exponential growth. Although perhaps not truly unexpected, this DSM Program exponential growth is volatile: subject or characterized by rapid change. The LEAC decoupling from base rates addresses expenses like fuel that have a volatile nature.

DSM rebate expenses may likely double every year and would soon place pressure on GPA base rate funding affecting GPA Debt Service Coverage requirements. At that point, GPA would have to curtail the growth of the DSM rebate program. This curtailment would not comport with CCU and PUC policy and their mutual desire to reduce customer energy consumption, demand, and cost.

Like renewable energy, a major rationale behind DSM is predicated on the avoidance of fuel costs and the need for capacity additions. Furthermore, unlike renewable energy without energy storage, DSM provides reductions to future power system capacity expansion costs.

The PUC has allowed GPA to recover its Utility Scale Renewable Energy Program costs under the LEAC; and therefore, may use this precedent to treat DSM Program Expenses in a similar fashion.

PUC approval of GPA's recommendation results in DSM expenses being revenue neutral and will be implemented immediately upon approval.

After lengthy discussion on matter of funding source - if it should be placed as part of LEAC or distinctly separate, it was decided to table this resolution pending further review. GM agreed to table but said he strongly recommended that the program be continued.

5.1.4 Resolution 2018-24 Upgrade JDE One World to Enterprise One (E1)

GPA purchased Enterprise Resource Planning (ERP) software from JDEdwards World Solution company in the late 1990 and the contract included a license for an upgrade to the software. Oracle Corporation has purchased JDEdwards contracts including GPA. Oracle Corporation developed Enterprise One (E1) and agreed to recognize GPA license right to E1 software package. Oracle Corporation has disclosed its intention to discontinue support of JDE One World software in 2022. GPA has determined that upgrading to E1 will improve the system's functionality, ease of use by user, and greater reporting capability and that the Authority should move to E1 software offered by Oracle.
GPA also intends to move forward to purchase and support of E1 ERP system and modules currently not covered by GPA's license to improve the functionality and replace other existing software. GPA is requesting authorization for expenditure to purchase additional licenses, support, and professional services from Oracle Corporation and DXC. With resolution 2018-24, management is asking for an additional $1.2M to current cost with estimated completion of August 2019. The funding source is identified as revenue funds.

CFO Kim gave a short presentation and in discussion it was mentioned that this scenario applies only to GPA. CCU wanted clarification on other modules that could be added on in the future and some that

were mentioned were an HR component and one for project management, to name a few. Also brought up was what the cost savings would be by getting GWA involved.

Comm. Sanchez motioned to approve resolution 2018-24 second by Comm. Santos. There was no further discussion or objection and the motion passed.

5.1.5 Resolution 2018-25 EPCM Contract Increase

Stanley Consultants was contracted in March 2017 through GPA RFP-17-001 as the Engineering, Procurement and Construction Management (EPCM) Contractor for the New 120-180 MW Power Plant in March 2017. The plant will be located adjacent to the Harmon Substation. As the EPCM, Stanley is providing the technical and contractual support in the new IPP procurement and will be GPA Owner's Engineer during construction and commissioning. The increase in contract cost is projected to cover services through plant commissioning in 2022.

GPA is requesting a $2.6M increase for technical services to develop procurement documents and support procurement activities. The total costs are within 1-3% of projected new power plant construction costs and is within typical percentages for this size of a project as shown in table below:

New Plant Costs ($M)	EPCM Cost % of Total New Plant Costs
$200	2.0%
$250	1.6%
$300	1.3%
$350	1.1%
$400	1.0%

GPA has projected initial commissioning of the new power plant for late 2021 and full commissioning by 2022. And the funding source was identified to be the Cabras 3&4 Insurance Proceeds and 2014 Bond Funds – LNG Initial Startup

The Commission asked up to what phase will this increase take the project to and in response management said this action will cover future phases up to commissioning and will include pipeline, tanks and collateral equipment.

Comm. Sanchez motioned to approve resolution 2018-25 second by Comm. Guthertz. There was no further discussion or objection and the motion carried.

5.1.6 Resolution 2018-26 Authorizing Purchase of Three (3) Bucket Trucks

If approved, this resolution will allow the retirement of aged bucket trucks (see list below) and to provide reliable equipment to allow line crews to conduct repairs and maintenance on the transmission and distribution system in an efficient and cost effective manner. Unreliable equipment translates to extended outages and longer response times.

Official #	Equipment Number	Year	Replacement Age	Type	Make/Model	Vin/Serial Number
4661	132652	1995	23	Bucket Truck	INTERNATIONAL, 4700	1HTSCABP8SH625205
5058	132601	1998	20	Bucket Truck	IHC, 4700 MAT'L HANDLR,42'	1HTSCABN2WH519157
4577	2713119	2006	15	Flatbed	INTERNATIONAL 4x2/65	1HTMKAAN07H395047

The cost for (3) 55' bucket trucks is $771,897 with funding source being the FY19 General Plant Capital Improvement Project. There were 2 bidders and of the two, Morrico Equipment was deemed to be most prudent and economical. Delivery is set at 360-days after notice to proceed.

In discussion it was mentioned that this purchase will increase GPA's bucket truck inventory to 25. GM Benavente said that expedient storm recovery is dependent on the number of trucks available. This will make it easy to get human help from CNMI and other region utilities and will significantly shorten the timeframe for recovery after a storm. Chairman Duenas agreed that asset management is necessary and supports this resolution.

Comm. Sanchez motioned to approve resolution 2018-26 second by Comm. Santos. There was no further discussion or objection and the motion passed unanimously.

6. ANNOUNCEMENTS

6.1 Next CCU Meetings

The Chairman announced that the next meeting would be a GWA work session on Nov. 13; a GPA Work Session on Nov. 15 and the regular CCU meeting on Nov. 20.

He also announced that there are personnel and litigation matters for discussion in Ex. Session and announced a 5-minute recess before start of session. It was 6:10 p.m.

7. EXECUTIVE SESSION

7.1 Personnel Matter

7.2 Litigation Matter

Both matters noted above werediscussed in executive session. At 6:30 p.m. meeting was moved back to regular session and Chairman Duenas said he would entertain a motion.

Comm. Sanchez motioned to approve GWA Resolution 01-FY2019 as discussed in executive session second by Comm. Santos. There was no further discussion or objection and the motion passed.

For the record GWA Resolution 01-FY2019 was relative to a government claim and because of possible litigation was discussed in Executive Session and not listed under New Business in the Agenda.

8. ADJOURNMENT

With nothing further to discuss, the meeting adjourned at 6:40 p.m.

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Bls

Attested:

_____ _____

JOSEPH T. DUENAS, Chairman J. GEORGE BAMBA, Secretary

GM REPORT

TO: Consolidated Commission on Utilities

FROM: General Manager

DATE: November 27, 2018

SUBJECT: General Manager's Report

This report provides updates on key issues:

1. **Generation System:** The following summarizes the generation capacity projection for December 2018:

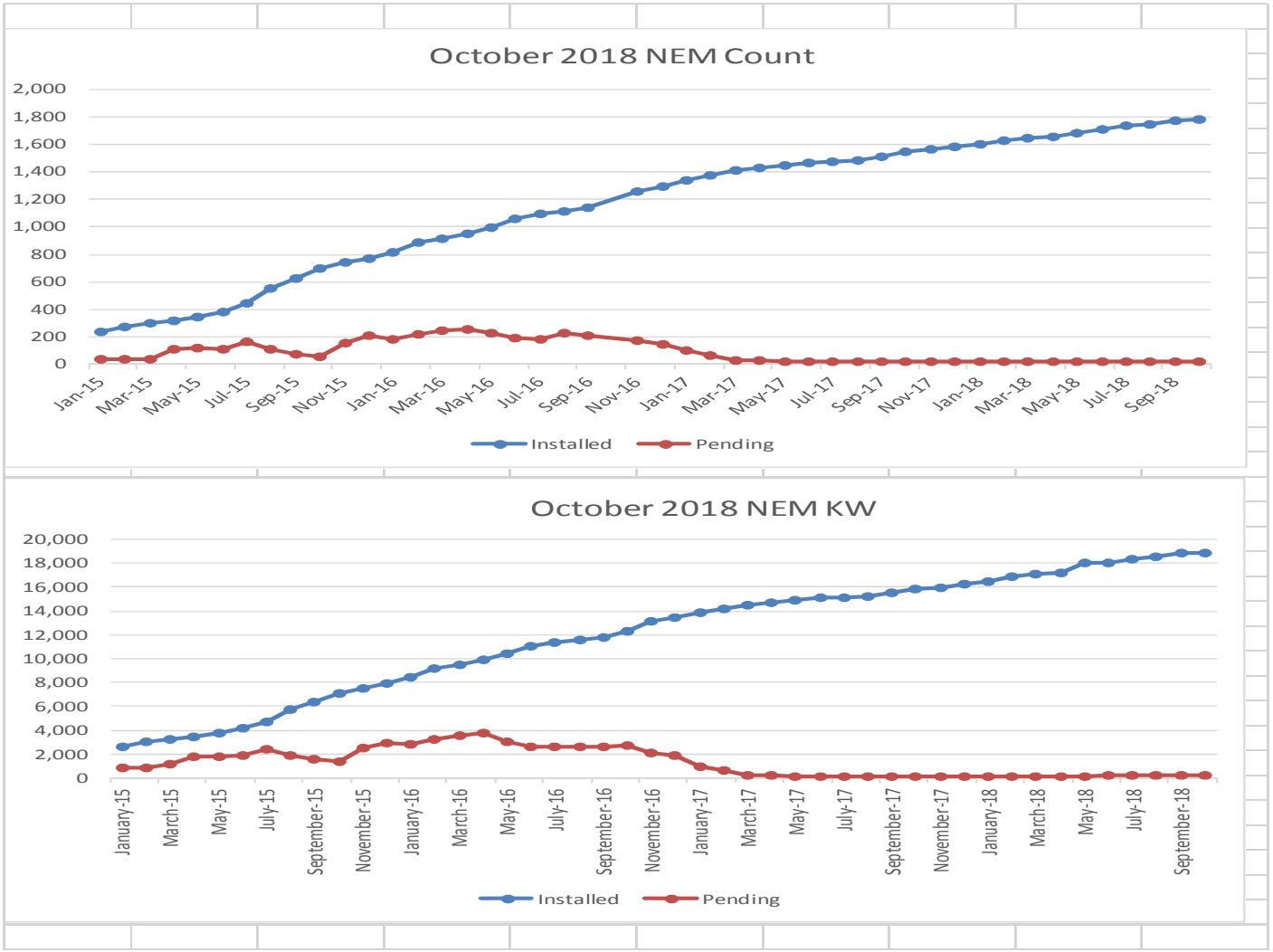
December 2018 Projected Capacity:	358 MW
December 2018 Projected Demand:	240 MW
Anticipated Reserve Margin:	118 MW

- There are no major overhauls scheduled for the month
- Demand trending approximately 5% lower than last year

2. Net Metering Summary Ending October 2018:

Description:	Count	Kw
Active	**1,778**	**18,894**
Pending	19	241
Totals:	1,797	19,135

Service:	Count	KW	Kw/Customer
Residential	1,685	15,517	9.2
Others	93	3,377	36.3
Total:	1,778	18,894	
% Residential	**94.8%**	**82.1%**	
Estimated 12 Months Revenue Impact:	**$3,533,486**		


October 2018 NEM Count
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
Jan-15
Mar-15
May-15
Jul-15
Sep-15
Nov-15
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18
Sep-18
Installed
Pending
October 2018 NEM KW
20,000
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
January-15
March-15
May-15
July-15
September-15
November-15
January-16
March-16
May-16
July-16
September-16
November-16
January-17
March-17
May-17
July-17
September-17
November-17
January-18
March-18
May-18
July-18
September-18
Installed
Pending

3. All Expenses – Fiscal Year

Description	FY16	FY17	FY18	FY19 thru 10/31/18*	Total to Date
Regular/OT Pay	$ 11,349	$ 22,256	$ 26,122	$ 4,984	$ 64,710
Other Contractual	$ 28,279	$ 85,550	$ 116,978		$ 230,806
Bank Fees	$ 155	$ 1,032	$ 1,085	$ 15	$ 2,287
Paid Rebates-Split AC	$ 154,700	$ 557,275	$ 1,247,000	$ 66,575	$ 2,025,550
Paid Rebates- Central AC	$ 3,400	$ 8,200	$ 4,400	$ -	$ 16,000
Paid Rebates- Washer/Dryer	$ 2,800	$ 7,425	$ 48,800	$ 4,800	$ 63,825
Total Expenses	**$200,682**	**$681,738**	**$1,444,384**	**$ 76,374**	**$2,403,178**

** Expenses for October 2018 are preliminary pending closing of October books and includes an update for September 2018 actuals.*

3. DSM PROGRAM SUMMARY (cont'd)

DSM Program reduces peak demand and reduces LEAC cost for all customers at a one time fixed rebate. DSM eliminates running less efficient peaking units at peak time thereby reducing fuel cost.

DESCRIPTION	AMOUNT
Initial DSM Budget FY'16	$ 1,806,014.00
Interest Income as of Oct 18	$ 4,728.64
Total Expense	**$ 2,403,178.39**
Ending Balance as of Oct 18	$ (592,435.75)
Addtl. Budget: Approved (FY'18)	$ 1,139,189.00
Total Ending Balance as of Oct 18	**$ 546,753.25**

4. PUC Dockets: Dockets on Agenda for November 29th
   - GPA Docket No. 18-09 - Contract Amendment for Engineering, Procurement, and Construction Management for New Power Plant

5. Status of Recovery for Saipan from Super Typhoon Yutu:
   - Major destruction occurred in the central and southern part of the island
   - Airport, Beach Road, major water wells, major commercial areas, and all residential areas substantially impacted
   - Pole installations substantially completed on main lines along Beach Road, Middle Road, and the main feeder lines which serve the airport, major water well areas
   - Airport energized on November 17th

GENERATION:
Available = 51.7 MW
Normal Peak = 40.70 MW
Current Peak = 15.26 MW

Pole System:
1,772 ea. Down and Damaged
522 ea. New Poles Installed
GPA Provided about 450 ea. Concrete Poles

5. Status of Recovery for Saipan from Super Typhoon Yutu (cont'd):

GPA is making a difference in Saipan recovery efforts.

- GPA Executive Management is in daily contact with the Saipan team to ensure smooth and safe operations.
- The GPA Saipan team is working hard 12 to 14 hours daily to restore main lines and critical services. They are now concentrating on major business sectors on eastern part.
- GPA estimates the first team of 39 personnel will be assisting until December 23rd.
- All GPA personnel will be home for Christmas.
- The 2nd wave will deploy immediately after Christmas, subject to CUC's continued need.
- GPA has begun invoicing CUC for labor, equipment, materials, and expenses. The estimated assistance so far is about $3M.
- The team on Guam at T&D, Generation, Engineering, Transportation, & Safety are multi-tasking and picking up extra duties to ensure continuity of services on Guam.

6. GPAEA / MEC Donation and Contribution to CUC for Saipan Relief:

- GPA employees under the leadership of the GPA Employee Association has contributed $3,254 to the CUC to assist CUC employees. MEC joined in with significant contributions of food and other products. Thank You GPAEA/MEC!!!!





7. Status of GPWA SCADA Project:

The complete commissioning of the GPWA SCADA Project will be around March 2019

- GPWA estimates that SCADA Site Acceptance Test (SAT) may successfully conclude by January 11, 2019.
- GWA SCADA SAT can successfully conclude on February 18, 2019 with the integration of Ugum Water Treatment Plant to the Siemens SP5
- GWA will create a Project Schedule for GWA Advanced Applications Integration after successful completion of SAT.
- GWA has about 300 potential RTU sites which will add in phases after commissioning.

8. Visit to Rating Agencies:

On December 11, 2018, an update will be provided to the rating agencies, Fitch and S&P. These updates are more particularly important in light of the impact on the island from tax changes and the frequent storms that we have been experiencing. There has also been some changes in how public utilities are being evaluated and we need to discuss this with them.

9. POWER-GEN International Conference will be on Dec 4th & Dec 5th
   - This conference provides an opportunity for GPA to network with equipment and service providers as well as get updated on latest technology and processes for power generation. Conference sessions includes Flexible Generation & On-Site Power, Operation & Design of Gas-Fired Plants, Optimizing Plant Performance, Energy Storage Breakthroughs, as well as other topics related to renewable technologies and microgrids.

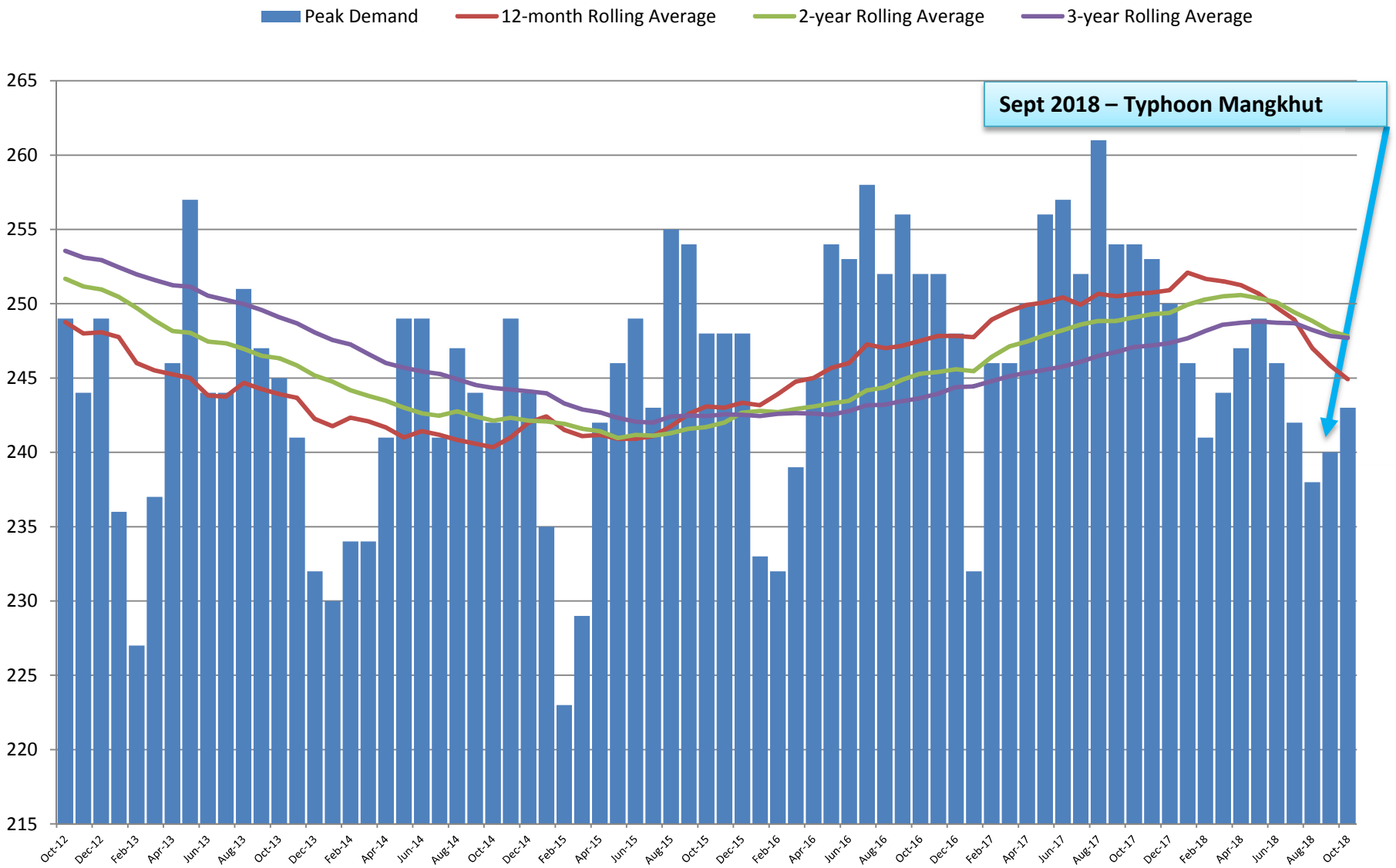
10. Power Plant Tours in Michigan will be on Dec 6th & 7th
    - After the conference, we will be visiting two power plants in Michigan:

      - Holland Energy Park Power Plant in Holland, Michigan – Combined Cycle CT Power Plant commissioned in 2017 with 2 CT x 1 Heat Recovery Steam Generator (HRSG) configuration for about 125-145MW output

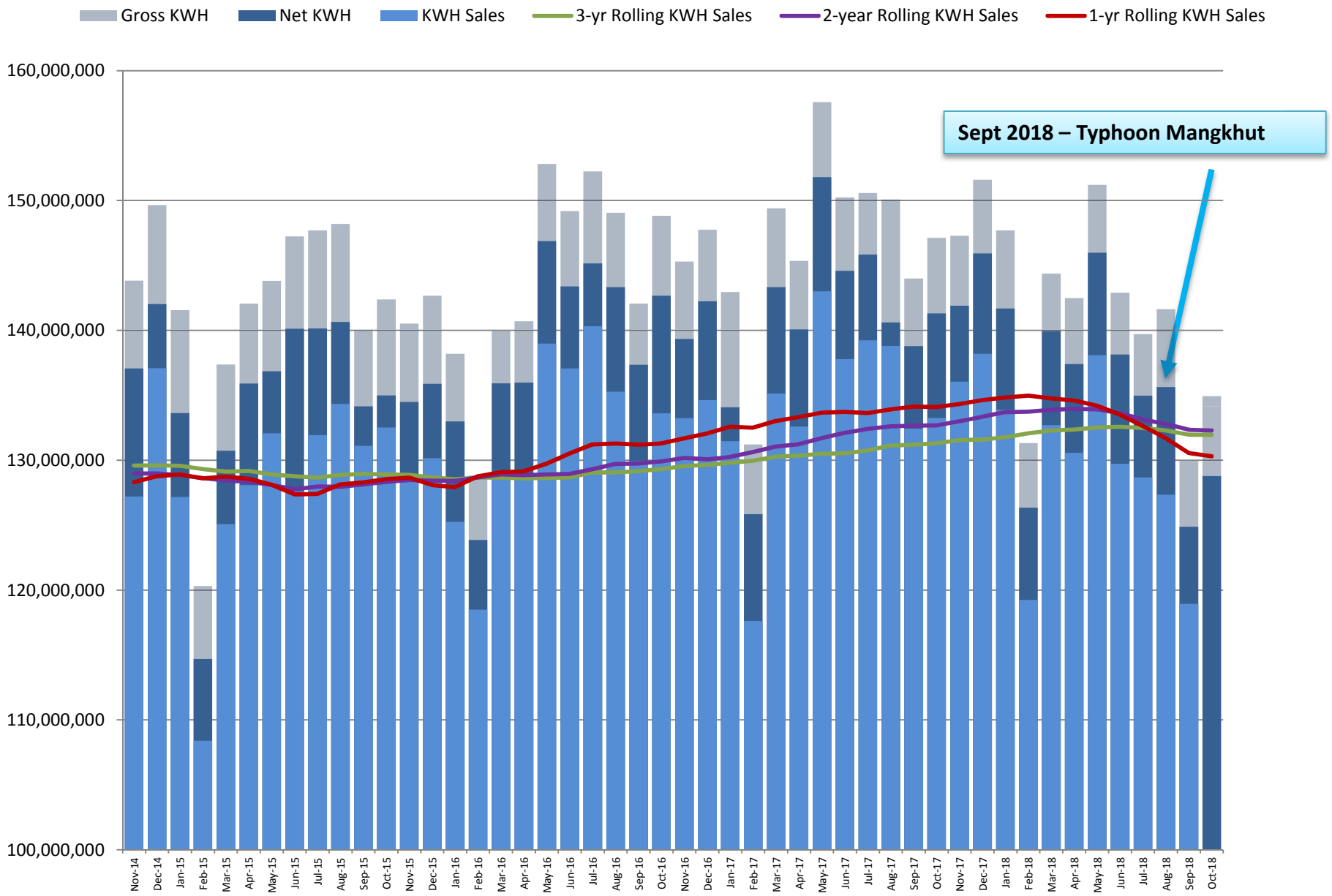
      - Marquette Energy Center in Marquette, Michigan –Reciprocating Engine Plant commission in 2017 (~ 50MW - 3 x 17 MW units)

The purpose of the plant visit is to see these technologies in operation and discuss any operational or maintenance concerns or issues from the plant owners and operators. These are the type of technologies anticipated on bid for the new power plant IPP.

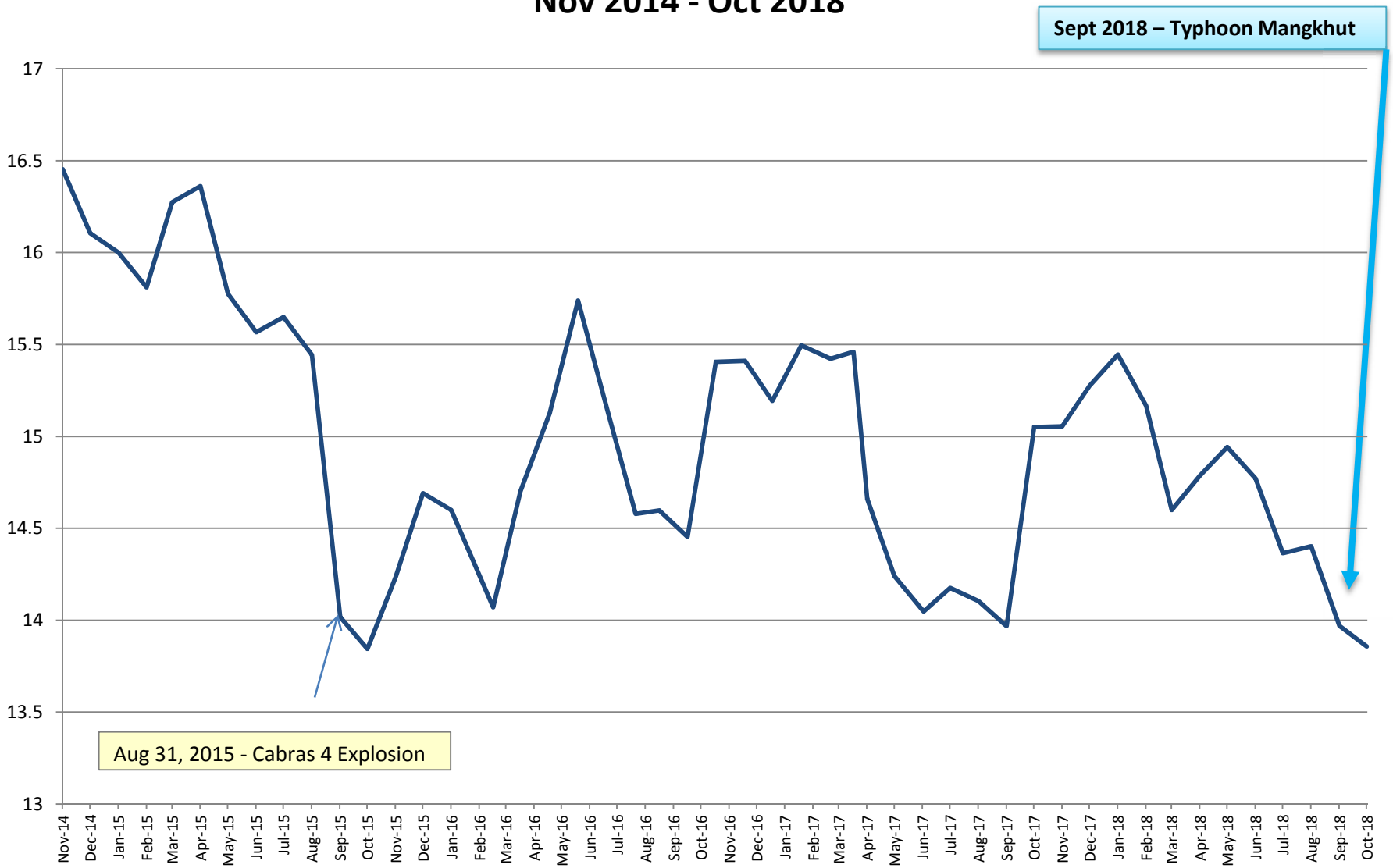
Historical Monthly Peak Demand
Oct 2012 - October 2018



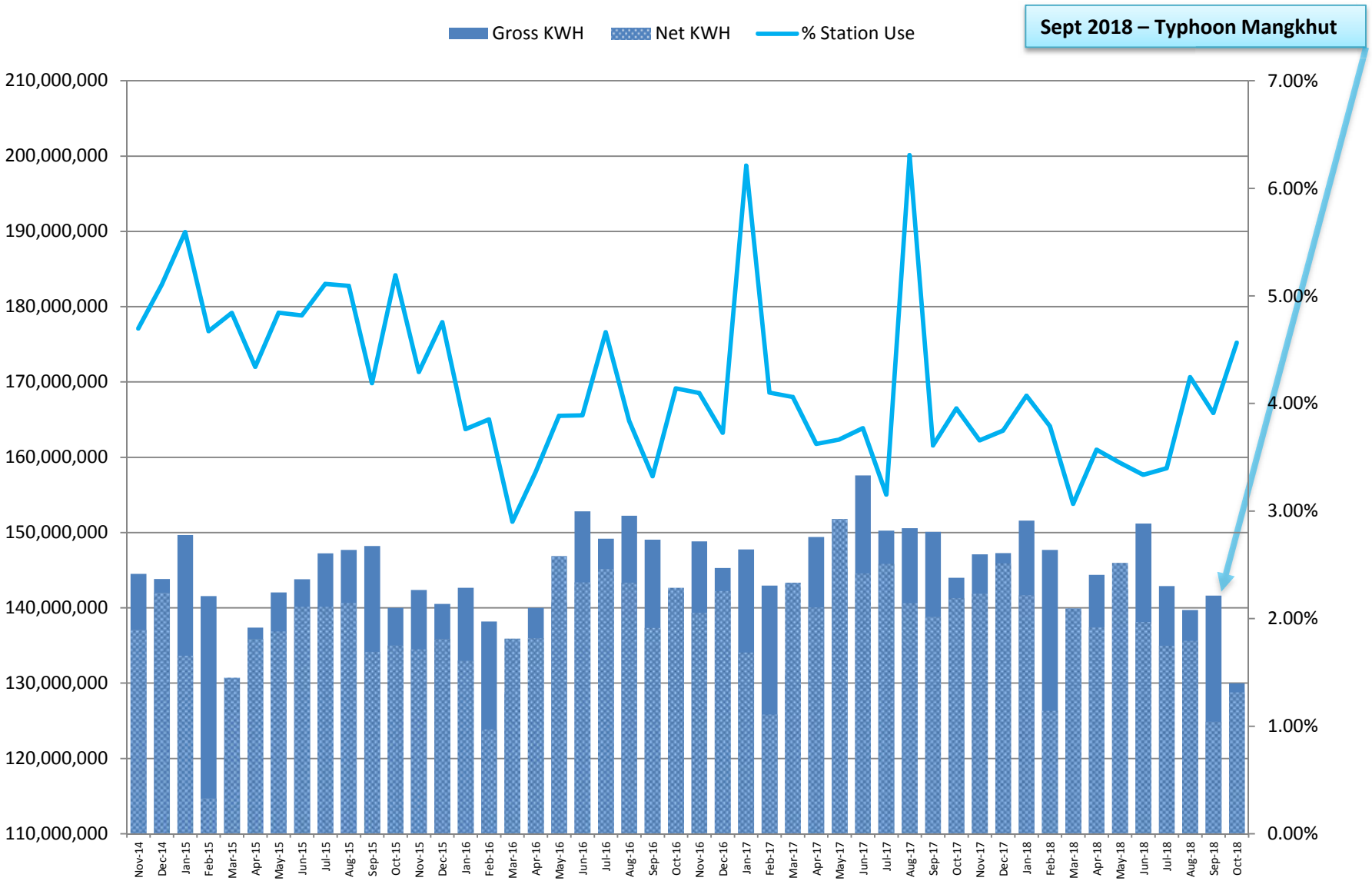
Historical KWH Sales
Nov 2014 - Oct 2018



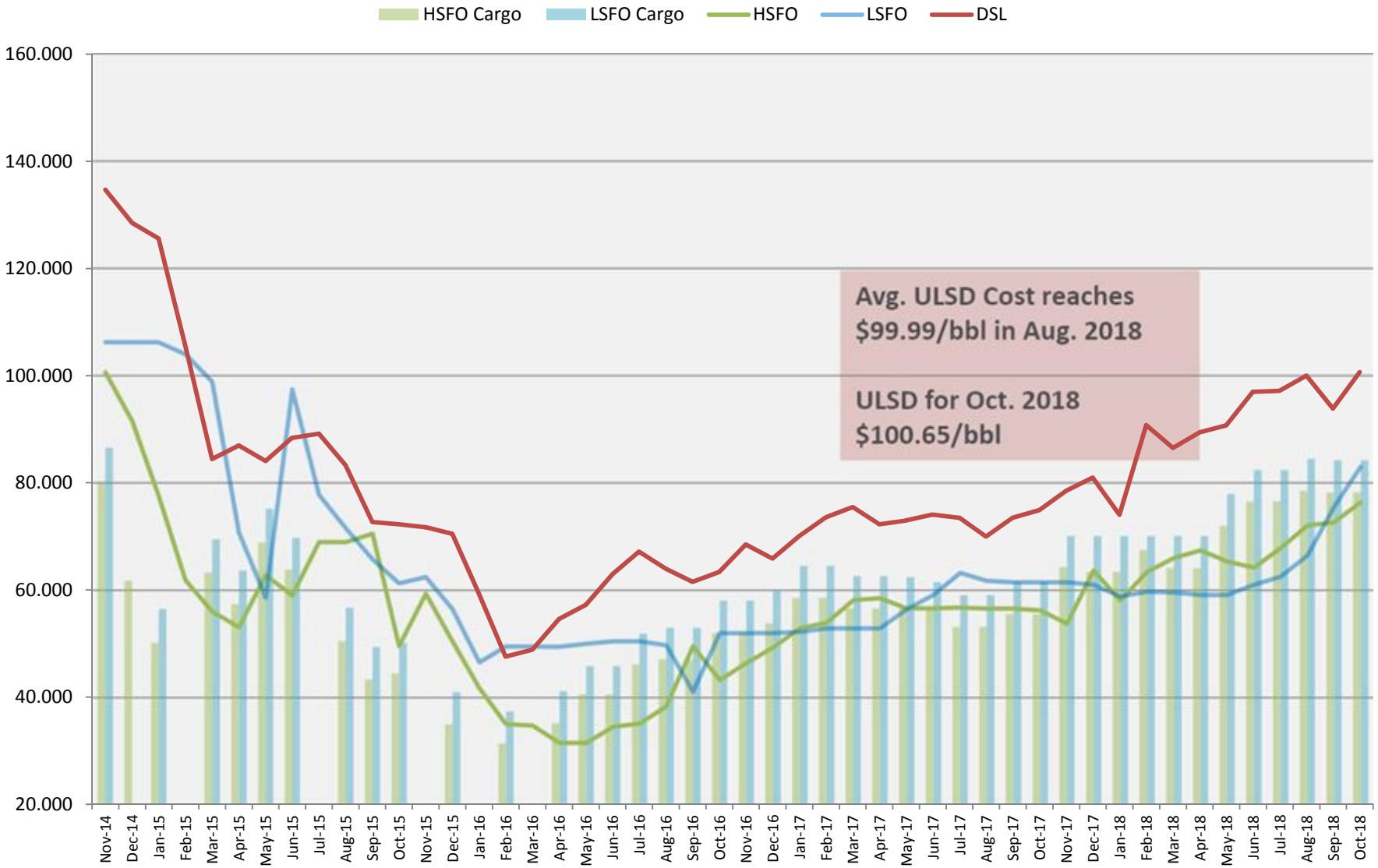
SYSTEM GROSS HEAT RATE
(KWH/Gal)
Nov 2014 - Oct 2018



Gross and Net Generation (KWH)
Nov 2014 - Oct 2018



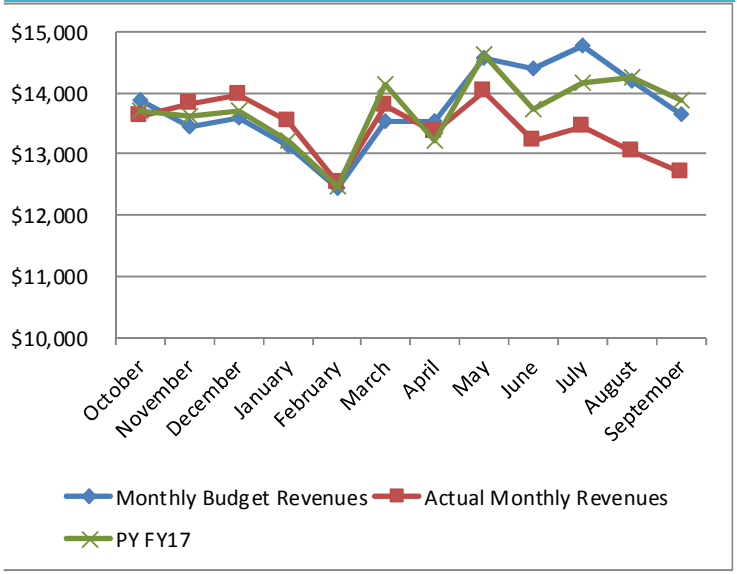
Fuel Cargo and Fuel Consumption Costs ($/bbl)
Nov 2014 - Oct 2018



CFO
FINANCIAL HIGHLIGHT
September 2018

September 2018 Monthly Financial Highlight

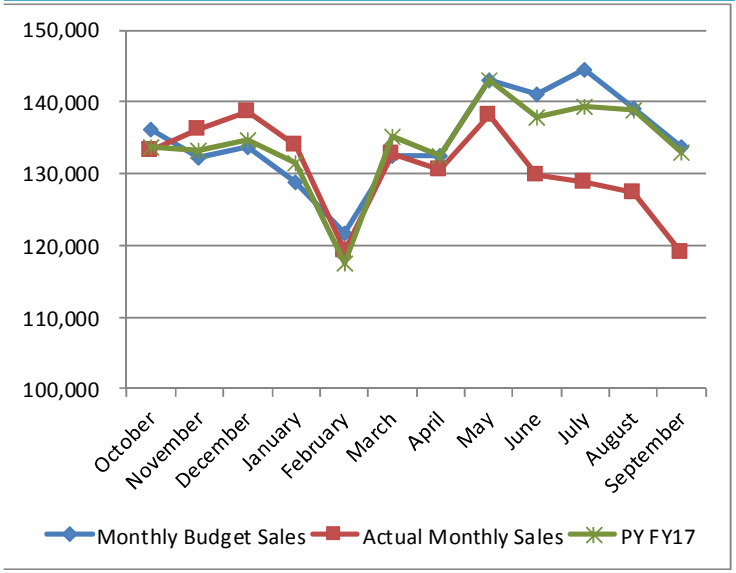
Base Rate Revenue $000



Through September 30, 2018

$000	Monthly Budget Revenues	Actual Monthly Revenues	Variance		PY FY17	CY vs PY Variance	
October	$ 13,873	$ 13,625	$ (248)	↓	$ 13,702	$ (77)	↓
November	13,451	13,827	$ 376	↑	13,622	$ 205	↑
December	13,599	13,968	$ 369	↑	13,695	$ 273	↑
January	13,114	13,534	$ 420	↑	13,220	$ 314	↑
February	12,422	12,522	$ 100	↑	12,454	$ 68	↑
March	13,534	13,776	$ 242	↑	14,123	$ (347)	↓
April	13,525	13,351	$ (174)	↓	13,224	$ 127	↑
May	14,568	14,011	$ (557)	↓	14,617	$ (606)	↓
June	14,386	13,201	$ (1,185)	↓	13,722	$ (521)	↓
July	14,759	13,446	$ (1,313)	↓	14,151	$ (705)	↓
August	14,183	13,047	$ (1,136)	↓	14,244	$ (1,197)	↓
September	13,651	12,700	$ (951)	↓	13,874	$ (1,174)	↓
Total	**$ 165,064**	**$ 161,008**	**$ (4,055)**		**$ 164,649**	**$ (3,641)**	

MWh Sales

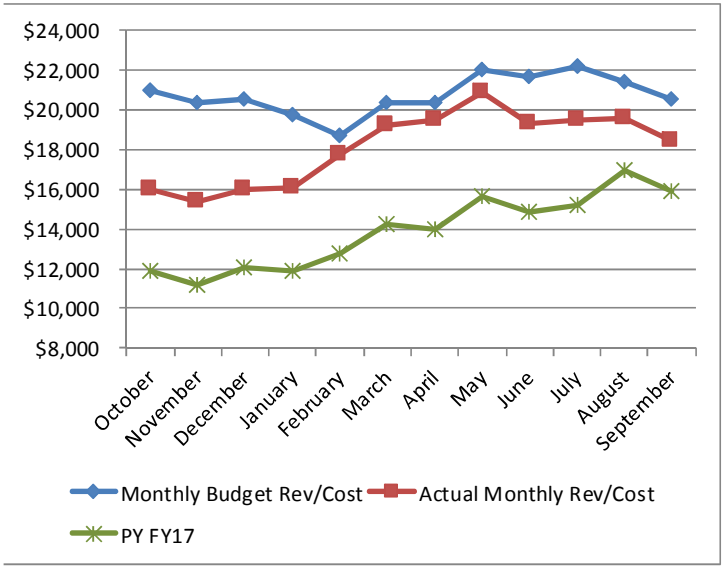


Through September 30, 2018

mwh	Monthly Budget Sales	Actual Monthly Sales	Variance		PY FY17	CY vs PY Variance	
October	136,219	133,262	(2,957)	↓	133,620	(358)	↓
November	132,132	136,044	3,912	↑	133,235	2,809	↑
December	133,625	138,587	4,962	↑	134,634	3,953	↑
January	128,711	133,882	5,170	↑	131,461	2,421	↑
February	121,668	119,241	(2,426)	↓	117,617	1,624	↑
March	132,587	132,693	106	↑	135,131	(2,438)	↓
April	132,532	130,565	(1,967)	↓	132,587	(2,022)	↓
May	142,956	138,085	(4,871)	↓	143,013	(4,928)	↓
June	141,064	129,728	(11,336)	↓	137,777	(8,049)	↓
July	144,404	128,681	(15,723)	↓	139,227	(10,546)	↓
August	139,093	127,348	(11,745)	↓	138,797	(11,449)	↓
September	133,658	118,935	(14,723)	↓	132,993	(14,058)	↓
Total	**1,618,650**	**1,567,052**	**(51,597)**		**1,610,093**	**(43,041)**	

September 2018 Monthly Financial Highlight (Cont'd)

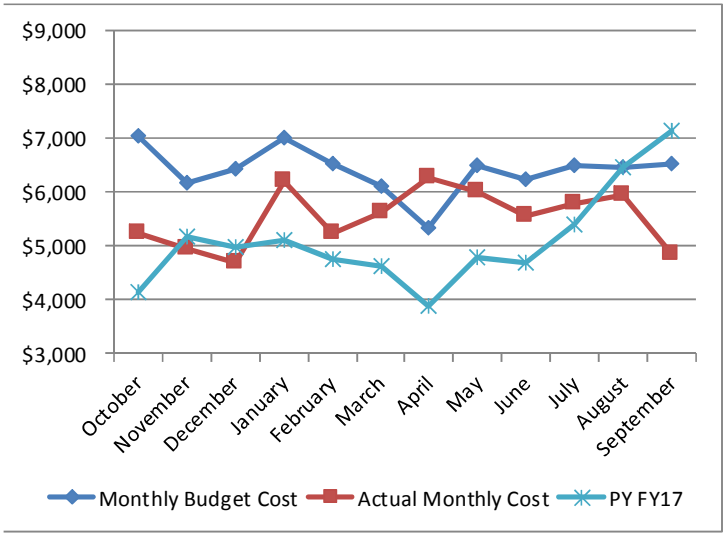
Fuel Revenue/ Cost $000



Through September 30, 2018

$000	Monthly Budget Rev/Cost	Actual Monthly Rev/Cost	Variance		PY FY17	CY vs PY Variance	
October	$ 20,928	$ 15,936	$ (4,992)	↓	$ 11,894	$ 4,042	↑
November	20,300	15,400	$ (4,899)	↓	11,215	$ 4,185	↑
December	20,529	16,007	$ (4,522)	↓	12,036	$ 3,971	↑
January	19,774	16,036	$ (3,738)	↓	11,867	$ 4,169	↑
February	18,692	17,763	$ (930)	↓	12,751	$ 5,012	↑
March	20,370	19,180	$ (1,190)	↓	14,248	$ 4,932	↑
April	20,361	19,441	(920)	↓	13,940	5,500	↑
May	21,963	20,854	(1,109)	↓	15,596	5,258	↑
June	21,672	19,252	(2,420)	↓	14,859	4,393	↑
July	22,185	19,457	(2,728)	↓	15,175	4,282	↑
August	21,369	19,597	(1,772)	↓	16,947	2,650	↑
September	20,534	18,398	(2,136)	↓	15,895	2,503	↑
Total	**$ 248,677**	**$ 217,321**	**$(31,356)**		**$ 166,425**	**$ 50,896**	

O&M Cost $000



Through September 30, 2018

$000	Monthly Budget Cost	Actual Monthly Cost	Variance		PY FY17	CY vs PY Variance	
October	$ 7,040	5,239	1,801	↑	4,135	(1,103)	↓
November	6,182	4,941	1,240	↑	5,158	217	↑
December	6,428	4,694	1,735	↑	4,966	273	↑
January	7,001	6,204	797	↑	5,092	(1,112)	↓
February	6,522	5,252	1,270	↑	4,748	(504)	↓
March	6,091	5,638	453	↑	4,612	(1,026)	↓
April	5,320	6,269	(949)	↓	3,892	(2,378)	↓
May	6,495	6,005	491	↑	4,772	(1,233)	↓
June	6,221	5,558	662	↑	4,702	(856)	↓
July	6,508	5,797	711	↑	5,385	(412)	↓
August	6,462	5,960	502	↑	6,445	485	↑
September	6,526	4,836	1,689	↑	7,138	2,302	↑
Total	**$ 76,796**	**$ 66,394**	**$ 10,403**		**$ 61,045**	**$ (5,348)**	

September 2018 Monthly Financial Highlight (Cont'd)

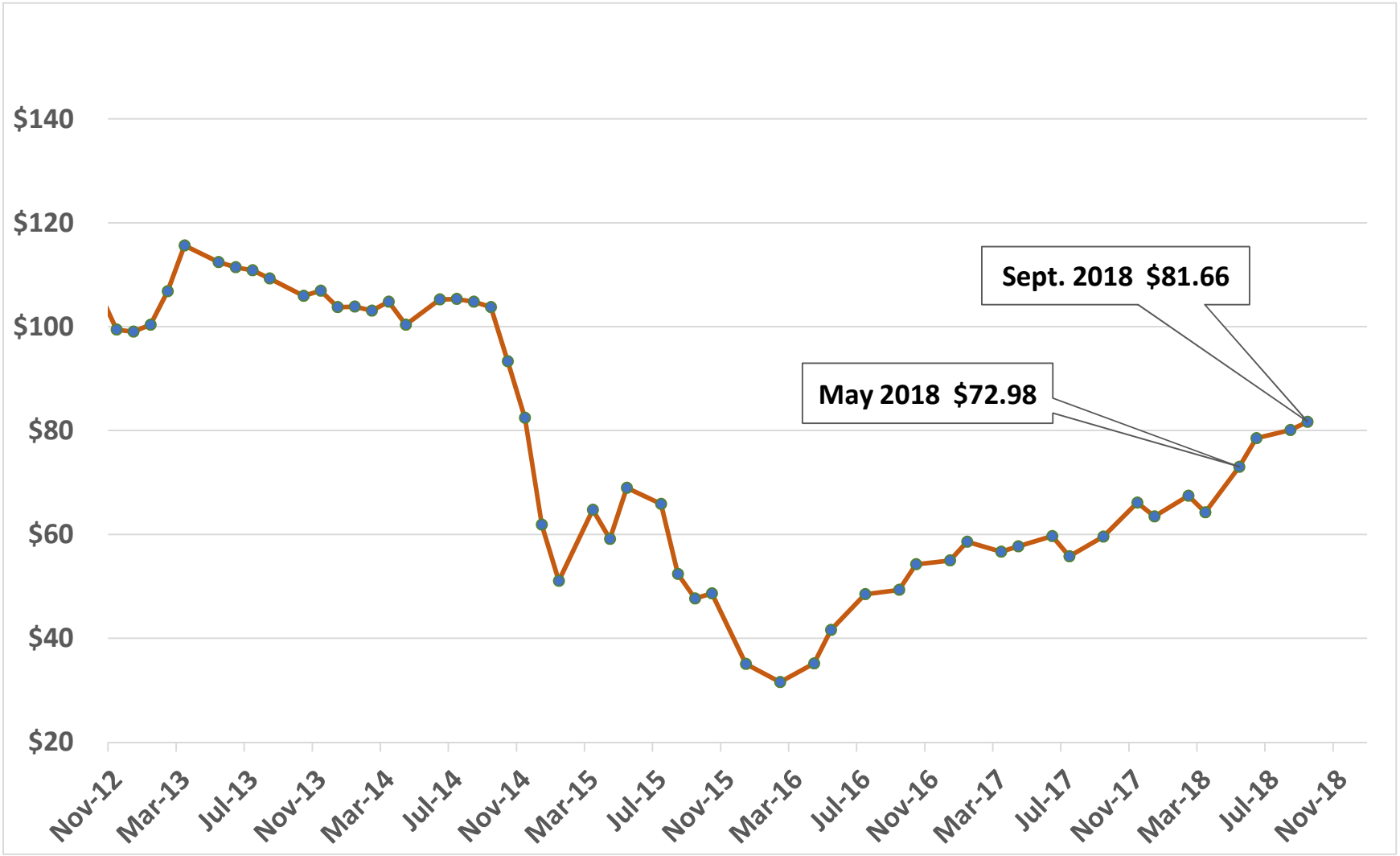
Through August 31, 2018						
	3Q2017	4Q2017	1Q2018	2Q2018	3Q2018	4Q2018
Residential	43,902	43,991	43,898	44,065	44,074	43,887
Commercial	5,252	5,226	5,231	5,262	5,278	5,261
Government	1,071	1,073	1,076	1,086	1,092	1,077
Streetlights	824	823	908	1,005	1,091	1,152
Navy	1	1	1	1	1	1
Total	51,050	51,114	51,114	51,419	51,536	51,378

Debt service coverage (DSC) calculation-indenture	2014	2015	2016	2017	YTD Sept 2018
Senior lien coverage	3.16	3.62	3.28	2.65	2.68
Aggregate debt service coverage	1.98	2.62	3.28	2.65	2.68
Debt service coverage (DSC) calculation-IPP as O&M					
Senior lien coverage	2.55	2.56	2.45	1.79	1.80
Aggregate debt service coverage	1.41	1.85	2.45	1.79	1.80

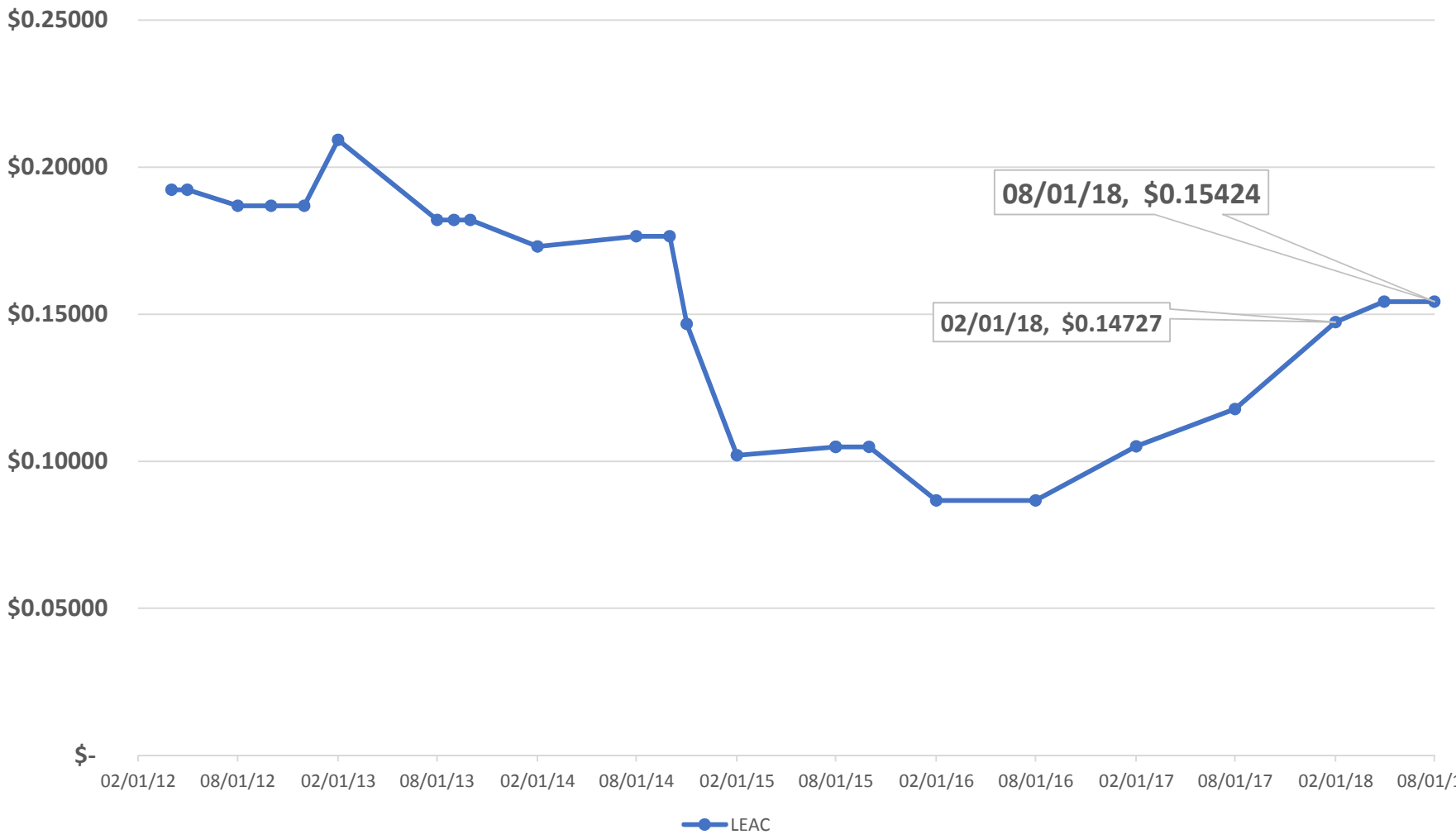
- Under recovery of LEAC - $8.4 million

LEAC UPDATE

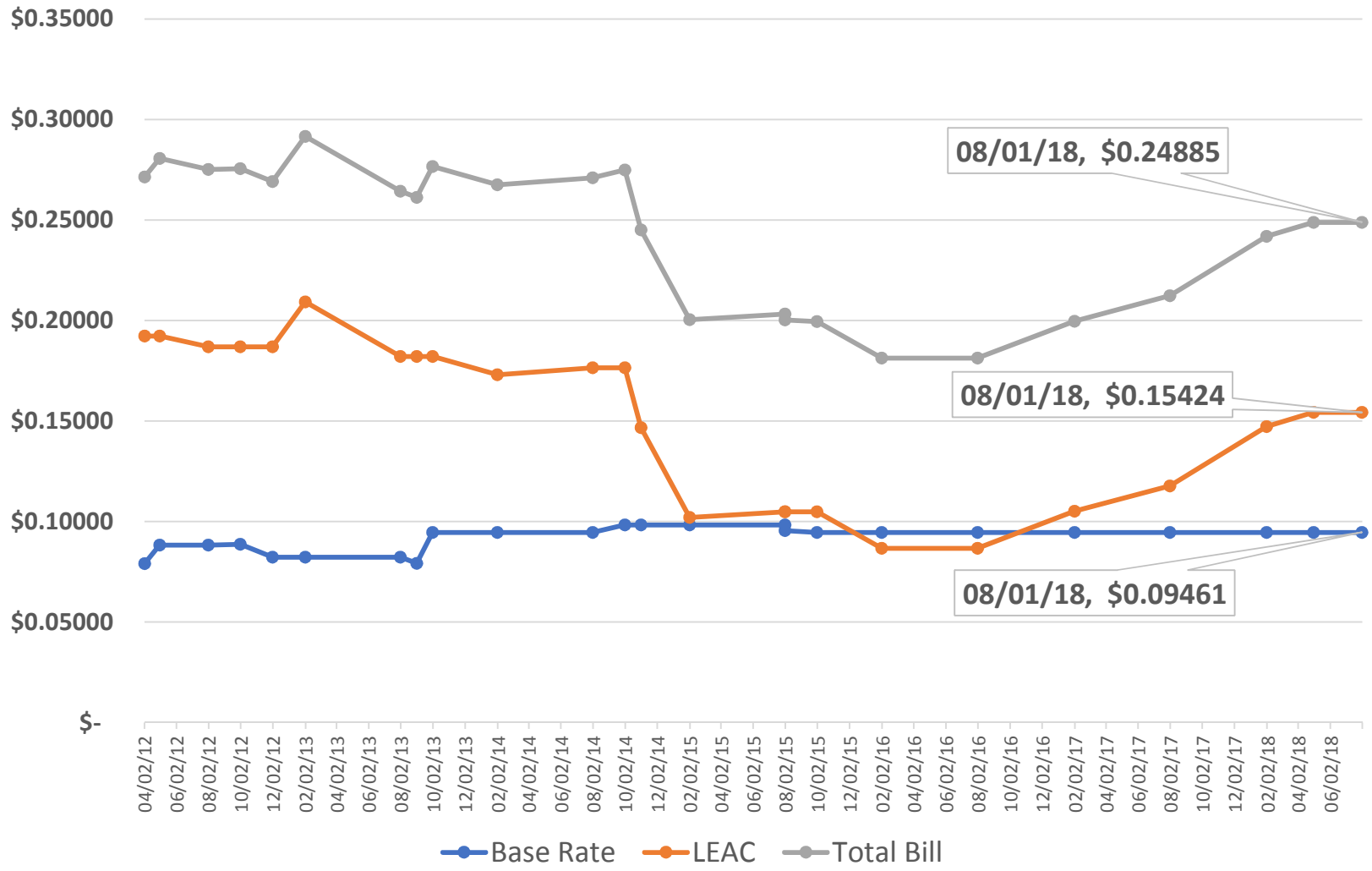
LEAC Update - GPA Fuel Purchases (Per Barrel)



Historical Residential LEAC Rate



Historical Residential Rate



Historical LEAC Over (Under) Recovery

LEAC Period From	To	Approved LEAC Rate	Actual Over (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	$ (13,684,055)	Estimate

a) Under-recovery Balance after applying the $4.6 million from the Cabras 3&4 Extra Expense claim

LEAC Update – Scenario Model Runs

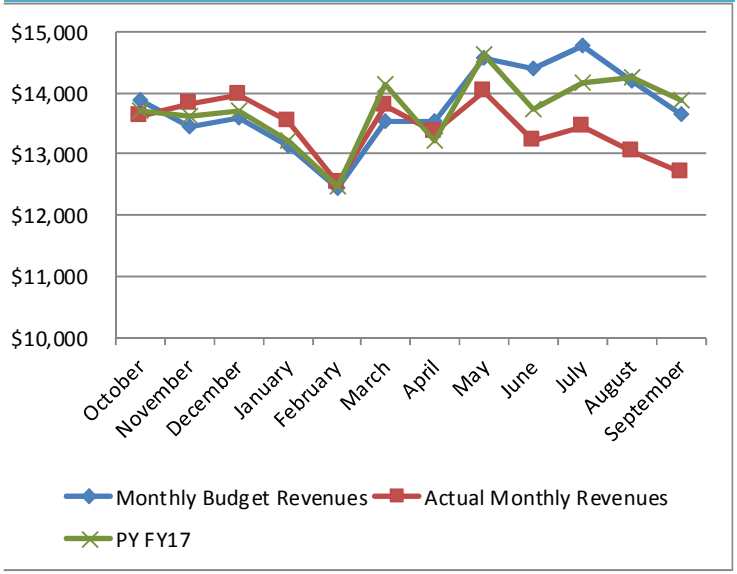
	Proposed Effective 02/01/2019	Fuel Price at $65 per barrel		
		@ Zero Cost Recovery	@ 50% Recovery	@ Full Cost Recovery
1	Average Price per Bbl-RFO	$ 66.73	$ 66.73	$ 66.73
2	Average Price per Gal-Diesel	$ 83.03	$ 83.03	$ 83.03
3	Proposed LEAC Rate	**$ 0.154242**	**$ 0.158055**	**$ 0.161870**
4	Monthly Increase/(Decrease) - 1000 kWh	$ -	$ 3.81	$ 7.63
5	% Increase/(Decrease) in LEAC	0.00%	2.47%	4.95%
6	% Increase/(Decrease) in Total Bill	0.00%	1.53%	3.07%
7	Fuel Cost (Over) Under Recovery at the end of the period	**$5.0M**	**$2.5M**	$ -

LEAC Update - Billing Illustrations

	@ Zero Recovery		@ 50% Recovery		@ Full Recovery	
	Effective 2/1/19		Effective 2/1/19		Effective 2/1/19	
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	0.06955	$ 34.78	0.06955	$ 34.78	0.06955	$ 34.78
Over 500 KWH	0.08687	$ 43.44	0.08687	$ 43.44	0.08687	$ 43.44
Emergency Water-well charge	0.00279	$ 1.40	0.00279	$ 1.40	0.00279	$ 1.40
Insurance Charge		$ -		$ -		$ -
Working Capital Fund Surcharge		$ -		$ -		$ -
Roll-Back Credit		$ -		$ -		$ -
Total Electric Charge before Fuel Recovery Charges		$ 94.61		$ 94.61		$ 94.61
Fuel Recovery Charge	**0.154242**	154.24	**0.158055**	158.06	**0.16187**	161.87
Total Electric Charge		$248.85		$252.66		$256.48
Increase (Decrease) in Total Bill		$0.00		$3.81		$7.63
% Increase (Decrease) in Total Bill		**0.00%**		**1.53%**		**3.07%**
% Increase (Decrease) in LEAC		**0.00%**		**2.47%**		**4.95%**
Cents/kWh		**$ 0.2488**		**$ 0.2527**		**$ 0.2565**

September 2018 Monthly Financial Highlight

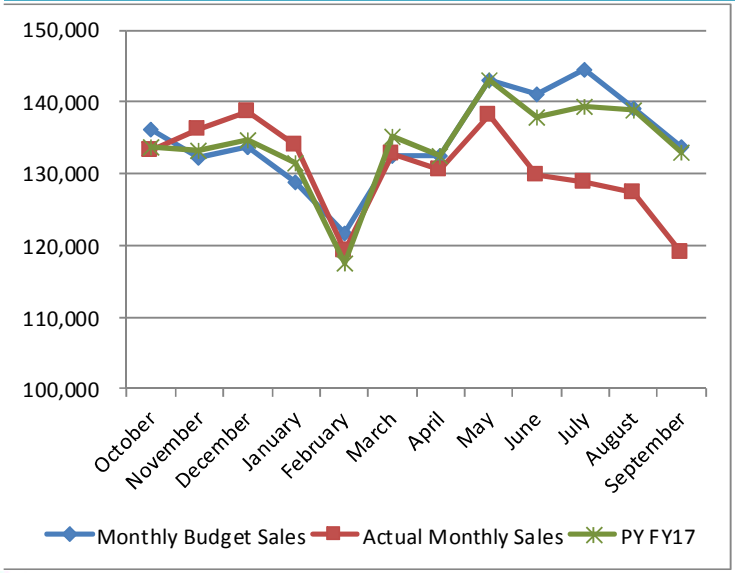
Base Rate Revenue $000



Through September 30, 2018

$000	Monthly Budget Revenues	Actual Monthly Revenues	Variance		PY FY17	CY vs PY Variance	
October	$ 13,873	$ 13,625	$ (248)	↓	$ 13,702	$ (77)	↓
November	13,451	13,827	$ 376	↑	13,622	$ 205	↑
December	13,599	13,968	$ 369	↑	13,695	$ 273	↑
January	13,114	13,534	$ 420	↑	13,220	$ 314	↑
February	12,422	12,522	$ 100	↑	12,454	$ 68	↑
March	13,534	13,776	$ 242	↑	14,123	$ (347)	↓
April	13,525	13,351	$ (174)	↓	13,224	$ 127	↑
May	14,568	14,011	$ (557)	↓	14,617	$ (606)	↓
June	14,386	13,201	$ (1,185)	↓	13,722	$ (521)	↓
July	14,759	13,446	$ (1,313)	↓	14,151	$ (705)	↓
August	14,183	13,047	$ (1,136)	↓	14,244	$ (1,197)	↓
September	13,651	12,700	$ (951)	↓	13,874	$ (1,174)	↓
Total	**$ 165,064**	**$ 161,008**	**$ (4,055)**		**$ 164,649**	**$ (3,641)**	

MWh Sales

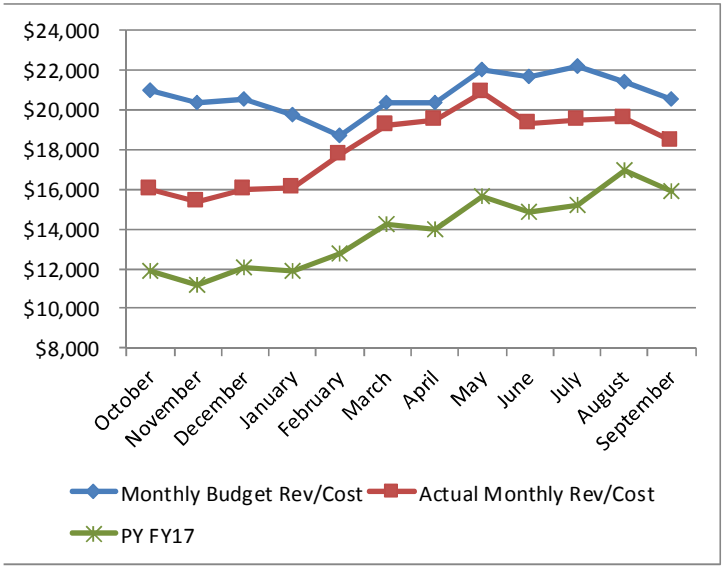


Through September 30, 2018

mwh	Monthly Budget Sales	Actual Monthly Sales	Variance		PY FY17	CY vs PY Variance	
October	136,219	133,262	(2,957)	↓	133,620	(358)	↓
November	132,132	136,044	3,912	↑	133,235	2,809	↑
December	133,625	138,587	4,962	↑	134,634	3,953	↑
January	128,711	133,882	5,170	↑	131,461	2,421	↑
February	121,668	119,241	(2,426)	↓	117,617	1,624	↑
March	132,587	132,693	106	↑	135,131	(2,438)	↓
April	132,532	130,565	(1,967)	↓	132,587	(2,022)	↓
May	142,956	138,085	(4,871)	↓	143,013	(4,928)	↓
June	141,064	129,728	(11,336)	↓	137,777	(8,049)	↓
July	144,404	128,681	(15,723)	↓	139,227	(10,546)	↓
August	139,093	127,348	(11,745)	↓	138,797	(11,449)	↓
September	133,658	118,935	(14,723)	↓	132,993	(14,058)	↓
Total	**1,618,650**	**1,567,052**	**(51,597)**		**1,610,093**	**(43,041)**	

September 2018 Monthly Financial Highlight (Continued)

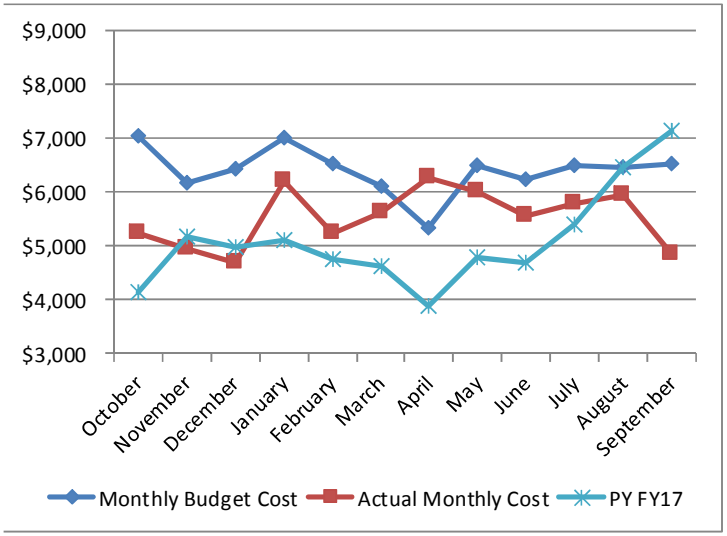
Fuel Revenue/ Cost $000



Through September 30, 2018

$000	Monthly Budget Rev/Cost	Actual Monthly Rev/Cost	Variance		PY FY17	CY vs PY Variance	
October	$ 20,928	$ 15,936	$ (4,992)	↓	$ 11,894	$ 4,042	↑
November	20,300	15,400	$ (4,899)	↓	11,215	$ 4,185	↑
December	20,529	16,007	$ (4,522)	↓	12,036	$ 3,971	↑
January	19,774	16,036	$ (3,738)	↓	11,867	$ 4,169	↑
February	18,692	17,763	$ (930)	↓	12,751	$ 5,012	↑
March	20,370	19,180	$ (1,190)	↓	14,248	$ 4,932	↑
April	20,361	19,441	(920)	↓	13,940	5,500	↑
May	21,963	20,854	(1,109)	↓	15,596	5,258	↑
June	21,672	19,252	(2,420)	↓	14,859	4,393	↑
July	22,185	19,457	(2,728)	↓	15,175	4,282	↑
August	21,369	19,597	(1,772)	↓	16,947	2,650	↑
September	20,534	18,398	(2,136)	↓	15,895	2,503	↑
Total	**$ 248,677**	**$ 217,321**	**$(31,356)**		**$ 166,425**	**$ 50,896**	

O&M Cost $000



Through September 30, 2018

$000	Monthly Budget Cost	Actual Monthly Cost	Variance		PY FY17	CY vs PY Variance	
October	$ 7,040	5,239	1,801	↑	4,135	(1,103)	↓
November	6,182	4,941	1,240	↑	5,158	217	↑
December	6,428	4,694	1,735	↑	4,966	273	↑
January	7,001	6,204	797	↑	5,092	(1,112)	↓
February	6,522	5,252	1,270	↑	4,748	(504)	↓
March	6,091	5,638	453	↑	4,612	(1,026)	↓
April	5,320	6,269	(949)	↓	3,892	(2,378)	↓
May	6,495	6,005	491	↑	4,772	(1,233)	↓
June	6,221	5,558	662	↑	4,702	(856)	↓
July	6,508	5,797	711	↑	5,385	(412)	↓
August	6,462	5,960	502	↑	6,445	485	↑
September	6,526	4,836	1,689	↑	7,138	2,302	↑
Total	**$ 76,796**	**$ 66,394**	**$ 10,403**		**$ 61,045**	**$ (5,348)**	

September 2018 Monthly Financial Highlight (Continued)

Through August 31, 2018						
	3Q2017	4Q2017	1Q2018	2Q2018	3Q2018	4Q2018
Residential	43,902	43,991	43,898	44,065	44,074	43,887
Commercial	5,252	5,226	5,231	5,262	5,278	5,261
Government	1,071	1,073	1,076	1,086	1,092	1,077
Streetlights	824	823	908	1,005	1,091	1,152
Navy	1	1	1	1	1	1
Total	51,050	51,114	51,114	51,419	51,536	51,378

Debt service coverage (DSC) calculation-indenture	2014	2015	2016	2017	YTD Sept 2018
Senior lien coverage	3.16	3.62	3.28	2.65	2.68
Aggregate debt service coverage	1.98	2.62	3.28	2.65	2.68
Debt service coverage (DSC) calculation-IPP as O&M					
Senior lien coverage	2.55	2.56	2.45	1.79	1.80
Aggregate debt service coverage	1.41	1.85	2.45	1.79	1.80

- Under recovery of LEAC - $8.4 million

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

GUAM POWER AUTHORITY
FINANCIAL STATEMENT OVERVIEW
September 2018

Attached are the financial statements and supporting schedules for the month and fiscal year ended September 30, 2018.

Summary
The increase in net assets for the year ended was $13.8 million as compared to the anticipated net increase of $1.0 million at the beginning of the year. This was primarily due to the under-expenditure of O&M expenses – more specifically the over-anticipated fuel costs. The total kWh sales for the year were 3.19% less than projected and non-fuel revenues were $4.0M less than the estimated amounts. O & M expenses for the year were $65.7 million which was $10.0 million less than our projections for this year. Other expenses for the year such as interest expense, IPP costs, (net of interest income and other income) totaled to $40.5 million which was about $7.1 million less than the projected amount. There were no other significant departures from the budget during the period.

Analysis

Description	Previous Month	Current Month	Target
Quick Ratio	2.62	1.92	2
Days in Receivables	38	38	52
Days in Payables	20	42	30
LEAC (Over)/Under Recovery Balance -YTD	$7,313,081	$8,370,542	$8,802,313
T&D Losses	5.08%	5.12%	7.00%
Debt Service Coverage	1.78	1.75	1.75
Long-term equity ratio	17%	18%	30 – 40%
Days in Cash	199	216	60

The Quick Ratio reflects the basic challenge facing GPA. However, this fiscal year has shown improvement over the previous fiscal year. This is due to the receipt of $84M in cash advances of insurance proceeds. GPA has current obligations of approximately $94.7 million and approximately $181.5 million in cash and current receivables. The LEAC under recovery for the month is $1.1 million. The Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

Financial Statement
September 2018
Significant Assumptions

The significant assumptions in the financial statements are as follows:

- Accrual cutoff procedures were performed at month end
- An inventory valuation is performed at year-end only
- Accounts Receivable includes accruals based on prior months' usage.

Prepared by:	Reviewed by:	Approved by:
Lenora M. Sanz Controller	John J.E. Kim Chief Financial Officer	John M. Benavente, P.E. General Manager

Statements of Net Position September 30, 2018 and September 30, 2017	Unaudited September 2018	Audited September 2017	Change from Sept 30 2017
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES			
Current assets:			
Cash and cash equivalents:			
Held by trustee for restricted purposes:			
Interest and principal funds	17,997,927	18,061,879	(63,952)
Bond indenture funds	49,970,719	56,907,535	(6,936,816)
Held by Guam Power Authority:			
Bond indenture funds	142,583,470	132,579,889	10,003,581
Self insurance fund-restricted	19,258,353	19,251,372	6,981
Energy sense fund	1,085,472	1,074,491	10,981
Total cash and cash equivalents	230,895,941	227,875,166	3,020,775
Accounts receivable, net	37,746,060	77,826,132	(40,080,072)
Total current receivables	37,746,060	77,826,132	(40,080,072)
Materials and supplies inventory	12,695,441	11,989,745	705,696
Fuel inventory	67,993,103	52,387,369	15,605,734
Prepaid expenses	979,828	629,586	350,242
Total current assets	350,310,373	370,707,998	(20,397,625)
Utility plant, at cost:			
Electric plant in service	1,063,192,955	1,038,121,362	25,071,593
Construction work in progress	28,495,325	18,480,173	10,015,152
Total	1,091,688,280	1,056,601,535	35,086,745
Less: Accumulated depreciation	(598,792,653)	(561,829,334)	(36,963,319)
Total utility plant	492,895,627	494,772,201	(1,876,574)
Other non-current assets:			
Investment - bond reserve funds held by trustee	48,600,660	48,576,863	23,797
Unamortized debt issuance costs	2,503,448	4,267,305	(1,763,857)
Total other non-current assets	51,104,108	52,844,168	(1,740,060)
Total assets	894,310,108	918,324,367	(24,014,259)
Deferred outflow of resources:			
Deferred fuel revenue	8,370,542	16,751,048	(8,380,506)
Unamortized loss on debt refunding	27,093,636	11,076,064	16,017,572
Pension	8,698,853	8,698,853	0
Unamortized forward delivery contract costs	477,998	637,358	(159,360)
Total deferred outflows of resources	44,641,029	37,163,323	7,477,706
	938,951,137	955,487,690	(16,536,553)

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statement of Net Position, Continued
September 30, 2018 and September 30, 2017

	Unaudited September 2018	Audited September 2017	Change from Sept 30 2017
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION			
Current liabilities:			
Current maturities of long-term debt	1,630,000	1,780,000	(150,000)
Current obligations under capital leases	18,126,544	23,330,193	(5,203,649)
Accounts payable			
Operations	47,870,908	56,723,139	(8,852,232)
Others	259,708	7,597,801	(7,338,092)
Accrued payroll and employees' benefits	1,949,080	1,546,860	402,220
Current portion of employees' annual leave	2,101,168	2,045,201	55,967
Interest payable	14,660,598	15,065,830	(405,232)
Customer deposits	8,142,519	8,209,228	(66,709)
Total current liabilities	94,740,525	116,298,252	(21,557,727)
Regulatory liabilities:			
Provision for self insurance	19,345,291	19,550,977	(205,686)
Total regulatory liabilities	19,345,291	19,550,977	(205,686)
Long term debt, net of current maturities	604,881,434	590,568,862	14,312,572
Obligations under capital leases, net of current portion	6,571,815	24,428,832	(17,857,017)
Net Pension liability	81,468,099	85,875,217	(4,407,118)
DCRS sick leave liability	4,008,397	4,008,397	0
Employees' annual leave net of current portion	1,086,456	1,086,456	0
Customer advances for construction	385,293	369,180	16,113
Total liabilities	812,487,310	842,186,173	(29,698,863)
Deferred inflows of resources:			
Unearned forward delivery contract revenue	1,752,053	2,336,071	(584,018)
Pension	788,894	788,894	0
Total deferred inflows of resources	2,540,947	3,124,965	(584,018)
Commitments and contigencies			
Net Position:			
Net investment in capital assets	(40,128,079)	(40,220,468)	92,389
Restricted	47,856,103	15,232,832	32,623,271
Unrestricted	116,194,856	135,164,187	(18,969,332)
Total net position	123,922,879	110,176,552	13,746,327
	938,951,137	955,487,690	(16,536,553)

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM
Statement of Revenues, Expenses and Changes in Net Assets

	September 30			Twelve Months Ending September 30		
	Unaudited 2018	Audited 2017	% of change Inc (dec)	Unaudited 2018	Audited 2017	% of change Inc (dec)
Revenues						
Sales of electricity	31,097,639	29,769,728	4	378,328,873	331,074,054	14
Miscellaneous	194,101	51,936	274	2,217,201	2,193,476	1
Total	31,291,740	29,821,664	5	380,546,074	333,267,530	14
Bad debt expense	285,382	1,187,950	(76)	(677,870)	200,588	(438)
Total revenues	31,577,122	31,009,614	2	379,868,204	333,468,118	14
Operating and maintenance expenses						
Production fuel	18,390,290	15,896,627	16	217,324,520	166,426,108	31
Other production	1,595,738	3,207,918	(50)	16,998,852	17,762,059	(4)
	19,986,028	19,104,545	5	234,323,372	184,188,167	27
Depreciation	3,229,310	831,387	288	38,549,877	44,291,587	(13)
Energy conversion cost	1,414,314	1,769,267	(20)	17,552,373	19,935,334	(12)
Transmission & distribution	389,149	986,467	(61)	12,228,617	11,749,623	4
Customer accounting	622,025	468,168	33	5,560,217	4,296,347	29
Administrative & general	2,514,747	8,709,435	(71)	30,928,370	32,484,110	(5)
Total operating and maintenance expenses	28,155,573	31,869,269	(12)	339,142,826	296,945,168	14
Operating income	3,421,549	(859,655)	(498)	40,725,378	36,522,950	12
Other income (expenses)						
Interest income	524,246	346,969	51	3,260,342	1,722,482	89
Interest expense and amortization	(2,500,104)	(2,610,748)	(4)	(31,620,663)	(33,693,389)	(6)
Bond issuance costs	(115,438)	76,827	(250)	(1,892,175)	921,924	(305)
Gains from catastrophic events	2,310,282	39,823,785	0	2,310,282	39,977,139	
Allowance for funds used during construction	123,062	272,277	(55)	1,686,379	3,675,582	(54)
Other expense	(4,291)	(4,058)	0	(839,392)	(772,971)	9
Total other income (expenses)	337,757	37,905,052	(99)	(27,095,227)	11,830,767	(329)
Income (loss) before capital contributions	3,759,306	37,045,397	(90)	13,630,151	48,353,717	(72)
Capital contributions	0	(144,702)	0	116,175	10	1,161,650
Increase (decrease) in net assets	3,759,306	36,900,695	(90)	13,746,326	48,353,727	(72)
Total net assets at beginning of period (restated)	120,163,577	73,122,508	64	110,176,557	61,822,830	78
Total net assets at end of period	123,922,883	110,023,203	13	123,922,883	110,176,557	12

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Cash Flows
Period Ended September 30, 2018

	Month Ended 9/30/2018	YTD Ended 9/30/2018
Increase(decrease) in cash and cash equivalents		
Cash flows from operating activities:		
Cash received from customers	$30,320,239	$ 377,977,999
Cash payments to suppliers and employees for goods and services	5,481,078	344,254,356
Net cash provided by operating activities	$24,839,161	33,723,643
Cash flows from investing activities:		
Interest and dividends on investments and bank accounts	524,246	3,260,342
Net cash provided by investing activities	524,246	3,260,342
Cash flows from non-capital financing activities		
Proceeds from Cabras 3&4 insurance claims	-	41,844,342
Interest paid on short term debt	(6,017)	(81,907)
Provision for self insurance funds	(1,167)	(6,981)
Net cash provided by noncapital financing activities	(7,184)	41,755,454
Cash flows from capital and related financing activities		
Acquisition of utility plant	(7,287,027)	(36,673,302)
Principal paid on bonds and other long-term debt	-	(3,550,000)
Interest paid on bonds(net of capitalized interest)	123,062	(27,090,907)
Interest paid on capital lease obligations	(180,898)	(3,166,701)
Interest & principal funds held by trustee	(2,688,136)	63,952
Reserve funds held by trustee	(32,958)	(23,797)
Bond funds held by trustee	1,023,269	6,936,816
Principal payment on capital lease obligations	(1,963,200)	(23,060,666)
Grant from DOI/FEMA	-	116,175
Debt issuance costs/loss on defeasance	(162,524)	17,712,572
Net cash provided by (used in) capital and related financing activities	(11,168,412)	(68,735,858)
Net (decrease) increase in cash and cash equivalents	14,187,811.13	10,003,581
Cash and cash equivalents, beginning	128,395,658	132,579,889
Cash and cash equivalents-Funds held by GPA, September 30, 2018	**$ 142,583,470**	**$ 142,583,470**

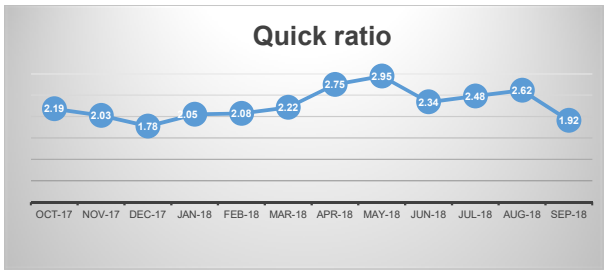
GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Cash Flows, continued
Period Ended September 30, 2018

	Month Ended 9/30/2018	YTD Ended 9/30/2018
Reconciliation of operating earnings to net cash provided by operating activities:		
Operating earnings net of depreciation expense and excluding interest income	$3,421,549	$40,725,378
Adjustments to reconcile operating earnings to net cash provided by operating activities:		
Depreciation and amortization	3,229,310	38,549,877
Other expense	2,190,553	(421,285)
(Increase) decrease in assets:		
Accounts receivable	(1,248,340)	(1,764,270)
Materials and inventory	143,473	(705,696)
Fuel inventory	(6,491,625)	(15,605,734)
Prepaid expenses	960,567	(350,242)
Unamortized debt issuance cost	23,667	1,763,857
Deferred fuel revenue	(1,057,461)	8,380,506
Unamortized loss on debt refunding	229,166	(16,017,572)
Unamortized forward delivery contract costs	13,280	159,360
Increase (decrease) in liabilities:		
Accounts payable-operations	26,136,842	(8,852,232)
Accounts payable-others	(2,351,491)	(7,349,073)
Accrued payroll and employees' benefits	371,982	402,220
Provision for self insurance	(205,686)	(205,686)
Net pension liability	(482,933)	(4,407,118)
Employees' annual leave	30,250	55,967
Customers deposits	(25,274)	(66,709)
Customer advances for construction	-	16,113
Unearned forward delivery contract revenue	(48,668)	(584,018)
Net cash provided by operating activities	**$24,839,161**	**$ 33,723,643**

Guam Power Authority
Financial Analysis
09/30/18

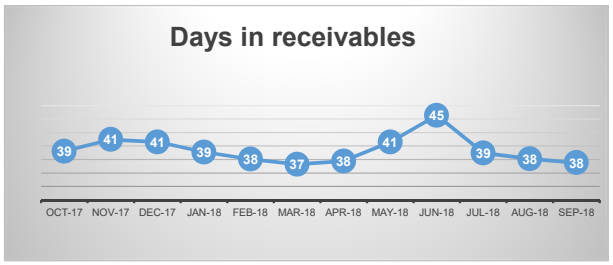
Quick Ratio

A	Reserve Funds Held by GPA	142,583,470
B	Current Accounts Receivable	38,923,067
C	Total Cash and A/R (A+B)	181,506,537
D	Total Current Liabilities	94,740,525
E	**Quick Ratio (F/G)**	**1.92**



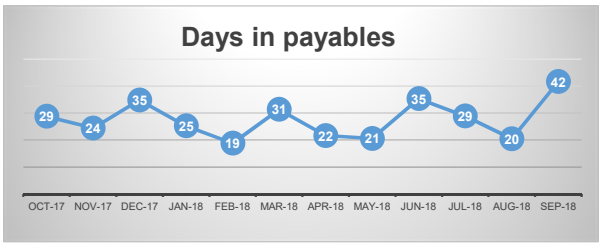
Days in Receivables

A	FY 18 Moving 12 Mos.-Actual	378,328,873
B	No. of Days	365
C	Average Revenues per day (A/B)	1,036,517
D	Current Accounts Receivable	38,923,067
E	**Days in Receivables (D/C)**	**38**



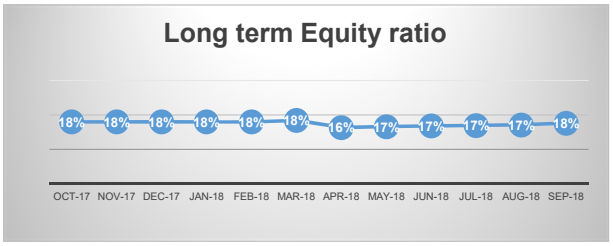
Days in Payables

A	FY 18 Moving 12 Months-Actual	421,928,863
B	No. of Days	365
C	Average Payables per day (A/B)	1,155,969
D	Current Accounts Payables	48,130,616
E	**Days in Payables (D/C)**	**42**



Long term equity ratio

A	Equity	$	123,922,879.00
B	Total Long term Liability	$	579,271,804.00
C	Total Equity and liability	$	703,194,683.00
D	**Long term equity ratio (A/C)**		**18%**

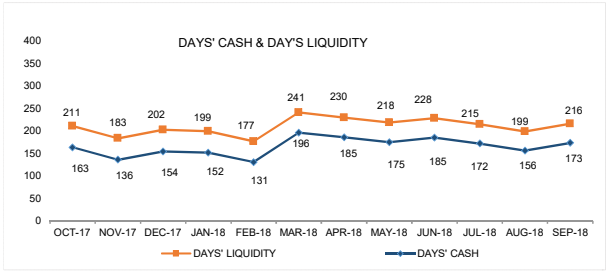


Days cash on hand

A	Unresctricted cash & cash equivalents	142,583
B	No. of Days -YTD	365
C	A x B	52,042,967
D	Total Operating expenses excluding deprec	300,593
E	**Days cash on hand**	**173**

Days' Liquidity

A	Unresctricted cash , cash equivalents & rev	177,583
B	No. of Days -YTD	365
C	A x B	64,817,967
D	Total Operating expenses excluding deprec	300,593
E	**Days liquidity**	**216**



GPA 302
10/18/2018

GUAM POWER AUTHORITY
ACCRUED REVENUE
SEPTEMBER 2018

	FOR THE MONTH ENDED SEPTEMBER		TWELVE MONTHS ENDED SEPTEMBER	
	2018	**2017**	**2018**	**2017**
KWH SALES:				
Residential	37,207,511	41,491,015	495,346,749	506,335,601
Small Gen. Non Demand	6,128,698	7,022,092	81,419,604	83,899,700
Small Gen. Demand	14,018,162	15,509,408	184,605,153	190,050,925
Large General	23,573,240	25,432,034	307,368,249	314,573,231
Independent Power Producer	29,708	76,532	479,714	1,003,769
Private St. Lights	34,933	34,586	403,056	450,462
Sub-total	80,992,253	89,565,666	1,069,622,525	1,096,313,688
Government Service:				
Small Non Demand	1,089,787	1,246,106	14,326,985	13,902,245
Small Demand	7,082,161	8,084,368	92,945,937	96,878,601
Large	5,873,776	6,493,449	74,650,307	74,897,968
Street Lighting	734,966	697,002	9,046,218	9,514,607
Sub-total	14,780,690	16,520,925	190,969,447	195,193,421
Total	95,772,942	106,086,591	1,260,591,972	1,291,507,110
U. S. Navy	23,161,867	26,906,320	306,460,172	318,585,901
GRAND TOTAL	118,934,809	132,992,911	1,567,052,144	1,610,093,011
REVENUE:				
Residential	$ 9,335,975	$ 8,887,320	$ 117,823,431	$ 100,601,977
Small Gen. Non Demand	$ 1,793,407	$ 1,783,997	$ 22,678,840	$ 20,040,732
Small Gen. Demand	$ 3,892,588	$ 3,692,273	$ 48,253,949	$ 42,069,517
Large General	$ 6,170,948	$ 5,643,059	$ 74,919,062	$ 64,178,060
Independent Power Producer	$ 8,392	$ 17,076	$ 117,110	$ 211,031
Private St. Lights	$ 26,392	$ 25,361	$ 309,040	$ 306,957
Sub-total	$ 21,227,703	$ 20,049,087	$ 264,101,431	$ 227,408,274
Government Service:				
Small Non Demand	$ 335,723	$ 333,079	$ 4,157,890	$ 3,513,008
Small Demand	$ 2,104,471	$ 2,050,292	$ 25,540,259	$ 22,830,078
Large	$ 1,680,530	$ 1,575,080	$ 19,852,611	$ 16,979,365
Street Lighting	$ 477,638	$ 436,808	$ 5,557,483	$ 5,438,696
Sub-total	$ 4,598,362	$ 4,395,259	$ 55,108,243	$ 48,761,148
Total	$ 25,826,065	$ 24,444,346	$ 319,209,674	$ 276,169,422
U. S. Navy	$ 5,271,574	$ 5,325,383	$ 59,119,199	$ 54,904,634
GRAND TOTAL	$ 31,097,639	$ 29,769,728	$ 378,328,873	$ 331,074,056
NUMBER OF CUSTOMERS:				
Residential	43,887	43,991	44,006	43,756
Small Gen. Non Demand	4,159	4,127	4,158	4,127
Small Gen. Demand	982	980	984	987
Large General	118	116	119	116
Independent Power Producer	2	3	3	3
Private St. Lights	525	526	529	526
Sub-total	49,673	49,743	49,798	49,515
Government Service:				
Small Non Demand	677	675	685	681
Small Demand	353	353	351	348
Large	47	45	47	45
Street Lighting	627	297	489	253
Sub-total	1,704	1,370	1,573	1,328
Total	51,377	51,113	51,371	50,842
US Navy	1	1	1	1
	51,378	51,114	51,372	50,843

GPA403
18-Oct-18

GUAM POWER AUTHORITY
ACCRUED REVENUE

	TWELVE MONTHS ENDED	SEPTEMBER 2018	AUGUST 2018	JULY 2018	JUNE 2018	MAY 2018	APRIL 2018	MARCH 2018	FEBRUARY 2018	JANUARY 2018	DECEMBER 2017	NOVEMBER 2017	OCTOBER 2017
KWH SALES:													
Residential	495,346,749	37,207,511	39,748,314	41,361,122	42,056,621	44,782,019	41,394,961	41,541,824	36,809,815	42,067,765	43,307,944	43,386,853	41,682,000
Small General Non Demand	81,419,604	6,128,698	6,737,467	6,743,157	6,840,318	7,216,684	6,694,385	6,976,607	6,154,115	6,844,713	6,956,278	7,060,041	7,067,142
Small General Demand	184,605,153	14,018,162	15,283,605	15,161,689	15,360,000	16,316,998	15,390,268	15,917,309	14,164,319	15,562,774	15,848,505	15,789,397	15,792,127
Large General	307,368,249	23,573,240	24,724,982	25,339,577	25,263,128	26,377,222	25,681,619	26,155,199	23,674,407	26,242,185	27,485,887	26,267,661	26,583,141
Private Outdoor Lighting	403,056	34,933	33,511	34,288	37,088	34,126	27,531	32,791	32,408	32,358	35,129	35,042	33,851
Independent Power Producer	479,714	29,708	30,251	30,088	25,238	26,295	27,405	28,536	28,976	27,011	40,140	93,823	92,244
Sub-Total	1,069,622,525	80,992,253	86,558,130	88,669,920	89,582,394	94,753,344	89,216,169	90,652,265	80,864,040	90,776,805	93,673,883	92,632,817	91,250,505
Government Service:													
Small Non Demand	14,326,985	1,089,787	1,205,730	1,128,046	1,157,839	1,224,286	1,180,911	1,193,794	1,119,571	1,248,251	1,272,026	1,255,131	1,251,612
Small Demand	92,945,937	7,082,161	7,641,330	7,182,975	7,404,715	8,098,401	7,720,850	7,889,205	7,377,578	8,102,981	8,063,549	8,098,974	8,283,218
Large	74,650,307	5,873,776	6,179,381	5,707,305	5,896,149	6,622,597	6,142,309	6,226,210	5,905,830	6,315,619	6,812,255	6,550,623	6,418,254
Street Lighting (Agencies)	9,046,218	734,966	842,364	903,135	795,661	761,901	699,601	743,499	669,689	716,067	697,921	668,464	812,949
Sub-Total	190,969,447	14,780,690	15,868,805	14,921,461	15,254,364	16,707,185	15,743,671	16,052,709	15,072,669	16,382,918	16,845,750	16,573,193	16,766,033
Total	1,260,591,972	95,772,942	102,426,935	103,591,381	104,836,757	111,460,529	104,959,840	106,704,974	95,936,708	107,159,724	110,519,633	109,206,010	108,016,537
U.S. Navy	306,460,172	23,161,867	24,921,140	25,089,942	24,891,007	26,624,376	25,605,624	25,988,485	23,304,608	26,722,147	28,067,673	26,837,883	25,245,420
Grand Total	1,567,052,144	118,934,809	127,348,076	128,681,323	129,727,764	138,084,906	130,565,464	132,693,459	119,241,316	133,881,870	138,587,306	136,043,893	133,261,957
REVENUE:													
Residential	$ 117,823,431	$ 9,335,975	$ 9,971,178	$ 10,379,963	$ 10,487,819	$ 11,371,498	$ 10,082,308	$ 10,154,660	$ 9,633,432	$ 8,985,179	$ 9,238,911	$ 9,263,463	$ 8,919,044
Small General Non Demand	$ 22,678,840	$ 1,793,407	$ 1,962,561	$ 1,975,429	$ 1,969,294	$ 2,127,563	$ 1,903,541	$ 1,988,097	$ 1,869,658	$ 1,741,922	$ 1,765,223	$ 1,789,263	$ 1,792,881
Small General Demand	$ 48,253,949	$ 3,892,588	$ 4,192,538	$ 4,181,623	$ 4,150,658	$ 4,513,787	$ 4,108,079	$ 4,266,730	$ 4,006,949	$ 3,714,258	$ 3,769,415	$ 3,699,298	$ 3,758,026
Large General	$ 74,919,062	$ 6,170,948	$ 6,427,049	$ 6,510,707	$ 6,533,909	$ 6,798,955	$ 6,399,879	$ 6,565,683	$ 6,086,686	$ 5,762,313	$ 6,067,740	$ 5,793,817	$ 5,801,375
Private Outdoor Lighting	$ 309,040	$ 26,392	$ 26,189	$ 26,302	$ 27,542	$ 26,776	$ 22,912	$ 25,785	$ 25,733	$ 25,133	$ 25,553	$ 25,471	$ 25,250
Independent Power Producer	$ 117,110	$ 8,392	$ 7,924	$ 9,619	$ 6,601	$ 7,068	$ 7,057	$ 7,406	$ 7,969	$ 6,029	$ 9,249	$ 20,053	$ 19,744
Sub-Total	$ 264,101,431	$ 21,227,703	$ 22,587,439	$ 23,083,643	$ 23,175,823	$ 24,845,648	$ 22,523,776	$ 23,008,362	$ 21,630,428	$ 20,234,834	$ 20,876,091	$ 20,591,366	$ 20,316,320
Government Service:													
Small Non Demand	$ 4,157,890	$ 335,723	$ 366,623	$ 343,795	$ 354,533	$ 372,707	$ 350,949	$ 356,541	$ 335,126	$ 332,434	$ 341,017	$ 334,963	$ 333,478
Small Demand	$ 25,540,259	$ 2,104,471	$ 2,213,718	$ 2,081,391	$ 2,159,463	$ 2,323,025	$ 2,164,585	$ 2,224,973	$ 2,094,220	$ 2,016,922	$ 2,046,340	$ 2,043,720	$ 2,067,433
Large	$ 19,852,611	$ 1,680,530	$ 1,733,549	$ 1,609,173	$ 1,667,786	$ 1,840,797	$ 1,676,200	$ 1,707,269	$ 1,628,297	$ 1,525,771	$ 1,652,805	$ 1,583,988	$ 1,546,446
Street Lighting (Agencies)	$ 5,557,483	$ 477,638	$ 499,032	$ 568,447	$ 477,183	$ 477,272	$ 452,952	$ 455,729	$ 439,995	$ 427,482	$ 416,951	$ 419,351	$ 445,451
Sub-Total	$ 55,108,243	$ 4,598,362	$ 4,812,921	$ 4,602,806	$ 4,658,965	$ 5,013,801	$ 4,644,687	$ 4,744,512	$ 4,497,638	$ 4,302,609	$ 4,457,113	$ 4,382,022	$ 4,392,807
Total	$ 319,209,674	$ 25,826,065	$ 27,400,361	$ 27,686,449	$ 27,834,788	$ 29,859,448	$ 27,168,463	$ 27,752,874	$ 26,128,065	$ 24,537,443	$ 25,333,204	$ 24,973,388	$ 24,709,127
U.S. Navy	$ 59,119,199	$ 5,271,574	$ 5,243,314	$ 5,217,194	$ 4,618,042	$ 5,005,555	$ 5,623,411	$ 5,202,943	$ 4,155,974	$ 5,033,103	$ 4,642,130	$ 4,254,065	$ 4,851,893
Grand Total	$ 378,328,873	$ 31,097,639	$ 32,643,674	$ 32,903,643	$ 32,452,830	$ 34,865,003	$ 32,791,874	$ 32,955,817	$ 30,284,040	$ 29,570,546	$ 29,975,334	$ 29,227,453	$ 29,561,020
NUMBER OF CUSTOMERS:													
Residential	44,006	43,887	44,005	44,003	44,074	44,086	43,991	44,065	43,995	44,119	43,898	43,996	43,950
Small General Non Demand	4,158	4,159	4,185	4,183	4,173	4,172	4,183	4,154	4,153	4,142	4,129	4,131	4,134
Small General Demand	984	982	984	982	984	988	988	987	991	981	981	982	982
Large General	119	118	118	119	119	119	119	119	118	119	118	117	119
Private Outdoor Lighting	529	525	525	531	532	533	536	526	527	527	530	527	530
Independent Power Producer	3	2	3	3	3	2	2	2	2	2	3	3	3
Sub-Total	49,798	49,673	49,820	49,821	49,885	49,900	49,819	49,853	49,786	49,890	49,659	49,756	49,718
Government Service:													
Small Non Demand	685	677	683	690	694	691	692	689	684	686	679	678	676
Small Demand	351	353	354	351	351	350	350	350	351	350	350	354	351
Large	47	47	47	47	47	47	47	47	47	47	47	47	46
Street Lighting (Agencies)	489	627	614	612	559	526	513	479	421	389	378	378	377
Sub-Total	1,573	1,704	1,698	1,700	1,651	1,614	1,602	1,565	1,503	1,472	1,454	1,457	1,450
Total	51,371	51,377	51,518	51,521	51,536	51,514	51,421	51,418	51,289	51,362	51,113	51,213	51,168
U.S. Navy	1	1	1	1	1	1	1	1	1	1	1	1	1
Grand Total	51,372	51,378	51,519	51,522	51,537	51,515	51,422	51,419	51,290	51,363	51,114	51,214	51,169

GPA303

GUAM POWER AUTHORITY
ACCRUED REVENUE
SEPTEMBER 2018

RATE	NUMBER OF CUSTOMERS	KWH SALES	TOTAL REVENUE AMOUNT	TOTAL REVENUE C/KWH	BASE RATE REVENUE C/KWH	BASE RATE REVENUE AMOUNT	AVERAGE PER CUSTOMER KWH	AVERAGE PER CUSTOMER REVENUE	NON-FUEL C/KWH	NON-FUEL AMOUNT	0.154242 FUEL C/KWH	0.154242 FUEL AMOUNT
Month ended September 2018												
R Residential	43,887	37,207,511	$ 9,335,975	$ 25.09	$ 25.09	$ 9,335,975	848	$ 213	$ 9.67	$ 3,597,014	$ 15.42	$ 5,738,961
G Small Gen. Non Demand	4,159	6,128,698	$ 1,793,407	$ 29.26	$ 29.26	$ 1,793,407	1,474	$ 431	$ 13.84	$ 848,105	$ 15.42	$ 945,303
J Small Gen. Demand	982	14,018,162	$ 3,892,588	$ 27.77	$ 27.77	$ 3,892,588	14,275	$ 3,964	$ 12.35	$ 1,731,150	$ 15.42	$ 2,161,438
P Large General	118	23,573,240	$ 6,170,948	$ 26.18	$ 26.18	$ 6,170,948	199,773	$ 52,296	$ 10.81	$ 2,549,051	$ 15.36	$ 3,621,896
I Independent Power Producer	2	29,708	$ 8,392	$ 28.25	$ 28.25	$ 8,392	14,854	$ 4,196	$ 13.32	$ 3,958	$ 14.93	$ 4,435
H Private St. Lights	525	34,933	$ 26,392	$ 75.55	$ 75.55	$ 26,392	67	$ 50	$ 60.13	$ 21,004	$ 15.42	$ 5,388
Sub-Total	49,673	80,992,253	$ 21,227,703	$ 26.21	$ 26.21	$ 21,227,703	1,631	$ 427	$ 10.80	$ 8,750,282	$ 15.41	$ 12,477,421
Government Service:												
S Small Non Demand	677	1,089,787	$ 335,723	$ 30.81	$ 30.81	$ 335,723	1,610	$ 496	$ 15.38	$ 167,632	$ 15.42	$ 168,091
K Small Demand	353	7,082,161	$ 2,104,471	$ 29.72	$ 29.72	$ 2,104,471	20,063	$ 5,962	$ 14.29	$ 1,012,105	$ 15.42	$ 1,092,367
L Large	47	5,873,776	$ 1,680,530	$ 28.61	$ 28.61	$ 1,680,530	124,974	$ 35,756	$ 13.37	$ 785,049	$ 15.25	$ 895,481
F Street Lighting (Agencies)	627	734,966	$ 477,638	$ 64.99	$ 64.99	$ 477,638	1,172	$ 762	$ 49.56	$ 364,275	$ 15.42	$ 113,363
Sub-Total	1,704	14,780,690	$ 4,598,362	$ 31.11	$ 31.11	$ 4,598,362	8,674	$ 2,699	$ 15.76	$ 2,329,061	$ 15.35	$ 2,269,301
	51,377	95,772,942	$ 25,826,065	$ 57.32	$ 57.32	$ 25,826,065	1,864	$ 503	$ 11.57	$ 11,079,343	$ 15.40	$ 14,746,722
U.S. Navy	1	23,161,867	$ 5,271,574	$ 22.76	$ 22.76	$ 5,271,574			$ 7.00	$ 1,622,468	$ 15.75	$ 3,649,106
TOTAL	51,378	118,934,809	$ 31,097,639	$ 26.15	$ 26.15	$ 31,097,639	2,315	$ 605	$ 10.68	$ 12,701,811	$ 15.47	$ 18,395,828
Twelve Months Ended September 2018												
R Residential	44,006	495,346,749	$ 117,823,431	$ 23.79	$ 23.79	$ 117,823,431	11,256	$ 2,677	$ 9.63	$ 47,684,300	$ 14.16	$ 70,139,131
G Small Gen. Non Demand	4,158	81,419,604	$ 22,678,840	$ 27.85	$ 27.85	$ 22,678,840	19,581	$ 5,454	$ 13.69	$ 11,144,442	$ 14.17	$ 11,534,398
J Small Gen. Demand	984	184,605,153	$ 48,253,949	$ 26.14	$ 26.14	$ 48,253,949	187,543	$ 49,022	$ 12.01	$ 22,162,504	$ 14.13	$ 26,091,445
P Large General	119	307,368,249	$ 74,919,062	$ 24.37	$ 24.37	$ 74,919,062	2,593,825	$ 632,228	$ 10.42	$ 32,030,195	$ 13.95	$ 42,888,867
I Independent Power Producer	3	479,714	$ 117,110	$ 24.41	$ 24.41	$ 117,110	191,886	$ 46,844	$ 11.49	$ 55,133	$ 12.92	$ 61,977
H Private St. Lights	529	403,056	$ 309,040	$ 76.67	$ 76.67	$ 309,040	762	$ 584	$ 62.65	$ 252,499	$ 14.03	$ 56,540
Sub-Total	49,798	1,069,622,525	$ 264,101,431	$ 24.69	$ 24.69	$ 264,101,431	21,479	$ 5,303	$ 10.60	$ 113,329,073	$ 14.10	$ 150,772,358
Government Service:												
S Small Non Demand	685	14,326,985	$ 4,157,890	$ 29.02	$ 29.02	$ 4,157,890	20,918	$ 6,071	$ 15.05	$ 2,156,006	$ 13.97	$ 2,001,884
K Small Demand	351	92,945,937	$ 25,540,259	$ 27.48	$ 27.48	$ 25,540,259	264,615	$ 72,712	$ 13.51	$ 12,553,263	$ 13.97	$ 12,986,996
L Large	47	74,650,307	$ 19,852,611	$ 26.59	$ 26.59	$ 19,852,611	1,591,126	$ 423,146	$ 12.79	$ 9,544,414	$ 13.81	$ 10,308,197
F Street Lighting (Agencies)	489	9,046,218	$ 5,557,483	$ 61.43	$ 61.43	$ 5,557,483	18,484	$ 11,355	$ 47.34	$ 4,282,666	$ 14.09	$ 1,274,816
Sub-Total	1,573	190,969,447	$ 55,108,243	$ 28.86	$ 28.86	$ 55,108,243	121,443	$ 35,045	$ 14.94	$ 28,536,350	$ 13.91	$ 26,571,893
U.S. Navy	1	306,460,172	$ 59,119,199	$ 19.29	$ 19.29	$ 59,119,199			$ 6.25	$ 19,138,937	$ 13.05	$ 39,980,262
TOTAL	51,372	1,567,052,144	$ 378,328,873	$ 24.14	$ 24.14	$ 378,328,873	30,504	$ 7,365	$ 10.27	$ 161,004,359	$ 13.87	$ 217,324,513
Twelve Months Ended September 2018												
R Residential	44,006	495,346,749	$ 117,823,431	$ 23.79	$ 23.79	$ 117,823,431	11,256	$ 2,677	$ 9.63	$ 47,684,300	$ 14.16	$ 70,139,131
G Small Gen. Non Demand	4,158	81,419,604	$ 22,678,840	$ 27.85	$ 27.85	$ 22,678,840	19,581	$ 5,454	$ 13.69	$ 11,144,442	$ 14.17	$ 11,534,398
J Small Gen. Demand	984	184,605,153	$ 48,253,949	$ 26.14	$ 26.14	$ 48,253,949	187,543	$ 49,022	$ 12.01	$ 22,162,504	$ 14.13	$ 26,091,445
P Large General	119	307,368,249	$ 74,919,062	$ 24.37	$ 24.37	$ 74,919,062	2,593,825	$ 632,228	$ 10.42	$ 32,030,195	$ 13.95	$ 42,888,867
I Independent Power Producer	3	479,714	$ 117,110	$ 24.41	$ 24.41	$ 117,110	191,886	$ 46,844	$ 11.49	$ 55,133	$ 12.92	$ 61,977
H Private St. Lights	529	403,056	$ 309,040	$ 76.67	$ 76.67	$ 309,040	762	$ 584	$ 62.65	$ 252,499	$ 14.03	$ 56,540
Sub-Total	49,798	1,069,622,525	$ 264,101,431	$ 24.69	$ 24.69	$ 264,101,431	21,479	$ 5,303	$ 10.60	$ 113,329,073	$ 14.10	$ 150,772,358
Government Service:												
S Small Non Demand	685	14,326,985	$ 4,157,890	$ 29.02	$ 29.02	$ 4,157,890	20,918	$ 6,071	$ 15.05	$ 2,156,006	$ 13.97	$ 2,001,884
K Small Demand	351	92,945,937	$ 25,540,259	$ 27.48	$ 27.48	$ 25,540,259	264,615	$ 72,712	$ 13.51	$ 12,553,263	$ 13.97	$ 12,986,996
L Large	47	74,650,307	$ 19,852,611	$ 26.59	$ 26.59	$ 19,852,611	1,591,126	$ 423,146	$ 12.79	$ 9,544,414	$ 13.81	$ 10,308,197
F Street Lighting (Agencies)	489	9,046,218	$ 5,557,483	$ 61.43	$ 61.43	$ 5,557,483	18,484	$ 11,355	$ 47.34	$ 4,282,666	$ 14.09	$ 1,274,816
Sub-Total	1,573	190,969,447	$ 55,108,243	$ 28.86	$ 28.86	$ 55,108,243	121,443	$ 35,045	$ 14.94	$ 28,536,350	$ 13.91	$ 26,571,893
	51,371	1,260,591,972	$ 319,209,674	$ 25.32	$ 25.32	$ 319,209,674	24,539	$ 40,348	$ 11.25	$ 141,865,423	$ 14.07	$ 177,344,252
U.S. Navy	1	306,460,172	$ 59,119,199	$ 19.29	$ 19.29	$ 59,119,199			$ 6.25	$ 19,138,937	$ 13.05	$ 39,980,262
TOTAL	51,372	1,567,052,144	$ 378,328,873	$ 24.14	$ 24.14	$ 378,328,873	30,504	$ 7,365	$ 10.27	$ 161,004,359	$ 13.87	$ 217,324,513

GPA-318 **ENERGY ACCOUNT** **FOR INTERNAL USE ONLY**

318Sep18 **FY 2018 Versus FY 2017**

	September 2018		September 2017		Y T D 2018		Y T D 2017		MOVING TWELVE MONTHS	
Gross Generation										
Number of days in Period	**30**		**30**		**365**		**273**		**365**	
Peak demand	**240**		**254**		**254**		**257**		**261**	
Date	**09/18/18**		**09/19/17**		**10/30/17**		**06/13/17**		**08/01/17**	
	KWH	**% change**	**KWH**	**% change**	**KWH**	**% change**	**KWH**	**% change**	**KWH**	**% change**
Energy Account:										
Kilowatt hours GPA:										
Cabras 1 & 2	39,547,000		43,379,000		651,235,000		694,993,000		651,235,000	
Cabras No. 3	0		0		0		0		0	
Cabras No. 4	0		0		0		0		0	
MEC (ENRON) Piti 8 (IPP)	27,038,800		28,279,500		318,373,900		319,633,700		318,373,900	
MEC (ENRON) Piti 9 (IPP)	25,348,200		27,521,700		323,835,900		308,062,300		323,835,900	
TEMES Piti 7 (IPP)	8,794,652		9,342,829		40,313,497		46,981,369		40,313,497	
Tanguisson 2	0		0		0		0		0	
Tanguisson 1	0		0		0		0		0	
Diesels/CT's & Others:							0			
MDI 10MW	314,391		0		1,300,258		2,257,627		1,300,258	
NRG Solar Dandan	3,343,655		3,971,229		46,301,346		43,190,802		46,301,346	
Dededo CT #1	4,290,780		2,801,170		11,806,070		7,123,300		11,806,070	
Dededo CT #2	4,817,040		1,214,370		12,226,470		5,832,592		12,226,470	
Macheche CT	2,912,826		7,734,370		48,354,741		55,567,556		48,354,741	
Yigo CT (Leased)	6,487,000		6,967,293		48,913,165		41,375,947		48,913,165	
Tenjo	2,514,900		5,274,540		41,498,130		45,457,480		41,498,130	
Talofofo 10 MW	0		1,703,310		13,311,900		18,771,390		13,311,900	
Aggreko	4,880,536		6,609,790		160,728,090		173,446,539		160,728,090	
Wind Turbine*	337		6,766		312,305		387,195		312,305	
Orote	0		0		0		0		0	
Marbo	0		0		0		0		0	
	130,290,117		**144,805,867**		**1,718,510,772**		**1,763,080,796**		**1,718,510,772**	
Ratio to last year		89.98		102.62		97.47		**102.45**		**97.47**
Station use	4,705,562		5,200,512		62,715,940		65,894,996		62,715,940	
Ratio to Gross generation		3.61		3.59		3.65		3.74		**3.65**
Net send out	125,584,555		139,605,354		1,655,794,831		1,697,185,800		1,655,794,831	
Ratio to last year		89.96		102.24		97.56		**102.49**		**97.56**
KWH deliveries:										
Sales to Navy (@34.5kv)	**23,161,867**		**26,906,320**		**306,460,172**		**318,585,903**		**306,460,172**	
Ratio to last year		86.08		103.48		96.19		**100.97**		**96.19**
GPA-metered	**102,422,688**		**112,699,034**		**1,349,334,659**		**1,378,599,897**		**1,349,334,659**	
Ratio to last year		90.88		101.95		97.88		**102.85**		**97.88**
Power factor adj.	0		0		0		0		0	
Adjusted	102,422,688		112,699,034		1,349,334,659		1,378,599,897		1,349,334,659	
GPA KWH Accountability:										
Sales to civilian customers-										
accrual basis	**95,772,942**		**106,086,591**		**1,260,591,970**		**1,291,507,112**		**1,260,591,970**	
Ratio to last year		90.28		102.07		97.61		**102.81**		**97.61**
GPA use-KWH	289,813		252,156		3,887,569		3,144,238		3,887,569	
Unaccounted For	6,359,933		6,360,287		84,855,120		83,948,548		84,855,120	
Ratio to deliveries		6.21		5.64		6.29		6.09		6.29
Ratio to Gross Generation		4.88		4.39		4.94		4.76		4.94
Ratio to Net Send Out		5.06		4.56		5.12		4.95		5.12

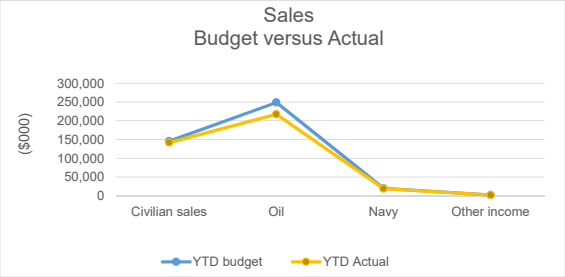
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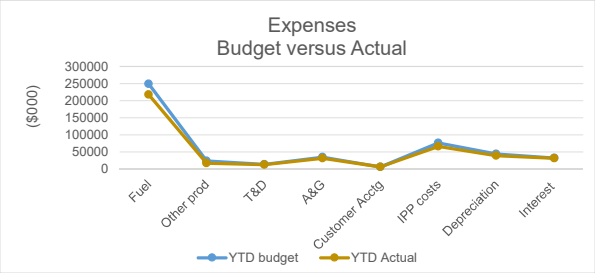
Guam Power Authority
Fuel Consumption
FY 2018

Description	September 2018 BARRELS	September 2018 AMOUNT	YEAR-TO-DATE BARRELS	YEAR-TO-DATE AMOUNT	MOVING 12 MONTHS BARREL S	MOVING 12 MONTHS AMOUNT
FUEL FURNISHED:						
NAVY:						
Diesel	0	0	0	0	0	0
Low Sulfur	0	0	0	0	0	0
	0	**0**	**0**	**0**	**0**	**0**
GPA:						
RFO	75,534	$5,490,419	1,557,446	$ 98,833,516	1,557,446	$ 98,833,516
Diesel	84,118	$7,894,144	776,249	$ 69,227,184	776,249	$ 69,227,184
Low Sulfur	60,966	$4,605,670	392,638	$ 25,306,636	392,638	$ 25,306,636
Deferred Fuel Costs	0	-$1,057,461	0	$ 8,380,506	0	$ 8,380,506
Fuel Adjustments	0	-$4,673		$ (235,674)	0	$ (235,674)
Fuel Handling Costs	0	$1,462,191	0	$ 15,812,350	0	$ 15,812,350
	220,618	**$18,390,290**	**2,726,333**	**$ 217,324,518**	**2,726,333**	**$ 217,324,518**
IWPS:						
GPA RFO	75,534	$5,490,419	1,557,446	$ 98,833,516	1,557,446	$ 98,833,516
Diesel	84,118	$7,894,144	776,249	$ 69,227,184	776,249	$ 69,227,184
Low Sulfur	60,966	$4,605,670	392,638	$ 25,306,636	392,638	$ 25,306,636
Deferred Fuel Costs	0	-$1,057,461	0	$ 8,380,506	0	$ 8,380,506
Fuel Variance	0	-$4,673	0	$ (235,674)		$ (235,674)
Fuel Handling Costs	0	$1,462,191	0	$ 15,812,350	0	$ 15,812,350
	220,618	**$18,390,290**	**2,726,333**	**$ 217,324,518**	**2,726,333**	**$ 217,324,518**
AVERAGE COST/Bbl.						
GPA RFO		**$72.69**		**$63.46**		**$63.46**
Diesel		**$93.85**		**$89.18**		**$89.18**
Low Sulfur		**$75.54**		**$64.45**		**$64.45**
AS BURNED						
Cabras 1 & 2						
RFO	36,769	$ 2,685,122	855,489	$ 54,217,966	855,489	$ 54,217,966
Low Sulfur	30,604	$ 2,324,339	233,580	$ 15,077,705	233,580	$ 15,077,705
Diesel	276	$ 27,800	2,342	$ 195,642	2,342	$ 195,642
	67,649	$ 5,037,261	1,091,411	$ 69,491,314	1,091,411	$ 69,491,314
Cabras 3 & 4						
RFO	0	$ -	0	$ -	0	$ -
Low Sulfur	0	$ -	0	$ -	0	$ -
Diesel	0	$ -	0	$ -	0	$ -
	0	$ -	0	$ -	0	$ -
MEC (Piti Units 8&9)						
RFO	38,766	$ 2,805,296	701,957	$ 44,615,550	701,957	$ 44,615,550
Low Sulfur	30,362	$ 2,281,331	159,058	$ 10,228,931	159,058	$ 10,228,931
Diesel	6	$ 408	67	$ 4,192	67	$ 4,192
	69,134	$ 5,087,035	861,082	$ 54,848,672	861,082	$ 54,848,672
Diesel & CT's - GPA:						
MDI Dsl	599	$ 44,456	2,160	$ 153,222	2,160	$ 153,222
Macheche CT	6,239	$ 590,478	103,760	$ 9,026,871	103,760	$ 9,026,871
Yigo CT	13,583	$ 1,303,153	102,598	$ 9,237,003	102,598	$ 9,237,003
Talofofo 10 MW	0	$ -	22,451	$ 1,982,147	22,451	$ 1,982,147
Aggreko	8,938	$ 859,941	295,809	$ 26,193,615	295,809	$ 26,193,615
Tenjo	4,502	$ 451,898	71,203	$ 6,516,969	71,203	$ 6,516,969
TEMES (IPP)	22,859	$ 2,145,194	103,539	$ 9,350,457	103,539	$ 9,350,457
GWA Generators	693	$ 81,480	1,683	$ 197,832	1,683	$ 197,832
	83,836	$ 7,865,936	773,840	$ 69,027,350	773,840	$ 69,027,350
Deferred Fuel Costs	0	$ (1,057,461)		$ 8,380,506		$ 8,380,506
Adjustment		$ (4,673)		$ (235,674)		$ (235,674)
Fuel Handling Costs	0	$ 1,462,191		$ 15,812,350		$ 15,812,350
TOTAL	**220,618**	**$ 18,390,290**	**2,726,333**	**$ 217,324,518**	**2,726,333**	**$ 217,324,518**

Statement of operations
Comparison-Budget versus Actual
For the month and year to date ended September 30, 2018

	Budget	Actual September-18	Variance	YTD Budget	YTD Actual	Variance
KwH Sales-Civilian	107,808	95,773	12,035	1,302,418	1,260,592	41,826
Non-fuel yield	$ 0.105576	$ 0.115680	$ (0.010104)	$ 0.105713	$ 0.112539	$ (0.006826)
KwH Sales-Navy	25,849	23,162	2,687	316,231	306,460	9,771
Non-fuel yield	$ 0.061774	$ 0.070028	$ (0.008255)	$ 0.061774	$ 0.062449	$ (0.000675)
Operating revenue						
Civilian sales	12,054	11,079	975	145,529	141,866	3,663
Oil	20,534	18,396	2,138	248,677	217,324	31,353
Navy	1,597	1,622	-25	19,535	19,138	397
Other income	169	194	-25	2,030	2,217	-187
	34,354	31,291	3,063	415,771	380,545	35,226
Bad debts expense	87	-285	372	1,039	678	362
Total operating revenues	34,267	31,576	2,691	414,731	379,867	34,864
Operating expenses:						
Production fuel	20,534	18,390	2,144	248,677	217,325	31,352
O & M expenses:						
Other production	1,860	1,596	264	23,260	16,999	6,261
Transmission distribution	613	389	224	13,436	12,229	1,207
Administrative expense	3,627	2,515	1,112	34,315	30,928	3,387
Customer accounting	339	622	-283	4,746	5,560	-814
	6,439	5,122	1,317	75,757	65,716	10,041
IPP costs	1,383	1,414	-31	17,355	17,552	-197
Depreciation	3,635	3,229	406	43,619	38,550	5,069
	31,991	28,156	3,836	385,408	339,143	46,265
Operating income	2,276	3,421	-1,145	29,324	40,725	-11,401
Other revenue (expenses):						
Investment income	99	524	-426	1,184	3,260	-2,076
Interest expense	(2,654)	(2,500)	(154)	(31,857)	(31,621)	(236)
AFUDC	61	123	(62)	730	1,686	(956)
Losses due to typhoon	0	2,310	(2,310)	0	2,310	(2,310)
Bond issuance costs/Other expenses	135	(120)	254	1,615	(2,732)	4,347
Net income before capital contribution	(84)	3,759	(3,844)	996	13,629	(12,634)
Grants from the U.S. Government	-	-	-	-	116	(116)
Increase (decrease) in net assets	(84)	3,759	(3,844)	996	13,745	(12,750)





Guam Power Authority
Debt service coverage
September 30, 2018

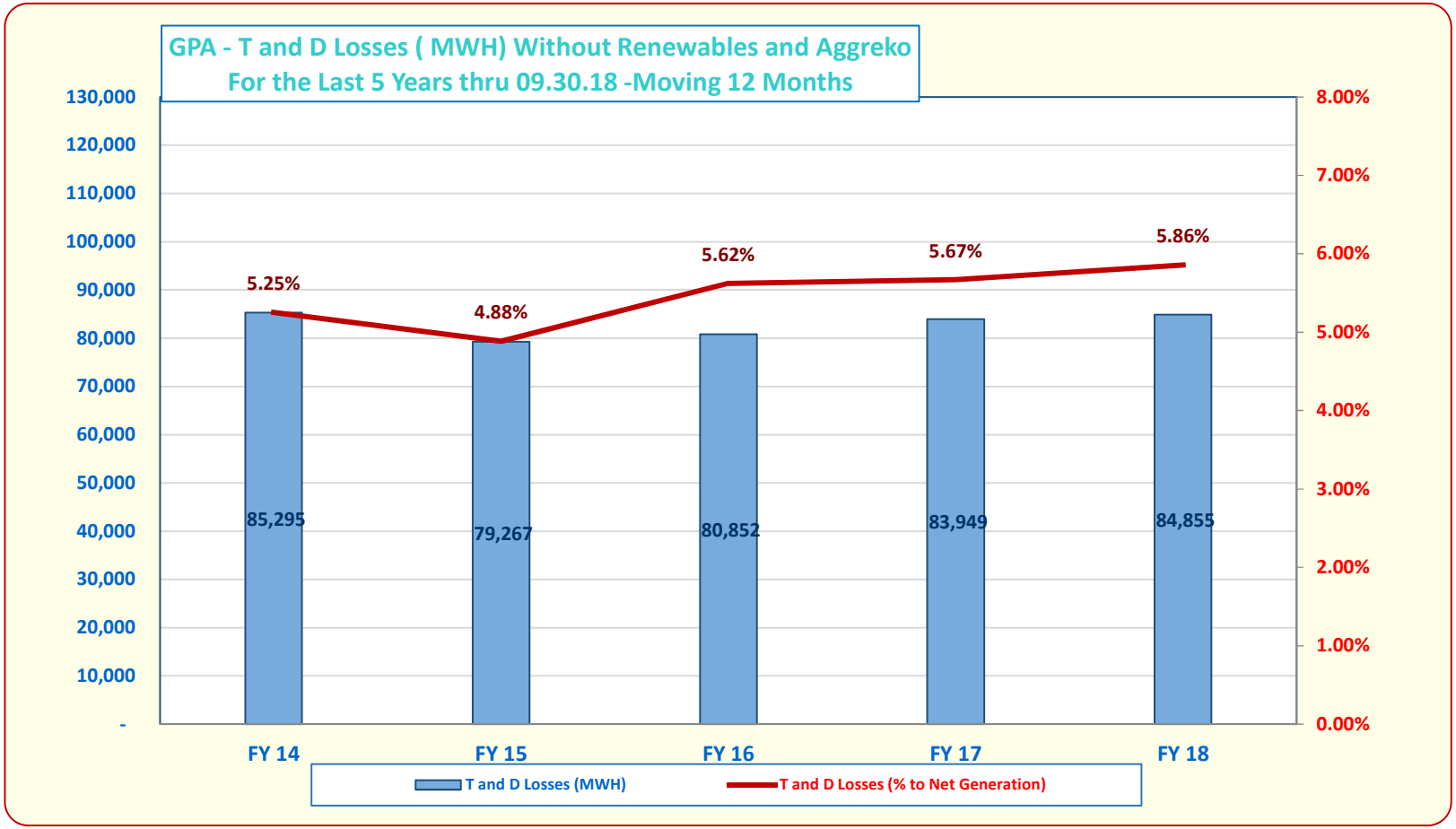
	2014	2015	Restated 2016	2017	YTD 2018
Funds Available for Debt Service					
Earnings from Operations	$40,895	$48,758	$37,981	$36,522	$40,725
Interest Income	$333	$368	$1,227	($32)	1,254
Depreciation Expense	36,989	41,766	44,240	44,292	38,550
Balance Available for Debt Service	$ 78,217	$ 90,892	$ 83,448	$ 80,782	$ 80,529
IPP - Capital Costs					
Principal	$13,064	$18,144	$14,819	$21,263	$23,210
Interest	10,020	8,478	5,970	5,137	3,159
Total IPP Payments	$ 23,084	$ 26,622	$ 20,789	$ 26,400	$ 26,369
Bond Debt Service					
Principal (1993 & 1999 Revenue Bond)	$ -	$ -	$ -	$ -	$ -
Interest (1993 & 1999 Revenue Bond)	-	-	-	-	-
Principal and Interest (2010 Subordinate Bond)	15,193	9,605	-	-	-
Principal and Interest (2010 Senior TE Bond)	7,999	7,999	7,999	7,999	2,000
Principal and Interest (2012 Senior TE Bond)	17,455	17,096	17,098	17,449	17,086
Principal and Interest (2014 Senior TE Bond)		-	10	5,084	5,083
Principal and Interest (2017 Senior TE Bond)					5,916
Total	$ 40,647	$ 34,700	$ 25,107	$ 30,532	$ 30,086
Debt Service Coverage (DSC) Calculation					
Existing DSC Methodology (Senior)	2.17 x	2.56 x	2.50 x	1.78 x	1.80 x
Existing DSC Methodology (Senior+Subordinate)	1.36 x	1.85 x	2.50 x	1.78 x	1.80 x
Bond Covenant DSC	1.92 x	2.62 x	3.32 x	2.65 x	2.68 x
Debt Service Coverage Requirements					
Existing Ratemaking DSC Target	1.75 x	1.75 x	1.75 x	1.75 x	1.75 x
Minimum Bond Covenant Requirement (Senior Bond)	1.30 x	1.30 x	1.30 x	1.30 x	1.30 x
Minimum Bond Covenant Requirement (Subordinate Bond)	1.20 x	1.20 x	1.20 x	1.20 x	1.20 x

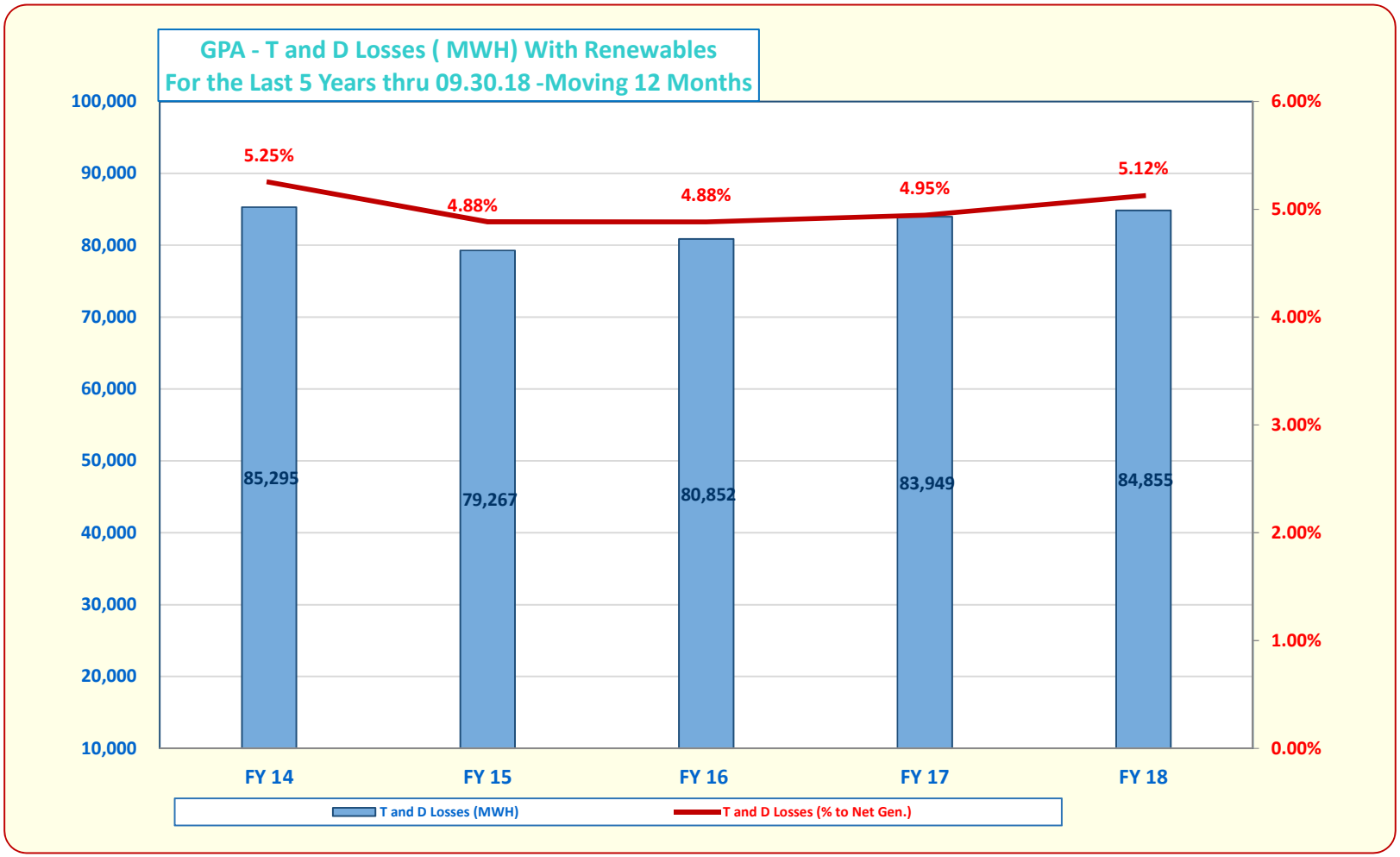
Notes:
(1) Source: Guam Power Authority, 2014 - 2017 Audited Financial Statements
(2) Interest income is net of interest earnings in the Construction Fund and the amortization of deferred credit.
(3) Existing DSC Methodology (Rating Agency Method):
(Operating Earnings + Depreciation Expense - IPP Principal & Interest Payments)/
(Senior and Subordinate Bond Principal & Interest Payments)
(4) Bond Covenant DSC Methodology: (Operating Earnings + Depreciation Expense)/
(Senior and Subordinate Bond Principal & Interest Payments)

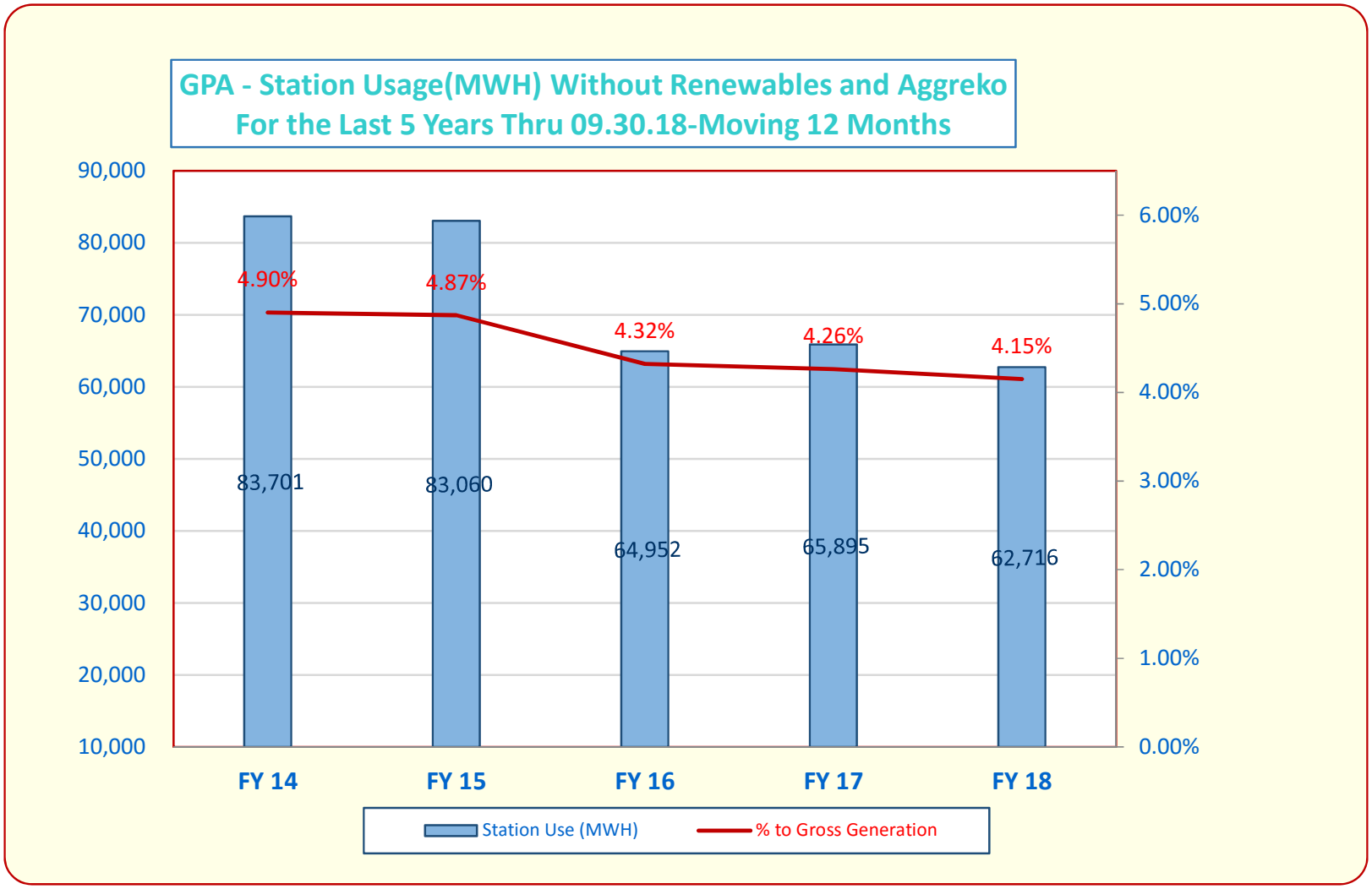
REVENUES-ACTUAL VS PROJECTIONS

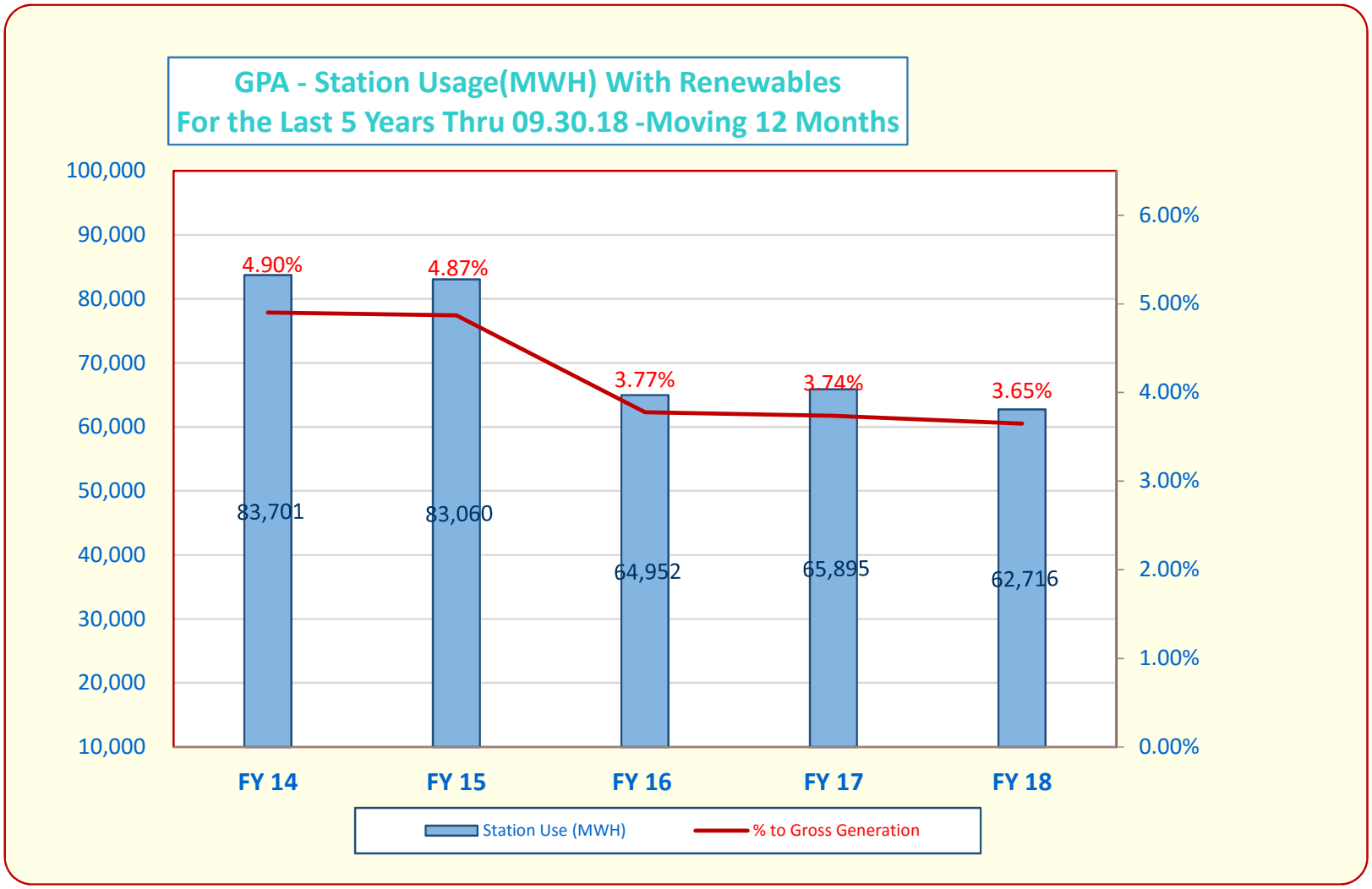
	MONTHLY - SEPTEMBER 2018				YTD THRU 09/30/2018			
	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE
KWH								
Residential	43,202,336	37,207,511	(5,994,825)	-13.88%	510,859,072	495,346,749	(15,512,324)	-3.04%
Small General-Non-Demand	7,458,330	6,128,698	(1,329,632)	-17.83%	86,962,881	81,419,604	(5,543,277)	-6.37%
Small General-Demand	14,650,413	14,018,162	(632,251)	-4.32%	189,414,540	184,605,153	(4,809,388)	-2.54%
Large	26,055,665	23,573,240	(2,482,425)	-9.53%	319,619,304	307,368,249	(12,251,055)	-3.83%
Independent Power Producers	32,593	29,708	(2,885)	-8.85%	399,810	479,714	79,904	19.99%
Private St. Lites	59,646	34,933	(24,713)	-41.43%	667,940	403,056	(264,884)	-39.66%
Sub-total	**91,458,983**	**80,992,253**	**(10,466,731)**	**-11.44%**	**1,107,923,548**	**1,069,622,525**	**(38,301,023)**	**-3.46%**
Government								
Small_Non Demand	1,180,221	1,089,787	(90,434)	-7.66%	13,607,608	14,326,985	719,376	5.29%
Small-Demand	8,219,521	7,082,161	(1,137,360)	-13.84%	97,588,979	92,945,937	(4,643,042)	-4.76%
Large	6,087,418	5,873,776	(213,642)	-3.51%	73,474,132	74,650,307	1,176,175	1.60%
Public St. Lites	862,162	734,966	(127,196)	-14.75%	9,824,053	9,046,218	(777,835)	-7.92%
Sub-total	**16,349,322**	**14,780,690**	**(1,568,633)**	**-9.59%**	**194,494,772**	**190,969,447**	**(3,525,325)**	**-1.81%**
Total-Civilian	**107,808,306**	**95,772,942**	**(12,035,363)**	**-11.16%**	**1,302,418,320**	**1,260,591,972**	**(41,826,348)**	**-3.21%**
USN	25,849,492	23,161,867	(2,687,625)	-10.40%	316,231,411	306,460,172	(9,771,238)	-3.09%
Grand Total	**133,657,798**	**118,934,809**	**(14,722,988)**	**-11.02%**	**1,618,649,731**	**1,567,052,144**	**(51,597,586)**	**-3.19%**
					-	-		
Non-Oil Yield								
Residential	0.096203	0.096674	0.000471	0.49%	0.096203	0.096264	0.000061	0.06%
Small General-Non-Demand	0.136364	0.138383	0.002018	1.48%	0.136364	0.136877	0.000512	0.38%
Small General-Demand	0.119423	0.123493	0.004070	3.41%	0.119423	0.120054	0.000630	0.53%
Large	0.103705	0.108133	0.004429	4.27%	0.103705	0.104208	0.000503	0.49%
Independent Power Producers	0.117983	0.133213	0.015230	0.00%	0.117983	0.114929	(0.003054)	0.00%
Private St. Lites	0.454278	0.601263	0.146985	32.36%	0.454278	0.626462	0.172184	37.90%
Sub-total	**0.105576**	**0.108039**	**0.002462**	**2.33%**	**0.105713**	**0.105952**	**0.000239**	**0.23%**
Government					-			
Small_Non Demand	0.152255	0.153821	0.001567	1.03%	0.152255	0.150486	(0.001769)	-1.16%
Small-Demand	0.135082	0.142909	0.007827	5.79%	0.135082	0.135060	(0.000022)	-0.02%
Large	0.128102	0.133653	0.005551	4.33%	0.128102	0.127855	(0.000247)	-0.19%
Public St. Lites	0.380746	0.495635	0.114889	30.17%	0.380746	0.473421	0.092674	24.34%
Sub-total	**0.146677**	**0.157575**	**0.010897**	**7.43%**	**0.146055**	**0.149429**	**0.003374**	**2.31%**
Total-Civilian	**0.111809**	**0.115683**	**0.003874**	**3.46%**	**0.111738**	**0.112539**	**0.000801**	**0.72%**
USN	0.061774	0.070049	0.008275	13.40%	0.061774	0.062452	0.000678	1.10%
Grand Total	**0.102132**	**0.106796**	**0.004664**	**4.57%**	**0.101976**	**0.102743**	**0.000767**	**0.75%**
Non-Oil Revenues								
Residential	4,156,211	3,597,014	(559,197)	-13.45%	49,146,374	47,684,300	(1,462,074)	-2.97%
Small General-Non-Demand	1,017,050	848,105	(168,945)	-16.61%	11,858,628	11,144,442	(714,186)	-6.02%
Small General-Demand	1,749,598	1,731,150	(18,448)	-1.05%	22,620,479	22,162,504	(457,975)	-2.02%
Large	2,702,093	2,549,051	(153,042)	-5.66%	33,146,003	32,030,195	(1,115,809)	-3.37%
Independent Power Producers	3,845	3,958	112	2.92%	47,171	55,133	7,962	16.88%
Private St. Lites	27,096	21,004	(6,092)	-22.48%	303,430	252,499	(50,931)	-16.79%
Sub-total	**9,655,894**	**8,750,282**	**(905,612)**	**-9.38%**	**117,122,086**	**113,329,073**	**(3,793,013)**	**-3.24%**
Government								
Small_Non Demand	179,694	167,632	(12,062)	-6.71%	2,071,820	2,156,006	84,186	4.06%
Small-Demand	1,110,308	1,012,105	(98,203)	-8.84%	13,182,494	12,553,263	(629,231)	-4.77%
Large	779,811	785,049	5,238	0.67%	9,412,186	9,544,414	132,228	1.40%
Public St. Lites	328,265	364,275	36,010	10.97%	3,740,471	4,282,666	542,195	14.50%
Sub-total	**2,398,077**	**2,329,061**	**(69,016)**	**-2.88%**	**28,406,972**	**28,536,350**	**129,378**	**0.46%**
Total-Civilian	**12,053,971**	**11,079,343**	**(974,628)**	**-8.09%**	**145,529,058**	**141,865,423**	**(3,663,635)**	**-2.52%**
USN	1,596,825	1,622,468	25,643	1.61%	19,534,867	19,138,937	(395,930)	-2.03%
Grand Total	**13,650,796**	**12,701,811**	**(948,985)**	**-6.95%**	**165,063,924**	**161,004,359**	**(4,059,565)**	**-2.46%**
% of Total Revenues	39.93%	40.84%			39.90%	42.56%		
Oil Revenues								
Residential	6,637,273	5,738,961	(898,312)	-13.53%	78,484,436	70,139,131	(8,345,306)	-10.63%
Small General-Non-Demand	1,145,840	945,303	(200,537)	-17.50%	13,360,304	11,534,398	(1,825,906)	-13.67%
Small General-Demand	2,250,776	2,161,438	(89,338)	-3.97%	29,100,185	26,091,445	(3,008,740)	-10.34%
Large	4,002,991	3,621,896	(381,095)	-9.52%	49,103,838	42,888,867	(6,214,971)	-12.66%
Independent Power Producers	5,007	4,435	(573)	-11.44%	61,424	61,977	554	0.90%
Private St. Lites	9,164	5,388	(3,775)	-41.20%	102,617	56,540	(46,077)	-44.90%
Sub-total	**14,051,051**	**12,477,421**	**(1,573,630)**	**-11.20%**	**170,212,804**	**150,772,358**	**(19,440,446)**	**-11.42%**
Government								
Small_Non Demand	181,320	168,091	(13,229)	-7.30%	2,090,568	2,001,884	(88,684)	-4.24%
Small-Demand	1,262,784	1,092,367	(170,417)	-13.50%	14,992,816	12,986,996	(2,005,820)	-13.38%
Large	935,224	895,481	(39,743)	-4.25%	11,287,997	10,308,197	(979,800)	-8.68%
Public St. Lites	132,456	113,363	(19,093)	-14.41%	1,509,292	1,274,816	(234,475)	-15.54%
Sub-total	**2,511,783**	**2,269,301**	**(242,482)**	**-9.65%**	**29,880,672**	**26,571,893**	**(3,308,779)**	**-11.07%**
Total-Civilian	**16,562,834**	**14,746,722**	**(1,816,112)**	**-10.96%**	**200,093,477**	**177,344,252**	**(22,749,225)**	**-11.37%**
USN	3,971,316	3,649,106	(322,210)	-8.11%	48,583,348	39,980,262	(8,603,086)	-17.71%
Grand Total	**20,534,150**	**18,395,828**	**(2,138,322)**	**-10.41%**	**248,676,825**	**217,324,513**	**(31,352,311)**	**-12.61%**
% of Total Revenues	60.07%	59.16%			60.10%	57.44%		
Grand Total								
Residential	10,793,484	9,335,975	(1,457,509)	-13.50%	127,630,811	117,823,431	(9,807,380)	-7.68%
Small General-Non-Demand	2,162,890	1,793,407	(369,482)	-17.08%	25,218,932	22,678,840	(2,540,092)	-10.07%
Small General-Demand	4,000,374	3,892,588	(107,786)	-2.69%	51,720,664	48,253,949	(3,466,715)	-6.70%
Large	6,705,084	6,170,948	(534,137)	-7.97%	82,249,841	74,919,062	(7,330,779)	-8.91%
Independent Power Producers	8,853	8,392	(461)	-5.20%	108,595	117,110	8,516	7.84%
Private St. Lites	36,259	26,392	(9,867)	-27.21%	406,048	309,040	(97,008)	-23.89%
Sub-total	**23,706,944**	**21,227,703**	**(2,479,242)**	**-10.46%**	**287,334,890**	**264,101,431**	**(23,233,459)**	**-8.09%**
Government					-			
Small_Non Demand	361,014	335,723	(25,291)	-7.01%	4,162,388	4,157,890	(4,498)	-0.11%
Small-Demand	2,373,091	2,104,471	(268,620)	-11.32%	28,175,310	25,540,259	(2,635,051)	-9.35%
Large	1,715,035	1,680,530	(34,504)	-2.01%	20,700,183	19,852,611	(847,573)	-4.09%
Public St. Lites	460,721	477,638	16,917	3.67%	5,249,763	5,557,483	307,720	5.86%
Sub-total	**4,909,861**	**4,598,362**	**(311,499)**	**-6.34%**	**58,287,644**	**55,108,243**	**(3,179,401)**	**-5.45%**
Total-Civilian	**28,616,805**	**25,826,065**	**(2,790,740)**	**-9.75%**	**345,622,534**	**319,209,674**	**(26,412,860)**	**-7.64%**
USN	5,568,141	5,271,574	(296,567)	-5.33%	68,118,215	59,119,199	(8,999,016)	-13.21%
Grand Total	**34,184,947**	**31,097,639**	**(3,087,307)**	**-9.03%**	**413,740,749**	**378,328,873**	**(35,411,876)**	**-8.56%**
	-	-	-					

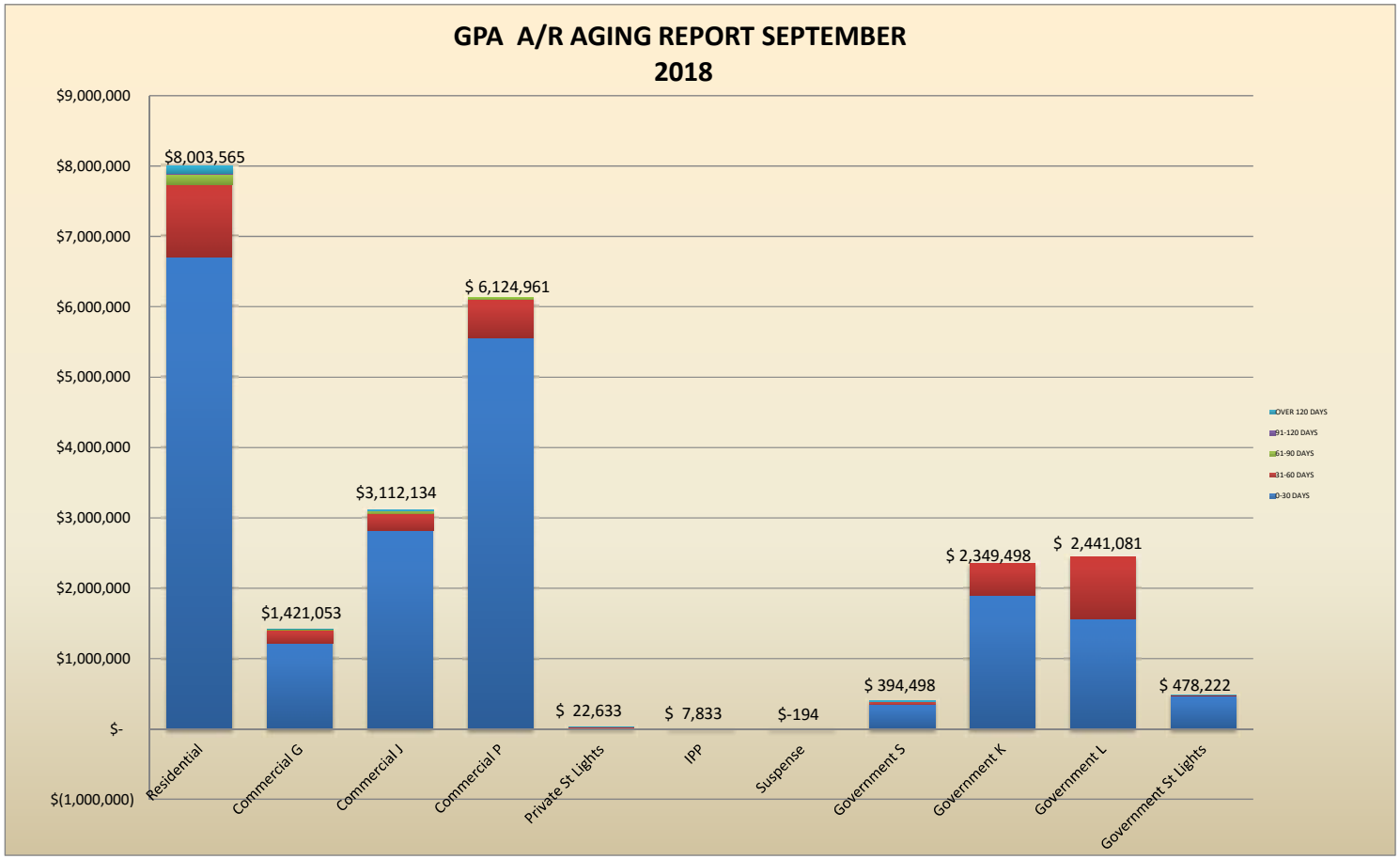
	YTD REVENUES - CURRENT YEAR VS PRIOR YEAR				MTD REVENUES - CURRENT YEAR VS PRIOR YEAR			
	ACTUALS - 12 MONTHS ENDED SEPTEMBER 30				ACTUALS - MONTH ENDED SEPTEMBER 30			
	2018	2017	VARIANCE	% VARIANCE	2018	2017	VARIANCE	% VARIANCE
KWH								
Residential	495,346,749	506,335,601	(10,988,852)	-2.17%	37,207,511	41,491,015	(4,283,504)	-10.32%
Small General-Non-Demand	81,419,604	83,899,700	(2,480,096)	-2.96%	6,128,698	7,022,092	(893,394)	-12.72%
Small General-Demand	184,605,153	190,050,925	(5,445,772)	-2.87%	14,018,162	15,509,408	(1,491,246)	-9.62%
Large	307,368,249	314,573,231	(7,204,982)	-2.29%	23,573,240	25,432,034	(1,858,794)	-7.31%
Independent Power Producers	479,714	1,003,769	(524,055)	-52.21%	29,708	76,532	(46,823)	-61.18%
Private St. Lites	403,056	450,462	(47,405)	-10.52%	34,933	34,586	347	1.00%
Sub-total	**1,069,622,525**	**1,096,313,688**	**(26,691,163)**	**-2.43%**	**80,992,253**	**89,565,666**	**(8,573,413)**	**-9.57%**
Government								
Small_Non Demand	14,326,985	13,902,246	424,739	3.06%	1,089,787	1,246,106	(156,319)	-12.54%
Small-Demand	92,945,937	96,878,602	(3,932,664)	-4.06%	7,082,161	8,084,368	(1,002,207)	-12.40%
Large	74,650,307	74,897,969	(247,662)	-0.33%	5,873,776	6,493,449	(619,673)	-9.54%
Public St. Lites	9,046,218	9,514,606	(468,388)	-4.92%	734,966	697,002	37,964	5.45%
Sub-total	**190,969,447**	**195,193,422**	**(4,223,975)**	**-2.16%**	**14,780,690**	**16,520,925**	**(1,740,235)**	**-10.53%**
Total-Civilian	**1,260,591,972**	**1,291,507,110**	**(30,915,138)**	**-2.39%**	**95,772,942**	**106,086,591**	**(10,313,648)**	**-9.72%**
USN	306,460,172	318,585,902	(12,125,729)	-3.81%	23,161,867	26,906,320	(3,744,453)	-13.92%
Grand Total	**1,567,052,144**	**1,610,093,012**	**(43,040,868)**	**-2.67%**	**118,934,809**	**132,992,911**	**(14,058,102)**	**-10.57%**
Non-Oil Yield								
Residential	0.096264	0.096242	0.000023	0.02%	0.096674	0.096481	0.000194	0.20%
Small General-Non-Demand	0.136877	0.136440	0.000437	0.32%	0.138383	0.136337	0.002046	1.50%
Small General-Demand	0.120054	0.119302	0.000751	0.63%	0.123493	0.120388	0.003105	2.58%
Large	0.104208	0.103044	0.001164	1.13%	0.108133	0.104766	0.003367	3.21%
Independent Power Producers	0.000000	0.111629	-0.111629	-100.00%	0.133213	0.109191	0.024022	22.00%
Private St. Lites	0.626462	0.581765	0.044697	7.68%	0.601263	0.615558	-0.014295	-2.32%
Sub-total	**0.105952**	**0.105481**	**0.000472**	**0.45%**	**0.108039**	**0.106309**	**0.001729**	**1.63%**
Government								
Small_Non Demand	0.150486	0.151371	-0.000885	-0.58%	0.153821	0.149578	0.004244	2.84%
Small-Demand	0.135060	0.134742	0.000318	0.24%	0.142909	0.135894	0.007015	5.16%
Large	0.127855	0.126110	0.001745	1.38%	0.133653	0.126242	0.007411	5.87%
Public St. Lites	0.473421	0.471113	0.002308	0.49%	0.495635	0.508978	-0.013343	-2.62%
Sub-total	**0.149429**	**0.149010**	**0.000418**	**0.28%**	**0.157575**	**0.148872**	**0.008702**	**5.85%**
Total-Civilian	**0.112539**	**0.112060**	**0.000479**	**0.43%**	**0.115683**	**0.112938**	**0.002746**	**2.43%**
USN	0.062452	0.062537	-0.000085	-0.14%	0.070049	0.070364	-0.000315	-0.45%
Grand Total	**0.102743**	**0.102261**	**0.000483**	**0.47%**	**0.106796**	**0.104325**	**0.002472**	**2.37%**
Non-Oil Revenues								
Residential	47,684,300	48,730,504	(1,046,204)	-2.15%	3,597,014	4,003,081	(406,067)	-10.14%
Small General-Non-Demand	11,144,442	11,447,234	(302,793)	-2.65%	848,105	957,371	(109,266)	-11.41%
Small General-Demand	22,162,504	22,673,489	(510,985)	-2.25%	1,731,150	1,867,150	(136,000)	-7.28%
Large	32,030,195	32,414,812	(384,617)	-1.19%	2,549,051	2,664,424	(115,372)	-4.33%
Independent Power Producers	55,133	112,050	(56,917)	-50.80%	3,958	8,357	(4,399)	-52.64%
Private St. Lites	252,499	262,063	(9,563)	-3.65%	21,004	21,289	(285)	-1.34%
Sub-total	**113,329,073**	**115,640,151**	**(2,311,078)**	**-2.00%**	**8,750,282**	**9,521,672**	**(771,390)**	**-8.10%**
Government								
Small_Non Demand	2,156,006	2,104,396	51,610	2.45%	167,632	186,389	(18,757)	-10.06%
Small-Demand	12,553,263	13,053,603	(500,340)	-3.83%	1,012,105	1,098,616	(86,512)	-7.87%
Large	9,544,414	9,445,414	99,000	1.05%	785,049	819,746	(34,697)	-4.23%
Public St. Lites	4,282,666	4,482,455	(199,788)	-4.46%	364,275	354,759	9,516	2.68%
Sub-total	**28,536,350**	**29,085,867**	**(549,518)**	**-1.89%**	**2,329,061**	**2,459,511**	**(130,450)**	**-5.30%**
Total-Civilian	**141,865,423**	**144,726,018**	**(2,860,595)**	**-1.98%**	**11,079,343**	**11,981,182**	**(901,840)**	**-7.53%**
USN	19,138,937	19,923,387	(784,451)	-3.94%	1,622,468	1,893,246	(270,777)	-14.30%
Grand Total	**161,004,359**	**164,649,406**	**(3,645,046)**	**-2.21%**	**12,701,811**	**13,874,428**	**(1,172,617)**	**-8.45%**
% of Total Revenues								
Oil Revenues								
Residential	70,139,131	51,871,474	18,267,657	35.22%	5,738,961	4,884,239	854,722	17.50%
Small General-Non-Demand	11,534,398	8,593,498	2,940,900	34.22%	945,303	826,627	118,676	14.36%
Small General-Demand	26,091,445	19,396,028	6,695,417	34.52%	2,161,438	1,825,123	336,316	18.43%
Large	42,888,867	31,763,248	11,125,618	35.03%	3,621,896	2,978,635	643,261	21.60%
Independent Power Producers	61,977	98,982	(37,004)	-37.38%	4,435	8,720	(4,285)	-49.14%
Private St. Lites	56,540	44,894	11,646	25.94%	5,388	4,071	1,317	32.34%
Sub-total	**150,772,358**	**111,768,124**	**39,004,235**	**34.90%**	**12,477,421**	**10,527,415**	**1,950,006**	**18.52%**
Government								
Small_Non Demand	2,001,884	1,408,613	593,271	42.12%	168,091	146,689	21,402	14.59%
Small-Demand	12,986,996	9,776,475	3,210,521	32.84%	1,092,367	951,676	140,691	14.78%
Large	10,308,197	7,533,951	2,774,246	36.82%	895,481	755,334	140,147	18.55%
Public St. Lites	1,274,816	956,241	318,575	33.32%	113,363	82,050	31,313	38.16%
Sub-total	**26,571,893**	**19,675,280**	**6,896,613**	**35.05%**	**2,269,301**	**1,935,748**	**333,553**	**17.23%**
Total-Civilian	**177,344,252**	**131,443,404**	**45,900,848**	**34.92%**	**14,746,722**	**12,463,163**	**2,283,559**	**18.32%**
USN	39,980,262	34,981,246	4,999,016	14.29%	3,649,106	3,432,137	216,969	6.32%
Grand Total	**217,324,513**	**166,424,650**	**50,899,863**	**30.58%**	**18,395,828**	**15,895,300**	**2,500,528**	**15.73%**
% of Total Revenues								
Grand Total								
Residential	117,823,431	100,601,977	17,221,454	17.12%	9,335,975	8,887,320	448,655	5.05%
Small General-Non-Demand	22,678,840	20,040,732	2,638,108	13.16%	1,793,407	1,783,997	9,410	0.53%
Small General-Demand	48,253,949	42,069,517	6,184,432	14.70%	3,892,588	3,692,273	200,316	5.43%
Large	74,919,062	64,178,060	10,741,002	16.74%	6,170,948	5,643,059	527,888	9.35%
Independent Power Producers	117,110	211,031	(93,921)	-44.51%	8,392	17,076	(8,684)	-50.86%
Private St. Lites	309,040	306,957	2,082	0.68%	26,392	25,361	1,031	4.07%
Sub-total	**264,101,431**	**227,408,274**	**36,693,157**	**16.14%**	**21,227,703**	**20,049,087**	**1,178,616**	**5.88%**
Government								
Small_Non Demand	4,157,890	3,513,008	644,881	18.36%	335,723	333,079	2,645	0.79%
Small-Demand	25,540,259	22,830,078	2,710,181	11.87%	2,104,471	2,050,292	54,179	2.64%
Large	19,852,611	16,979,365	2,873,246	16.92%	1,680,530	1,575,080	105,450	6.69%
Public St. Lites	5,557,483	5,438,696	118,787	2.18%	477,638	436,808	40,829	9.35%
Sub-total	**55,108,243**	**48,761,148**	**6,347,095**	**13.02%**	**4,598,362**	**4,395,259**	**203,103**	**4.62%**
Total-Civilian	**319,209,674**	**276,169,422**	**43,040,252**	**15.58%**	**25,826,065**	**24,444,346**	**1,381,719**	**5.65%**
USN	59,119,199	54,904,634	4,214,565	7.68%	5,271,574	5,325,383	(53,808)	-1.01%
Grand Total	**378,328,873**	**331,074,056**	**47,254,817**	**14.27%**	**31,097,639**	**29,769,728**	**1,327,911**	**4.46%**


GPA - T and D Losses (MWH) Without Renewables and Aggreko
For the Last 5 Years thru 09.30.18 -Moving 12 Months
130,000
120,000
110,000
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
-
8.00%
7.00%
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
5.25%
4.88%
5.62%
5.67%
5.86%
85,295
79,267
80,852
83,949
84,855
FY 14
FY 15
FY 16
FY 17
FY 18
T and D Losses (MWH)
T and D Losses (% to Net Generation)


GPA - T and D Losses (MWH) With Renewables
For the Last 5 Years thru 09.30.18 -Moving 12 Months
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
5.25%
4.88%
4.88%
4.95%
5.12%
85,295
79,267
80,852
83,949
84,855
FY 14
FY 15
FY 16
FY 17
FY 18
T and D Losses (MWH)
T and D Losses (% to Net Gen.)


GPA - Station Usage(MWH) Without Renewables and Aggreko
For the Last 5 Years Thru 09.30.18-Moving 12 Months
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.90%
4.87%
4.32%
4.26%
4.15%
83,701
83,060
64,952
65,895
62,716
FY 14
FY 15
FY 16
FY 17
FY 18
Station Use (MWH)
% to Gross Generation


GPA - Station Usage(MWH) With Renewables
For the Last 5 Years Thru 09.30.18 -Moving 12 Months
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.90%
4.87%
3.77%
3.74%
3.65%
83,701
83,060
64,952
65,895
62,716
FY 14
FY 15
FY 16
FY 17
FY 18
Station Use (MWH)
% to Gross Generation

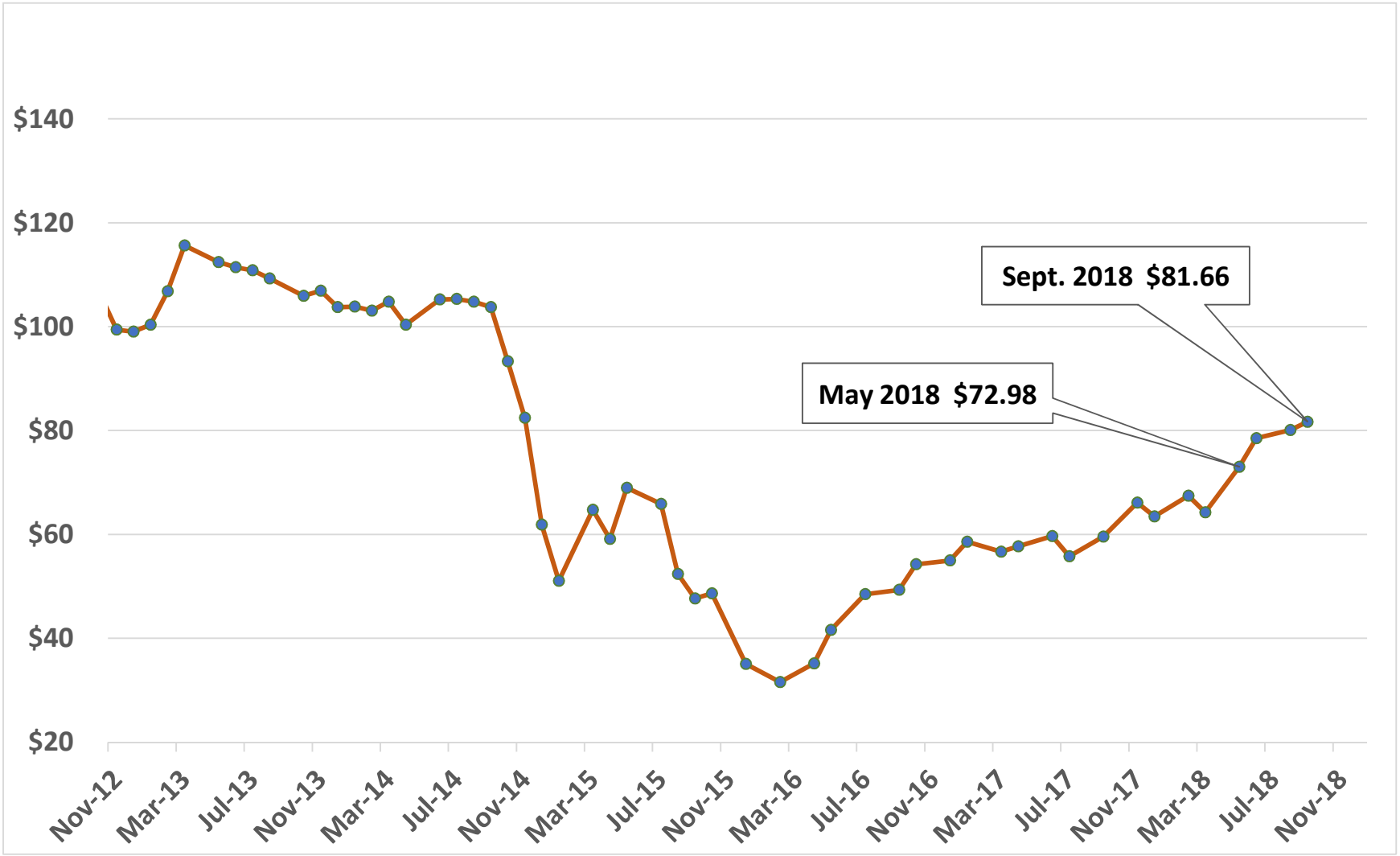

GPA A/R AGING REPORT SEPTEMBER 2018
$9,000,000
$8,000,000
$7,000,000
$6,000,000
$5,000,000
$4,000,000
$3,000,000
$2,000,000
$1,000,000
$-
$(1,000,000)
$8,003,565
$1,421,053
$3,112,134
$ 6,124,961
$ 22,633
$ 7,833
$-194
$ 394,498
$ 2,349,498
$ 2,441,081
$ 478,222
Residential
Commercial G
Commercial J
Commercial P
Private St Lights
IPP
Suspense
Government S
Government K
Government L
Government St Lights
OVER 120 DAYS
91-120 DAYS
61-90 DAYS
31-60 DAYS
0-30 DAYS

GUAM POWER AUTHORITY
GOVERNMENT ACCOUNTS RECEIVABLE
BILLING UP TO 10/31/2018 and Payment Applied as of 11/16/2018

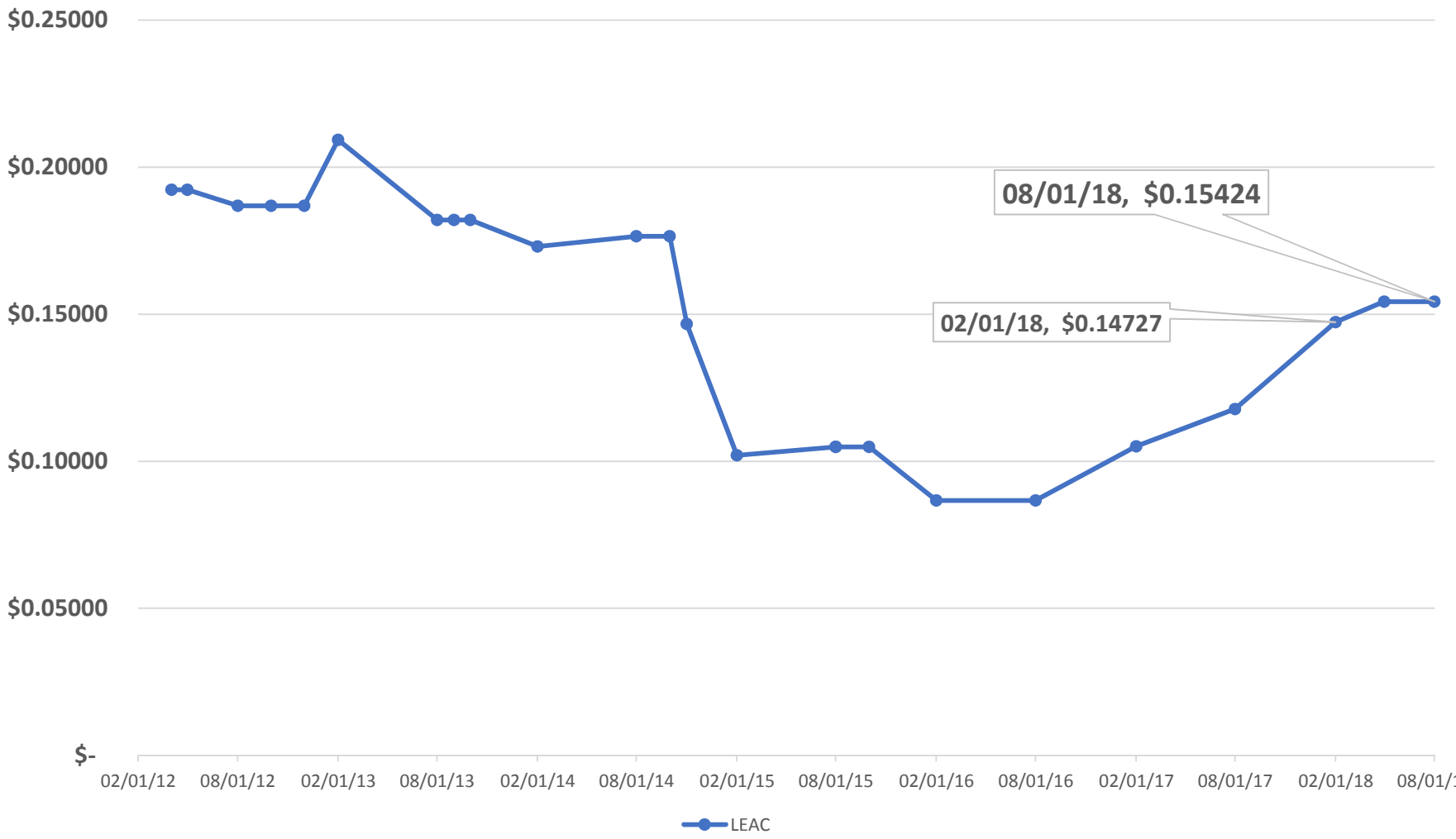
Current (10/18 Billing due 11/30/18
30 days Arrears (09/18 due 10/15/18)
60 days and over Arrears (08/18 billing due 09/15/18)

CC&B ACCT NUMBER	DEPARTMENT	BALANCE 9/30/2018	CANCEL/REBILL/ SPEC CHARGE 10/31/2018	BILLING 10/31/2018	PAYMENT 11/16/2018	BALANCE 11/16/2018	
	Line Agencies						
0237100000	Dept. of Corrections	65,932.58		$ 86,333.39	$ (65,932.58)	86,333.39	
0437100000	Dept. of Parks & Rec.	21,092.02	$ -	$ 23,937.16	$ (21,092.02)	23,937.16	
0537100000	Guam Fire Department	13,623.30		$ 16,044.64	$ (13,623.30)	16,044.64	
6995000000	DOA Supply Mgmt (NET METERED)	1,230.38		$ 1,390.11	$ (1,230.38)	1,390.11	
7895000000	Dept. of Administration	4,703.25		$ 5,027.74	$ (4,703.25)	5,027.74	
1337100000	Nieves Flores Library	7,752.77		$ 14,411.36	$ (7,752.77)	14,411.36	
2206200000	General Services Agency	259.84		$ 267.48	$ (259.84)	267.48	
2237100000	DOA-Data Processing	7,589.44		$ 9,440.23	$ (7,589.44)	9,440.23	
2337100000	Dept. of PH&SS	56,928.00		$ 68,534.40	$ (56,928.00)	68,534.40	
3237100000	Dept. of Education	2,078,939.06	$ 47,007.27	$ 1,212,190.85	$ (1,087,839.01)	2,250,298.17	2
3337100000	Guam Police Department	42,871.12	$ -	$ 55,023.90	$ (42,871.12)	55,023.90	
3569100000	Dept of Youth Affairs (Federal)	738.98	$ -	$ 998.42	$ (738.98)	998.42	
4437100000	Dept. of Youth Affair* (Local)	8,392.76	$ -	$ 11,941.65	$ (8,392.76)	11,941.65	
4737100000	Guam Environmental Protect	5,988.03		$ 7,498.85	$ (5,988.03)	7,498.85	
5437100000	Mental Health/Subst.	37,548.48		$ 45,094.15	$ (37,548.48)	45,094.15	
7200300000	Veteran Affairs	810.66		$ 913.87	$ (810.66)	913.87	
7437100000	Civil Defense (Military Affairs)	11,520.80	$ 86.41	$ 13,575.66	$ -	25,182.87	1
7463300000	Pacific Energy Resource Center	644.77		$ 797.22	$ (644.77)	797.22	
8137100000	Dept. of Agriculture	4,416.63		$ 10,914.37	$ (4,416.63)	10,914.37	
8337100000	DPW-FAC Adm Account	23,384.07		$ 28,365.05	$ (23,384.07)	28,365.05	
8437100000	Guam Visitors Bureau	3,888.32		$ 4,597.95	$ (8,486.27)	-	
8446300000	Yona Senior Citizen Center	784.03		$ 880.75	$ (784.03)	880.75	
9437100000	Dept of Chamorro Affairs/Chamorro Village	3,579.34	$ (63.28)	$ 4,399.80	$ (3,579.34)	4,336.52	
5247210000	Mayors Council	1,541.33		$ 2,378.55	$ (1,541.33)	2,378.55	
6293410000	Office of the Governor	21,596.42		$ 26,630.76	$ (21,596.42)	26,630.76	
8555858369	Dept of Chamorro Affairs (Guam Museum)	18,810.73		$ 23,923.90	$ (18,810.73)	23,923.90	
	Sub Total	**2,444,567.11**	**47,030.40**	**1,675,512.21**	**(1,446,544.21)**	**2,720,565.51**	
	MAYORS						
0637100000	Santa Rita Mayor	2,833.51	$ 315.11	$ 4,026.01	$ (2,833.51)	4,341.12	
0737100000	Ordot/Chalan Pago Mayor	928.20		$ 943.27	$ (928.20)	943.27	
1537100000	Hagatna Mayor	1,170.36		$ 1,562.39	$ (1,170.36)	1,562.39	
1637100000	Piti Mayor	929.43		$ 1,035.15	$ (929.43)	1,035.15	
1737100000	Mongmong/Toto/Maite Mayor	1,231.79	$ (37.33)	$ 1,478.18	$ (1,231.79)	1,440.85	
2637100000	Asan/Maina/Adelup Mayor	667.95		$ 869.73	$ (667.95)	869.73	
2737100000	Sinajana Mayor	3,683.38		$ 4,772.18	$ (3,683.38)	4,772.18	
3637100000	Dededo Mayor	6,749.44		$ 7,504.89	$ (6,749.44)	7,504.89	
4637100000	Yigo Mayor	2,954.63		$ 4,173.63	$ (2,954.63)	4,173.63	
5637100000	Umatac Mayor	1,032.21		$ 1,270.22	$ (1,032.21)	1,270.22	
6537100000	Agana Hts. Mayor	4,197.42		$ 4,532.31	$ (4,197.42)	4,532.31	
6637100000	Merizo Mayor	829.68		$ 1,154.35	$ (829.68)	1,154.35	
6737100000	Barrigada Mayors Office	1,559.53		$ 2,650.99	$ (1,559.53)	2,650.99	
7537100000	Agat Mayor	2,071.35		$ 2,504.81	$ (2,071.35)	2,504.81	
7637100000	Inarajan Mayor	1,436.98		$ 2,546.30	$ (1,436.98)	2,546.30	
8537100000	Tamuning Mayor	4,698.98		$ 6,336.08	$ (4,698.98)	6,336.08	
8637100000	Talofofo Mayor	2,248.03	$ (955.76)	$ 3,108.83	$ (2,248.03)	2,153.07	
9537100000	Mangilao Mayor	4,117.29		$ 4,714.95	$ (4,117.29)	4,714.95	
9637100000	Yona Mayor	758.27	$ (27.81)	$ 909.74	$ (758.27)	881.93	
	Sub Total	**44,098.43**	**(705.79)**	**56,094.01**	**(44,098.43)**	**55,388.22**	
	DPW ACCOUNTS						
4337100000	DPW-Village St. Lights	371,782.73		$ 374,161.38	$ (371,782.73)	374,161.38	
5337100000	DPW- Primary St. Lights	84,350.98		$ 89,015.28	$ (84,958.50)	88,407.76	
6337100000	DPW-Sec/Coll St. Lights	25,608.31		$ 26,496.56	$ (25,608.31)	26,496.56	
7337100000	DPW-Signal Lights	9,665.24		$ 11,151.16	$ (9,665.24)	11,151.16	
	Sub Total	**491,407.26**	**-**	**500,824.38**	**(492,014.78)**	**500,216.86**	
	(B) AUTONOMOUS/PUBLIC CORP						
1437100000	Retirement Fund	5,287.31	$ 39.66	$ 6,674.86	$ -	12,001.83	1
1915500000	Guam Housing Corp Rental Division	1,999.79	$ 105.95	$ 2,699.68	$ (1,406.65)	3,398.77	1
2437100000	University of Guam	167,415.13		$ 207,541.54	$ (167,415.13)	207,541.54	
4237100000	Guam Airport Authority	492,298.17		$ 530,205.68	$ (492,298.17)	530,205.68	
5357510000	University of Guam (NET METERED)	67,976.35		$ 84,020.34	$ (67,976.35)	84,020.34	
6237100000	G H U R A	10,839.23	$ 181.91	$ 26,400.62	$ (22,926.04)	14,495.72	
6437100000	Guam Community College	46,808.24		$ 56,578.32	$ (46,808.24)	56,578.32	
7237100000	Guam Memorial Hospital	30,017.53		$ 40,676.88	$ (30,017.53)	40,676.88	
8426836906	Guam Memorial Hospital (NET METERED)	281,641.96		$ 163,791.42	$ (281,641.96)	163,791.42	
9137100000	Port Authority of Guam	86,748.07		$ 101,268.84	$ (86,748.07)	101,268.84	
9157510000	Guam Community College (NET METERED)	34,843.39		$ 40,206.36	$ (34,843.39)	40,206.36	
9173210000	Guam Solid Waste Authority	5,938.65		$ 7,443.80	$ (5,938.65)	7,443.80	
9337100000	Guam Waterworks Authority	1,137,558.14	$ 11,944.44	$ 1,411,006.05	$ (1,137,732.29)	1,422,776.34	
	Sub Total	**2,369,371.96**	**12,271.96**	**2,678,514.39**	**(2,375,752.47)**	**2,684,405.84**	
	(C) OTHERS						
0337100000	Guam Legislature	$ 158.67		$ 385.51	$ (158.67)	$ 385.51	
9503154359	Guam Legislature (NET METER)	$ 5,787.17		$ 6,797.85	$ (5,787.17)	$ 6,797.85	
1237100000	Superior Court of Guam	$ 64,020.12		$ 79,683.18	$ (64,020.12)	$ 79,683.18	
2537100000	Agana (Guam) Post Office	$ 5,164.28		$ 6,953.12	$ (12,117.40)	$ -	
2570200000	Customs & Quarantine Agency	$ 896.40		$ 1,040.43	$ (896.40)	$ 1,040.43	
3537100000	U.S. Post Office	$ 36,203.96		$ 45,777.81	$ (36,203.96)	$ 45,777.81	
5537100000	Dept. of Military Affairs	$ 68,345.32	$ -	$ 80,307.19	$ (68,345.32)	$ 80,307.19	
3209463043	Dept. of Military Affairs	$ 15,958.58		$ 18,160.16	$ (15,958.58)	$ 18,160.16	
5737100000	KGTF	$ 5,972.97		$ 7,222.95	$ (5,972.97)	$ 7,222.95	
7281000000	Tamuning Post Office	$ 4,738.91		$ 5,685.00	$ (10,423.91)	$ -	
	Sub Total	**207,246.38**	**-**	**252,013.20**	**(219,884.50)**	**239,375.08**	
	GRAND TOTAL	**5,556,691.14**	**58,596.57**	**5,162,958.19**	**(4,578,294.39)**	**6,199,951.51**	

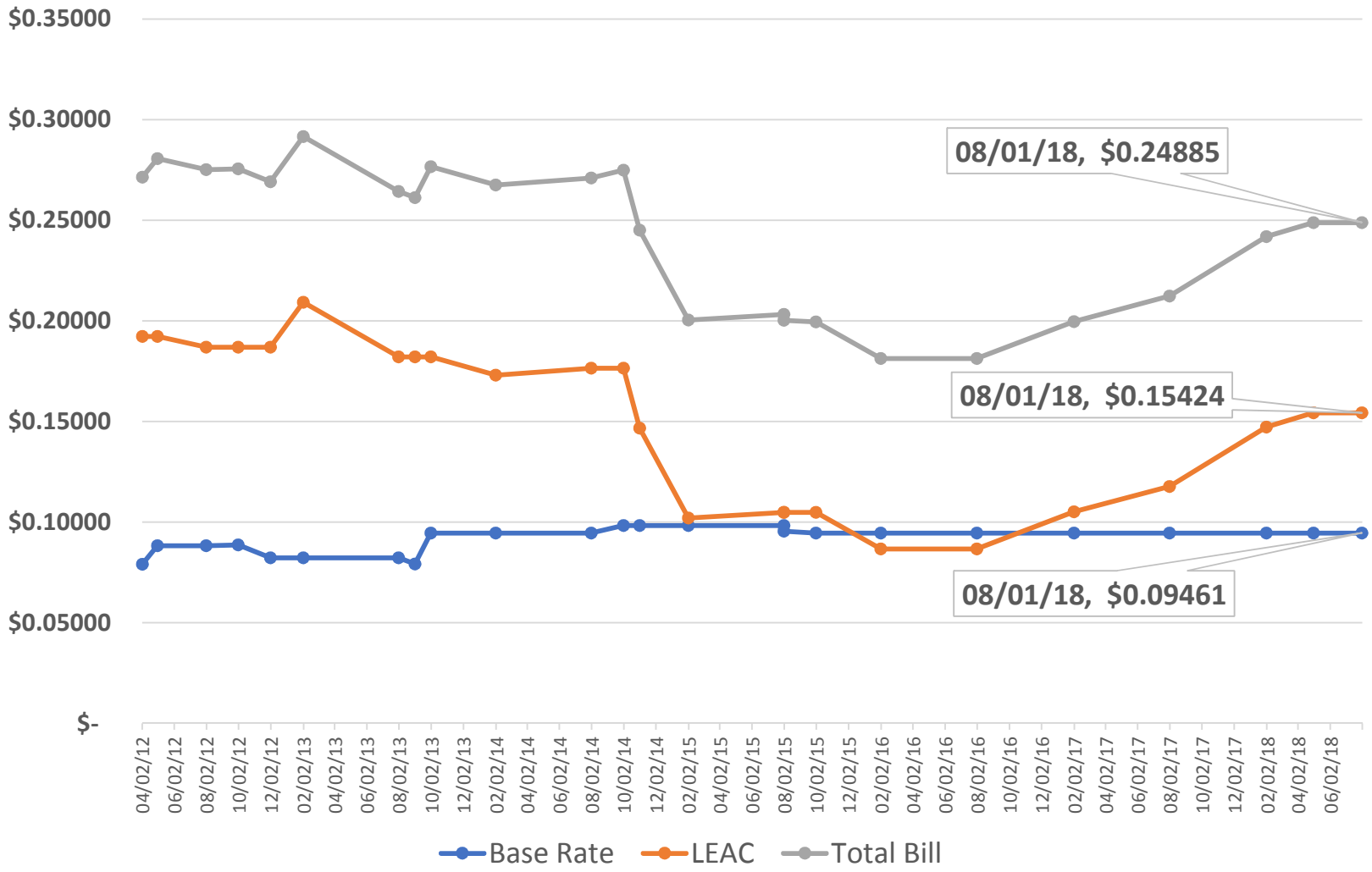
LEAC Update – GPA Fuel Purchases (Per Barrel)



Historical Residential LEAC Rate



Historical Residential Rate



Historical LEAC Over (Under) Recovery

LEAC Period From	To	Approved LEAC Rate	Actual Over (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	$ (13,684,055)	Estimate

a) Under-recovery Balance after applying the $4.6 million from the Cabras 3&4 Extra Expense claim

LEAC Update – Scenario Model Runs

	Proposed Effective 02/01/2019	Fuel Price at $65 per barrel		
		@ Zero Cost Recovery	@ 50% Recovery	@ Full Cost Recovery
1	Average Price per Bbl-RFO	$ 66.73	$ 66.73	$ 66.73
2	Average Price per Gal-Diesel	$ 83.03	$ 83.03	$ 83.03
3	Proposed LEAC Rate	**$ 0.154242**	**$ 0.158055**	**$ 0.161870**
4	Monthly Increase/(Decrease) - 1000 kWh	$ -	$ 3.81	$ 7.63
5	% Increase/(Decrease) in LEAC	0.00%	2.47%	4.95%
6	% Increase/(Decrease) in Total Bill	0.00%	1.53%	3.07%
7	Fuel Cost (Over) Under Recovery at the end of the period	**$5.0M**	**$2.5M**	$ -

LEAC Update – Billing Illustrations

	@ Zero Recovery		@ 50% Recovery		@ Full Recovery	
	Effective 2/1/19		Effective 2/1/19		Effective 2/1/19	
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	0.06955	$ 34.78	0.06955	$ 34.78	0.06955	$ 34.78
Over 500 KWH	0.08687	$ 43.44	0.08687	$ 43.44	0.08687	$ 43.44
Emergency Water-well charge	0.00279	$ 1.40	0.00279	$ 1.40	0.00279	$ 1.40
Insurance Charge		$ -		$ -		$ -
Working Capital Fund Surcharge		$ -		$ -		$ -
Roll-Back Credit		$ -		$ -		$ -
Total Electric Charge before Fuel Recovery Charges		$ 94.61		$ 94.61		$ 94.61
Fuel Recovery Charge	**0.154242**	154.24	**0.158055**	158.06	**0.16187**	161.87
Total Electric Charge		$248.85		$252.66		$256.48
Increase (Decrease) in Total Bill		$0.00		$3.81		$7.63
% Increase (Decrease) in Total Bill		**0.00%**		**1.53%**		**3.07%**
% Increase (Decrease) in LEAC		**0.00%**		**2.47%**		**4.95%**
Cents/kWh		**$ 0.2488**		**$ 0.2527**		**$ 0.2565**

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

Issues for Decision

Resolution No. ***2018-27***

Relative to LEAC

What is the project's objective? 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 deadline for the next filing is December 15, 2018. For the LEAC period covered of August 1, 2018 through January 31, 2019, GPA requested to maintain the LEAC rate of $0.154242/kWh that was approved for meters read on or after May 1, 2018. in anticipation of rising prices in the fuel market and to recover at least 70% of the under recovery at the end of the period. Since the application of the current rate beginning May 1, 2018, GPA was able to reduce the under-recovery balance of $12.2M as of April 30, 2018 to $8.3M by September 30, 2018; below the previously projected under-recovery balance of $8.8 million for that same date.

The average market price of fuel in the initial filing for the current period was approved at $77.13/bbl for the (6) six-month period ending January 31, 2018, the current projection for the remaining three months of this LEAC period is $69.30/bbl and the projected price of fuel for the period ending July 31, 2019 is $65.04/bbl. ***Although GPA will file the required LEAC schedules, it has determined that it will not petition for a change in the LEAC factor for secondary voltage service customers as well as alternative voltage customer for the period of February 1, 2019 to July 31, 2019.***

How much will it cost?
The LEAC rate to **remain at $0.154242/kWh** effective for the period from February 1, 2019 thru July 31, 2019.

Based on this status quo approach, an under-recovery of about **$5.0M** is anticipated by the end of the LEAC period on July 31, 2019 which will have some impact on the working capital and other financial ratios however GPA will be able to manage in a short-term period.

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

RESOLUTION NO.: 2018 - 27

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, 2018; and

WHEREAS, for the LEAC period covered of August 1, 2018 through January 31, 2019, GPA requested to maintain the LEAC rate of $0.154242/kWh that was approved for meters read on or after May 1, 2018. in anticipation of rising prices in the fuel market and to recover at least 70% of the under recovery at the end of the period; and

WHEREAS, since the application of the current rate beginning May 1, 2018, GPA was able to reduce the under-recovery balance of $12.2M as of April 30, 2018 to $8.3M by September 30, 2018; below the previously projected under-recovery balance of $8.8 million for that same date; and

WHEREAS, the average market price of fuel in the initial filing for the current period was approved at $77.13/bbl for the (6) six-month period ending January 31, 2018, the current projection for the remaining three months of this LEAC period is $69.30/bbl and the projected price of fuel for the period ending July 31, 2019 is $65.04/bbl; and

WHEREAS, although GPA will file the required LEAC schedules, it has determined that it will not petition for a change in the LEAC factor for secondary voltage service customers as well as alternative voltage customer for the period of February 1, 2019 to July 31, 2019; and

WHEREAS, based on this status quo approach, an under-recovery of about $5.0M is anticipated by the end of the LEAC period on July 31, 2019 which will have some impact on the working capital and other financial ratios however GPA will be able to manage in a short term 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 LEAC rate to remain at $0.154242/kWh effective for the period from February 1, 2019 thru July 31, 2019. (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 27th DAY OF NOVEMBER 2018

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**J. GEORGE BAMBA**
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

I**, J. George Bamba**, 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: _____

ISSUES FOR DECISION

CREATION OF POSITION

EQUIPMENT OPERATOR SUPERINTENDENT

Summary

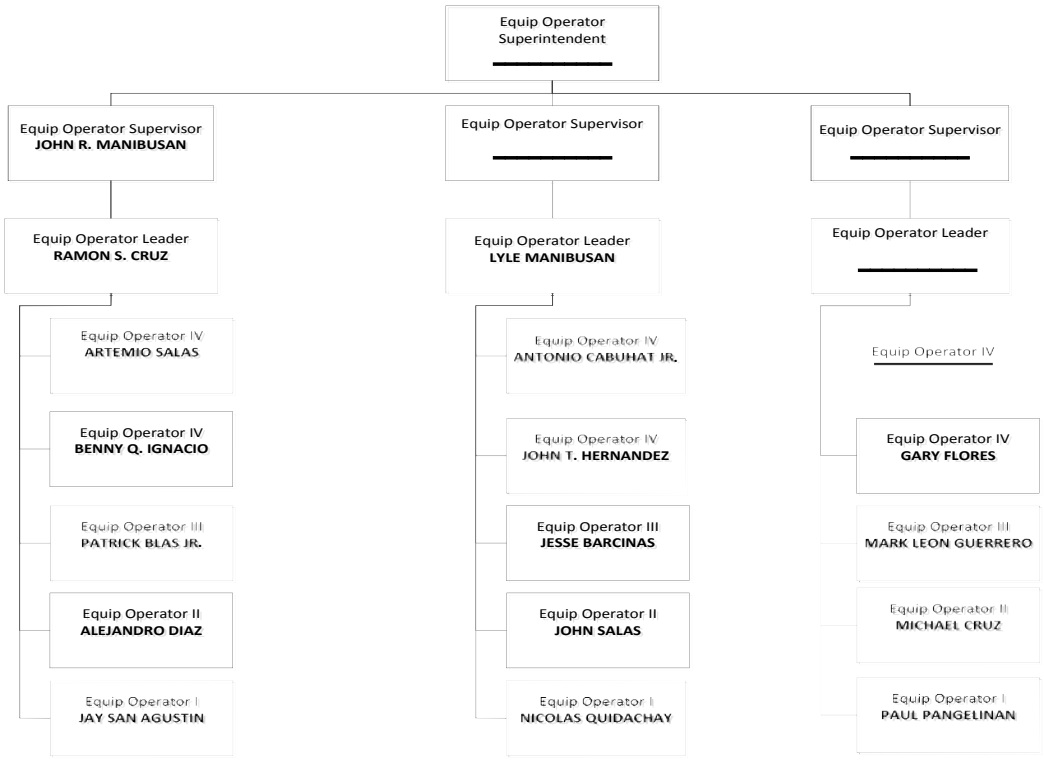
- Oversee the day-to-day operations of the Equipment Operator section to support all facets of installation and maintenance work within the Transmission and Distribution Division
- Plan and coordinate all equipment operations work such as new installations, relocations, and removals in construction and maintenance related projects in the Overhead, Underground, and Substation sections.
- Coordinate efforts with other divisions within the Authority and outside agencies such as the Guam Waterworks Authority and the Department of Public Works
- Oversee and manage the Vegetation Management Program such as scheduling of brush cutting maintenance, tractor mowing and tree trimming
    - Minimize outsourcing

Organizational Chart

Revised: 11/15/2018

T&D
Equipment Operators Section

PROPOSED



HEAVY EQUIPMENT

Backhoe = 2
Crane 25 tons = 1
Crane 40 tons = 1
Derrick = 1
Dump Truck = 3
Flatbed = 1
Gooseneck Trailer = 3
Pressure Digger = 3
Side Mower = 3
Backhoe Trailer = 2
Tractor = 2

Benchmark Position	JE	15th Market Percentile (2017 Market Data - 5 sub steps)									
		Structural Adjustment - MIN					Structural Adjustment - MAX				
		Base Salary	Hourly	Grade	Step	Sub Step	Base Salary	Hourly	Grade	Step	Sub Step
Equipment Operator I	397	29,358	14.11	E	3	B	30,550	14.69	E	4	B
Equipment Operator II	445	33,697	16.20	F	5	B	35,066	16.86	F	6	B
Equipment Operator III	511	38,296	18.41	G	7	A	39,851	19.16	G	8	A
Equipment Operator IV	546	42,160	20.27	H	7	B	43,872	21.09	H	8	B
Equipment Operator Leader I	644	47,691	22.93	I	7	C	49,628	23.86	I	8	C
Equipment Operator Leader II	661	51,330	24.68	J	6	C	53,414	25.68	J	7	C
Equipment Operator Supervisor	795	57,357	27.58	K	4	C	59,686	28.70	K	5	C
Equipment Operator Superintendent (Proposed)	927	71,080	34.17	M	2	A	73,966	35.56	M	3	A

TIMELINE	CREATION Equipment Operator Superintendent
10-Day Timeline Website posting:	11/13/18
GPA CCU Meeting:	11/27/18
Approval:	11/27/18
Job Announcement:	11/28/18
File with DOA:	11/28/18
File with Legislative Secretary:	11/28/18
Effective Date:	12/28/18

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

Issues for Decision

Resolution No. ***2018-28***

Creation of Equipment Operator Superintendent position

What is the project's objective?
Creation of the Equipment Operator Superintendent position is to oversee the day-to-day operations of the Equipment Operator section to support all facets of installation and maintenance work within the Transmission and Distribution Division.

Is it necessary and urgent?
The creation of the Equipment Operator Superintendent position is necessary and critical to the Guam Power Authority as it will be directly responsible for the planning and coordination of all equipment operations work such as new installations, relocations, and removals in construction and maintenance related to the Overhead, Underground, and Substation sections. Additionally, the superintendent position will be responsible for coordinating efforts with other divisions within the Authority and outside agencies such as the Guam Waterworks Authority and the Department of Public Works. This position will oversee and manage the Vegetation Management Program such as scheduling of brush cutting maintenance, tractor mowing and tree trimming. The impact to creating a superintendent position is to minimize the outsourcing of this type of work.

Where is the location?
The position is located within the Transmission and Distribution Division (T&D) and will report the Manager of T&D

How much will it cost?
At the 15th market percentile (2017 market data):
minimum = $70,080 per annum; maximum = $73,966 per annum

When will it be completed?
Upon approval, GPA will file all creation documents with the Director of Administration and the Legislative Secretary for a filing period of 30 days. The position will be ready for recruitment by December 28, 2018.

What is its funding source? O&M funding

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

GPA RESOLUTION NO. 2018-28

RELATIVE TO THE APPROVAL OF THE CREATION OF AN EQUIPMENT OPERATOR SUPERINTENDENT POSITION

WHEREAS, under 12 G.C.A. §8104, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual and policy matters relative to the Guam Power Authority; and

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

WHEREAS, the GPA General Manager requests the CCU to approve the creation of the Equipment Operator Superintendent position (Exhibit A); and

WHEREAS, the GPA General Manager requests the CCU to approve the classification standard of the Equipment Operator Superintendent position in the classified status; and

WHEREAS, Public Law 28-112 and 4 G.C.A. §6303(d) authorizes the creation in Autonomous Agencies and Public Corporations; and

WHEREAS, GPA Personnel Rules & Regulations as amended by Public Law 28-159 authorizes the CCU to amend, modify or add a position to the list of certified, technical and professional positions; and

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

1. The recitals set forth above hereby constitute the findings of the CCU.

2. The creation and the job classification standard for the Equipment Operator Superintendent position in the classified status is hereby approved and attached herein as Exhibit A.

3. The Equipment Operator Superintendent position is hereby added to the Certified, Technical and Professional list of positions at GPA.

4. The authorization of the Equipment Operator Superintendent position shall become effective December 28, 2018.

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 27th DAY OF NOVEMBER 2018.

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS Chairman Consolidated Commission on Utilities	**J. GEORGE BAMBA** Secretary Consolidated Commission on Utilities

I, J. GEORGE BAMBA, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of 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: _____

GUAM POWER AUTHORITY
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MEDIA NOTICE

The Guam Power Authority petitions the Consolidated Commission on Utilities (CCU) the following:

CREATION OF POSITION: (Classified)
Equipment Operator Superintendent

This petition is in compliance with 4 GCA, Chapter 6, §6303 (d) (added by Public Law 28-112). The petition is also required by 4 GCA. §6205 and §6303 as public documents for the purposes of 5 GCA, Chapter 10, Art. 1 (Sunshine Law).

For more information, please visit the Guam Power Authority's website at www.guampowerauthority.com/gpa_authority/careers/gpa_petitions.php or you may contact the Human Resources Division at 648-3130.

John M. Benavente, P.E.
General Manager

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

STAFF REPORT

I. REQUEST:

The General Manager of the Guam Power Authority petitions the Consolidated Commission on Utilities (CCU) to create the following positions in the classified service pursuant to Public Law 28-112:

- Equipment Operator Superintendent

II. AUTHORITY:

Public Law 28-159, Section 3(c) Amendment of Certified, Technical, and Professional Positions. Section 9, 4 GCA §6303 (d) states:

"Creation of positions in the Autonomous Agencies and Public Corporations.

(1) The petition of the head of an agency, department or public corporation listed in the first paragraph of 4 GCA §4105(a) of this Title to create a position shall include:

A. the justification for the new position;

Creation of the Equipment Operator Superintendent position is to oversee the day-to-day operations of the Equipment Operator section to support all facets of installation and maintenance work within the Transmission and Distribution Division. Within T&D, there are a combined (overhead & underground) total of 189 transmission lines, 1,638 distribution lines, 29 substations, and 67 distribution feeders. The Authority serves over 50,000 customers.

B. the essential details concerning the creation of the position; (see classification review below)

C. an analysis of the similarities and differences between the position to be created and positions listed pursuant to Title 4 GCA §4101.1.(d);

The Transmission and Distribution Division (T&D) is comprised of several sections: Administration, Overhead, Substation, Underground, Meter/Relay and Operators. The division is responsible for operation and maintenance of the Authority's overhead and underground power lines and associated hardware, substation equipment, energy/revenue meters and relay protective devices. The main functions of T&D are to provide new power installations, line extensions, work clearances, and miscellaneous power-related services to customers. Thus, the creation of the Equipment Operator Superintendent will be responsible to coordinate all efforts to support these functions. Further, this position is much needed towards the strategic goals of the Authority and fulfillment of its mission in support of our Island Wide Power System in order to continue its commitment towards operational efficiency and organizational effectiveness as we deliver reliable, quality service and affordability to our customers.

D. the position description; (see attached)

E. the proposed pay ranges and demonstration of compliance with §6301 of this Title;

The GPA's compensation plan was authorized by P.L. 28-159 and approved by the CCU in October 2007. The proposed compensation is in accordance with the Strategic Pay Plan Methodology.

F. a fiscal note as that term in described in 2 GCA §9101 et seq.; and any other pertinent information.

The Guam Power Authority is responsible for the funding availability for this position and is in compliance with all applicable laws, rules and regulations regarding the creation, filling and retention of positions in certified, technical and professional positions. The funding of this position has no financial impact to the General Fund.

(2) The petition shall be posted on the agency, department or public corporation's website for ten (10) days (Saturdays, Sundays and government of Guam holidays excepted). After the posting, the head shall forward the petition along with evidence of his compliance with 5 GCA §6303.1(a), to the governing board or commission who, if they approve the same, shall approve the petition by resolution and file the petition and resolution for records with the Director of Administration and the Legislative Secretary.

(3) No new position may be filled until after compliance with the provision of this section and thirty (30) days has elapsed from the date of filing with the Legislative Secretary."

III. METHODOLOGY:

Information was gathered from various public utilities associated with the American Public Power Association (APPA) and other utilities with comparable positions within the U.S. mainland. The information collected was used to analyze and develop the proposed job standards as they apply to the work performed at GPA. The staff reviewed the duties associated with the proposed creation as indicated in the position description form. In evaluating this position, the Strategic Pay Job Evaluation Methodology was utilized to determine the job evaluation points based on a total of twelve (12) measurement factors; Education, Experience, Complexity, Scope of Work, Problem Solving, Freedom to Act/Supervision Received, Work Environment, Physical Demands, Impact of Discretionary Decisions, Human Relations Skills/Contact, Authority Exercised, and Supervisory/Managerial Responsibility.

IV. SUMMARY/CLASSIFICATION REVIEW:

The creation of the Equipment Operator Superintendent position is necessary and critical to the Guam Power Authority as it will be directly responsible for the planning and coordination of all equipment operations work such as new installations, relocations, and removals in construction and maintenance related to the Overhead, Underground, and Substation sections. Additionally, the superintendent position will be responsible for coordinating efforts with other divisions within the Authority and outside agencies such as the Guam Waterworks Authority and the Department of Public Works. This position will oversee and manage the Vegetation Management Program such as scheduling of brush cutting maintenance, tractor mowing and tree trimming. The impact to creating a superintendent position is to minimize the outsourcing of this type of work.

Based on the proposed job standard for the Equipment Operator Superintendent position, the nature of work and minimum experience and training consist of:

This position is responsible for administering the programs and activities of the Equipment Operator section within the Transmission and Distribution Division. The proposed position requires:

1) Seven (7) years of experience in the operation, construction and maintenance of utility equipment within the transmission and distribution system; including four (4) years supervisory and skill in the complex operation of large and heavy equipment; or

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

V. RECOMMENDATION:

To approve the creation of the Equipment Operator Superintendent position in the classified service and add the position to list of the certified, technical and professionals (CTP) category of positions:

The proposed minimum and maximum range of compensation will be in accordance with the Strategic Pay Methodology, as follows:

2017 MARKET DATA (15th Market Percentile)	JE Points	Structural Adjustment MINIMUM			Structural Adjustment MAXIMUM		
		Base Salary	Grade	Step	Base Salary	Grade	Step
Equipment Operator Superintendent	927	71,080	M	2A	73,966	M	3A

Prepared by:

SANDRA D. PEREZ
Personnel Services Administrator

Concurred by:

BEATRICE P. LIMTIACO
Assistant GM, Administration

Approved by:

JOHN M. BENAVENTE, P.E.
General Manager

GUAM POWER AUTHORITY

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GUAM POWER AUTHORITY RECEIVED BY: TIME: 2:10 pm AUG 20 2018 am124-8.18 EXECUTIVE OFFICE POWER TO SERVE

August 16, 2018

MEMORANDUM

TO : General Manager

VIA : Assistant General Manager of Operations

FROM : Manager of Transmission & Distribution

SUBJECT : **Approval to Create a new T&D Section and Position**
RE: Equipment Operators Section and Equipment Operator Superintendent

We have analyzed the functions of our Equipment Operators (currently under our Overhead section) and have determined that their duties and responsibilities are not solely catered to Overhead. Below is a list of functions of our Equipment Operators:

Regular Functions:

- Install/relocate/remove power poles per specification listed on work order received from Engineering.
- Remove/install power poles per work order from Overhead supervisor.
- Change-out power poles damaged from auto collisions.
- Change-out power poles found to be unsafe to the community and public at large.
- Assist Overhead Crews and Troubleshooters with emergency change-outs of pole-mounted transformers.
- Obtained required work-clearances, prior to excavating and/or digging.

Additional Functions:

- Assist Underground with installation/relocation/removal power poles per specification listed on work order received from Engineering.
- Assist Underground with installation/relocation/removal of pad-mounted transformers.
- Assist Underground and Substation with oil spill clean-ups.
- Assist Substation with relocation of Mobil Substation.
- Assist Substation with transport of large equipment (i.e. power station transformers, breakers, radiator fins, etc.) from Substation Warehouse to designated work site.
- Assist Generation with installations/removals of large equipment (i.e. motors, pumps, generators, etc.)
- Assist Facilities with installations/removals of AC equipment.
- Assist Transportation with mechanical repairs that require rigging and/or lifting (i.e. bucket truck booms, etc.).
- Assist Guam Waterworks with deep-well pump repairs.
- Assist Department of Public Works with heavy equipment requirements.

In addition, with our purchased tractor mowers and dump trucks, Equipment Operators have been tasked to do the following:

- Mow areas below our power lines.
- Debris removal after completion of their tree trimming work done by Line Crews.

Through our analysis, we have concluded that it would beneficial to our operations if the Equipment Operators were separated from Overhead and placed into their own section within T&D, as well as have its own Superintendent to oversee the day-to-day operations.

For your review, we prepared the CSC Position Description, Organizational Chart and Functional Chart. Should these meet with your approval, we request that Human Resources proceed with completing the process to include an Equipment Operator Superintendent position into the Authority's Staffing List and proceed with the job announcement accordingly.

Your support in this matter is appreciated. Should you wish to discuss this matter, I am available at your convenience.

Anselmo M. Manibusan, Jr.

/attachments
xc: File

[Y] Approved
[ ] Disapproved

John M. Benavente, P.E., General Manager — **Date** 8/21/18

TRICOE, Graham,
Please have HR undertake actions necessary to implement.
Thanks

Equipment Operator Superintendent (Proposed)

NATURE OF WORK IN THIS CLASS:

Administers the programs and activities of the Equipment Operator section within the Transmission and Distribution Division of the Guam Power Authority. This position plans and coordinates all work involved in new pole installations, construction and maintenance related to work in the Overhead, Underground and Substation sections. This position also oversees the Vegetation Management Program within the Authority.

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

Administers the programs and projects of the Equipment Operations section.

Plans and coordinates all equipment operations work (i.e. new installations, construction and maintenance) related to the Overhead, Substation and Underground sections of T&D and other divisions and departments as necessary.

Plans and coordinates all work orders and work clearances.

Manages the Vegetation Management Program.

Reviews, develops, and implements plans, policies and procedures to improve efficiency and effectiveness of the operator section; makes recommendations to T&D management.

Prepares, maintains and oversees O&M and CIP budget requests.

Performs other related duties as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of the standard principles, methods and techniques used in the operation of light, large and heavy equipment used the construction and maintenance activities within the Authority.

Knowledge of the hazards and safety practices in the operation of light, large and heavy equipment in the construction and maintenance of equipment operations.

Knowledge of the National Electric Code and National Safety Code.

Knowledge of heavy equipment operations, tractor with trailer, crane, auger, back-hoe, flatbeds, forklift, insulator washer, tractor mower, mulcher, chainsaw, etc.

Ability to plan, implement, and administer programs, projects and activities of the Equipment Operations section.

Ability to make decisions in accordance with laws, rules, regulations and protocols and to apply agency's policies.

Ability to apply and enforce safe work practices on the job.

Ability to evaluate operational effectiveness and recommend or implement changes in policies

EXHIBIT A

and procedures to improve effectiveness.

Ability to work effectively with the public and employees.

Ability to communicate effectively, orally or in writing.

Ability to maintain records and prepare reports.

Skill in the safe operation of light, large, and heavy equipment.

MINIMUM EXPERIENCE AND TRAINING:

1) Seven (7) years of experience in the operation, construction and maintenance of utility equipment within the transmission and distribution system; including four (4) years supervisory and skill in the complex operation of large and heavy equipment.

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

NECESSARY SPECIAL QUALIFICATION:

Possession of a valid chauffeur's license.

Established: November 27, 2018

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

EXHIBIT A

Revised: 05/97

Class Code _____

CIVIL SERVICE COMMISSION
POSITION DESCRIPTION QUESTIONNAIRE

I. IDENTIFICATION

Official Position Title: Equipment Operator Superintendent

Official Position No.: _____

Job

Location: Guam Power Authority (Department/Agency) Transmission & Distribution (Division) Equipment Operators (Section/Unit)

Name: _____
Last First Middle Initial

Pay Grade: _____ [X] Classified [ ] Unclassified [ ] Position Vacant

Supervisor: Enrique V. Quidachay (Name of Direct Supervisor) Assistant Manager of T&D (Title of Supervisor)

II. DESCRIPTION OF DUTIES

Duty NO. or % of Time	**ESSENTIAL FUNCTIONS:** Organize and list duties and responsibilities that **MUST** be performed. List duties in one of the formats below. (1) The daily work assignments, beginning with the first duty and ending with the last duty for the day. (2) Percentage of time and show % for each (total % equals 100%). (3) Order of importance, beginning with the most important. Mark (√ or X) one format only: [ ] (1), [X] (2), [ ] (3)
15%	Oversee the day to day operations of the Equipment Operators section. To include administrative work – reports, maintenance programs, timesheets, JDE/CMMS work-orders, emails, memorandums and employee recognition programs.
5%	Enforce the Authority's policies, regulations, rules and procedures, to include all Division SOPs, Safety rules, procedures and protocol, National Electrical Code and National Safety Code.
10%	Plan and coordinate all Equipment Operators work (i.e. new installations, construction and maintenance) related to Overhead, Substation and Underground. Inclusive of work scheduled and coordinated to assist Generation, Facilities, Transportation, Warehouse and other government agencies (i.e. Guam Waterworks Authority, Department of Public Works, etc.) When directed, prepare weekly, monthly or quarterly schedules for submission to Managers.
10%	Plan and coordinate all GPI work orders from Engineering. Obtain all required Work-Clearances (i.e. Docomo, GTA, Parks & Recreation, Historic Preservation Division) prior to start of work.
10%	Review schedule outages. Ensure attached documents are included; Manpower/Equipment/Material availability One-Line diagram, Clearance Request, Outage Announcement and OT Request form, when applicable. Ensure Supervisor receives Switching Orders from Chief Dispatcher. Ensure work is completed properly and within allotted schedule time.
10%	Manage Vegetation Management work (i.e. both contract and maintenance). Schedule bush-cutting maintenance, tractor mowing and tree trimming - inspect work completed. Oversee Contractors reports and invoices. Ensure debris are removed from work-sites on the same day – no more that 2-days.
5%	Review Trouble Reports related to vegetation received from PSCC. Compile and maintain a monthly report and submit to Managers, when requested. Analyze effect ways to minimize trouble reports related to vegetation and submit to Managers for review.
5%	Analyze and evaluate Equipment Operators policies and procedures to determine ways to improve efficiency and effectiveness; prepare recommendations for submittals to T&D Management for review and approval.
2%	Monitor tract subordinate leave balances (i.e. annual. Sick, and CT) and schedule excessive leave - to avoid shortage of man power. Instruct Supervisor(s) to take corrective action when necessary (i.e. excessive absenteeism, etc.).

2%	Track and maintain a file on subordinates' annual physicals, D.O.T. certifications, and Drivers Licenses, to ensure renewals are scheduled prior to expiration.
2%	Monitor and evaluate Supervisor(s) work performance. Conduct quarterly and annual evaluations – acknowledge good performance and discuss/guide where improvement is needed. Review all Equipment Operators quarterly and annual evaluations submitted by Supervisor(s). Assess for fairness and verify that ratings of a 1, 4 or 5 are appropriately justified.
2%	Ensure employees attend mandated training sessions coordinated by Safety and Human Resources (i.e. Accident & Injury, 10-Hour OSHA Safety Awareness, First-Aid/CPR, Drug Free Workplace Policy & Procedures, etc.)
2%	Coordinate training programs with Human Resources and Safety on the following equipment operations: crane, tractor with low-boy trailers, derrick, auger, back-hoe, mulcher, tractor mower, insulator washer, etc.).
2%	Coordinate Arborist Training and Certification programs with Human Resources. To allow employees to learn the appropriate way cut tree branches away from power lines and equipment – in an effort to effectively reduce unscheduled outages.
10%	Manage O&M and CIP approved fiscal year budgets. Maintain expenditures within a +/- 10% ratio of approved budget. Maintain a file of sections requisitions and purchase orders. Monitor and track expenses on all open purchases and contracts. Monitor and track expenses for each Object Code, to include budget transfers. Monitor and track subordinates overtime expenses. Provide Budget reports to Managers, when requested.
2%	Prepare O&M and CIP fiscal year Budget Requests. Justify budget requests per Object Codes. Ensure budget requests are in correlation with Division's KPIs and goals. Ensure Budget Requests are submitted on or before deadline set by the Managers.
2%	Conduct staff meetings. Review safety procedures, equipment and vehicle operations, relay information from Management, etc.
1%	Attend meetings when required (GM Briefing, AGMO Briefing, bid, safety, tailgate, etc.)
2%	Coordinate and perform community services for Government Agencies, Private Entities, and the General Public. Educational demonstrations and/or exhibitions, install/remove flags, Christmas festivals, field lights, court lights, etc.
1%	Other related duties deemed necessary to ensure productivity of the Equipment Operators section and the Division as a whole.
	NON-ESSENTIAL OR ADDITIONAL FUNCTIONS: List duties and responsibilities not listed above that may be performed, as assigned.
	Conduct interviews for new applicants seeking employment with the Authority. Inclusive of reviewing applications for qualifications, skills and experiences of applicant with designated Interview Panel Members.
	Perform other related duties (i.e. Liberation activities, Labor Day activities and etc.)

III. CONTACTS: Departments, agencies and individuals you deal with during the course of your daily activities.

A. Within your department / agency. Mark (X or √) one box:		
[ ] None	[ ] Up to 15% of total working hours	
	[ ] 15 – 50% of total working hours	[X] Over 50%
B. Outside your department / agency. Mark (X or √)		
[ ] None	[ ] Up to 15% of total working hours	
	[X] 15 – 50% of total working hours	[ ] Over 50%

IV. SUPERVISION RECEIVED: How closely is the employee's/jobholder's work reviewed by the direct supervisor? Mark (X or √) one correct response.

[ ]	Detailed and specific instructions / procedures received or followed for each assignment.
[ ]	General Supervision – Routine duties are performed with minimal supervision. Standard practices or procedures allow employee to function alone at routine work. Supervisor makes occasional check of work while in progress. Work is reviewed upon completion.
[ ]	Direction – Receives guidance about general objectives in most of the tasks and projects assigned; determines methods, work sequence, scheduling and how to achieve objectives of assignments; operates within policy guidelines. (Generally applicable to skilled professionals, supervisors and managers.)
[X]	General Direction – Receives very general guidance about overall objectives; work is usually quite independent of others; operates within division or department policy guidelines, using independent judgment in achieving assigned objectives. (Generally applicable to managers / administrators in large and complex organizations and to department / agency heads and their first assistants.)

V. SUPERVISION EXERCISED: The employee/jobholder supervises other employees. List the number of employees supervised, their position titles, and a brief description of their responsibilities.

Number Supervised	Position Title	Description of Responsibilities
1	Equipment Operator Supervisor	Supervise personnel performing work on Equipment Operators operations, enforce the Authority's policies, rules and regulations, generate JDE/CMMS work-orders, and etc.
2	Equipment Operator Leader II	Leads and performs skilled work in the installation, maintenance and repair of Equipment Operators operations.
4	Equipment Operator IV	Perform skilled work in the installation, maintenance and repair of Equipment Operators operations.
1	Equipment Operator III	Perform skilled work in the installation, maintenance and repair of Equipment Operators operations.

VI. EQUIPMENT: List the equipment (pickup truck, welder, crane, etc.), office machines (word processor, calculator, copying machine, etc.), or any other machines, tools or devices that are used on a regular and continuing basis. Show what percentage of the regular workday is spent using each.

TOOLS / EQUIPMENT	PERCENT (%) OF TIME FOR EACH
Pick-Up Truck or SUV Vehicle	25%
Desk Top Computer, Laptop Computer, Copier, Facsimile and Calculator.	35%
ShoreTel 510 Phone and VHS Radio	25%
Personnel Protective Equipment	5%
Equipment (tractor with trailer, crane, auger, derrick, back-hoe, flatbed, forklift, etc.)	5%
Other Equipment (insulator washer, tractor mower, mulcher, chainsaws, etc.)	5%

VII. JOB REQUIREMENTS

[ ] Mark (√ or X) here if jobholder is unable to complete this section. The direct supervisor will then complete this section for the jobholder.

A. MINIMUM QUALIFICATION REQUIREMENTS: List the minimum experience and training a qualified applicant must have before employment.

1. WORK EXPERIENCE: List the general, specialized and/or supervisory / management work experience needed and how much (in months and/or years). If none, mark (√ or X) "No work experience required."	
[ ] No work experience is required.	
General:	6 years
Experience in the operation of equipment, including four years in the skill operation of larger and heavy equipment.	
Specialized:	
Supervisor / Management:	4 years
Four (4) years in a supervisory or an administrative Capacity or any equivalent combination	
of experience, training and education which Provides the minimum knowledge, abilities and	
skills.	
If no work experience is required, list the knowledge, abilities and skills a qualified applicant needs before employment to perform the essential job functions.	

2. FORMAL EDUCATION OR TRAINING:
Mark (√ or X) the **most** applicable education level required.

a. [ ] Below High School – Show Number of Years
b. [**X**] High School Graduation / GED
c. [ ] Vocational / Technical School

Show specific training that is required by this position.

_____

_____

_____

d. [ ] Some College

Show number of [ ] Semester Hours _____ or [ ] Quarter Hours _____.

Show specific courses required by the essential functions of this job.

_____

_____

_____

e. College Degree (Show major area of study required.)

[ ] Associate's : _____

[ ] Bachelor's: _____

[ ] Master's: _____

[ ] Beyond Masters: _____

3. **CRITICAL SKILLS / EXPERTISE:** List specialized skills or specialization needed to perform essential functions.

4. **LICENSE, REGISTRATION OR CERTIFICATION:** List possession of required license, professional registration/certification needed to perform essential functions.
Valid Guam Driver's License (Type ABC)
DOT Certification

B. MENTAL / VISUAL, PHYSICAL, AND ENVIRONMENTAL JOB REQUIREMENTS:

1. Mark (√ or X) the most appropriate physical requirement(s) for the job.

[ ]	Sitting	The job requires the employee to sit in a comfortable position most of the time. The employee can move about.
[ ]	Sitting	Employee is required to sit for extended periods or time without being able to leave the work area.
[X]	Sitting/Standing/Walking	The employee is required to sit, stand, walk most of the time.
[X]	Climbing	Employee is required to climb ladders or scaffolding or to climb and work in overhead areas.
[X]	Lifting	Employee is required to raise or lower objects from one level to another regularly.
[X]	Pulling and/or Pushing	The job requires exerting force up to _1 - 5_ pounds on a regular basis to move the object to or away from the employee.
[X]	Carrying	The employee is required, on a regular basis, to carry objects in his or her arms or on the shoulder(s).
[X]	Reaching	The employee is regularly required to use the hands and arms to reach for objects.
[X]	Stooping and Crouching	The employee is regularly required to bend forward by bending at the waist or by bending legs and spine.
[X]	Crawling	Employee is required to work in a confined space and/or to crawl and move about on his or her hands and knees.
[X]	Speaking	The job requires expressing ideas by the spoken word.
[X]	Listening	The job requires the perception of speech or the nature of sounds in the air.
[X]	Other	Describe the requirement. Employee may be required to shovel gravel or dirt out of holes dug. In preparation for pole installations or removal. Or to fill holes (due to pole removal) for the safety of public at large.

2. Mark (√ or X) the most appropriate mental / visual requirement for the job.

[ ]	General Intelligence (typical requirement for machine operators, office staff, etc.)
[ ]	Motor Coordination Skills (typical for automotive mechanic, painter, etc.)
[X]	Coordination of Eyes, Hands, and Feet (typical for tractor trailer driver, fire fighter, line electrician, etc.)
[ ]	Verbal Intelligence (typical for counselors, customer service representatives, etc.)
[ ]	Numerical Intelligence (typical for an accounting clerk, cargo checker, etc.)

[ ] Other:

_____

_____

_____

3. The job's most appropriate work environment and the weather exposure.

Show what percent of a typical workday is spent.
(Select one response only)

50 % Indoors in a comfortable temperature-controlled environment (for instance, in an office).

5 % Indoors in a non-temperature-controlled environment (such as an open garage, storerooms and warehouses, etc.)

15 % Outdoors exposed to changing weather conditions (for instance, rain, sun, wind, etc.)

30 % Outdoors but in an enclosed vehicle protected from extreme weather conditions.

4. Other physical working conditions

[ ] Mark (X or √) if none of the following is applicable.

Show what percent of a typical workday this position is exposed to:

25 % Air contamination (i.e., dust, fumes, smoke, toxic conditions, disagreeable odors).

5 % Vibration (i.e., operating jackhammer, impact wrench).

5 % Noise (Exposure at a level enough to cause bearing loss or fatigue).

5 % An improperly illuminated or awkward and confining work space.

5 % Working above ground level where the chance of falling exists (i.e., on ladders, rooftops, bucket trucks, scaffolding).

10 % Lifting or carrying items or objects. Describe item/object and weight:

chainsaws, shovels, slings, tackle blocks

_____

25 % Heat. Describe source and degree of high temperature.

outdoor exposure

_____

10 % Cold. Describe source and degree of cold temperature:

inclement weather

_____

10 % Other hazards. Describe:

environmental hazardous (i.e. oil clean ups).

_____

5. Describe the working conditions that are irregular or unusual for the job and show frequency of exposure.

[ ] Mark (X or √) if not applicable.

CONDITION	FREQUENCY OF EXPOSURE
High winds, heavy rain and/or lightning.	During stormy weather.

C. Work Schedule/Hours – Mark (√ or X) the most appropriate work schedule/hours for the job.

[ ] Regular – Standard Eight (8) hours daily, Monday – Friday
[ ] Irregular – Shift work – A 24-hour work operation.
[X] Regular / Irregular – Overtime hours with overtime pay entitlement

State Purpose and Total Hours required per pay period:

Emergency call-out by Manager or PSCC Dispatcher (4-8hrs), IWPS restoration (6-12hrs) or scheduled maintenance work (4-hrs).

[ ] Regular / Irregular – Overtime hours without overtime pay entitlement

State Purpose and Total Hours required per pay period:

The information given on this position is complete and correct.

Signature of Employee

Date

VIII. SUPERVISOR'S REVIEW

IMPORTANT: This Block To Be Filled Out Only By The Direct Supervisor

a. (1) Has the employee correctly stated his or her official payroll position title?

[ ] Yes [ ] No

(2) If not, what is the correct title? _____

b. (1) Are the employee's statements about the duties of his/her position and the supplementary information complete and accurate?

[ ] Yes [ ] No

(2) If not, what additions, deletions or corrections should be made? (Refer to block and page)

_____

_____

_____

c. What positions under your supervision perform the same essential functions Give name and title:

Name	Title
Ivan Shiroma	Power System Superintendent
Vincent Pangelinan, P.E.	Power System Superintendent
Anthony Ishmael	Meter/Relay Superintendent

d. Does this position require (mark one)

[ ] Immediate supervision on a regular basis,

[ ] Immediate supervision only for new/complex tasks, or

[X] Little immediate supervision.

e. Does the employee participate in (mark those appropriate) the

[X] Formulation, [X] Interpretation, and/or [X] Application of Agency/Department policy. Give examples:

Formulation: Budget Proposals, Test results

Interpretation: GPA SOP, AP and regulations

Application: GPA SOP, AP and regulations

f. The employee (mark one)

[ ] Performs routine, well-defined tasks,

[ ] Performs moderately complex tasks requiring moderate knowledge of Agency's/Department's work; or

[X] Performs complex tasks requiring extensive knowledge of Agency's/Department's work.

I certify to the accuracy of the description of duties, responsibilities and organizational relationships provided herein; further, that the position is necessary to carry out government functions for which I am responsible. This certification is made with the knowledge that this information is to be used for statutory purposes on the use of public funds. The false or misleading statement may constitute violations of such statutes or their implementing regulations.

Signature of Immediate Supervisor — Date: 6/29/18

Signature of Department/Agency Head — Date: 6-29-18

9

May 12, 1997

IX.

Human Resources Office Review:

Date: _____

Reviewed by: _____ _____
Position Title Name

Classification Correct: [ ] Yes [ ] No

If not, corrective action taken: (Attach copy of review made)

_____

_____

Approved by: _____ _____
Personnel Services Administrator Date

Civil Service Commission Post-Audit:

Date: _____

Reviewed by: _____ _____
Position Title Name

Classification Correct: [ ] Yes [ ] No

If not, corrective action taken: (Attach copy of review made)

_____

_____

Authority	Benchmark Position	Year	Job Evaluation																																			
			1. Education		2. Experience		3. Complexity				4. Scope of Work				5. Problem Solving		6. Sup. Received		7. Work Environment		8. Physical Demands		9. Dis. Decisions		10. HR Skills / Contact		11. Auth. Exercised		12. S & M Resp.		TOTAL
GPA	Equipment Operator Superintendent	2017	I	132	I	132	D	50	264	132.0	D	20	264	52.8	D	87	E	100	C3	50	A2	25	C1	43	D3	57	F1	87	C1	29	927

Implementation Ranges @ 15th Market Percentile (2017 Market data) - 5 Spread							
Structural Adjustment - MIN				Structural Adjustment - MAX			
Base Salary	Grade	Step	Sub Step	Base Salary	Grade	Step	Sub Step
71080	M	2	A	73966	M	3	A

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

Issues for Decision

Resolution No. *2018-29*

Relative to the Authorization for GPA to Establish a Credit Card Account with Reward Points

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

5GCA section 2311 where to referred as the "Senator Edward J. Cruz Medical Referral and Education Mileage Program" requires accrued mileage earned through the use of credit cards for travel by employees of public corporations be available to support off-island medical care, and off-island student travel involving academic, sports and cultural activities; and

Guam Power Authority have found First Hawaiian Bank (FHB) Priority Reward Business credit card provides a program where reward points are earned through the use of the credit card and the rewards points can be used to purchase airline tickets and support 5GCA section 2311 requirements,

How much will it cost?

GPA has determined that *$50,000 credit limit* is required to support the travel requirements such as booking airfare, hotel arrangements, taxi fares and others.

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

RESOLUTION NO. 2018 - 29

RELATIVE TO THE AUTHORIZATION FOR GUAM POWER AUTHORITY TO ESTABLISH A CREDIT CARD ACCOUNT WITH REWARD POINTS

WHEREAS, the Guam Power Authority (GPA) are Public Corporations of the Government of Guam and are subject to the oversight of the Consolidated Commission on Utilities (CCU); and

WHEREAS, 5GCA section 2311 where to referred as the "Senator Edward J. Cruz Medical Referral and Education Mileage Program" requires accrued mileage earned through the use of credit cards for travel by employees of public corporations be available to support off-island medical care, and off-island student travel involving academic, sports and cultural activities; and

WHEREAS, Guam Power Authority have found FHB Priority Reward Business credit card provides a program where reward points are earned through the use of the credit card and the rewards points can be used to purchase airline tickets and support 5GCA section 2311 requirements; and

WHEREAS, GPA has determined that $50,000 credit limit is required to support the travel requirements such as booking airfare, hotel arrangements, taxi fares and others; and

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

1. The General Manager of the Guam Power Authority is authorized to enter into a contract with FHB for Priority Rewards Business credit card.
2. The credit limit for the credit will be set at $50,000.

3. The credit card will be used for travel purpose such as purchasing airline tickets, hotels and lodging, taxi fare, and items related to the travel.

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 27th DAY OF NOVEMBER 2018

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**J. GEORGE BAMBA**
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

SECRETARY'S CERTIFICATE

I**, J. George Bamba**, 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: _____

First Hawaiian Bank.

PRIORITY REWARDS BUSINESS CREDIT CARD℠ DISCLOSURES

This disclosure was printed on 9/1/18. The information for this card is accurate as of that date and is subject to change after that date. For any changes since the print date, contact us at BankCard Center, P.O. Box 1959, Honolulu, HI, 96805.

Interest Rates and Interest Charges	
Annual Percentage Rate (APR) for Purchases	**15.99%** The APR for Purchases may vary on the first day of each of your billing cycles, which begin in March, June, September and December. The rate will be determined by adding 10.99 percentage points to the Index, which is the highest U.S. Prime Rate published in the "Money Rates" section of *The Wall Street Journal* within the three months immediately preceding the calendar month in which the Change Date occurs. The Current Index will not be less than 4.50%
APR for Cash Advances	**18.00%** Fixed
Penalty APR and When it Applies	**18.00%** Fixed The APR will apply to your account if you make a late payment. **How Long Will the Penalty APR Apply?:** The Penalty APR will apply until you have made six consecutive Minumum Payments when due.
How to Avoid Paying Interest on Purchases	Your due date is at least 25 days after the close of each billing cycle. We will not charge you interest on Purchases if you pay your entire balance by the due date each month.
Fees	
Annual Fee	**None**
Transaction Fees • Foreign Transaction • ATM/Over-the-counter Cash Advance	**3%** of the U.S. dollar amount of any Purchase or Cash Advance made in a foreign currency Either **$10** or **3%** of the amount of each Cash Advance, whichever is greater.
Penalty Fees • Late Payment • Returned Payment	**$19** if balance is less than or equal to $250**; $39** if balance is greater than $250 **$24.95**

How We Will Calculate Your Balance: We will use a method called "Average Daily Balance (including new Purchases)."

Unless otherwise defined herein, all capitalized terms shall have the meaning set forth in the Priority Rewards Business Credit Card Agreement.

Doc. No. 34GL-18-2611.*

First Hawaiian Bank

Priority Rewards Business Credit Card℠ Application

APPLICATION FOR:

❑ NEW ACCOUNT $ _____

❑ Increase Credit Limit Credit Line Requested $ _____

❑ Convert from existing First Hawaiian Bank Business. Credit Card Account #:

____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

❑ Add Cardholders

Tell Us About Your Business

Business Legal Name (REQUIRED)	Federal Tax ID number (REQUIRED)	Census Tract (Guam/CNMI only)
Business Name to be printed on Card (max 19 letters)		
Country of Formation (REQUIRED)		

Street Address (REQUIRED - NO P.O. BOX, WE ARE REQUIRED TO OBTAIN YOUR PHYSICAL ADDRESS)	City	State	Zip	
Billing Address (if different from street address)	City	State	Zip	Business Phone ( )

Gross Annual Revenue (REQUIRED)*	Years in Business (REQUIRED)	# of Employees	Legal Structure (REQUIRED - Check one): ❑ Corporation ❑ Sole Proprietorship ❑ LLC ❑ General Partnership ❑ Other: _____	*NOTE: Personal tax returns and/or business financial records may be requested.

Business Checking Institution	Current Balance $	Type of Business, Describe (REQUIRED - contrating, restaurant, etc.)

Tell Us About Yourself

Complete this section for each owner or shareholder with 20% or more ownership. Attach additional pages if necessary.

Name (REQUIRED - First, Middle, Last)	% Ownership	Social Security Number (REQUIRED)	Date Of Birth (REQUIRED)

Street Address (REQUIRED) ❑ Own ❑ Rent	City (REQUIRED)	State (REQUIRED)	Zip (REQUIRED)	Home Phone ( )	Cell Phone ( )

You Must Be One Of The Following (check one): ❑ President ❑ Partner ❑ Owner	For Sole Proprietorship Only (REQUIRED) Are you a U.S. Citizen? (check one) ❑ Yes ❑ No, state Country of Citizenship _____	Are you a Permanent Resident Alien? (check one) ❑ Yes ❑ No

Years You Have Been An Owner	Gross Monthly Income* (REQUIRED)	*NOTE: Alimony, child support or maintenance income need not be revealed if you do not wish to have it considered as a basis for repaying this obligation.

Personal Deposits $	Real Estate Value $	Other Assets $	Applicant E-mail Address - If you want to receive special offers or information via e-mail. (Optional)

Reward and Billing Options:

❑ **Single Cardholder**: Award points to Cardholder and provide one monthly billing statement

❑ Award points to each individual employee and provide monthly individual cardholder statements (Multiple Cardholders)

❑ Award all points to the company and one monthly consolidated company statement and memo statements will be sent to individual Cardholders. (Multiple Cardholders) - Please also complete the section for the Program Administrator.

Please provide the following information:

Name of Program Administrator - Person who will be redeeming CashPoints (Max 15 Characters)

____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

Email Address

_____

Please Select a 4-Digit PassCode to be used when redeeming CashPoints ____ ____ ____ ____

Issue Business Credit Cards To

To request additional cards please provide us with a separate employee listing on Company letterhead including employee name, SSN, requested credit limit and cash advance access.

Employee Name (REQUIRED)	Social Security Number (For ID purposes) (REQUIRED)	Requested Credit Limit (REQUIRED)	Photo On Back of Card (OPTIONAL)	Allow Cash Advance Access?	If "Yes", please designate % allowed *
			❑ New photo to be taken ❑ Existing photo available ❑ No photo requested	❑ Yes ❑ No	❑ 25% ❑ 50%
			❑ New photo to be taken ❑ Existing photo available ❑ No photo requested	❑ Yes ❑ No	❑ 25% ❑ 50%
			❑ New photo to be taken ❑ Existing photo available ❑ No photo requested	❑ Yes ❑ No	❑ 25% ❑ 50%
	Total Amount Requested		*Visit any FHB Branch to take photo.*		*% of individual credit limit.

Please Sign Below

The person signing this Application certifies s/he has reviewed and agrees to the Priority Rewards Business Credit Card Application Terms and Conditions that appear on the back panel of this Application. If the Bank approves this Application, the Business and the person signing this Application separately agree to abide by all the terms and conditions of the Priority Rewards Business Credit Card Agreement and the Priority Rewards Business Program Agreement, copies of which will be provided upon approval. The person signing this Application understands that for final approval, additional agreements may need to be signed. All references in the Priority Rewards Business Credit Card Agreement to "you," "your," and "Borrower" shall mean and include the individual signing below, in such person's individual capacity.

By signing below, the Business and the individual signing this application certify that they have obtained proper authorization for the Bank to provide employee name(s) listed above, addresses, phone numbers, account number and other account information to the Bank's service provider(s) who provide or assist with providing cardholders with online access to account or statement information and the Bank's service provider(s) who operate, or assist with operating, the credit card rewards program.

The Business represents and warrants that the person signing below has the authority to (i) designate initially the officers, employees, agents or other representatives (collectively the "Representatives") of the Business to receive the card(s), and (ii) to add or delete the names of such Representatives or revise requested credit limits from time to time. Each such Representative(s) is authorized by the Business to use the card(s).

IMPORTANT INFORMATION ABOUT PROCEDURES FOR OPENING A NEW ACCOUNT To help the government fight the funding of terrorism and money laundering activities, Federal law requires all financial institutions to obtain, verify, and record information that identifies each person or business entity that opens an account. **What this means to you**: When you open an account, we will ask for your name, address, federal taxpayer identification number, date of birth (if applicable), and other information that will allow us to identify you.

X Initial Here _____ (to acknowledge personal liability on the account as described above)

X _____ _____ _____

Signed individually and on behalf of the Business | Print Name | Date

FOR BRANCH USE ONLY

BR#_____ REFERRAL EMP #_____

BNA_____ SALES EMP #_____

FOR BANK USE ONLY

New Account Number		Close And Convert #		Close And Convert #
Approved ❑ Yes ❑ No	Approved Credit Limit $	Approved By	Employee Number	Branch Number	Date

FOR BANKCARD USE ONLY:

CPC: _____ TPC: _____ ASC: _____ APPID: _____

Member FDIC

9/1/18

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

Issues for Decision

Resolution No. *2018-30*

Relative to Approving a 2nd Year Extension for the Diesel Fuel Contract

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

The three (3) year base period for the Diesel Fuel Oil No.2 Supply Contract (GPA-029-14) with Mobil Oil Guam, Inc. (herein after referred to as "Mobil") and Isla Petroleum and Energy, LLC (herein after referred to as "IP&E") expired on December 31, 2017. The first (1st) year of the 2-year contract extension option for Mobil and IP&E commenced on January 1, 2018 and will expire on December 31, 2018. The Authority released a solicitation for the procurement of a new contractor for the Supply of Diesel Fuel Oil No.2 under a Multi-Step IFB GPA-008-18. The term of the new contract is for a base period of two (2) years to commence on January 1, 2019, with three (3) additional 1-year extension options. the Authority anticipates a delay in awarding a new contract by January 01, 2019 due to a bid protest. GPA negotiated for the second (2nd) year extension of the existing contract with Mobil and IP&E for a term of one (1) year commencing in January 1, 2019. The total requirement for the second (2nd) year contract extension with Mobil and IP&E at the designated sites is estimated at about 700,000 barrels at a total cost of about $76M (Exhibit A), and is funded under the FY2019 approved budget (Exhibit B). GPA is requesting for the approval of the second (2nd) year contract extension with Mobil an IP&E.

Where is the location? All Diesel Peaking Units

How much will it cost?
A total cost of about $76M and is funded under the FY2019 approved budget

When will it be completed? December 31, 2019

What is its funding source? LEAC

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

RESOLUTION NO. 2018 - 30

AUTHORIZING THE MANAGEMENT OF THE GUAM POWER AUTHORITY TO PETITION THE PUBLIC UTILITIES COMMISSION FOR THE EXTENSION OF THE EXISTING DIESEL FUEL OIL NO.2 SUPPLY CONTRACT WITH MOBIL OIL GUAM, INC. AND ISLA PETROLEUM & ENERGY, LLC.

WHEREAS, the three (3) year base period for the Diesel Fuel Oil No.2 Supply Contract (GPA-029-14) with Mobil Oil Guam, Inc. (herein after referred to as "Mobil") and Isla Petroleum and Energy, LLC (herein after referred to as "IP&E") expired on December 31, 2017; and

WHEREAS, the first (1st) year of the 2-year contract extension option for Mobil and IP&E commenced on January 1, 2018 and will expire on December 31, 2018; and

WHEREAS, the Authority released a solicitation for the procurement of a new contractor for the Supply of Diesel Fuel Oil No.2 under a Multi-Step IFB GPA-008-18. The term of the new contract is for a base period of two (2) years to commence on January 1, 2019, with three (3) additional 1-year extension options; and

WHEREAS, the Authority anticipates a delay in awarding a new contract by January 01, 2019 due to a bid protest[1]; and

WHEREAS, GPA negotiated for the second (2nd) year extension of the existing contract with Mobil and IP&E for a term of one (1) year commencing in January 1, 2019; and

WHEREAS, the total requirement for the second (2nd) year contract extension with Mobil and IP&E at the designated sites is estimated at about 700,000 barrels at a total cost of about $76M (Exhibit A), and is funded under the FY2019 approved budget (Exhibit B); and

WHEREAS, GPA is requesting for the approval of the second (2nd) year extension of the contract, subject to the mutual agreement with Mobil an IP&E.

NOW THEREFORE, BE IT RESOLVED, by the Consolidated Commission on Utilities, subject to the review and approval of the Guam Public Utilities Commission, as follows:

1. The Guam Power Authority is hereby authorized to enter into a contract extension for the supply of Diesel Fuel Oil No.2 with Mobil and IP&E for a period of 1 year commencing January 01, 2019.

[1] Tristar protest dated October 8, 2018

2. The Guam Power Authority is hereby authorized to execute an agreement for the extension of the contracts.

3. The General Manager of the Guam Power Authority is hereby authorized an increase in obligating authority to the annual value of the contract over $750,000.00 and execute such agreements and documents necessary for a contract extension with **Mobil and IP&E.**

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

DULY and REGULARLY ADOPTED this 27th day of November 2018.

Certified by: **Attested by:**

JOSEPH T. DUENAS
CHAIRMAN

J. GEORGE BAMBA
SECRETARY

SECRETARY'S CERTIFICATE

I, J. GEORGE BAMBA, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of 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: _____

EXHIBIT A- ESTIMATED DIESEL EXPENSES

*** MOPS Based on MS Forecast dated 06Mar2018:** $98.218 /bbl
$2.339 /gal

MOBIL CONTRACT	ANNUAL QUANTITY (Estimated)	UNIT COST [1] $/gal (Estimated)	ANNUAL AMOUNT ($) (Estimated)	Contract Premium Fee $/gal	*AVG. MOPS $/gal	[1] UNIT COST (CIF Cost) $/gal	$/bbl
Baseload Power Plants (Cabras 1&2 / Piti 8&9)	280,000 gals	$2.601	$728,148	$0.262	$2.339	$2.601	$109.22
Fast Track Units (Talofofo / Manengon)	1,274,033 gals	$2.581	$3,287,680	$0.242	$2.339	$2.581	$108.38
Piti 7	1,221,452 gals	$2.601	$3,176,422	$0.262	$2.339	$2.601	$109.22
Northern Plants (Dededo, Macheche, Marbo, & Yigo CT, Aggreko)	23,214,988 gals	$2.581	$59,906,967	$0.242	$2.339	$2.581	$108.38
TOTAL MOBIL CONTRACT EXPENSES	25,990,473 gals **618,821 bbls**	$2.582 **$108.431**	**$67,099,218**	$0.243 (Avg)			

IP&E CONTRACT	ANNUAL QUANTITY (Estimated)	UNIT COST [1] $/gal (Estimated)	ANNUAL AMOUNT ($) (Estimated)				
Tenjo Vista	3,360,000 gals	$2.601	$8,737,780	$0.262	$2.339	$2.601	$109.22
TOTAL IP&E CONTRACT EXPENSES	3,360,000 gals **80,000 bbls**	$2.601 **$109.222**	**$8,737,780**				

GRAND-TOTAL	29,350,473 gals **698,821 bbls**	$2.584 **$108.521**	**$75,836,998**	**$0.245** **$10.303** **(Avg)**	**($/gal)** **($/bbl)**		

GUAM POWER AUTHORITY (GPA) FUEL SUPPLY MANAGEMENT APPROVED BUDGET 9/6/2018					FY19 APPROVED
(A) RESIDUAL FUEL OIL # 6 (RFO) / (Acct # 1000.151000.10)					
1. RFO Supply (Imports)	**Quantity (bbls)**	**MOPS ($/bbl)**	**Premium ($/bbl)**	**Landed Cost ($/bbl)**	**$**
ow Sulfur Fuel Oil (LSFO) ~					$53,940,228
gh Sulfur Fuel Oil (HSFO) ~					$106,574,278
TOTAL RFO REQUIREMENT ~					**$160,514,506**
(B) DIESEL FUEL OIL NO.2 (DFO) / (Acct # 1000.151000.20)					**$91,271,930**
(C) RENEWABLES / (Acct # 306000.555004.431)					**$10,463,361**
(D) UREA (FOR AGGREKO) / (Acct # 58410.501000.83)					**$929,886**
(E) FUEL HANDLING SERVICES / (Acct # 54900.501000.83)					
1 Ship Demurrage Cost					$123,212
2 Fuel Farm Management, Operations & Maintenance - Fixed Mgmt Fees					$834,300
3 Petroleum Inspection,Testing & Facility Calibration					$510,314
4 Dock Usage fee (Dock Use Agreement)					$1,644,052
5 Pipeline Agreement					$505,162
6 Storage Agreement (RFO)					$1,955,438
7 Storage Agreement (Diesel)					$1,733,446
8 Vacuum Truck Rental					$119,280
9 Bank Charges for RFO L/C Processing Fee					$826,057
10 Clean Petro-Tanker Hauling Services					$58,000
11 Labor and Others					
a. Labor					$192,172
b. Other Fuel-related Expenses					
Subscriptions and Technical Books					$50,000
Trainings & Seminars					$30,000
13 MEC HSFO Storage Tank Cleaning					$250,000
Handling Services					**$8,831,432**
			OVER-ALL FUEL BUDGET =		**$272,011,115**

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

GPA RESOLUTION NO. 2018-31
GWA RESOLUTION NO. 10-FY2019

RELATIVE TO THE RATIFICATION OF NOVEMBER 23, 2018 AS A HOLIDAY FOR THE GUAM POWER AUTHORITY AND THE GUAM WATERWORKS AUTHORITY

WHEREAS, the Consolidated Commission on Utilities (CCU) is the governing body for the Guam Power Authority and the Guam Waterworks Authority; and

WHEREAS, the Guam Power Authority and the Guam Waterworks Authority are public corporations of the government of Guam; and

WHEREAS, the Guam Power Authority and the Guam Waterworks Authority continue to work diligently to provide essential power and water services to the island and a day off is well deserved by the hard working employees to contribute to the island economy; and

WHEREAS, the Office of the Governor has issued and executive order declaring Friday, November 23, 2018 a holiday for the government of Guam; and

WHEREAS, the General Managers of the Guam Power Authority and Guam Waterworks Authority adopted the Governor's executive order declaring the holiday; and

WHEREAS, the Guam Power Authority and the Guam Waterworks Authority now wishes to solicit ratification authorization from the CCU for GWA and GPA for adopting the executive order from the Office of the Governor; and

NOW, THEREFORE BE IT RESOLVED BY THE CCU, **AS THE GOVERNING BODY OF THE GUAM POWER AUTHORITY AND THE GUAM WATERWORKS AUTHORITY, AS FOLLOWS:**

1. November 23, 2018 was properly adopted as a holiday for the Guam Power Authority and the Guam Waterworks Authority, with limited staffing for customer payments, customer service and engineering

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 27th day of NOVEMBER 2018.

Certified by:

_____

JOSEPH T. DUENAS
Chairperson
Consolidated Commission on Utilities

Attested by:

_____

J. GEORGE BAMBA
Secretary
Consolidated Commission on Utilities

I, J. George Bamba, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

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

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Nays: _____

Absent: _____

Abstain: _____

GUAM WATERWORKS AUTHORITY

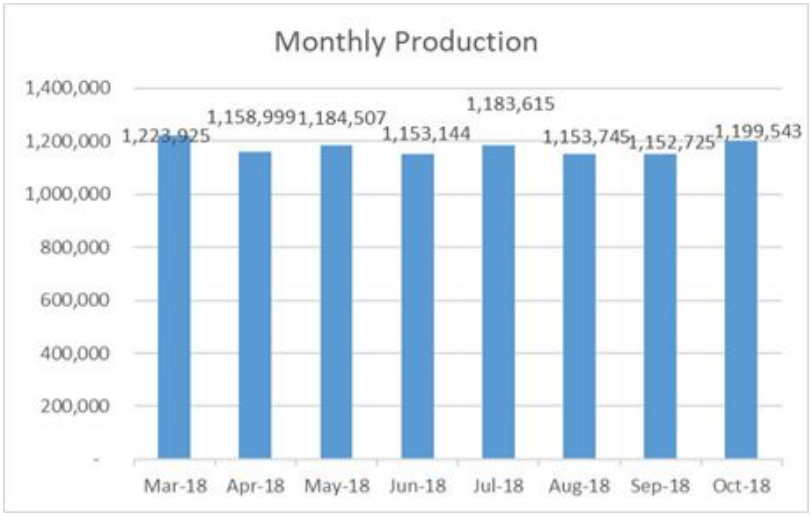
Management Report
GPWA CCU Board Meeting, November 27, 2018

Operations Update

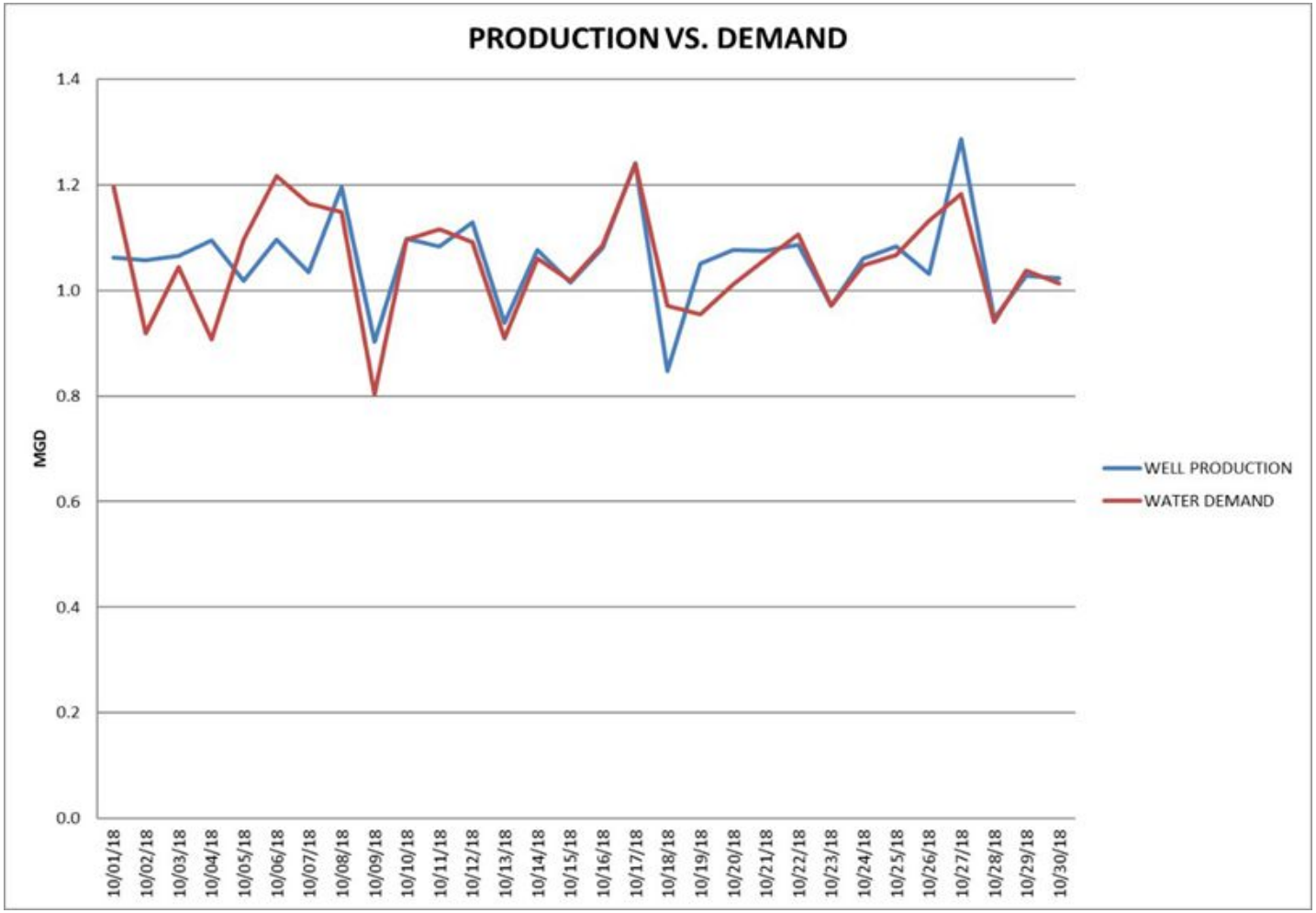
Production

Monthly Production Summary - October 2018					
Deep Wells				37.1	MGD
	Active wells =	92	of 120		
	Avg days in operation =	31	days		
	Total Production =	1,112,303	Kgals		
Springs				0.00	MGD
	Avg days in operation =	0	days	*placed on standby	
	Total Production =	0	Kgals		
Ugum Surface Water Plant				1.8	MGD
	Avg days in operation =	31	days		
	Total Production =	54,395	Kgals		
Tumon Maui Well				1.09	MGD
	Avg days in operation =	31	days		
	Total Production =	32,845	Kgals		
		1,199,543	Kgals	40.0	MGD

DW Status as of 10/31/2018	
Active	**92**
Grounded motor	**8**
Out of commission	**10**
Secured, PFOs	**2**
Standby	**8**
TOTAL	**120**



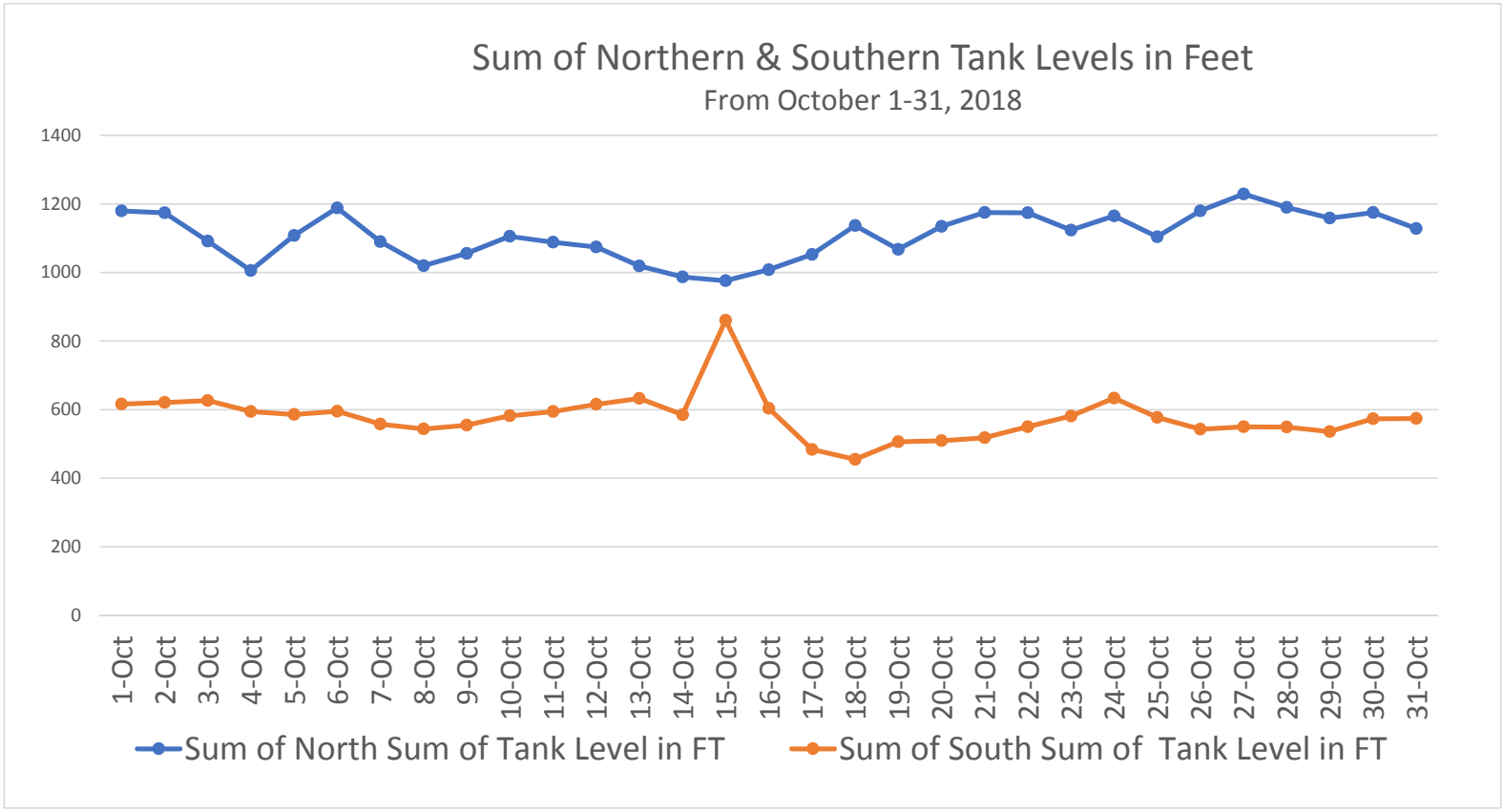
Tumon Maui Well Production vs. Demand for October 2018



Distribution

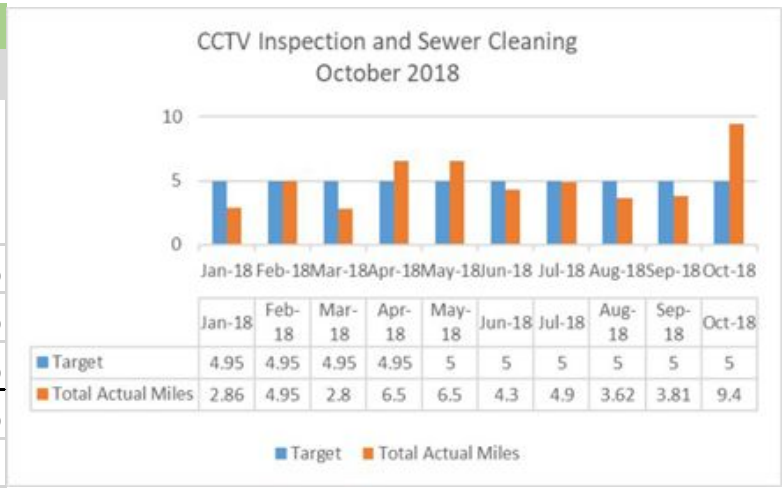
Monthly Distribution Summary - October 2018					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	11	21	19	90.5%
	Central	7	15	15	100.0%
	Southern	7	15	15	100.0%
		25	51	49	96.1%



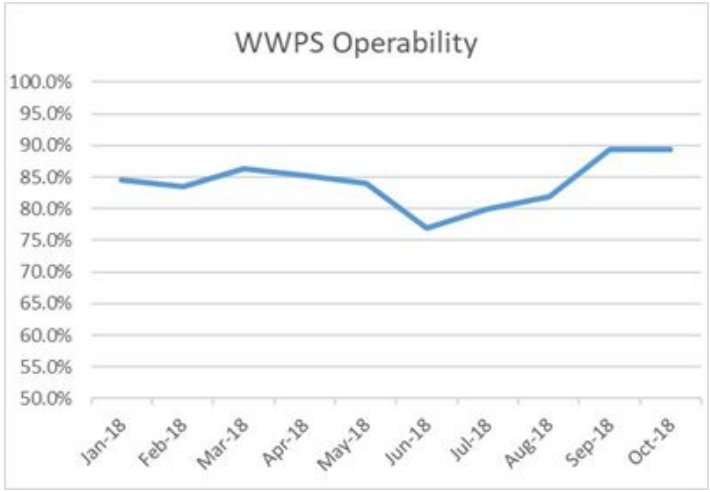

Sum of Northern & Southern Tank Levels in Feet
From October 1-31, 2018
1400
1200
1000
800
600
400
200
0
1-Oct
2-Oct
3-Oct
4-Oct
5-Oct
6-Oct
7-Oct
8-Oct
9-Oct
10-Oct
11-Oct
12-Oct
13-Oct
14-Oct
15-Oct
16-Oct
17-Oct
18-Oct
19-Oct
20-Oct
21-Oct
22-Oct
23-Oct
24-Oct
25-Oct
26-Oct
27-Oct
28-Oct
29-Oct
30-Oct
31-Oct
Sum of North Sum of Tank Level in FT
Sum of South Sum of Tank Level in FT

Wastewater Collections

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

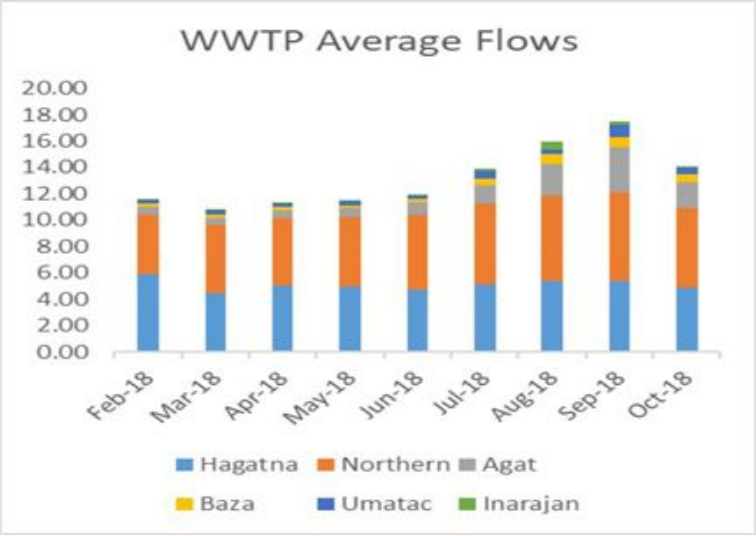


	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
Target	4.95	4.95	4.95	4.95	5	5	5	5	5	5
Total Actual Miles	2.86	4.95	2.8	6.5	6.5	4.3	4.9	3.62	3.81	9.4

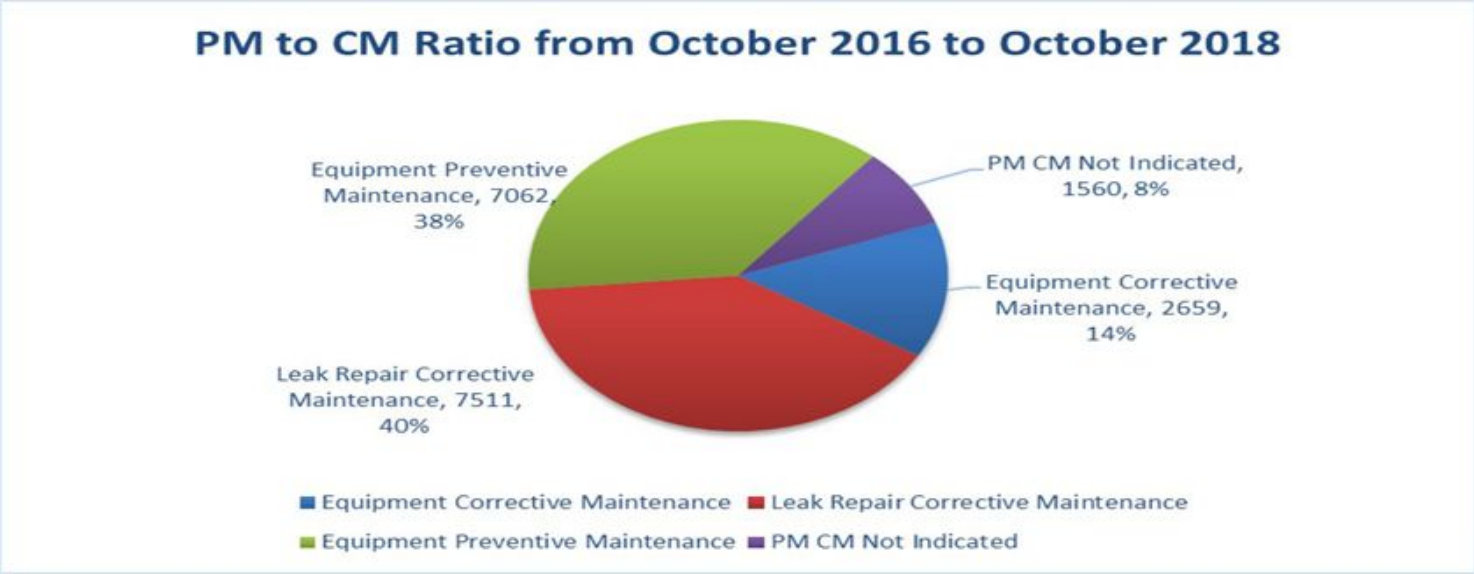


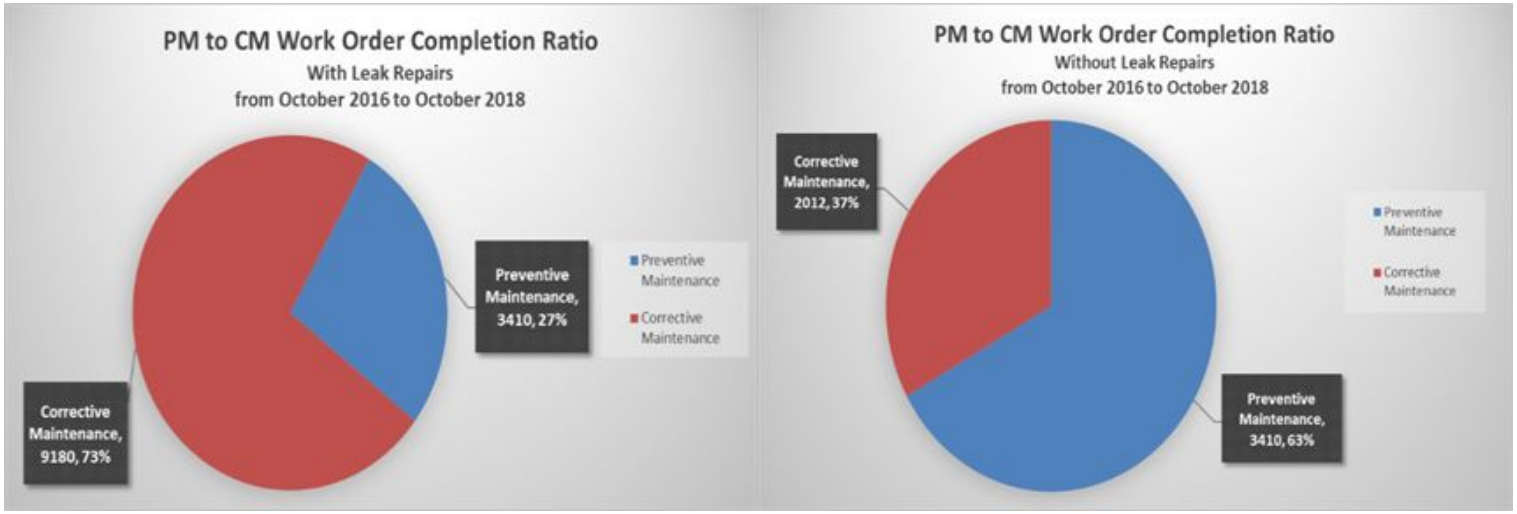
Wastewater Treatment

Monthly Wastewater Treatment Summary - October 2018				
WW Treatment Plants - Flows				
	Facility	**Avg. Daily Flows**	**Sludge (lbs)**	**Sludge Disp. ($)**
	Hagatna	4.90	278,580	$ 25,072
	Northern	6	607,880	$ 54,709
	Agat	1.96		
	Baza	0.60		
	Umatac	0.52		
	Inarajan	0.12		
		14.10	886,460	$ 79,781



Asset Management for October 2018





Operational Issues

Production & Distribution

- Leak repair/detection
  - Crews maintaining performance - As of October 15th, there were 17 pending repairs
  - Contract pending for remote leak detection services – services to begin in January 2019
  - GWA's Line and Leak Repair Unit has been nominated for and received MAGPRO award for Cost Savings/Innovative Idea of the Year (Large Department/Agency)
- WSCC –
  - SCADA preparation on-going
- Production
  - Pump and motor inventories getting low; PUC approval of FY2019 purchases pending (Nov 29th)
  - GWA crane is down again, pending repair; Well repair delayed because of crane rental PO issuance

Wastewater Collection & Treatment

- CCTV & Collections System:
  - SSES and CCTV-based repairs to collection lines and SMHs are still on-going
  - CCTV equipment and Combination trucks need service – pending POs
- Pump stations
  - Working to address pump operability issues
  - Critical spares and replacements procurement – awarded/protested; initial orders pending
- Treatment Plants
  - Hagatna WWTP
    - Two Centrifuges are operating, but still need repair to controls on one unit;
    - Clarifier – two operational, one being repaired
    - Digester aerator – 2 of 3 operational, gear-box issue
  - Northern WWTP
    - No. 2 centrifuge gear-box replaced; operation pending bins
  - Agat-Santa Rita WWTP
    - Contractor is being assessed LDs
    - Equalization tank construction still on-going
    - Paving and sitework to be partially complete in December
  - U-M WWTP
    - Work on-going at the site
    - Significant delays have occurred because of USF&W / EPA permitting issues

- Delay letter has been sent to USEPA

- Baza Gardens
  - Delay letter sent to EPA
  - Work on-going for all 3 phases; Phase III significant work remains for equalization tanks
  - Last leg of gravity line to plant is completed
  - Shooting for operation at end of November/early December

Meters for month of October 2018

COMPLETED FIELD ACTIVITY JAN 2017 THRU OCT 2018 (POSTED IN CIS)	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	TOTAL:	APRIL 2018 COMPLETED FIELD ACTIVITIES (IN PROCESS) TO BE POSTED IN CIS
GWA - Test Meter	30	9	9	371	745	87	393	743	1000	1007	434	378	750	969	1213	1429	84	1299	797	1489	639	1366	15241	418
GWA - Meter Exchange	393	179	220	276	482	353	501	807	1526	1039	452	259	239	1086	2120	121	121	1056	1248	1125	767	744	15114	434
GWA - Verify Zero Report	30	124	114	94	96	402	261	199	550	89	82	169	356	106	117	69	13	2	2	1	5	6	2887	0
GWA - Verify Low Usage	0	0	0	2	37	36	196	488	657	202	127	612	858	1122	1055	463	19	5	3	6	6	2	5896	0
TOTAL:	453	312	343	743	1360	878	1351	2237	3733	2337	1095	1418	2203	3283	4505	2082	237	2362	2050	2621	1417	2118	39138	852

# OF METERS TESTED AS PER METER TEST FACILITY REPORTS:	345	350	144	252	305	210	302	397	1013	1130	927	704	721	1041	1347	815	671	544	1159	1216	1013	1179	15785	
# OF BACKBILLINGS APPLIED AS PER FINANCE REPORTS:	0	0	0	20	122	84	29	111	219	80	77	4	136	23	323	48	75	20	30	253	243	500	2397	$ 1,426,661.21

# OF FIELD CREW PERFORMING CHANGE OUTS:	19	10	13	9	21	21	14	24	35	28	28*	28*	5	13	2	2	2	28	17	25	25	25		
# OF ADMIN STAFF TO CREATE AND POST FIELD ACTIVITIES IN CIS	7	4	5	6	9	9	10	13	15	15	13	13	8	11	5	4	1	13	9	5	5	5		
# OF SUPPLY STAFF TO ISSUE MATERIALS AND PROGRAM NEW METERS:	2	2	2	2	2	2	2	2	2	2	2	2	2	4	0	0	0	2	2	2	2	2		
# OF TEST FACILITY PERSONNEL TESTING METERS:	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1	2	2	2		
# OF ACCOUNTANTS CALCULATING BACK BILLS:	0	0	0	2	3	2	2	3	3	2	2	2	2	2	2	2	2	2	2	N/A	N/A	N/A		
TOTAL:	30	18	22	22	38	37	31	45	58	50	48	48	20	32	11	10	7	47	31	34	34	34		

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

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

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

REMAINING ACTIVE BADGER LP MODELS AS OF OCT 30, 2018: 16455

ACTIVE LP MODELS - PURCHASE MO & YEAR	COUNT	
2012	8794	14377 WARRANTY EXPIRED
Jan-13	2106	
Feb-13	728	
Mar-13	633	
May-13	1431	
Aug-13	685	
Feb-14	48	2078 ACTIVE WARRANTY
Mar-14	1	
Apr-14	928	
Jun-14	54	
Aug-14	1047	
TOTAL :	16455	

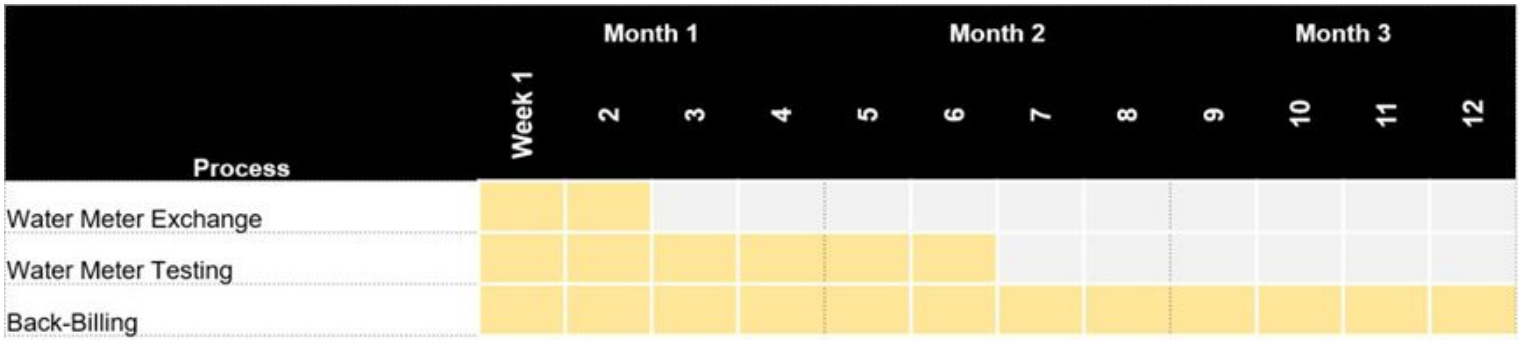
Public Response to Back-Billing

- Customers are surprised by back-billing
- Customers do not understand why they are being back-billing for prior year service dates
- Media reporting on back-billing and championing campaign for GWA to improve or eliminate back-billing

New Steps Added to Back-Billing Process

- Improve communication by:
  1. Send customer a letter indicating meter has been replaced (with in 10 working days)
  2. For failed meters, send customer a letter indicating meter has been tested and account is under review for potential back-billing (with in 31 working days)
  3. If back-bill is required, send customer a letter with easily understandable calculations explaining charges for prior period water consumption (with in 49 working days)
- Researching future opportunities to improve speed and accuracy of process

Current and Proposed Process Timelines



Marbo (Andy-South) Wells – Status

- Reversion documents / Notice of Entry filed by Office of U. S. Attorney in U.S District Court; property has reverted to U.S. Gov't (pending transfer to DoD)
- Informally advised that reservation was included so GWA will retain ownership of wells and no-cost easement being considered for access and use of well sites
- A copy of the reservation will be submitted to Department of Land Management. The property will be on the priority listing for the DOD Joint Land Use Group consideration for transfer to GWA.
- Press release will be issued.

One Guam Update

- Tumon Maui Well:
  - Hatch repair pending
  - VFD for one of ventilation fans being evaluated
- Santa Rosa Tank:
  - NAVFACMAR CO has briefed Andersen MSG (Missions Support Group) commander, and Civil Engineering Squad (CES) commander, and the General regarding the MOU for the Santa Rosa Tank project. Further action by GWA pending finalization of MOU.
- Agat-Santa Rita WWTP
  - Per Tom, may not use the easement for the routing of the new wastewater line from Hyundai.
  - DoD preparing documents for "in-kind" consideration as payment for the Agat easement. It will require GWA to do simple mowing and the removal of one large tree at the lot near the Tumon Maui Well.
- OEA Projects
  - NGLA Observation Wells - Discussion with DoD's Legal needed to nail down ownership and maintenance issues
  - Interceptor – working out coordination issues with regard to by-pass routing, GPA renewable project, and housing demo
  - Observation Wells
    - Still pending approval from DOD for the on Andersen sites new wells.

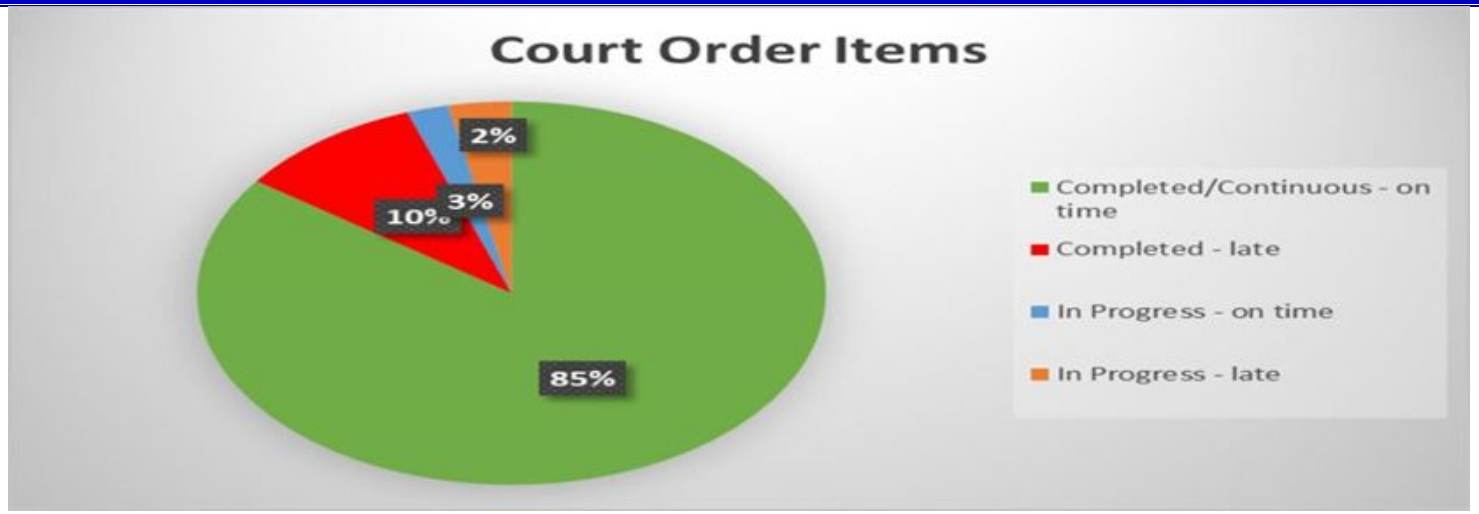
        - Ownership of the wells post-construction was discussed at GWIST Face to Face Meeting. OEA representative indicated concurrence with the proposal to include the transfer of improvements (new/rehabbed wells) to DoD upon completion of construction as a part of the Temporary Construction Easement documentation.
    - Sewer Interceptor
        - Revised Site Approval Request for the South Finegayan portion of the project are pending.

- Training and Collaboration
    - AWWA HIWPS training for operators – waiting for DoD interest
    - CIPP training scheduled for this month Oct 22-26.

- 30-Other
    - Utilis (satellite-based leak detection) - DOD is interested in the Utilis project.
    - Data Sharing SOP/MOU - In final draft stage. Waiting on review from Air Force.
    - Connection by Developer to Navy/Murray Road - Pending SHPO; Maria Lewis will keep on top of it.
    - Cabras Island Water Lines – further action pending GWA review
    - Navy Raw Water Lines - GWA asked about tapping into the Navy raw water lines; Navy has reviewed and is proposing Bulk Water Sales
        - Sales of “raw” water will reduce the need for the treatment plant but too far to make it cost efficient.
        - DOD will continue to sell GWA treated water, but work on a rate with distribution costs removed.
- Route 5 Sewer Line Project
    - Maria Lewis verified Navy was not yet billing GWA for sewer, but the billing problem has been corrected and GWA should start receiving bills this month.
    - GWA contractor working out how to tie in Southern High.
- Property Transfers
    - Transfer of Navy laterals at Murray Road to GWA
        - The lines were placed on the priority listing for the DoD Joint Land Use Group’s (JLUG) consideration for transfer.
    - Transfer of BPM-1 monitoring well
        - the property will be prioritized for transfer to GovGuam/GWA.

Court Order

	Items	On-time Items Completed/Continuous	Items Delayed	Completed Late	Items on Schedule	Performance %
Court order total	**93**	**79**	**3**	**9**	**2**	**96.8%**



Status Information

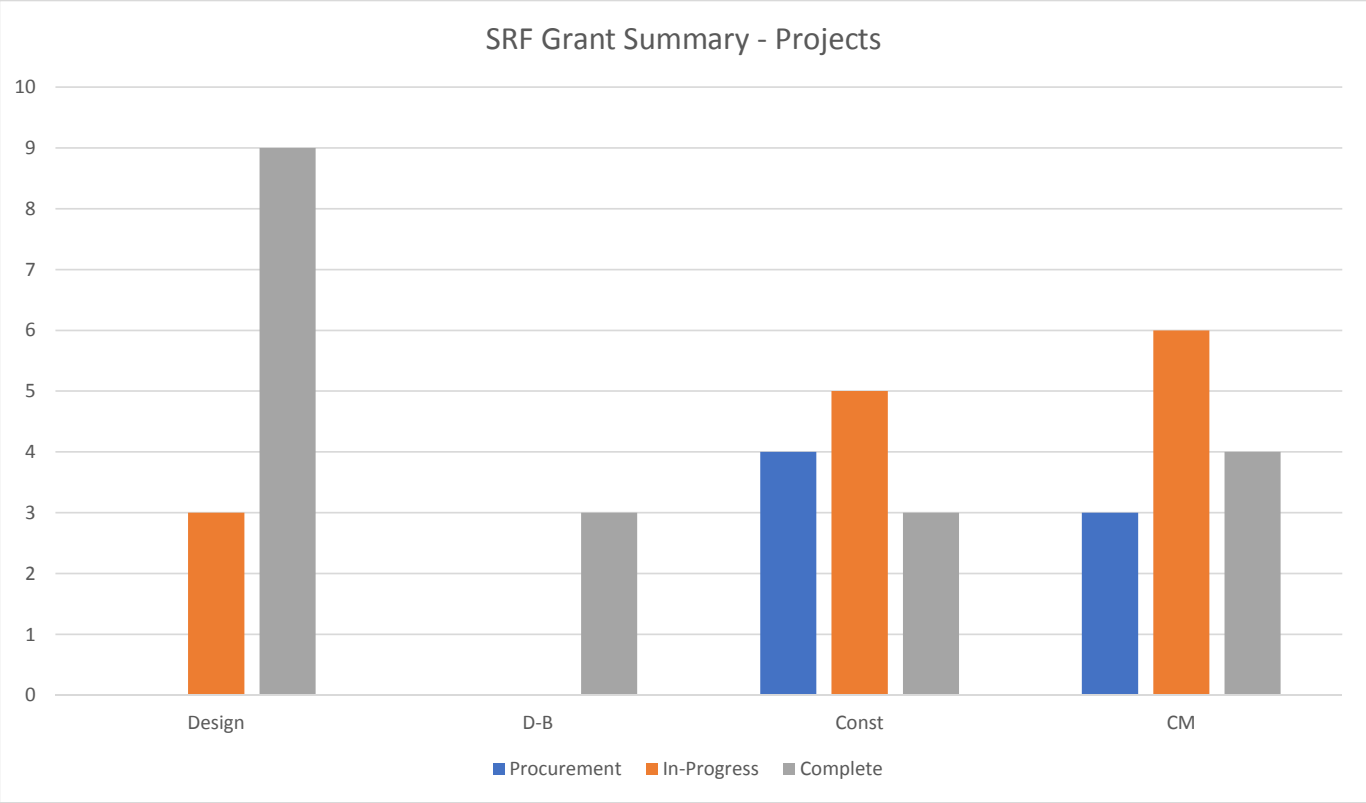
- 2 items delayed
  - Meters - completed
  - Baza Gardens Sewer Line – December 2018
  - Umatac-Merizo Wastewater Treatment Plant – July 2019
- Final Date to complete all Court Order items is December 31, 2020.
- Overflow or Bypass events reported to USEPA:
  - 11/05/2018, Yigo Pump Station sewer overflow – broken compressor hose
  - Umatac WWTP, Bypass 10/18/2018 to 11/06/2018 (ended Nov. 6, 2018)

CIP Summary

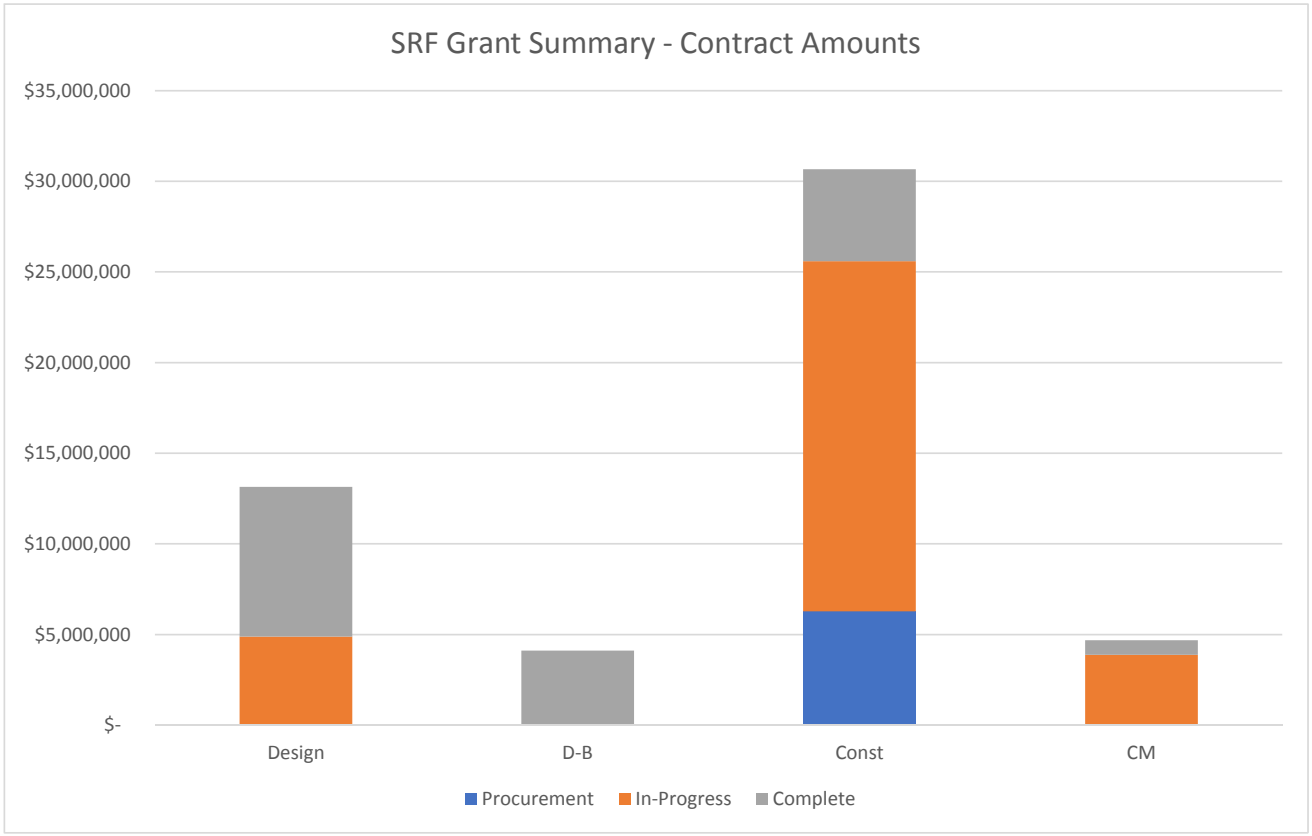
Pending reconciliation between Engineering and Finance

SRF Grant Summary

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



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



OEA Grant Summary

- NDWWTP Upgrades
  - 90% design submittal due December 10th.
  - Sitework bid package issued – Award pending
  - Vertical bid package planned for issuance Mar 2019

- Outfall Diffuser:
  - Bid received and currently being evaluated

- Sewer Line Interceptor Design-Build
  - 60% Design submittal submitted; pending GWA review
  - 90% Design submittal expected December 20th
  - Construction start expected in January

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

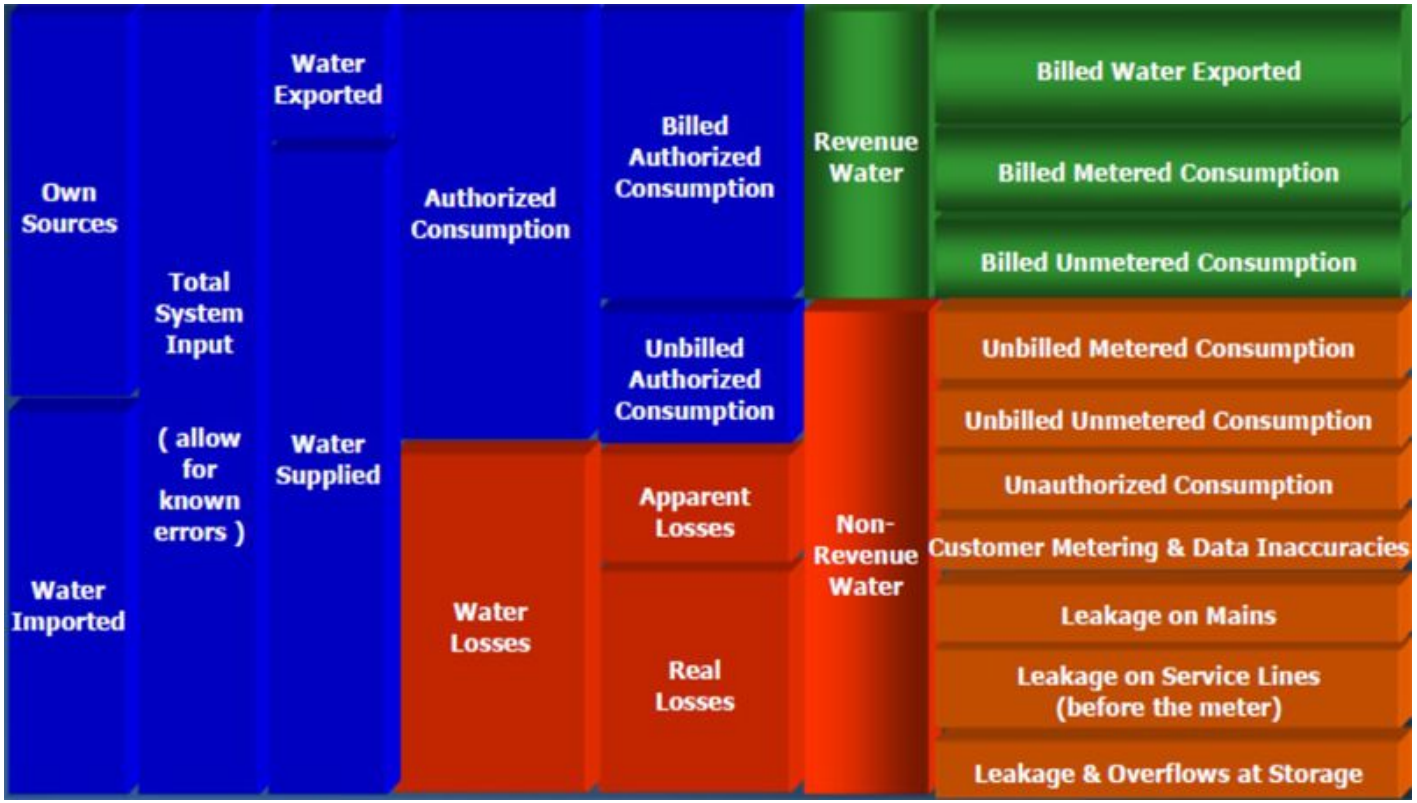
Action Item	Date (Target)	Date (Actual)	Status	Remarks
Project Funds Available	July-16	AUG-30-16	Completed	
Land Acquisition	Jan-17	Jan-17 (Compensation Pending)	Completed	Survey complete, appraisals complete – Deed circulated for signatures
Procure PM/CM Firm	Jan-17	Jan-17 (NTP Issued Feb 10th)	Completed	
Procure Design Firm	Jul-17		Completed	Contract issued; kickoff pending
Design -- 30/60/90/Final -- Review	Jun-18	30% - completed May 60% - expected Sep	On-target	Project design schedule has been revised / delayed
NEPA Analysis and Determination	Feb-17	Pending	Delayed	USEPA received SHPO concurrence; OEA to review EPA EA
Procure Construction Firm	Dec-18		On-target	Phased construction; Phase 1 expected award before Dec '18; Phase 2 award in 1st quarter '19
Construction Complete/Commence Operations	Nov-21		On-target	
Sewer line connection from MCB to GWA infrastructure	Jul-19		On-target	
MCB Initial Operating Capability	Jul-22		On-target	

Land Acquisition Summary

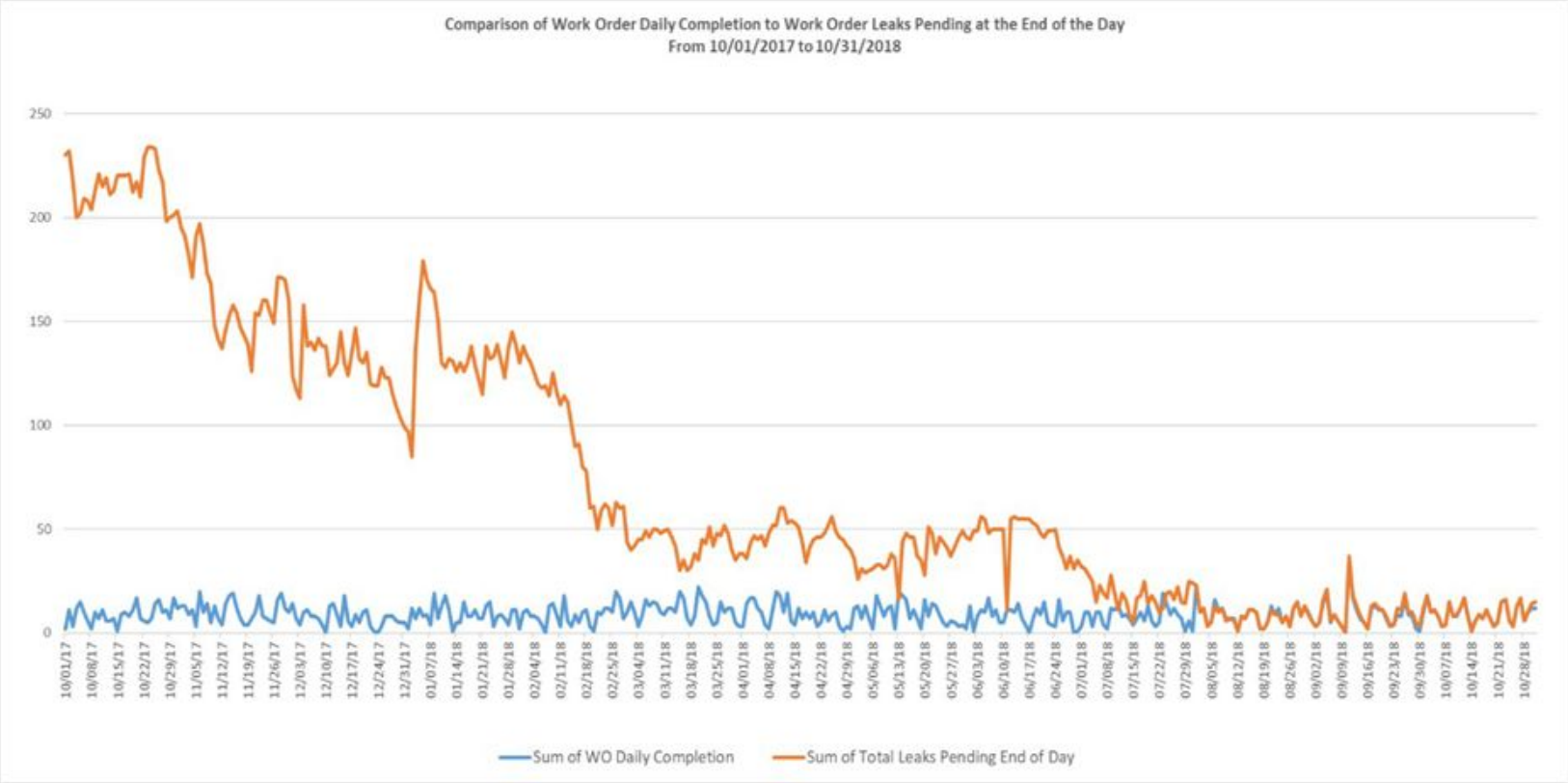
GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Ugum	Private	Acceptance of Counter offer Letter for L4 B4 T3521 drafted and sent to GM for review and approval 10/09/18. Property owner counteroffer sent up to GM for approval for L3 B4 T3521 11/05/18.
	Astumbo	Gov't. - CLTC	GWA and DLM working together on Land Registration process. Pending Notification of surrounding lot owner information from DLM
	Piti	Private	Preliminary geotechnical investigation and archaeological investigation in the process 05/01/18
Expansion of the Northern District Wastewater Treatment Plant (NDWWTP)	Dededo	Gov't - GALC	Land acquisition completed and filed under GWA ownership 09/17/18
Deep Wells	AG-12	Dept. of Agriculture/Manhita Farms	Land Registration has been approved by Superior Court of Guam. Pending release and recordation of the Decree Establishing Title at DLM. DCA will be submitting Retracement Survey Check Print Map to DLM for review and comments 07/13/18. Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2nd follow up sent on 09/12/18.
	Y-8	Gov't. - CLTC	Property ownership under Guam Waterworks Authority per Grant Deed No. 928090
Booster Pump Station	Agfayan	Private	Authorization Form to perform appraisal and investigative services for L28, B19, T3734, Inarajan signed by CLTC 10/29/2018
Sewer Pump Stations	2nd Adjacent Property to Southern Link	Private	Land Purchase and Sale Agreement forwarded to property owner for signature 11/07/18
Asan Springs	Asan	Federal	License Agreement for Asan Springs facility that fall on Dept. of Park Services property currently under DOI review

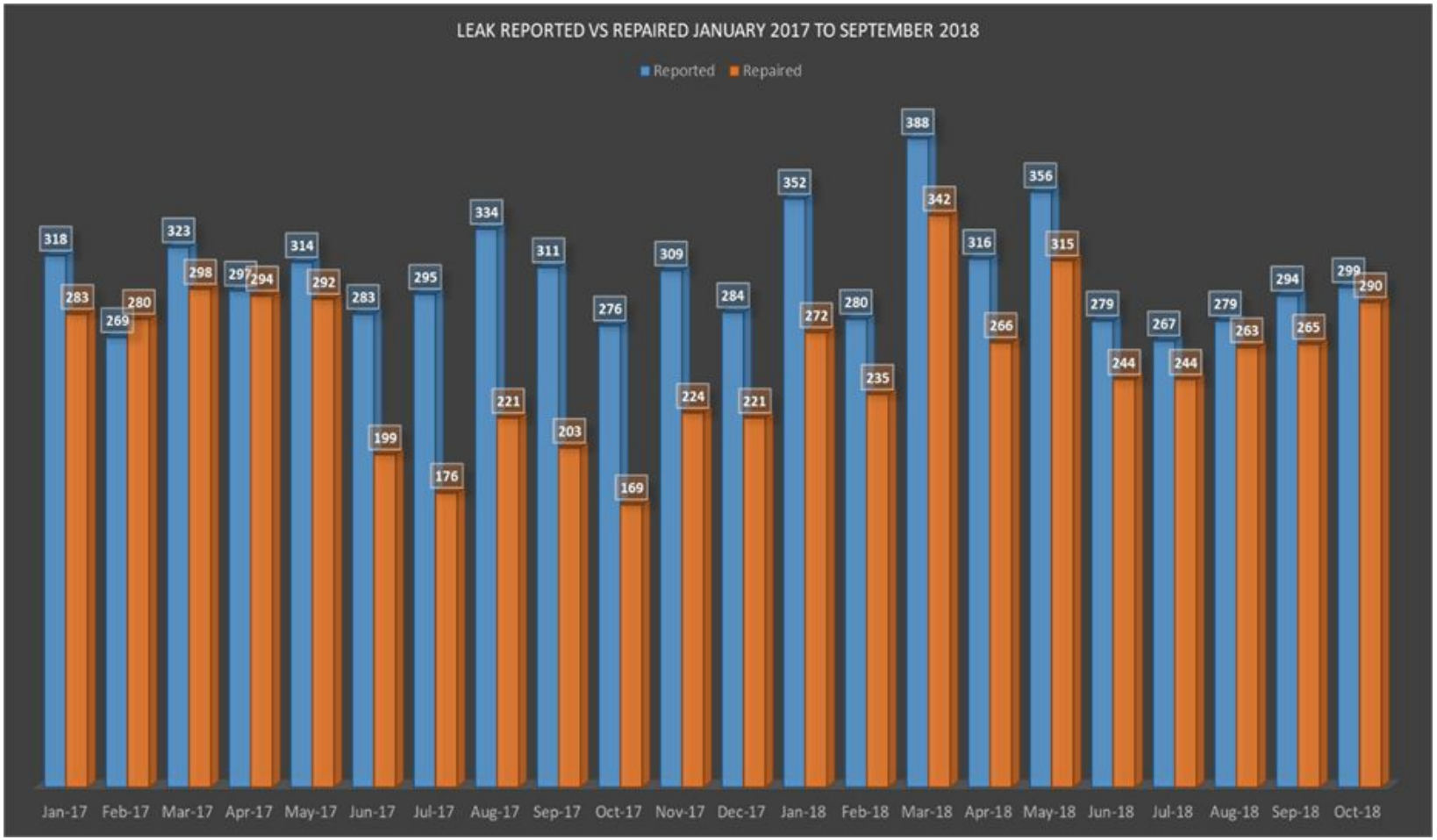
NRW – Update

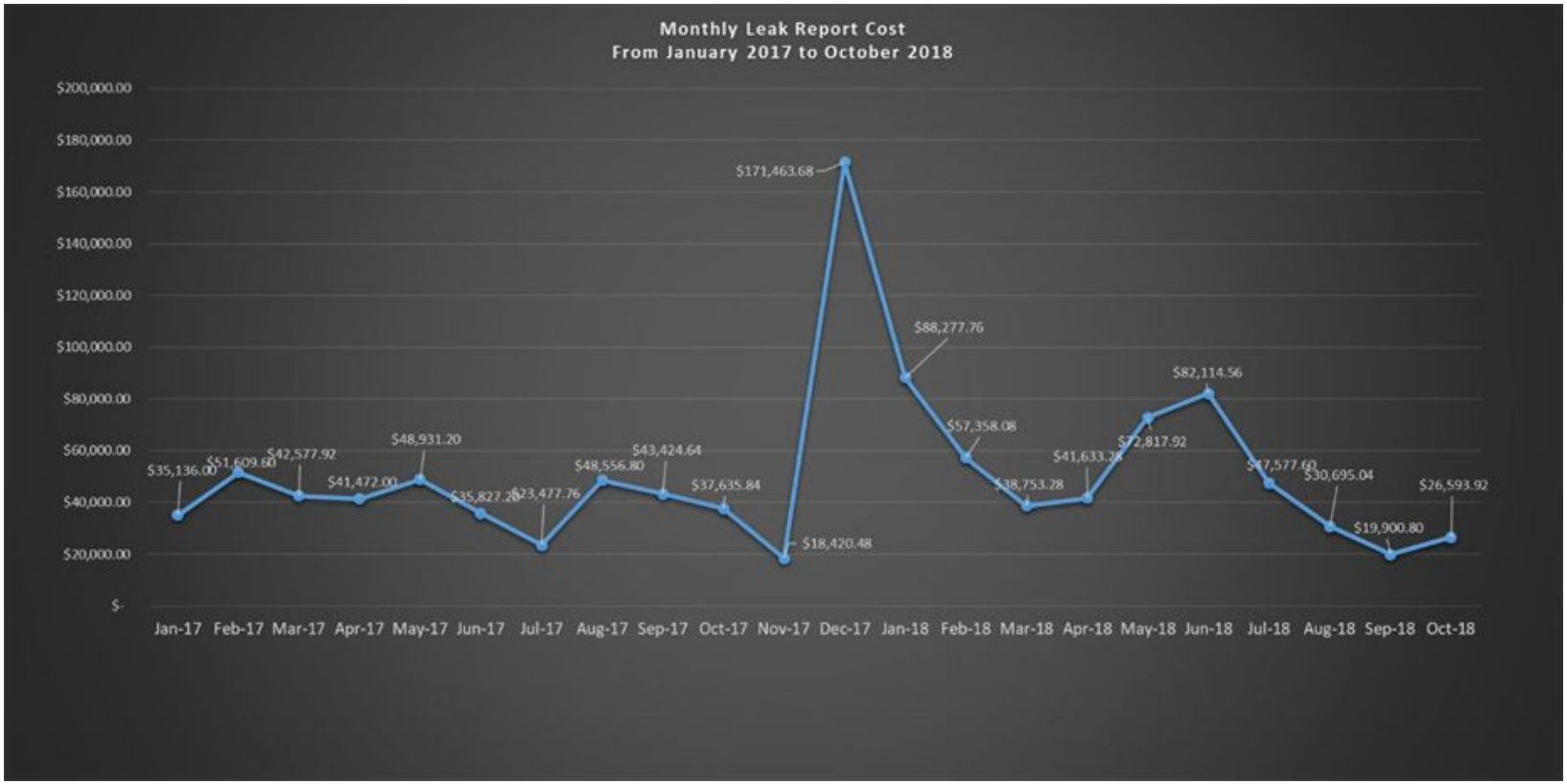
- Water Loss Control Program activities are on-going
    - Latest numbers show water losses (real losses) at 49.4%.
    - Production meter replacement program is under design for 65 well sites. Portable flow meter is being procured to calibrate existing meters.
    - District Metering Areas are currently being developed for pilot project. Locations have been identified. Grant application was submitted for this pilot project
    - DOI Grant application has been approved for training and equipment; Procurement has been initiated.



Leak Repair Summary for October 2018




LEAK REPORTED VS REPAIRED JANUARY 2017 TO SEPTEMBER 2018
Reported
Repaired
318
283
269
280
323
298
297
294
314
292
283
199
295
176
334
221
311
203
276
169
309
224
284
221
352
272
280
235
388
342
316
266
356
315
279
244
267
244
279
263
294
265
299
290
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



Assumptions:

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

GUAM WATERWORKS AUTHORITY
OCTOBER 31, 2018
FINANCIAL AND RELATED REPORTS
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GUAM WATERWORKS AUTHORITY
Balance Sheet
October 31, 2018

SCHEDULE A

ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	Unaudited October 31, 2018	Unaudited September 30, 2018	Increase (Decrease)
Current Assets			
Cash			
Unrestricted (Schedule G)	955,500	3,093,944	(2,138,444)
Restricted Funds (Schedule G)	67,579,705	66,805,984	773,721
Accounts Receivable Trade, Net of Allowance for Doubtful Accounts of $4,737,213 at Oct 31, 2018 and $4,669,462 at Sep 30, 2018	17,383,329	17,457,278	(73,949)
Other Receivable	4,132,403	5,168,282	(1,035,879)
Materials & Supplies Inventory, Net of Allowance for Obsolescence of $457,370 at Oct 31, 2018 and $457,370 at Sep 30, 2018	3,052,500	2,949,318	103,182
Total Current Assets	93,103,437	95,474,806	(2,371,368)
Property, Plant and Equipment			
Utility plant in service			
Water system	349,079,326	348,723,173	356,152
Wastewater system	304,567,423	304,567,423	-
Non-utility property	17,241,496	17,241,496	-
Total property	670,888,244	670,532,092	356,152
Less Accumulated Depreciation	(303,831,381)	(302,072,316)	(1,759,065)
Land	3,681,120	3,681,120	-
Construction Work in Progress	178,890,597	178,451,970	438,627
Property, Plant and Equipment, net	549,628,580	550,592,866	(964,286)
Other noncurrent assets			
Restricted cash (Schedule G)	169,029,197	177,176,880	(8,147,683)
Investments (Schedule G)	45,762,638	43,097,913	2,664,725
Other Prepaid Expenses	1,575,215	677,828	897,387
Total other noncurrent assets	216,367,050	220,952,621	(4,585,570)
Total Assets	859,099,068	867,020,292	(7,921,224)
Deferred outflows of resources			
Debt defeasance due to bond refunding	13,394,966	13,405,986	(11,020)
Deferred outflows from pension	4,939,650	4,939,650	-
Total Assets and Deferred Outflows of Resources	**877,433,684**	**885,365,928**	**(7,932,244)**
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET ASSETS			
Current Liabilities			
Current maturities of long-term debt			
Series 2010 Bond	1,800,000	1,800,000	-
Series 2014 Refunding	3,620,000	3,620,000	-
Series 2017 Refunding	295,000	295,000	-
Notes Payable	3,219,993	3,206,158	13,835
Accounts Payable -Trade	5,407,792	5,589,343	(181,550)
Interest Payable	8,551,138	6,427,669	2,123,470
Accrued Payroll and Employee Benefits	815,477	1,520,660	(705,183)
Accrued Annual Leave	1,059,161	1,059,161	-
Current portion of employee annual leave	604,009	604,009	-
Contractors' Payable	15,163,072	25,364,309	(10,201,237)
Customer and Other Deposits	2,134,079	2,131,241	2,839
Other Liabilities	106,997	106,997	-
Total Current Liabilities	42,776,719	51,724,546	(8,947,827)
Long Term Debt, less current maturities			
Series 2010 Revenue Bond	1,895,000	1,895,000	-
Series 2013 Revenue Bond	172,630,000	172,630,000	-
Series 2014 Refunding Bond	68,900,000	68,900,000	-
Series 2016 Revenue Bond	143,310,000	143,310,000	-
Series 2017 Refunding Bond	107,365,000	107,365,000	-
Unamortized Bond Premium/Discount	33,180,910	33,300,619	(119,709)
Notes Payable	2,047,889	2,322,866	(274,977)
Unfunded Ret Liability (GASB 67/68)	49,243,798	49,243,798	-
Employee Annual Leave, Less Current Portion	826,194	826,194	-
Total Liabilities	622,175,509	631,518,022	(9,342,513)
Deferred inflows of resources:			
Deferred inflows from pension	160,769	169,283	(8,514)
Total Liabilities and Deferred Inflows of Resources	622,336,278	631,687,305	(9,351,027)
Net Assets	**255,097,405**	**253,678,622**	**1,418,783**
Total Liabilities, Deferred Inflows of Resources and Net Assets	**877,433,684**	**885,365,928**	**(7,932,244)**

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

	Month to Date		Variance
	Budget October-18	Actual (Unaudited) October-18	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,813,246	5,656,352	(156,895)
Wastewater Revenues	3,247,265	3,151,116	(96,150)
Legislative Surcharge	294,667	296,030	1,363
Other Revenues	38,254	35,745	(2,509)
System Development Charge	97,773	91,670	(6,102)
Total Operating Revenues	9,491,205	9,230,912	(260,292)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	763,975	724,686	39,289
Power Purchases	1,231,315	1,223,757	7,558
Total Utility Costs	1,995,290	1,948,443	46,847
Salaries and Wages	1,782,365	1,778,353	4,012
Pension and Benefits	562,238	550,464	11,773
Total Salaries and Benefits	2,344,603	2,328,818	15,785
Capitalized Labor and Benefits	(308,333)	(308,333)	-
Net Salaries and Benefits	2,036,269	2,020,484	15,785
Administrative and General Expenses			
Sludge removal	153,771	109,101	44,670
Chemicals	185,801	184,182	1,619
Materials & Supplies	188,606	149,300	39,305
Transportation	38,648	29,015	9,633
Communications	15,054	1,498	13,556
Claims	8,417	-	8,417
Insurance	79,461	75,172	4,289
Training & Travel	30,417	19,838	10,578
Advertising	12,500	-	12,500
Miscellaneous	92,632	63,266	29,366
Regulatory Expense	25,029	8,330	16,699
Bad Debts Provision	67,751	67,740	11
Total Administrative and General Expense	898,086	707,442	190,643
Depreciation Expense	1,759,065	1,759,065	(0)
Contractual Expense			
Audit & Computer Maint.	58,783	20,793	37,990
Building rental	38,361	36,603	1,758
Equipment rental	79,980	74,284	5,696
Legal	512	-	512
Laboratory	34,862	34,382	480
Other	213,458	42,728	170,729
Total Contractual Expense	425,956	208,791	217,165
Retiree Supp. Annuities and health care costs	249,871	244,839	5,031
Contribution to Government of Guam	51,975	50,000	1,975
Total Retiree Benefits	301,846	294,839	7,006
Total Operating Expenses	7,416,512	6,939,065	477,447
Earnings (Loss) from Operations	2,074,693	2,291,847	217,154
Interest Income-2010/13/14/16/17 Series Bond	84,943	327,419	242,476
Interest Income-Other Funds	13,856	48,250	34,394
Interest Income-SDC	2,072	16,338	14,266
Interest Expense- 2010/13/14/16/17 Series Bond	(2,387,785)	(2,137,785)	250,000
Interest Expense- ST BOG	(19,762)	(9,543)	10,219
Federal Expenditures	-	-	-
Loss on Asset Disposal	-	-	-
AFUDC	1,157,306	625,000	(532,306)
Amortization of Discount, Premium and Issuance Costs	(17,798)	119,709	137,507
Defeasance due to bond refunding	(16,201)	(11,020)	5,181
Deferred outflows from pension	-	8,514	8,514
Prior Year Adjustment	-	-	-
Total non-operating revenues (expenses)	(1,183,369)	(1,013,117)	170,251
Net Income (Loss) before capital contributions	891,324	1,278,730	387,406
Capital Contributions			
Grants from US Government	5,533,205	140,053	(5,393,152)
Grants from GovGuam & Others	-	-	-
Total Capital Contributions	5,533,205	140,053	(5,393,152)
Change in Net Assets	6,424,529	1,418,783	(5,005,746)
Debt Service Calculation			
Earnings From Operations	2,074,693	2,291,847	
System Development Charge	(97,773)	(91,670)	
Retiree COLA	51,975	50,000	
Interest/Investment Income	13,856	48,250	
Depreciation	1,759,065	1,759,065	
Balance Available for Debt Service per Section 6.12	3,801,817	4,057,493	
Working Capital Reserve Available for Debt Service	934,811	946,431	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	4,736,628	5,003,923	
Debt Service			
Principal	476,250	476,250	
Interest	2,137,785	2,137,785	
Total	2,614,035	2,614,035	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.55	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.81	1.91	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending October 31, 2018 and 2017

SCHEDULE C

	Month to Date Actual (Unaudited) October-18	Month to Date Actual (Unaudited) October-17	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,656,352	5,531,297	125,055
Wastewater Revenues	3,151,116	3,191,784	(40,668)
Legislative Surcharge	296,030	289,209	6,821
Other Revenues	35,745	37,495	(1,750)
System Development Charge	91,670	89,249	2,421
Total Operating Revenues	9,230,912	9,139,034	91,878
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	724,686	723,748	(938)
Power Purchases	1,223,757	1,223,874	117
Total Utility Costs	1,948,443	1,947,622	(821)
Salaries and Wages	1,778,353	1,457,217	(321,136)
Pension and Benefits	550,464	491,682	(58,782)
Total Salaries and Benefits	2,328,818	1,948,899	(379,919)
Capitalized Labor and Benefits	(308,333)	(296,147)	12,186
Net Salaries and Benefits	2,020,484	1,652,752	(367,732)
Administrative and General Expenses			
Sludge removal	109,101	125,638	16,537
Chemicals	184,182	182,625	(1,557)
Materials & Supplies	149,300	180,731	31,431
Transportation	29,015	64,001	34,986
Communications	1,498	14,756	13,257
Claims	-	10,803	10,803
Insurance	75,172	76,005	833
Training & Travel	19,838	22,515	2,676
Advertising	-	13,976	13,976
Miscellaneous	63,266	84,556	21,290
Regulatory Expense	8,330	22,121	13,791
Bad Debts Provision	67,740	109,695	41,955
Total Administrative and General Expense	707,442	907,422	199,979
Depreciation Expense	1,759,065	1,528,175	(230,890)
Contractual Expense			
Audit & Computer Maint.	20,793	57,064	36,271
Building rental	36,603	36,603	(0)
Equipment rental	74,284	85,582	11,299
Legal	-	-	-
Laboratory	34,382	34,529	146
Other	42,728	200,242	157,514
Total Contractual Expense	208,791	414,021	205,230
Retiree Supp. Annuities and health care costs	244,839	237,462	(7,377)
Contribution to Government of Guam	50,000	49,833	(167)
Total Retiree Benefits	294,839	287,295	(7,544)
Total Operating Expenses	6,939,065	6,737,287	(201,778)
Earnings (Loss) from Operations	2,291,847	2,401,748	(109,900)
Interest Income-2010/13/14/16/17 Series Bond	327,419	255,374	72,045
Interest Income-Other Funds	48,250	45,645	2,606
Interest Income-SDC	16,338	13,852	2,486
Interest Expense- 2010/13/14/16/17 Series Bond	(2,137,785)	(2,177,468)	39,683
Interest Expense- ST BOG	(9,543)	(30,702)	21,159
Federal Expenditures	-	(62,220)	62,220
Loss on Asset Disposal	-	(162,136)	162,136
AFUDC	625,000	1,041,766	(416,766)
Amortization of Discount, Premium and Issuance Costs	119,709	(42,691)	162,400
Defeasance due to bond refunding	(11,020)	(12,444)	1,424
Deferred outflows from pension	8,514	32,592	(24,078)
Prior Year Adjustment	-	(9,304)	9,304
Total non-operating revenues (expenses)	(1,013,117)	(1,107,736)	94,618
Net Income (Loss) before capital contributions	1,278,730	1,294,012	(15,282)
Capital Contributions			
Grants from US Government	140,053	1,244,712	(1,104,659)
Grants from GovGuam & Others	-	22,681	(22,681)
Total Capital Contributions	140,053	1,267,392	(1,127,339)
Change in Net Assets	1,418,783	2,561,404	(1,142,621)
Debt Service Calculation			
Earnings From Operations	2,291,847	2,401,748	
System Development Charge	(91,670)	(89,249)	
Retiree COLA	50,000	49,833	
Interest/Investment Income	48,250	45,645	
Depreciation	1,759,065	1,528,175	
Balance Available for Debt Service per Section 6.12	4,057,493	3,936,152	
Working Capital Reserve Available for Debt Service	946,431	945,164	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	5,003,923	4,881,316	
Debt Service			
Principal	476,250	433,333	
Interest	2,137,785	1,794,910	
Total	2,614,035	2,228,243	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.55	1.77	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.91	2.19	

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

	Budget October-18	Year to Date Actual (Unaudited) October-18	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,813,246	5,656,352	(156,895)
Wastewater Revenues	3,247,265	3,151,116	(96,150)
Legislative Surcharge	294,667	296,030	1,363
Other Revenues	38,254	35,745	(2,509)
System Development Charge	97,773	91,670	(6,102)
Total Operating Revenues	9,491,205	9,230,912	(260,292)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	763,975	724,686	39,289
Power Purchases	1,231,315	1,223,757	7,558
Total Utility Costs	1,995,290	1,948,443	46,847
Salaries and Wages	1,782,365	1,778,353	4,012
Pension and Benefits	562,238	550,464	11,773
Total Salaries and Benefits	2,344,603	2,328,818	15,785
Capitalized Labor and Benefits	(308,333)	(308,333)	-
Net Salaries and Benefits	2,036,269	2,020,484	15,785
Administrative and General Expenses			
Sludge removal	153,771	109,101	44,670
Chemicals	185,801	184,182	1,619
Materials & Supplies	188,606	149,300	39,305
Transportation	38,648	29,015	9,633
Communications	15,054	1,498	13,556
Claims	8,417	-	8,417
Insurance	79,461	75,172	4,289
Training & Travel	30,417	19,838	10,578
Advertising	12,500	-	12,500
Miscellaneous	92,632	63,266	29,366
Regulatory Expense	25,029	8,330	16,699
Bad Debts Provision	67,751	67,740	11
Total Administrative and General Expense	898,086	707,442	190,643
Depreciation Expense	1,759,065	1,759,065	(0)
Contractual Expense			
Audit & Computer Maint.	58,783	20,793	37,990
Building rental	38,361	36,603	1,758
Equipment rental	79,980	74,284	5,696
Legal	512	-	512
Laboratory	34,862	34,382	480
Other	213,458	42,728	170,729
Total Contractual Expense	425,956	208,791	217,165
Retiree Supp. Annuities and health care costs	249,871	244,839	5,031
Contribution to Government of Guam	51,975	50,000	1,975
Total Retiree Benefits	301,846	294,839	7,006
Total Operating Expenses	7,416,512	6,939,065	477,447
Earnings (Loss) from Operations	2,074,693	2,291,847	217,154
Interest Income-2010/13/14/16/17 Series Bond	84,943	327,419	242,476
Interest Income-Other Funds	13,856	48,250	34,394
Interest Income-SDC	2,072	16,338	14,266
Interest Expense- 2010/13/14/16/17 Series Bond	(2,387,785)	(2,137,785)	250,000
Interest Expense- ST BOG	(19,762)	(9,543)	10,219
Federal Expenditures		-	-
Loss on Asset Disposal		-	-
AFUDC	1,157,306	625,000	(532,306)
Amortization of Discount, Premium and Issuance Costs	(17,798)	119,709	137,507
Defeasance due to bond refunding	(16,201)	(11,020)	5,181
Deferred outflows from pension		8,514	8,514
Prior Year Adjustment		-	-
Total non-operating revenues (expenses)	(1,183,369)	(1,013,117)	170,251
Net Income (Loss) before capital contributions	891,324	1,278,730	387,406
Capital Contributions			
Grants from US Government	5,533,205	140,053	(5,393,152)
Grants from GovGuam & Others	-	-	-
Total Capital Contributions	5,533,205	140,053	(5,393,152)
Change in Net Assets	6,424,529	1,418,783	(5,005,746)
Debt Service Calculation			
Earnings From Operations	2,074,693	2,291,847	
System Development Charge	(97,773)	(91,670)	
Retiree COLA	51,975	50,000	
Interest/Investment Income	13,856	48,250	
Depreciation	1,759,065	1,759,065	
Balance Available for Debt Service per Section 6.12	3,801,817	4,057,493	
Working Capital Reserve Available for Debt Service	934,811	946,431	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	4,736,628	5,003,923	
Debt Service			
Principal	476,250	476,250	
Interest	2,137,785	2,137,785	
Total	2,614,035	2,614,035	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.55	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.81	1.91	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending October 31, 2018 and 2017

SCHEDULE E

	Year to Date Actual (Unaudited) October-18	Actual (Unaudited) October-17	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,656,352	5,531,297	125,055
Wastewater Revenues	3,151,116	3,191,784	(40,668)
Legislative Surcharge	296,030	289,209	6,821
Other Revenues	35,745	37,495	(1,750)
System Development Charge	91,670	89,249	2,421
Total Operating Revenues	9,230,912	9,139,034	91,878
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	724,686	723,748	(938)
Power Purchases	1,223,757	1,223,874	117
Total Utility Costs	1,948,443	1,947,622	(821)
Salaries and Wages	1,778,353	1,457,217	(321,136)
Pension and Benefits	550,464	491,682	(58,782)
Total Salaries and Benefits	2,328,818	1,948,899	(379,919)
Capitalized Labor and Benefits	(308,333)	(296,147)	12,186
Net Salaries and Benefits	2,020,484	1,652,752	(367,732)
Administrative and General Expenses			
Sludge removal	109,101	125,638	16,537
Chemicals	184,182	182,625	(1,557)
Materials & Supplies	149,300	180,731	31,431
Transportation	29,015	64,001	34,986
Communications	1,498	14,756	13,257
Claims	-	10,803	10,803
Insurance	75,172	76,005	833
Training & Travel	19,838	22,515	2,676
Advertising	-	13,976	13,976
Miscellaneous	63,266	84,556	21,290
Regulatory Expense	8,330	22,121	13,791
Bad Debts Provision	67,740	109,695	41,955
Total Administrative and General Expense	707,442	907,422	199,979
Depreciation Expense	1,759,065	1,528,175	(230,890)
Contractual Expense			
Audit & Computer Maint.	20,793	57,064	36,271
Building rental	36,603	36,603	(0)
Equipment rental	74,284	85,582	11,299
Legal	-	-	-
Laboratory	34,382	34,529	146
Other	42,728	200,242	157,514
Total Contractual Expense	208,791	414,021	205,230
Retiree Supp. Annuities and health care costs	244,839	237,462	(7,377)
Contribution to Government of Guam	50,000	49,833	(167)
Total Retiree Benefits	294,839	287,295	(7,544)
Total Operating Expenses	6,939,065	6,737,287	(201,778)
Earnings (Loss) from Operations	2,291,847	2,401,748	(109,900)
Interest Income-2010/13/14/16/17 Series Bond	327,419	255,374	72,045
Interest Income-Other Funds	48,250	45,645	2,606
Interest Income-SDC	16,338	13,852	2,486
Interest Expense- 2010/13/14/16/17 Series Bond	(2,137,785)	(2,177,468)	39,683
Interest Expense- ST BOG	(9,543)	(30,702)	21,159
Federal Expenditures	-	(62,220)	62,220
Loss on Asset Disposal	-	(162,136)	162,136
AFUDC	625,000	1,041,766	(416,766)
Amortization of Discount, Premium and Issuance Costs	119,709	(42,691)	162,400
Defeasance due to bond refunding	(11,020)	(12,444)	1,424
Deferred outflows from pension	8,514	32,592	(24,078)
Prior Year Adjustment	-	(9,304)	9,304
Total non-operating revenues (expenses)	(1,013,117)	(1,107,736)	94,618
Net Income (Loss) before capital contributions	1,278,730	1,294,012	(15,282)
Capital Contributions			
Grants from US Government	140,053	1,244,712	(1,104,659)
Grants from GovGuam & Others	-	22,681	(22,681)
Total Capital Contributions	140,053	1,267,392	(1,127,339)
Change in Net Assets	1,418,783	2,561,404	(1,142,621)
Debt Service Calculation			
Earnings From Operations	2,291,847	2,401,748	
System Development Charge	(91,670)	(89,249)	
Retiree COLA	50,000	49,833	
Interest/Investment Income	48,250	45,645	
Depreciation	1,759,065	1,528,175	
Balance Available for Debt Service per Section 6.12	4,057,493	3,936,152	
Working Capital Reserve Available for Debt Service	946,431	945,164	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	5,003,923	4,881,316	
Debt Service			
Principal	476,250	433,333	
Interest	2,137,785	1,794,910	
Total	2,614,035	2,228,243	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.55	1.77	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.91	2.19	

SCHEDULE F
As of 10/31/18

Bond Compliance		**($$$)**	**($$$)**
		Per Indenture	**Bond 2010/2013/2014/2016/2017**
• Operation and Maintenance Fund-BOG	*Equivalent to 55 days of the annual O&M budget less depreciation*	$9.7M	$9.7M
• Bond Reserve Fund - US Bank	*Fully funded- Principal and Interest (Bond Series 2010, 2013, 2014 Refunding, 2016 and 2017 Refunding)*	$35.2M	$35.2M
• Operation, Maintenance, Renewal and Replacement Reserve Fund-BOG Trust	*Equivalent to 1/4 of the annual O&M budget & CIP budget to be funded in 5 years ($2M/year)*	$17.4M	$17.4M
• Capital Improvement Fund	*Balance remaining in the Revenue Fund after the foregoing deposits*	$3.9K	$26.2K

GUAM WATERWORKS AUTHORITY
Restricted and Unrestricted Cash Summary
FY2019

SCHEDULE G

Description	Unaudited October 31, 2018	Unaudited September 30, 2018	Increase (Decrease)
UNRESTRICTED			
Change Fund	2,000	2,000	-
Petty Cash	5,000	5,000	-
BOG - Deposit Accounts	948,500	3,086,944	(2,138,444)
Sub-total Unrestricted	**955,500**	**3,093,944**	**(2,138,444)**
RESTRICTED			
Collection Accounts	110,412	227,173	(116,762)
BOG Deposit Accounts	7,871,006	7,817,743	53,263
BP Deposit Accounts	1,048,240	959,151	89,088
BOG Revenue Trust Fund	7,175,901	6,535,779	640,122
BOG O & M Reserve	13,684,426	13,666,109	18,316
BOG Debt Service Reserve	11,357,168	11,341,967	15,201
BOG CAPEX Fund	16,095,106	16,073,011	22,095
	57,342,259	**56,620,933**	**721,325**
BOG - SDC Deposit	2,737,447	2,935,050	(197,604)
BOG - SDC CDs	7,500,000	7,250,000	250,000
Total Restricted	**67,579,705**	**66,805,984**	**773,721**
Reserve Funds			
BOG Series 05 OMRRRF Fund	17,423,213	17,423,213	-
BOG Series 13 Construction Fund	33,983,886	36,222,062	(2,238,176)
BOG Series 14 Refunding Construction Fund	742,890	741,895	994
BOG Series 16 Construction Fund	110,116,238	116,036,000	(5,919,762)
BOG Series 17 Refunding Construction Fund	6,762,970	6,753,709	9,261
Total Restricted - Held by Trustee	**169,029,197**	**177,176,880**	**(8,147,683)**
USB Series 2013 Debt Service Fund	3,140,770	2,360,451	780,319
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Fund	2,436,022	1,833,235	602,787
USB Series 2014 Refunding Debt Service Reserve Fund	8,013,929	7,972,243	41,686
USB Series 2016 Debt Service Fund	2,404,729	1,805,556	599,173
USB Series 2016 Debt Service Reserve Fund	7,594,606	7,594,603	3
USB Series 2010 Debt Service Fund	669,719	503,751	165,968
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	1,904,715	1,429,927	474,789
Total Investments	**45,762,638**	**43,097,913**	**2,664,725**
Total Restricted and Unrestricted Cash	**283,327,040**	**290,174,720**	**(6,847,680)**

SCHEDULE H

Guam Waterworks Authority **Statement of Cash Flows (Unaudited)** **FY2019**	**YTD** **Oct-18**
Increase (decrease) in cash	
Cash flows from operating activities:	
Cash received from trade and others	8,909,404
Cash payments to suppliers/contractors for goods and services	(3,979,056)
Cash payments to employees for services	(3,029,021)
Net cash provided by operating activities	1,901,327
Cash flows from capital and related financing activities:	
Contributed capital received (grants)	1,470,406
Acquisition of utility plant	(10,371,016)
Repayment of Long Term Debt	(380,851)
Interest expense	93,345
Net cash provided by (used in) capital and related financing activities	(9,188,116)
Cash flows from investing activities:	
Transfers from (to) restricted fund	4,772,675
Interest income received	375,670
Net cash provided by investing activities	5,148,345
Net increase (decrease) in cash	(2,138,444)
Unrestricted cash at beginning of the period	3,093,944
Unrestricted cash at end of period	955,500
Reconciliation of operating loss to net cash provided by operating activities:	
Operating Income (loss)	2,200,177
Adjustments to reconcile to net cash provided by operating activities:	
Depreciation expense	1,759,065
Other Expense/income	59,226
(Increase) decrease in assets:	
Accounts receivable	(232,676)
Materials and supplies inventory	(103,182)
Other Assets	(897,387)
Increase (decrease) in liabilities:	
Accounts payable, Contractors, Retention & Escrow Deposit	(181,550)
Accrued payroll	(705,183)
Customer deposits	2,839
Net cash provided by operating activities	1,901,327

Guam Waterworks Authority
Accounts Receivable Aging - Government
As of October 31, 2018

SCHEDULE I

A G I N G

Customer Name	No of Accounts	Current	31-60 days	61-90 days	91-120 days	Over 120 days	Outstanding Bal.
Guam Int'l Airport Authority	5	$ 33,785	$ 29,460	$ 29,558	$ 31,837	$ 188,055	$ 312,695
Guam Memorial Hospital Authority	3	30,713	36,580	-	-	-	67,293
Port Authority of Guam	3	47,375	16,652	-	-	-	64,027
Guam Power Authority	24	18,439	-	-	-	6,705	25,145
Guam Housing & Urban Renewal Authority	9	8,056	200	-	-	1,067	9,324
University of Guam	2	8,285	-	-	-	-	8,285
Guam Economic Development Authority	1	-	-	-	-	4,860	4,860
GHURA - Agafa Gumas Park	1	-	-	-	-	1,117.01	1,117.01
Guam Housing Corporation	1	31	-	-	-	-	31
	49	**$ 146,683**	**$ 82,892**	**$ 29,558**	**$ 31,837**	**$ 201,804**	**$ 492,775**
Department of Parks & Recreation	22	160,820	139,495	92,112	89,323	569,325	1,051,075
Department of Education	48	202,569	206,976	86,033	1,376	-	496,954
Department of Public Health & Social Services	7	7,476	7,230	3,176	418	95,046	113,347
Department of Corrections	2	25,192	-	-	-	-	25,192
Department of Public Works	11	12,093	-	-	-	7,220	19,313
Mayors Council of Guam	55	13,499	931	24	24	33	14,510
Guam Fire Department	11	8,002	2,151	1,493	437	-	12,083
Department of Military Affairs/GUARNG	1	3,564	1,996	-	-	-	5,560
Office of The Governor	2	5,161	-	-	-	-	5,161
Guam Police Department	2	2,101	-	-	-	-	2,101
Department of Chamorro Affairs	2	1,980	-	-	-	-	1,980
Department of Agriculture	2	1,889	-	-	-	-	1,889
Guam Visitors Bureau	1	1,597	-	-	-	-	1,597
Department of Youth Affairs	4	487	23	1,068	-	-	1,579
Guam Solid Waste Authority	2	1,381	-	-	-	-	1,381
Sanctuary Inc	1	1,248	-	-	-	-	1,248
Division of Senior Citizens, DPH&SS	2	412	148	193	9	-	763
Guam Veterans Affairs Office	2	242	255	-	-	-	498
Department of Mental Health	1	412	-	-	-	-	412
Department of Customs & Quarantine	1	389	-	-	-	-	389
Department of Administration	1	282	-	-	-	-	282
The Office of the Dededo Mayor	1	233	-	-	-	-	233
Guam Public Library	4	173	-	-	-	-	173
Merizo Mayor	1	85	56	-	-	-	141
Guam Energy Office	1	73	-	-	-	-	73
	187	**$ 451,357**	**$ 359,262**	**$ 184,100**	**$ 91,588**	**$ 671,624**	**$ 1,757,931**
TOTAL October 31, 2018	**242**	**$ 601,613**	**$ 442,315**	**$ 213,658**	**$ 123,425**	**$ 873,428**	**$ 2,254,439**
TOTAL September 30, 2018	**326**	**$ 793,948**	**$ 424,797**	**$ 324,413**	**$ 190,444**	**$ 975,977**	**$ 2,709,580**
% INCREASE/ (DECREASE)	**-26%**	**-24%**	**4%**	**-34%**	**-35%**	**-11%**	**-17%**

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

SCHEDULE J

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 10/31/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 10/31/18
Santa Rita Springs Booster Pump Rehab Phase II	$ 100,000	$ 100,000	100,000	-	$ 100,000	$ -	$ -
"A" Series Well Transmission Line	$ 400,000	$ 369,846	369,846	(0)	$ 369,846	$ 0	$ 0
Water Booster Pump Station	$ 6,000,000	$ 1,679,964	1,656,428	23,536	$ 1,679,964	$ 0	$ 23,536
Meter Replacement Program		$ 996,532	996,532	-	$ 996,532	$ (0)	$ (0)
Barrigada Tank Repair/Replacement	$ 6,000,000	$ 4,987,000	4,924,959	61,652	$ 4,986,611	$ 389	$ 62,041
Leak Detection	$ 100,000	$ 16,916	16,916	(0)	$ 16,916	$ 0	$ (0)
Potable Water System Planning	$ 800,000	$ 624,000	603,390	20,610	$ 624,000	$ -	$ 20,610
Implement Ground Water Rule	$ 1,000,000	$ 1,000,000	1,000,000	-	$ 1,000,000	$ -	$ -
Deep Well Rehabilitation	$ 800,000	$ 200,000	189,930	10,071	$ 200,000	$ (0)	$ 10,070
New Deep Wells at Down Hard	$ 2,000,000	$ -	-	-	$ -	$ -	$ -
Master Meters	$ 4,000,000	$ 712,060	531,188	180,872	$ 712,060	$ (0)	$ 180,872
Ugum Water Treatment Plant Intake	$ 1,000,000	$ 859,801	424,202	435,599	$ 859,801	$ (0)	$ 435,599
Water Wells	$ 4,200,000	$ 3,030,029	2,214,198	31,324	$ 2,245,522	$ 784,507	$ 815,832
Water Distribution System	$ 12,000,000	$ 10,912,453	8,274,385	2,335,599	$ 10,609,984	$ 302,469	$ 2,638,068
Pressure Zone Realignment /	$ 1,000,000	$ 337,110	336,036	1,074	$ 337,110	$ 0	$ 1,074
Mechanical/Electrical Equipment	$ 430,000	$ 426,799	261,981	164,818	$ 426,799	$ -	$ 164,818
Water Reservoir Internal/External	$ 800,000	$ -	-	-	$ -	$ -	$ -
Water System Reservoirs 2005 Improvements	$ 21,000,000	$ 13,878,000	11,803,314	2,074,686	$ 13,878,000	$ -	$ 2,074,686
Ugum Water Treatment Plant Reservoir	$ 7,000,000	$ -	-	-	$ -	$ -	$ -
Agana Heights & Chaot Tanks	$ 4,500,000	$ 1,330,287	241,753	1,088,534	$ 1,330,287	$ (0)	$ 1,088,534
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 13,500,000	$ 11,605,000	10,140,489	1,464,136	$ 11,604,625	$ 375	$ 1,464,511
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 8,000,000	$ -	-	-	$ -	$ -	$ -
Assessment of malojloj Elevetad & Yigo Elevated	$ 500,000	$ 485,117	461,813	23,304	$ 485,117	$ -	$ 23,304
Fire Hydrant Replacement Program	$ -	$ -	-	-	$ -	$ -	$ -
		$ -					
Wastewater System Planning	$ 800,000	$ 650,901	566,364	84,537	$ 650,901	$ 0	$ 84,537
Lift Station Upgrades	$ 5,000,000	$ 563,148	653,744	(90,596)	$ 563,148	$ 0	$ (90,596)
Wastewater Collection System Repl/Rehab	$ 6,500,000	$ 660,313	578,438	81,875	$ 660,313	$ -	$ 81,875
Baza Gardens STP Replacement		$ 9,656,874	2,688,166	6,938,514	$ 9,626,679	$ 30,195	$ 6,968,708
Facilities Plan/Design for Umatac-Merizo WWTP		$ 371,699	364,527	7,172	$ 371,699	$ 0	$ 7,172
Agat/Santa Rita STP Replacement	$ 19,000,000	$ 67,200,000	51,866,710	14,998,891	$ 66,865,601	$ 334,399	$ 15,333,290
Agana WWTP Interim Measures		$ 673,000	660,751	12,249	$ 673,000	$ 0	$ 12,249
Umatac Merizo Replacement	$ 2,000,000	$ -	-	-	$ -	$ -	$ -
		$ -					
Wastewater Pump Station Electrical Upgrade	$ 620,000	$ 99,861	94,964	4,897	$ 99,861	$ -	$ 4,897
Electrical Upgrade - Water Wells	$ 1,500,000	$ 1,500,000	1,487,413	12,587	$ 1,500,000	$ 0	$ 12,587
Electrical Upgrade - Water Booster	$ 325,000	$ -	-	-	$ -	$ -	$ -
Electrical Upgrade -Water Booster	$ 350,000	$ 977	977	-	$ 977	$ -	$ -
Electrical Upgrade - Other Water	$ 250,000	$ 60,700	60,700	-	$ 60,700	$ -	$ -
SCADA Improvements – Phase 3	$ 1,850,000	$ 722,359	460,592	261,767	$ 722,359	$ -	$ 261,767
SCADA Improvements – Phase 4	$ 500,000	$ -	-	-	$ -	$ -	$ -
		$ -					$ -
Laboratory Modernization	$ 1,500,000	$ 1,171,465	1,163,037	7,785	$ 1,170,822	$ 643	$ 8,428
Land Survey	$ 2,000,000	$ 1,052	1,038	15	$ 1,053	$ (1)	$ 15
General Plant Improvements / Water	$ 2,000,000	$ 2,441,737	1,350,918	1,090,820	$ 2,441,737	$ (0)	$ 1,090,819
Allowance for COI							$ 275,005
Interest Earned							$ 929,575
Total Construction Fund (2013 Series Revenue Bond)	**$ 139,325,000**	**$ 139,325,000**	**$ 106,545,694**	**$ 31,326,330**	**$ 137,872,024**	**$ 1,452,976**	**$ 33,983,886**

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

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

SCHEDULE K

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	ADJUSTED PROJECT COST	EXPENDITURES AS OF 10/31/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	20% PUC AS OF 10/31/18	CONSTRUCTION FUND BALANCE AS OF 10/31/18
Agana Treatment Plant	$ 10,475,000	$ 11,065,512	11,065,512	$ -	$ 11,065,512	$ (0)	$ 2,095,000	$ (0)
Agana Outfall	$ 5,030,000	$ 10,127,198	10,127,198	$ -	$ 10,127,198	$ 0	$ 1,006,000	$ 0
Northern District (Outfall)	$ 4,700,000	$ 10,251,423	10,251,423	$ -	$ 10,251,423	$ 0	$ 940,000	$ 0
Northern District WWTP Upgrade		$ 173,681	173,681		$ 173,681	$ -		$ -
Baza Gardens Wastewater Treatment Plant	$ 500,000	$ 297,177	297,177	$ -	$ 297,177	$ (0)	$ 100,000	$ (0)
Interim Disinfection Facilities	$ 581,000	$ 3,437,311	3,408,599	$ 28,712	$ 3,437,311	$ (0)	$ 116,200	$ 28,712
Electrical Protection	$ 1,000,000	$ 1,512,483	1,512,483.3	$ -	$ 1,512,483	$ (0)	$ 200,000	$ (0)
Well Vulnerability Reduction	$ 600,000	$ 185,522	185,522	$ -	$ 185,522	$ 0	$ 120,000	$ 0
Old Agat Wastewater Collection (I/I Reducti	$ 2,155,000	$ 1,931,659	1,931,659	$ -	$ 1,931,659	$ (0)	$ 431,000	$ (0)
Chaot WW Pump Station/Collection System	$ 410,000	$ 399,120	399,120	$ -	$ 399,120	$ -	$ 82,000	$ -
Lift Station Upgrades	$ 230,000	$ 149,895	149,895	$ -	$ 149,895	$ 0	$ 46,000	$ 0
Collection Line Upgrades	$ 200,000	$ 62,755	62,755	$ -	$ 62,755	$ 0	$ 40,000	$ 0
"A" Well Transmission Line	$ 2,413,000	$ 3,833,175	3,818,088	$ 15,087	$ 3,833,175	$ (0)	$ 482,600	$ 15,087
Santa Rita Springs - Booster Pump Rehab.	$ 648,000	$ 306,841	306,841	-	$ 306,841	$ (0)	$ 129,600	$ (0)
Fena Bypass Transmission line		$ 160,913	160,913	$ -	$ 160,913	$ (0)	$ -	$ (0)
Storage Additions	$ 950,000	$ -			$ -	$ -	$ 190,000	$ -
Booster Station Upgrades	$ 390,000	$ 66,734	66,734	$ -	$ 66,734	$ -	$ 78,000	$ -
Mangilao Tank Repair	$ 800,000	$ 398,367	397,933	$ 434	$ 398,367	$ (0)	$ 160,000	$ 434
Ugum Tank Replacement	$ 2,500,000	$ -			$ -	$ -	$ 500,000	$ -
Ugum WTPlant Refurbishment ($1.724,970EPA)		$ 6,588,473	6,531,525	$ 56,949	$ 6,588,473	$ (0)		$ 56,948
Barrigada Tank Repair/Replacement	$ 3,000,000	$ 65,019	65,019	$ -	$ 65,019	$ 0	$ 600,000	$ 0
Water Reservoir Condition Assessment		$ 1,250,000	1,249,227.16	$ 772	$ 1,250,000	$ 0	$ -	$ 773
EarthTech Well Buyout	$ 5,000,000	$ 5,975,000	5,975,000	$ -	$ 5,975,000	$ -	$ 1,000,000	$ -
Water Wastewater Master Plan	$ 4,900,000	$ 4,881,308	4,881,308	$ -	$ 4,881,308	$ 0	$ 980,000	$ 0
Laboratory Modernization	$ 800,000	$ 135,055	135,055	$ -	$ 135,055	$ 0	$ 160,000	$ 0
Land Survey	$ 800,000	$ 577,836	576,134	$ 1,702	$ 577,836	$ 0	$ 160,000	$ 1,702
Ground Water Disinfection		$ -				$ -		$ -
GWUDI Study		$ 262,234	260,430	1,804	$ 262,234	$ -		$ 1,804
Contingency	$ 12,276,023	$ 154	-	$ -	$ -	$ -		$ 732
Vehicles	$ 1,100,000	$ 1,280,000	2,130,305	$ (850,305)	$ 1,280,000	$ -	$ 220,000	$ -
Generation Equipment	$ 700,000	$ 880,000	2,712	$ 877,288	$ 880,000	$ 0		$ 27,033
Leak Detection/Line Replacement	$ 8,200,000	$ 5,988,494	5,988,494	$ -	$ 5,988,494	$ -	$ 1,640,000	$ -
Automated Meter Reading	$ 12,572,063	$ 17,468,359	16,870,522	$ 537,157	$ 17,468,359.32	$ 0	$ 2,514,413	$ 597,837
Total Construction Fund (2014 Series Refu	$ 82,930,086	$ 89,711,698	$ 88,981,263	$ 669,600	$ 89,711,543	$ 1	$ 13,990,813	$ 731,063
Interest Earned	$ 6,781,612	$ (0)				$ (0)		$ 11,827
Total Project Cost Funding	**$ 89,711,698**	**$ 89,711,698**	**$ 88,981,263**	**$ 669,600**	**$ 89,711,543**	**$ 1**	**$ 13,990,813**	**$ 742,890**

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

SCHEDULE L

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	ADJUSTED PROJECT COST	EXPENDITURES AS OF 10/31/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	CONSTRUCTION FUND BALANCE AS OF 10/31/18
Water Booster Pump Station	$ 4,139,000	$ -	$ -	$ -	$ -	$ -	$ -
Meter Replacement Program	$ 4,501,000	$ 1,400,000	$ 149,970	$ 30	$ 150,000	$ 1,250,000	$ 1,250,030
Barrigada Tank Repair/Replacement	$ 1,013,000	$ -	$ -	$ -	$ -	$ -	$ -
Leak Detection	$ 1,180,000	$ 100,000	$ -	$ -	$ -	$ 100,000	$ 100,000
Potable Water System Planning	$ 2,276,000	$ 876,294	$ 535,947	$ 340,347	$ 876,294	$ -	$ 340,347
Deep Well Rehabilitation	$ 250,000	$ 250,000	$ 203	$ 109,810	$ 110,013	$ 139,987	$ 249,797
New Deep Wells at Down Hard	$ 1,190,000	$ 1,190,000	$ -	$ -	$ -	$ 1,190,000	$ 1,190,000
Master Meters	$ 3,616,000	$ 2,151,539	$ 151,539	$ -	$ 151,539	$ 2,000,000	$ 2,000,000
Ugum Water Treatment Plant Intake	$ 18,000	$ -	$ -	$ -	$ -	$ -	$ -
Water Wells	$ 2,500,000	$ 2,500,000	$ -	$ 39,703	$ 39,703	$ 2,460,297	$ 2,500,000
Water Distribution System	$ 2,049,000	$ -	$ -	$ -	$ -	$ -	$ -
Pressure Zone Realignment /	$ 1,141,000	$ 1,141,000	$ -	$ 741,000	$ 741,000	$ 400,000	$ 1,141,000
Mechanical/Electrical Equipment	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ -
Water Reservoir Internal/External	$ 800,000	$ 800,000	$ -	$ 800,000	$ 800,000	$ -	$ 800,000
Water System Reservoirs 2005 Improvements	$ 42,350,000	$ 58,830,170	$ 2,844,339	$ 13,282,543	$ 16,126,882	$ 42,703,288	$ 55,985,831
Ugum Water Treatment Plant Reservoir	$ 6,410,000	$ -	$ -	$ -	$ -	$ -	$ -
Water Audit Program & Water Loss Control Plan	$ 1,000,000	$ 550,000	$ -	$ 389,562	$ 389,562	$ 160,438	$ 550,000
Agana Heights & Chaot Tanks	$ 1,220,000	$ 1,220,000	$ -	$ 500,000	$ 500,000	$ 720,000	$ 1,220,000
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 1,895,000	$ 1,822,133	$ -	$ 1,822,133	$ 1,822,133	$ 0	$ 1,822,133
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 10,500,000	$ 7,300,000	$ -	$ 7,300,000	$ 7,300,000	$ -	$ 7,300,000
Fire Hydrant Replacement Program	$ 2,000,000	$ 1,200,000	$ -	$ -	$ -	$ 1,200,000	$ 1,200,000
Wastewater System Planning	$ 349,000	$ 312,983	$ 261,988	$ 50,995	$ 312,983	$ -	$ 50,995
Lift Station Upgrades	$ 2,404,000	$ 1,714,755	$ 232,880	$ 510,620	$ 743,500	$ 971,255	$ 1,481,875
Wastewater Collection System Repl/Rehab	$ 2,920,000	$ 1,055,478	$ 21,090	$ 537,401	$ 558,491	$ 496,987	$ 1,034,388
Baza Gardens STP Replacement	$ 16,700,000	$ 22,663,776	$ 16,920,723	$ 5,743,052	$ 22,663,775	$ 1	$ 5,743,053
Facilities Plan/Design for Umatac-Merizo WWTP	$ 527,000	$ 252,105	$ 239,065	$ 13,040	$ 252,105	$ -	$ 13,040
Agat/Santa Rita STP Replacement	$ 3,000,000	$ 2,002,331	$ 1,427,742	$ 514,590	$ 1,942,332	$ 59,999	$ 574,589
Agana WWTP Interim Measures	$ 827,000	$ -			$ -	$ -	$ -
Umatac Merizo Replacement	$ 8,000,000	$ 20,800,000	$ 5,881,277	$ 14,835,698	$ 20,716,975	$ 83,025	$ 14,918,723
Wastewater Pump Station Electrical Upgrade	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ -
Electrical Upgrade - Water Wells	$ 650,000	$ -	$ -	$ -	$ -	$ -	$ -
Electrical Upgrade - Water Booster	$ 323,000	$ -	$ -	$ -	$ -	$ -	$ -
SCADA Improvements – Phase 3	$ 1,177,000	$ 1,077,497	$ 409,675	$ 392,328	$ 802,003	$ 275,494	$ 667,822
SCADA Improvements – Phase 4	$ 6,500,000	$ 4,378,118	$ 141,615	$ 3,802,134	$ 3,943,749	$ 434,369	$ 4,236,503
Laboratory Modernization	$ 1,127,000	$ 1,127,000	$ 1,127,000	$ -	$ 1,127,000	$ -	$ -
Land Survey	$ 1,998,000	$ 1,260,524	$ 494,009	$ 766,514	$ 1,260,524	$ 0	$ 766,515
General Plant Improvements / Water	$ 2,769,463	$ 1,543,760	$ 716,554	$ 790,097	$ 1,506,652	$ 37,108	$ 827,206
Information Technology Integration Improvements	$ 500,000	$ 500,000	$ 244,068	$ -	$ 244,068	$ 255,932	$ 255,932
Interest Earned		$ -					$ 1,896,459
Total Construction Fund (2016 Series Revenue E	**$ 140,019,463**	**$ 140,019,463**	**$ 31,799,684**	**$ 53,281,597**	**$ 85,081,282**	**$ 54,938,181**	**$ 110,116,238**

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

SCHEDULE M

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	ADJUSTED PROJECT COST	EXPENDITURES AS OF 10/31/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	CONSTRUCTION FUND BALANCE AS OF 10/31/18
Ground Water Disinfection	$ -	$ 500,000	$ 438,141	$ 61,859	$ 500,000	$ 0	$ 61,859
"A" Series Well Transmission Line	$ 600,000	$ 475,709	$ 474,434	$ 1,274	$ 475,709	$ 0	$ 1,275
Water Booster Pump Station	$ 500,000	$ 500,000	$ 418,844	$ 81,156	$ 500,000	$ (0)	$ 81,156
Meter Replacement Program	$ 2,500,000	$ 10,450,000	$ 10,255,079	$ 18,549	$ 10,273,628	$ 176,372	$ 194,921
Barrigada Tank Repair/Replacement	$ -	$ 5,450,000	$ 5,442,302	$ 7,698	$ 5,450,000	$ 0	$ 7,698
Leak Detection		$ 200,000	$ -	$ 200,000	$ 200,000	$ -	$ 200,000
Potable Water System Planning	$ 200,000	$ 200,000	$ 180,927	$ 19,073	$ 200,000	$ -	$ 19,073
Implement Ground Water Rule		$ 1,699,999	$ 1,499,464	$ 200,535	$ 1,700,000	$ (1)	$ 200,535
Brigade II (Ugum Lift) BPS Upgrade	$ 1,200,000	$ 1,900,000	$ 251,134	$ 81,104	$ 332,238	$ 1,567,762	$ 1,648,866
Deep Well Rehabilitation	$ 548,000	$ 548,000	$ 548,000	$ -	$ 548,000	$ -	$ -
New Deep Wells at Down Hard	$ 3,773,000	$ 485,743	$ 485,743	$ -	$ 485,743	$ 0	$ 0
Rehabilitation of Asan Springs	$ 900,000	$ 1,100,000	$ 188,771	$ 152,068	$ 340,838	$ 759,162	$ 911,229
Master Meters	$ 1,600,000	$ 1,489,957	$ 1,421,267	$ 68,690	$ 1,489,957	$ (0)	$ 68,690
Ugum Water Treatment Plant Intake	$ 3,670,000	$ 700,000	$ 543,615	$ 156,385	$ 700,000	$ -	$ 156,385
Water Wells	$ 2,000,000	$ -	$ -		$ -	$ -	$ -
Water Distribution System	$ 384,000	$ 3,174,748	$ 3,174,748	$ -	$ 3,174,748	$ (0)	$ (0)
Pressure Zone Realignment /	$ 3,550,000	$ -	$ -		$ -	$ -	$ -
Northern System Water Distribution	$ 2,725,000	$ -	$ -	$ -	$ -	$ -	$ -
Central Water Distribution System 2005	$ 1,200,000	$ 775,002	$ 730,182	$ 44,820	$ 775,002	$ (0)	$ 44,820
Southern Water Distribution System	$ 1,800,000	$ -	$ -		$ -	$ -	$ -
Mechanical/Electrical Equipment	$ 1,360,000	$ 1,200,000	$ 1,079,495	$ 120,505	$ 1,200,000	$ (0)	$ 120,505
Water Reservoir Internal/External	$ 500,000	$ 2,150,000	$ 1,083,817	$ 429,866	$ 1,513,683	$ 636,317	$ 1,066,183
Water Reservoir Internal/External	$ 2,400,000	$ -	$ -		$ -	$ -	$ -
Water System Reservoirs 2005 Improvements	$ 11,697,000	$ 1,050,000	$ 1,050,000		$ 1,050,000	$ 0	$ 0
Distribution System Upgrades	$ 3,182,000	$ 474,160	$ 456,678	$ 17,481	$ 474,160	$ 0	$ 17,482
Ugum Water Treatment Plant Reservoir	$ 3,672,000	$ -	$ -		$ -	$ -	$ -
Water Audit Program & Water Loss Control Plan		$ 78,459	$ 15,031	$ 63,428	$ 78,459	$ 0	$ 63,429
Production Plan / Reduce Navy Purchases		$ 100,000	$ 94,286	$ 5,714	$ 100,000	$ -	$ 5,714
Hydraulic Asessment of Tank		$ 500,000	$ 497,004	$ 2,996	$ 500,000	$ -	$ 2,996
Agana Heights & Chaot Tanks		$ 4,700,000	$ 4,350,014	$ 349,986	$ 4,700,000	$ -	$ 349,986
Tank Major Repair Yigo#1 Mangilao#2 Agat#2		$ 1,848,013	$ 1,765,504	$ 82,510	$ 1,848,013	$ (0)	$ 82,509
Tank Major Repair Yigo#1 Mangilao#2 Agat#2		$ -			$ -	$ -	$ -
Assessment of malojloj Elevetad & Yigo Elevated		$ 200,000	$ 200,000	$ -	$ 200,000	$ -	$ -
Public Water System Asser Inventory/Condition Assesment		$ 100,000	$ 98,414	$ 1,586	$ 100,000	$ -	$ 1,586
Public Water System GIS & Mapping		$ 50,000	$ 50,000	$ -	$ 50,000	$ -	$ -
Wastewater System Planning	$ 1,500,000	$ 1,474,000	$ 1,468,176	$ 5,824	$ 1,474,000	$ -	$ 5,824
Wastewater Vehicles	$ 235,000	$ 235,000	$ 209,795	$ 25,205	$ 235,000	$ 0	$ 25,205
NDWWTP - Chlorine Tanks	$ 250,000	$ 250,000	$ 250,000		$ 250,000	$ -	$ -
Tumon Bay Sewer Upgrades	$ 100,000	$ -	$ -		$ -	$ -	$ -
Wastewater Collection System Repl/Rehab		$ 1,001,323	$ 723,591	$ 187,564	$ 911,155	$ 90,168	$ 277,732
Facilities Plan/Design for Baza Gardens WWTP	$ 1,250,000	$ 1,250,000	$ 1,245,244	$ 4,756	$ 1,250,000	$ -	$ 4,756
Facilities Plan/Design for Agat-Santa Rita WWTP	$ 900,000	$ 899,630	$ 891,702	$ 7,928	$ 899,630	$ -	$ 7,928
Priority 1 Sewer Upgrades – Baza Gardens WWTP	$ 650,000	$ -	$ -		$ -	$ -	$ -
Baza Gardens STP Replacement	$ 3,567,000	$ 1,488,378	$ 1,151,947	$ 314	$ 1,152,261	$ 336,117	$ 336,431
Facilities Plan/Design for Umatac Merizo WWTP		$ 853,858	$ 760,845	$ 93,013	$ 853,858	$ (0)	$ 93,013
Agat/Santa Rita STP Replacement	$ 2,968,000	$ 2,217,700	$ 2,217,314	$ 387	$ 2,217,701	$ (1)	$ 386
Northern District WWTP Primary Treatment Upgrades	$ -	$ 11,743,514	$ 11,532,253	$ 25,059	$ 11,557,313	$ 186,201	$ 211,261
Biosolids Management Plan		$ 200,000	$ 196,414	$ 3,586	$ 200,000	$ -	$ 3,586
Agana WWTP Interim Measures	$ -	$ 11,300,000	$ 11,254,925	$ 45,076	$ 11,300,000	$ (0)	$ 45,075
I&I SSES Southern		$ 800,000	$ 794,722	$ 5,278	$ 800,000	$ (0)	$ 5,278
I&I SSES Central		$ 850,000	$ 794,325	$ 55,675	$ 850,000	$ -	$ 55,675
I&I SSES Northern		$ -			$ -	$ -	$ -
Umatac Merizo Replacement		$ 250,000	$ 247,431	$ 2,569	$ 250,000	$ -	$ 2,569
Northern District WWTP Secondary Treatment Upgrades		$ 1,000,000	$ 948,250	$ -	$ 948,250	$ 51,750	$ 51,750
Well Electrical Protection	$ 26,000	$ -	$ -		$ -	$ -	$ -
SCADA Pilot Project	$ 300,000	$ 61,950	$ 19,812	$ 42,138	$ 61,950	$ (0)	$ 42,138
Electrical Upgrade - Water Wells	$ 3,000,000	$ 354,227	$ 339,948	$ 14,278	$ 354,227	$ 0	$ 14,279
Electrical Upgrade - Water Booster	$ 325,000	$ -	$ -		$ -	$ -	$ -
Electrical Upgrade -Water Booster	$ 350,000	$ -	$ -		$ -	$ -	$ -
Electrical Upgrade - Other Water	$ 250,000	$ -			$ -	$ -	$ -
SCADA Improvements – Phase 1	$ 250,000	$ 250,000	$ 194,849	$ 55,151	$ 250,000	$ -	$ 55,151
SCADA Improvements – Phase 2	$ 1,100,000	$ 1,056,986	$ 1,028,284	$ 28,702	$ 1,056,986	$ -	$ 28,702
SCADA Improvements – Phase 3	$ 2,500,000	$ 24,956	$ 24,956	$ -	$ 24,956	$ 0	$ 0
SCADA Improvements – Phase 4	$ 850,000	$ -	$ -		$ -	$ -	$ -
Laboratory Modernization	$ 1,200,000	$ -	$ -		$ -	$ -	$ -
Land Survey	$ 1,500,000	$ 499,688	$ 471,450	$ 28,237	$ 499,687	$ 1	$ 28,238
General Plant Improvements / Water	$ 14,370,000	$ 7,241,000	$ 7,241,000	$ 0	$ 7,241,000	$ 0	$ 0
Interest Earned							$ 161,097
Total Construction Fund (2010 Series Revenue Bond)	**$ 87,402,000**	**$ 87,402,000**	**$ 80,800,127**	**$ 2,798,024**	**$ 83,598,151**	**$ 3,803,849**	**$ 6,762,970**

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

GUAM WATERWORKS AUTHORITY
"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. 02-FY2019

Relative to Approving the Proposed Contract with Eurofins Eaton Analytical Inc. for Laboratory Services

What is the project's objective and is it necessary and urgent?
The objective is to provide a US Environmental Protection Agency certified lab services for analysis of water and wastewater samples provided by GWA. The laboratory services are necessary and urgent to comply with federal and local laws and regulations.

Where is the location?
Samples will be collected from GWA facilities around the island, and prepared for shipment at the new GWA Laboratory facility in upper Tumon. EPA-certified laboratory services will be provided from Eurofins' laboratory facilities within California.

How much will it cost?
The cost per year is $405,638.00 with a total cost of $1,216,914.00 for three (3) years.

When will it be completed?
The contract is set for a term of 3 years with an option to extend to a total of 5 years.

What is the funding source?
Internal cash flow.

The RFP/BID responses (if applicable):

- 9 downloaded
- 1 submitted
- Eurofin Eaton Analytical Inc. awarded the bid.

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

RESOLUTION NO. 02-FY2019

RELATIVE TO APPROVING THE PROPOSED CONTRACT WITH EUROFINS EATON ANALYTICAL INC. FOR LABORATORY TESTING SERVICES

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 Laboratory Services Contract GWA was looking to replace was competitively procured in 2013 with the contract going into effect on August 2, 2013 and after completing two extensions was set to expire on August 2, 2018; and

WHEREAS, on May 7, 2018, GWA put out an Invitation for Bid (IFB) for an Indefinite Quantity / Indefinite Delivery (ID/IQ) contract that was opened on May 23, 2018, soliciting bid proposals from experienced and responsive bidders for a US Environmental Protection Agency certified lab to analyze water and wastewater sample provided by the Guam Waterworks Authority ("GWA") in a manner that meets the "Standardized Monitoring Requirements" established by the Guam Environmental Protection Agency as provided under the Safe Drinking Water Act and the Guam Primary and Secondary Safe Drinking Water Regulations; and

WHEREAS, after a thorough analysis of the two bids offered at that time, GWA determined that neither bidder was entirely responsive to the technical requirements set forth in the procurement and all bids were rejected; and

WHEREAS, the procurement documents were revised by GWA regulatory and compliance personnel in preparation to re-bid the solicitation; and

WHEREAS, on September 10, 2018, GWA advertised by Invitation for Bid (IFB) 2018-33 soliciting ID/IQ bid proposals from experienced and responsive bidders for a US Environmental Protection Agency certified lab to analyze water and wastewater sample provided by the Guam Waterworks Authority ("GWA") in a manner that meets the "Standardized Monitoring Requirements" established by the Guam Environmental Protection Agency as provided under the Safe Drinking Water Act and the Guam Primary and Secondary Safe Drinking Water Regulations; and

WHEREAS, nine (9) firms pick up a bid package, and on October 9, 2018, GWA received only one bid from Eurofins Eaton Analytical Inc. ("Eurofins") meeting the requirements of IFB 2018-33 (see Exhibit A); and

WHEREAS, on October 12, 2018, the IFB 2018-33 offers were evaluated by GWA's review committee and determined that the best offer was made by Eurofins (see Exhibit B); and

WHEREAS, On October 19, 2018, GWA issued a Notice of Conditional Award to Eurofins and received an acknowledgement of such from Eurofins on October 26, 2018 (see Exhibit C); and

WHEREAS, GWA Management seeks CCU approval of the ID/IQ contract, with an estimated total contract amount of One Million Two Hundred Sixteen Thousand Nine Hundred Fourteen Dollars ($1,216,914.00) for three (3) years, with the option to renew for an additional two (2) one (1) year terms which, if there is no escalation in price, would be Four Hundred Five Thousand Six Hundred Thirty-Eight Dollars ($405,638.00) for each additional option year; and

WHEREAS, the PUC review threshold is 120% of the total aggregate cost of the entire 5-year estimated contract term of Two Million Twenty-Eight Thousand One Hundred Ninety

Dollars ($2,028,190.00) for a total amount including the contingency of Two Million Four Hundred Thirty-Three Thousand Eight Hundred Twenty-Eight Dollars ($2,433,828.00); and

WHEREAS, GWA further seeks CCU approval to petition the PUC for its approval under the Contract Review Protocol to award the contract to Eurofins for three (3) years for the total amount of One Million Two Hundred Sixteen Thousand Nine Hundred Fourteen Dollars ($1,216,914.00), with the option to renew for an additional two (2) one (1) year terms for a total aggregate approval request of Two Million Four Hundred Thirty-Three Thousand Eight Hundred Twenty-Eight Dollars ($2,433,828.00); and

WHEREAS, the CCU has determined that GWA may use this Resolution as a justification under Section 6 of the Contract Review Protocol since no other alternatives are available, GWA received only one bid and the services sought are necessary for GWA to comply with federal and local laws and testing with certified labs is required by the U.S. Environmental Protection Agency.

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 Eurofin is reasonable, prudent and necessary (Exhibit A).
3. The CCU hereby further authorizes the management of GWA to enter into a contract with Eurofins, to analyze water and wastewater samples for the initial contract term of three (3) years as specified in the IFB 2018-33 “Indefinite Quantity Bid”, with the option to renew for an additional two (2) one (1) year terms, subject to availability of funds and agreement between parties.
4. The CCU hereby further approves the funding total of One Million Two Hundred Sixteen Thousand Nine Hundred Fourteen Dollars ($1,216,914.00) and a total five-year funding approval not to exceed Two Million Four

Hundred Thirty-Three Thousand Eight Hundred Twenty-Eight Dollars ($2,433,828.00).

5. GWA Management is authorized to seek from the PUC its approval as required under the Contract Review Protocol, to award the contract to Eurofins for the three (3) year term in the amount of One Million Two Hundred Sixteen Thousand Nine Hundred Fourteen Dollars ($1,216,914.00) with an option to renew for an additional two (2) one (1) year terms for a total aggregate amount for approval of Two Million Four Hundred Thirty-Three Thousand Eight Hundred Twenty-Eight Dollars ($2,433,828.00).
6. The CCU further determines that GWA may use this Resolution as a justification under Section 6 of the Contract Review Protocol.

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

DULY AND REGULARLY ADOPTED, this 27th day of November, 2018.

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**J. GEORGE BAMBA**
Chairperson	Secretary

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SECRETARY'S CERTIFICATE

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

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

AYES: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

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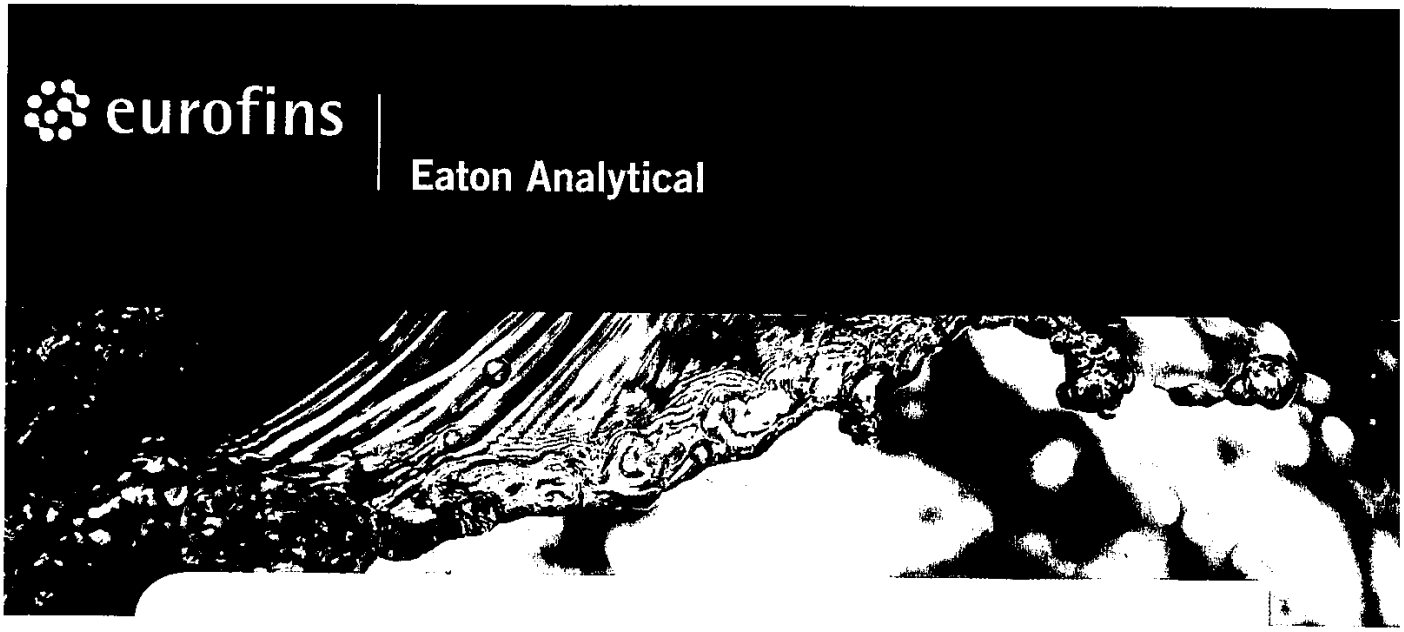
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EXHIBIT A



Laboratory Services
Guam Waterworks Authority

ITB # 2018-33
October 9, 2018

Prepared by Eurofins Eaton Analytical, LLC

www.EurofinsUS.com/Eaton

Monrovia Laboratory
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016
Tel | (626) 386-1100
Fax | (866) 988-3757

South Bend Laboratory
110 South Hill Street
South Bend, IN 46617
Tel | (574) 233-4777
Fax | (574) 223-8207

eurofins | Eaton Analytical

October 3, 2018

Guam Waterworks Authority
Procurement Office - 1st Floor
Gloria B. Nelson Public Services Building - 688 Route 15
Mangilao, GU 96913

Dear Members of the Selection Committee:

Eurofins Eaton Analytical, LLC (**Eurofins**) has served as Guam Waterworks Authority's (GWA's) contractor for laboratory services for more than 15 years. Our long-standing, successful track record of service and performance is testament to Eurofins' commitment to you, working together with Mr. Bordallo and his team to ensure safe and available water to the residents of Guam. To this end, we are very pleased to submit the enclosed **bid in response to IFB #2018-33**.

Meeting U.S. EPA regulatory drinking water and wastewater compliance requirements is no small undertaking. Through years of experience, Eurofins has established a **unique method to ensure your successful compliance** with these monitoring requirements.

- **Eurofins is familiar with the water quality of GWA**'s village wells, springs, surface water and treatment facilities. We can anticipate expected constituent concentrations, understand any regulatory compliance implications and communicate relevant information to GWA staff in advance of final reporting to provide advanced notice for public or regulatory concerns.
- **Eurofins is established in the regulatory community**, where we have long-standing relationships with staff at EPA Headquarters, Region 9 and Guam EPA (GEPA). These relationships help us facilitate compliance solutions for GWA concerning analytical and data questions that inevitably arise as a result of complex delivery logistics and matrix concerns.
- **Eurofins is experienced in the deployment and management of supplies and samples** to/from Guam where the 3-day minimum delivery time requires certain controls and contingencies to ensure samples are received on time and within temperature.
- **Eurofins is sufficiently qualified and capable** to process the extensive sample locations and unique analytical requirements of GWA. Our facility is the largest water-only testing laboratory in the United States, accredited and approved by the EPA, TNI, ISO and GEPA.

Thank you very much for your continued confidence in Eurofins.

Respectfully Submitted,
EUROFINS EATON ANALYTICAL, LLC

Rick Zimmer
Senior Account Manager

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EXECUTIVE SUMMARY

A Long-Standing and Successful Partnership

- In the spring of 2000, Eurofins was contacted by the Mr. Angel Marquez and Ms. Carmen Sian-Denton of Guam EPA in response to a regulatory order by EPA Region 9 to complete Safe Drinking Water Phase 2/5 compliance testing. Subsequent conference calls and site visits by Eurofins with Mr. Bert Johnson established our credibility with GWA (at that time known as Public Utility Agency of Guam (PUAG) and our first work in support of your compliance requirements.
- In 2003, Eurofins mobilized in response to Dept. of Justice filing to mandate GWA's compliance with drinking water and wastewater regulations. We worked closely with GWA and EPA staff to facilitate timely and successful compliance with GWA's Unregulated Contaminants Monitoring Rule (UCMR) 1 regulation.
- In 2005, Eurofins worked with GWA on an extended payment plan to pay off its account past due balance of >$50,000. Because we understand the unique cash flow and other competing priorities on Guam, our firm has always offered the utmost in flexibility to GWA to allow for a flexible payment schedule without disrupting the delivery of supplies and analysis/reporting of compliance samples as required by GEPA.
- In 2006, Eurofins worked closely with Ms. Denton and Mr. Paul Kemp to develop a schedule for upgrading GWA's in-house water quality laboratory so that more samples can be self-conducted by GWA rather than ship to Eurofins, thus, saving GWA thousands of dollars in analytical costs.
- In 2007, Eurofins collaborated with GWA and EPA on monitoring to satisfy GEPA's groundwater under the influence well evaluations. Testing included the analysis of well samples for Giardia/Cryptosporidium and Microscopic Particulate Analysis. That same year, we assisted GWA with the evaluation of sample shipping costs and facilitate transition from DHL to Federal Express which resulted in substantial freight cost savings for GWA.
- In 2009, Eurofins stepped in at the last minute to complete GWA's Lead and Copper Rule (LCR) monitoring when WERI's testing laboratory was unable to complete this task. In 2009, we also facilitated GWA's successful completion of the UCMR2 regulation.
- In 2011 Eurofins again extended flexible payment terms to GWA to facilitate the eventual pay off of >$80,000 in past due analytical invoices without disrupting the supply and delivery of compliance reports to GWA.
- In 2012, Eurofins assisted GWA with development of analytical budgets and compliance scopes of work to complete UCMR3 regulations and court-ordered NPDES annual testing at all 5 wastewater plants as well as implementation of special monitoring projects at GIAA.

- In 2015, Eurofins worked with Ken Patton @Promium to develop an electronic data deliverable (EDD) compatible with GWA's new Element LIMS to eliminate data transcription and entry errors.
- In 2016, Eurofins helped facilitate GWA's monitoring response to the EPA's new 70 ppt combined Health Advisories for Perfluorooctane sulfonate (PFOS) and Perfluorooctanoic acid (PFOA). These contaminants were detected at certain GWA wells during UCMR3 and with the EPA action added heightened scrutiny and concern to this emerging contaminant issue.
- In 2017, Eurofins provided GWA with a detailed budget for compliance with UCMR4 which helped facilitate discussions between GWA and EPA Region 9 concerning a potential Groundwater Representative Monitoring Plan (GRMP).

A Contractor that meets the Required Laboratory Responsibilities

1. We provide location specific sample kits + 10% contingency at least 10 days in advance of the scheduled sample collection event. Our kits are pre-labeled (both cooler and containers) to minimize any unnecessary field time required of your operations/distribution staff.
2. We adhere to and utilize only EPA and/or GEPA approved test methods and procedures. For some methods (Perchlorate, Nitrosamines, Hexavalent Chromium, PFAS compounds) we actually assisted the regulatory develop/validate the final test procedures.
3. We designate a single, experienced point of contact to review and communicate results to GWA staff in advance of final reporting. We recognize that nobody knows GWA's system better that GWA, which is why we relay analytical detects to GWA in advance of final reporting to provide additional insight and context to the values that will eventually be submitted to EPA and/or GEPA and also to facilitate your management of plant operations and distribution water quality.
4. We maintain sufficient analytical capability and capacity to receive/process GWA samples for reporting within 5 days after completion of analysis. Eurofins maintains the largest analytical capacity for water testing in the U.S. As an added contingency, we also operate a 2nd, TNI-accredited, full-service lab in South Bend, Indiana available for back-up.
5. We provide Chain of Custody forms with instructions for ensuring proper sample collection which meets EPA and GEPA compliance requirements.
6. We generate electronic reports in formats compliance with EPA, GEPA and GWA information systems, including deliverables compatible with SIDWIS-State. Eurofins also offers GWA secure, web-based access to analytical documents plus an online data mining feature to help with Consumer Confidence Report (CCR) production.

Eurofins is very pleased and proud to have served and supported GWA over the years and we look forward to continuing our successful partnership well into the future.

eurofins
Eaton Analytical

EXPERIENCE

Industry Resume

Eurofins provides water testing for almost 500 public agencies across the United States. Our resume of experience as a water testing leader includes work on many significant and high profile projects involving regulated and emerging contaminants at the Federal and State level:

- EPA contractor for the National Pesticide Survey (1987-88)
- California Association of Testing Labs founding member
- California ELTAC member (1990-present) and chair (2016-17)
- Standard Methods Joint Editorial Board chair/member (1992-present)
- Information Collection Rule accredited laboratory (1997-99)
- EPA contractor for UCMR Methods Validation (2000-Present)
- US Bureau of Reclamation contractor for Cal Delta surveillance program (2000-Present)
- EPA contractor for UCMR Database Beta Testing (2001-2009)
- EPA LT2 ESWTR laboratory stakeholder (2001-Present)
- EPA contractor for UCMR Small Systems (2001-Present)
- US Geological Survey contract laboratory supporting GAMA program (2004-2007)
- EPA method Co-Author for Perchlorate EPA 314 (2010)
- WaterRF 4167 Methods for PPCP analysis Co-Principal Investigator (2012)
- California Contaminants of Emerging Concern Blue Ribbon Panel participant (2013)
- EPA collaborator verifying Nitrosamines method alternatives (2014-Present)
- AWWA Technical Advisory Workgroup stakeholder for the CCL (2012-Present)

Eurofins is also routinely called upon by industry associations and instrumentation providers to provide technical expertise and input with new methods and to validate analytical alternatives to enhance existing EPA methods. Examples include:

- Ion Chromatography verification in both water & wastewater matrices (Dionex, 1984)
- Evaluation of Analytical Methods for Arsenic for Arsenic MCL (AWWARF, 1994)
- Gamma Spec analysis for Radium (Georgia Tech Research Institute, 2008)
- Luminescence technology for Assimilable Organic Carbon analysis (Suez, 2010)
- GC Triple Quad MS for Nitrosamines (Agilent, 2014)
- High Resolution Orbitrap Mass Spectrometry for PFCs and Hormones (Thermo, 2014)
- Evaluation of Radionuclide methods (AWWA, 2011 and 2015)

Our client list also includes virtually every municipal agency in the Pacific region:

Guam Waterworks Authority	Honolulu BWS
Navy Guam	Maui Dept of Water
WERI	Hawaii BWS
Guam EPA	Kauai Water Dept
Commonwealth Utilities Corp	Hawaii American Water Company
CNMI BECQ	Hawaii DOH
American Samoa Power Authority	Palau EQPB
American Samoa EPA	U.S. Army CHPPM Japan

National References

In addition to our local clients, Eurofins also supports testing and compliance monitoring programs for some of the largest water systems across the United States, including New York City DEP, Miami Dade Water & Sewer, City of Tampa, Massachusetts Water Resources Authority, Minneapolis Waterworks, New Orleans Sewerage & Water Board, Kansas City BPU, Denver Water, Salt Lake City Corporation, City of Phoenix, City of San Diego, Orange County Water District, Los Angeles Department of Water & Power, San Francisco PUC and Portland Water Bureau. Our water quality testing services have also been utilities by municipal agencies and contractors in the Philippines, Australia, China, Japan, Singapore, Russia, Iraq, Israel, Great Britain, Canada, France, Mexico, India, Puerto Rico, Chile, Honduras, Columbia, and South Africa.

Regulatory Collaborations

Eurofins maintains longstanding and successful relationships with the following regulators:

Guam EPA - Mr. Angel Marquez, Ms. Carmencita Cortez, Mr. Jesse Cruz
U.S. EPA Region 9 – Ms. Anna Yen, Mr. Kevin Ryan, Mr. Bruce Macler, Mr. Tomas Torres
EPA/SIDWIS Implementation - Ms. Julie Mendoza

Client References

U.S. Navy Guam (2000-Present)

In 2000, U.S. Navy Guam contractor Raytheon selected Eurofins to assist with the completion of new EPA Phase 2/5 drinking water regulations. We have continued to serve and support Navy Guam throughout the years despite the changeover of water operations from Raytheon to Earth Tech to DZSP. We have assisted with routine drinking water, wastewater, UIC, landfill monitoring and new well development @Anderson AFB as well as lab methods development assistance for the Navy's own water quality laboratory.
Mr. Stacy Demaclid (671-349-9157 or stacy.demaclid.ctr@fe.navy.mil)

Commonwealth of the Northern Marianas islands (2000-Present)

Eurofins has been supporting CNMI DEQ's Private Water System testing program since its inception more than ten years ago. As the lead contractor for the program, Eurofins works closely with BECQ to identify each system's sample schedule, coordinate sample collection with our local partner, Quality Water, receive and process collected samples within the prescribed analytical holding times and report compliance data back to the system owner. A majority of the system owners are private foreign companies with little or no knowledge of the DEQ compliance and reporting process. Our "hands on" assistance to these system owners and willingness to maintain our analytical price points without change for more than ten years reflects our unique relationship with BCEQ and commitment to the fiscal stability and success of the local economy. In many instances, proactively identifying high levels of naturally occurring Arsenic, Gross Alpha and Nitrate in wells tested as well as excessive amounts of THMs or corrosion by-products in treated or distribution system samples so that our system owner customer can take action with BCEQ to protect public health and welfare for residents and visitors in the CNMI.
Mr. Joe Kaipat (670-664-8509 or josekaipat@becq.gov.mp)

American Samoa Power Authority (2003-Present)

In 2003, American Samoa EPA (ASEPA) relinquished management of American Samoa Power Authority's (ASPA's) safe drinking water compliance monitoring requirements, compelling ASPA to establish contracted laboratory services for the first time. Eurofins worked closed with Mr. Martin Fruean to develop a plan to bring ASPA into compliance with EPA regulations. Over the years, we have continued to support ASPA with testing and assistance in securing monitoring waivers to eliminate unnecessary testing and associated costs.
Ms. Danielle Mauga (684-699-1333 or danielle@aspower.com)

QUALIFICATIONS

Certifications

Eurofins has been audited and accredited by EPA in support of special regulatory programs (ICR, UCMR and LT2) in each of the last 17 plus years. We strive to educate ourselves and obtain as much knowledge as our clients. We collaborate with EPA on analytical methods, detection limit feasibility relative to proposed regulatory thresholds, best practices and acceptable precision & accuracy. This firsthand collaboration and interaction directly with regulators helps us know the priority for future regulations and our testing capabilities reflect that. Eurofins is accredited by four primary organizations:

- Eurofins has held **GEPA accreditation** (#15-003r) since the commencement of the program more than 10 years ago. Our field of testing approval includes 100% of the regulated water testing requirements in the microbiology, inorganics, trace elements, volatile organics, semi-volatile organics and radiochemistry categories.
- Eurofins is also a **TNI-accredited** laboratory, hence our involvement and assistance to ELTAC and ELAP with integrating the 2012 TNI standards into the new State accreditation program. Of course, Eurofins already meets these anticipated new State standards. More than 90% of California laboratories do not qualify for TNI accreditation at the present time.
- Eurofins is **ISO-accredited** as well, according to the latest ISO quality standard (17025). As an ISO laboratory, Eurofins has established and maintains standard operating procedures for ethics, data integrity, health & safety, staff training & management, facilities integrity and the like. Less than 5% of California laboratories are ISO-accredited.
- Finally, Eurofins is **EPA-approved** to perform testing both the Unregulated Contaminants Monitoring Rule (UCMR) 1, 2, 3 and 4 and the Long-Term 2 (LT2) Enhanced Water Treatment Rule. Both of these accreditations require extensive and ongoing documentation of instrumentation, staff qualifications & experience and quality-specific project plans to support both regulatory program. Eurofins is presently EPA-approved for all UCMR4 methods and all LT2 methods. No other laboratory can claim such certification status and coverage.

Our extensive list of Federal and State accreditations reflects our commitment to quality, above and beyond the minimum requirements. Theses extensive accreditations and approvals also subject Eurofins to frequent on-site audits, blind proficiency testing and quality documentation through the year, in contrast to most laboratories that are audited or evaluated by the same regulatory agency every two or three years. On external **Proficiency Test (PT) studies**, Eurofins has scored more than 99% correct on EPA Water Supply PTs for over 15 years running. In addition to 3rd party PTs, we also use an internal blind performance evaluation sample program to monitor problems and to verify proficiency of all analysts.

Copies of our certifications are included with this bid submission for your review.

Testing Capability and Resources

Eurofins is a $1 billion environmental services corporation. The firm employs more than 2,000 professionals in 100+ locations worldwide, including offices in Hawaii, Australia and Asia. Our California laboratory is a full service facility with more than 30,000 square feet of space and over 100 full time scientists & technical professionals. We have been ranking as one of the top 20 commercial laboratories nationwide for the last 10 years. The financial backing and support of our parent company affords us the capitol necessary to purchase and maintain modern, reliable, productive instrumentation and employ professional, experienced chemists & microbiologists. We employ two analysts and more than four instruments for every major analytical method we offer. This unprecedented analytical resource affords us the capability of processing large sample batch sizes or providing rapid analysis turnaround times for special projects without the need for subcontracting or major disruption to our operation.

Eurofins has among the largest sample capacity (for water analysis) of any single location commercial lab in the United States, in excess of 10,000 samples per month or over 40,000 tests per month. Eurofins' $2,000,000 laboratory information management system (LIMS) provides improvements to all aspects of data management, sample tracking, QC and reporting.

Instrumentation and Capacity

Eurofins self-performs 100% of your compliance testing without subcontracting. Our extensive analytical capacity is more than sufficient to support GWA's sample orders.

Testing Category	Analysts	Instruments	Monthly Sample Capacity
Bacteriology	4	4	10,000 samples
Asbestos	2	1	400 samples
General Chemistry	8	8	1,000 samples
Nutrients	4	4	1,000 samples
Metals	6	7	1,500 samples
Perchlorate	2	3	800 samples
Radiochemistry	3	6	320 samples
TOC/TOX/UV	2	3	800 samples
Disinfection By-Products	8	8	2,000 samples
Volatile Organics	4	8	2,000 samples
Synthetic Organics	8	8	1,500 samples
Nitrosamines	2	2	600 samples
Emerging Contaminants	7	4	100 samples
Semi-volatiles	4	7	1,500 samples

Quality Assurance

Eurofins maintains a Quality Assurance Program (QAP) based on the principals of accuracy, precision and timeliness. Our program is modeled after the EPA Lab Certification Manual for Drinking Water Laboratories, which follows a logical work sequence and employs a number of criteria to reflect our commitment to generating high quality, legally & scientifically defensible analytical data in user-friendly formats. Eurofins updates the QAP annual to reflect our current operation.

Components of the QAP include:

- Formalized, validated analytical and operational standard operating procedures.
- Ongoing checks to ensure the use of current and acceptance standards.
- Strict adherence to chain of custody procedures and sample documentation.
- Annual demonstrations of capability and method detection limits for all compliance tests.
- Reporting levels established at/above the lowest calibration standard and above the MDL
- Multiple data reviews at the peer, supervisor, validator and project management levels.
- Data storage, retrieval and control charts to predict instrument maintenance schedules
- Use of lab controls, matrix spikes and blanks to identify false positive results
- Identification of results inconsistent with sample history or exceeding regulatory thresholds
- Establishment of alternative resources for subcontracted and contingency analyses

To support our QA policies, Eurofins Labs has also established a comprehensive Ethics and Data Integrity Program. The program contains all of the features outlined in the 2012 TNI Standards.

Facility Audits & Proficiency

Because of our participation and support for high-profile projects & water system customers and commitment to quality above and beyond the minimum requirements, Eurofins is routinely audited and inspected by any one of a number of Federal or State regulators and industrial representatives. In contrast, most laboratories are audited by the same regulatory agency every two or three years. Eurofins also participates in a number of 3rd party PT programs for both regulated constituents and emerging contaminants. We have scored more than 99% correct on EPA Water Supply PTs for 10 years running. In addition to 3rd party PTs, we also use an internal blind performance evaluation sample program to monitor problems and to verify proficiency of all analysts. Eurofins has also served as a referee laboratory for commercial producers of external reference samples as well as for the EPA in the verification of their test methods.

STAFFING

Eurofins employs **over 120 professionals** dedicated to providing our clients with exceptional water quality testing services and expertise. We offer the largest and most experienced analytical resource in the United States. The **combined expertise** of our GWA-designated project team exceeds **230 years**, including an average of 34 years industry experience and almost 20 years working at Eurofins. This incredible resource of knowledge and experience is unprecedented in the laboratory industry.

Key Eurofins Staff assigned to support GWA:

Staff Member	Role	Degree	Year Experience	Years w/Eurofins
Rick Zimmer	Senior Account Manager	BA/MBA	25	25
Jeff Lee	Analytical Service Manager	BA	11	2
Bosco Ramirez	President/Lab Director	BS/MS	32	1
Andrew Eaton	Vice President/Technical Director	PhD/BS	41	37
Linda Geddes	Client Services Manager	BA	46	20
Walter Hsieh	Operations Manager	BS	31	17
Nilda Cox	Quality Assurance Manager	BS	40	21

Mr. Rick Zimmer, Senior Account Manager – Mr. Zimmer holds a Bachelor's degree from San Diego State University and Master's degree from Long Beach State University. He has 25 years industry experience as an Account Manager and Project Manager. Mr. Zimmer is a member of the American Water Works Association, WateReuse Association, Groundwater Resources Association and the Association of California Water Agencies. He has a thorough understanding of your monitoring and reporting requirements, are aware of pending EPA and GEPA regulations and successfully overseen compliance projects for all of our pacific islands customers.

Mr. Jeff Lee, Analytical Services Manager – Mr. Lee holds an Bachelor's degree and has 11 years industry experience as an Analytical Services Manager. Mr. Lee provides direct management of your project, include kit fulfillment, incoming sample logistics coordination, tracking work in progress and final review/sign-off of reports and invoices.

Mr. Bosco Ramirez, President & Lab Director - Mr. Ramirez has a Bachelor's degree in Chemistry from San Jose State University and has a Master's Degree in Analytical Chemistry from Governors State University. He has more than 30 years' experience in the analysis of water, wastewater, soil and food. As President, his ultimate responsibility is ensuring the operational efficiency and accuracy of laboratory procedures, cost analysis, overhead control, marketing, and project management across all lab facilities.

Dr. Andrew Eaton, Vice President & Technical Director – Dr. Eaton holds a Bachelor's degree in Earth Sciences from Antioch College, a Master's degree in Geology from Harvard University and a PhD in Geochemistry from Harvard University. He has over 40 years industry experience as a Technical Director, Project Manager, Laboratory Supervisor (Inorganics) and Researcher. Dr. Eaton is a member of the American Chemistry Society, Geochemical Society, American Water Works Association, International Bottled Water Association, International Society of Beverage Technologists, and the NELAC Institute (TNI). Dr. Eaton has also served as an industry expert representative for the U.S. EPA (MDCB FACA) workgroup, EPA BOSC Drinking Water Workgroup, AWWA representative on the Standard Methods Joint Editorial Board) and the State of California (ELTAC). He is on the Peer Review Editorial Board for the Journal of the American Water Works Association.

Ms. Linda Geddes, Client Services Manager – Ms. Geddes holds a BA in Chemistry from Humboldt State University and has over 30 years of experience as a Chemist, QA Officer and Project Manager. She has been a member of Eurofins since 1998. Ms. Geddes is responsible for ensuring that the service needs of our clients are met through the supervision of our project management staff and analytical staff. She serves as vice-chair of the AWWA Lab Practices committee.

Mr. Walter Hsieh, Operations Manager - Mr. Hsieh holds a BS in Chemistry from Loma Linda University and has over 27 years' experience in environmental testing. He has been with Eurofins for the past 13 years as Bench Chemist, Laboratory Supervisor and Operations Manager. In his present role, Mr. Hsieh coordinates and prioritizes the activities for the analytical operation, including instrument maintenance & upgrade, workload forecasting and staff scheduling.

Ms. Nilda Cox, Laboratory QA Officer – Ms. Cox holds a BS in Chemistry from the University Of Santo Tomas Philippines. She has over 30 years of analytical experience, including 15 years as the QA Manager at Eurofins. Ms. Cox helps ensure our adherence to Eurofins' Quality Assurance Plan and EPA/GEPA regulatory requirements. Ms. Cox currently serves on the Onsite Assessment Committee for TNI and is routinely involved with municipal & state agencies, assisting with analytical methods development and laboratory accreditation.

SERVICES

Customized Sample Kits

GWA manages 2 separate water systems, over 100 compliance entry points and several distribution system locations requiring sample collection each week. With such an extensive system and limited sampling staff, Eurofins has developed customized sample kits to minimize field time and eliminate unnecessary data transcription or recording while in the field. Containers are pre-preserved and labeled with the site name or GEPA site ID. Containers are grouped in coolers based on the system (Northern, Central) and sample location. Each cooler include ice packs, custody form, kit inventory, packaging material and a pre-paid return shipping label. Separate coolers will be provided for annual Toxicity testing so that these samples may be shipped directly from Guam to the Toxicity laboratory for processing within the 3 days holding time for this test.

Kit Deliveries

Eurofins works off of GWA's annual sample schedule and checks in monthly to confirm work assignments for the following month. We then then proceed with packing each cooler with the containers required. Quarterly DBP and SOC kits are delivered by the first of the month in which the samples are scheduled for collection. Monthly NPDES kits are delivered within 5 working days prior to the 1st of each month. To ensure GWA staff have sufficient resources available for rapid response to operational concerns or customer requests, Eurofins provides a stock of containers for frequently required tests (Nitrate, Lead/Copper, Pesticide, Full Suite) plus coolers and ice packs.

Delivery Notifications and Login

Each time Eurofins ships out a sample kit, we enter the Federal Express tracking number for the shipment. This entry will prompt our system to automatically e-mail GWA with a notice of incoming shipment that includes links to the sample kit inventory and freight tracking information on the FedEx website. By receiving such information, GWA is able to schedule staff in advance to maximize the limited time they are afforded to collect samples.

Similarly, Eurofins requests return notification from GWA of all incoming sample shipments so that we too may track your samples and ensure that all holding times are adhered to resampling required due to a missed holding time is avoided. Upon receipt, each cooler is inspected immediately upon receipt. We contact GWA whenever samples are received with breakage, leakage, inverted septa or air bubbles (for Volatile samples), incorrect containers, wrong preservatives, missing container labels, incomplete paperwork or excessive temperature. Each

cooler temperature is measured and recorded on the sample custody form. Tracking numbers are then assigned to each sample and scheduled for analysis. Analytical departments are notified to retrieve any samples with short holding times or samples requiring rush turnaround times so processing can commence immediately. Remaining samples are stored at 4 degrees C in walk-in refrigerators. Temperatures in all cold storage areas are measured twice each day to ensure required temperature is maintained (TNI 5.5.3). Volatiles samples are segregated in separate refrigerators to prevent cross-contamination. A final Acknowledgement of sample receipt is subsequently e-mailed to GWA for reference.

Analytical Methods

The analytical methods performed at Eurofins are based primarily on U.S. Environmental Protection Agency and *Standard Methods for the Examination of Water and Wastewater*, approved regulatory editions. Non-standard methods for unregulated constituents like UCMR or other emerging contaminants are properly validated (TNI 5.5.4.5.2) and based on the EPA Laboratory Approval Requirements & Information Document and official UCMR Laboratory Guidance Document. Method validation includes an initial demonstration of capability (IDC), a method detection limit (MDL) study and limit of quantitation (LOQ) study. Once method validation is approved, method Standard Operating Procedures (SOPs) are finalized and updated annually. These detailed SOPs meet the requirements included in the mandated test method or regulation, even if the requirements are more stringent than the corresponding TNI standard.

Eurofins also applies the same conservative standard in establishing detection limits. We set the minimum reporting levels (MRLs), which are the reporting levels on reports, at or above the lowest standard associated with that analytical run. To verify the sensitivity and precision of the MRL, we analyze an MRL Check with every analytical run. This approach ensures that all data reported as "detected" will have a high degree of analytical precision.

Advance Notice of Preliminary Results

Every morning, Mr. Lee receives an e-mail from the Eurofins Laboratory Information Management System (LIMS) summarizing project hits from sample results entered the prior day. This daily notice prompts us to:

- Resubmit sample for reanalysis to confirm suspect hits
- Inform GWA of any unusual results exceeding the MCL or discharge thresholds.
- Advise GWA of the need for a data qualifier or sample recollect

Our goal is to assume ownership of your requirements, unique sample types and project history, so we will know when values are inconsistent with historical values, when results might be due to matrix interference or when certain detections are expected. Ultimately, we will always communicate with GWA and keep her aware of issues as they arise and resolve any concerns before data is submitted to GEPA or EPA Region 9.

Collaboration with Regulators

When results are identified which have regulatory implications, Eurofins is prepared to work with EPA and/or GEPA to collaborate and address any technical concerns to ensure fair, complete and correct compliance reporting. On several occasions, GWA samples were received or processed after the holding times stipulated by the method. However, because of our excellent relationship with GEPA and detailed report comments/explanations, data generated by Eurofins is never challenged and always acceptable for compliance reporting.

Similarly with EPA, Eurofins routinely meets with Region 9 staff to collaborate on GWUI and UCMR implementation strategies. For the first 3 UCMR monitoring events, Eurofins actively worked with Region 9 on behalf of GWA to develop a sample plan which employed representative sampling strategies and staggered sampling schedules to minimize unnecessary analytical cost and spread out the monitoring budget over several budget cycles.

Assistance with Budgeting and Planning

In collaboration with EPA and GEPA staff, Eurofins helped develop the very first GWA monitoring budget in 2001. Because Eurofins works frequently with EPA as a stakeholder and contractor, we're "in the know" concerning future regulations and their impact on our clients. In one recent example, we brought to GEPA's attention their need to implement the 2004 Radionuclides Rule update to the original Rule. The resulting baseline monitoring requirement for Radium 228 is now implemented at Guam water system entry points starting in 2012.

During our annual trip to visit Guam, we always set-aside time to review the coming year's monitoring requirements and provide suggestions and assistance with developing an accurate and comprehensive monitoring budget based on current and future regulations. These consulting services are afforded to GWA without charge and are considered part of our package of professional testing service.

Reporting of Results

Eurofins carefully reviews, approves and submits comprehensive analytical reports in PDF and (to eliminate your data transcription into Excel) CSV formats. Final deliverables will continue to delivered within 5 working days of analysis completion and include all of the following:

- Signed Cover Page with Project Name and Title referenced
- Sample Acknowledgement
- Chain of Custody
- Hits Report Summary with comparison to EPA regulatory limits
- Sample Results with collection, receipt and analysis dates referenced
- Report Comments
- QC Summary
- QC Data (lab spikes, matrix spikes, MRL check, method blank, surrogates)

Eurofins notes any data not meeting the limits for any of the above parameters to highlight for the benefit of GWA and GEPA any instances of exceptions to quality control. In all cases Mr. Lee provides detailed explanation of all data qualifiers or prior report/sample references and confirms if test results are acceptable for compliance or will require resampling.

To ensure compliance with the UCMR4, Eurofins submits data to EPA's CDX database. For UCMR4, critical field and operation parameters will need to be uploaded by the laboratory with analytical data. Eurofins provides UCMR-specific custody forms to provide a user-friendly means for capturing and transferring this data into the CDX by the laboratory. With this approach, UCMR notices of non-compliance are avoided due to incomplete reporting.

Document Delivery and Archival

Eurofins maintains a secure, online Client Access Portal (CAP) account for GWA's access all project-related documents. Any designated representative may use project-specific or "master" ID and password to access our web site where PDF versions of the project documents can be accessed. All report documents are delivered electronically via PDF e-mail link within 20 working days of our sample receipt. Any one of a number of GWA or 3rd party staff may be designated to receive kit order inventories, custody forms, sample receipt acknowledgements, reports and/or invoices for specific projects. The CAP organizes GWA data by project (Entry Point, DBP, LCR, UCMR, Wastewater, etc.). This allows the option for project-specific reporting & billing and also facilitates data mining for project-specific analyze histories or regulatory reports.

Data Mining

The CAP also provides real time data queries by project, sample location, analytical parameter and/or data range. This feature is useful for summary data reporting (i.e. CCR) and source/system trending. Project status can also be tracked in real time to determine the progress of logins, analysis and reporting. Because Eurofins has served as GWA's contract laboratory for more than 15 years, our CAP contains data histories dating back to 2000 and can be configured to include data as far back as 2000 when we originally started assisting GWA.

GWA may utilize the Eurofins CAP as its own electronic file cabinet of data. The CAP access and features are afforded to GWA free of charge. However, if GWA desires to establish its own database (i.e. LIMS), Eurofins will work closely with GWA and/or its designated representative(s) to ensure that Eurofins data transfers are submitted and correctly uploaded. We're also willing to invest our time (additional fees may apply) to assist GWA develop a strategy and implement its own water quality database if it so wishes.

SIDWIS-State for GEPA

Eurofins is also standing by ready to generate EDTs compatible with GEPA SIDWIS database. We presently generate SIDWIS-compatible EDDs for CNMI BECQ and Hawaii DOH.

Invoicing and Payment Terms

Invoices for each order are submitted electronically (via PDF) with the final report and include the following essential data elements:

- Project and Sample Group reference
- Sample Identification
- Test(s) Completed
- Unit and Extended Cost
- Total Cost
- Contract or Purchase Order reference

Because we understand the cash flow priorities of GWA, we afford a minimum of 60 days (from date of invoice issuance) for payment. However, situations do arise and Eurofins continues to extend GWA sufficient time needed to make prompt payments as long as good faith is displayed in addressing any past due amounts.

eurofins | Eaton Analytical



Appendix A: Fee Schedule and Bid Bond

GUAM WATERWORKS AUTHORITY
Suite 200, Gloria B. Nelson Public Service Building
688 Route 15, Mangilao GU 96913-6203

Guam Waterworks Authority
Invitation for Bid Number: GWA 2018-33
For Laboratory Services Re-Bid

ALL OR NONE BID

I. BID ITEMS (*)

(1) WATER SAMPLES(*)

(A) MONTHLY TEST: (12 X / year)

Item No	Description	Est. QTY	Cost Per Test	Monthly Total
1.0	Volatile Organic Chemicals (VOC)	7	$150.00	$1,050.00
1.1	Nitrates	25	$15.00	$375.00
1.2	Total Organic Carbon (TOC)	4	$50.00	$200.00
			Total Monthly Cost:	$1,625.00
			Total Annual Cost:	$19,500.00

(B) QUARTERLY TEST: (4 X / year)

Item No	Description	Est. QTY	Cost Per Test	Quarterly Total
2.0	Pesticides	75	$150.00	$11,250.00
2.1	Volatile Organic Chemicals (VOC)	15	$150.00	$2,250.00
2.2	EDB and DBCP	1	$50.00	$50.00

2.3	Organic Chemicals EPA 515.4, EPA 531.2, EPA 547, EPA 548, EPA 549, EPA 1613, EPA 525.2	30	$1,165.00	$34,950.00
2.4	Inorganic Chemicals Sb, As, Ba, Be, Cd, Cr, Ni, Se, Tl, CN^-, Hg, F, NO_2^-, NO_3^-, $SO_4^=$ and Na	30	$230.00	$6,900.00
2.5	Inorganic Chemicals Gross Alpha Gross Beta, Uranium, RA 226, and RA 228)	12	$450.00	$5,400.00
2.6	Nitrates	1	$15.00	$15.00
2.7	Trihalomethanes	12	$70.00	$840.00
2.8	Haloacetic Acids	12	$150.00	$1,800.00
		Quarterly Total Cost:		$63,455.00
		Total Annual Cost:		$253,820.00

(C) SEMIANNUAL TEST: (2 X / year)

Item No	Description	Est. QTY	Cost Per Test	Total
3.0	Inorganic Chemicals (IC): Sb, As, Ba, Be, Cd, Cr, Ni, Se, Tl, CN^-, Hg, F, NO_2^-, NO_3^-, $SO_4^=$, and Na	75	$230.00	$17,250.00
			Total Semi-annual Cost:	$17,250.00
			Total Annual Cost:	$34,500.00

(D) ANNUAL TESTS:

Item No	Description	Est. QTY	Cost Per Test	Total
4.0	Volatile Organic Chemicals (VOC)	124	$150.00	$18,600.00
4.1	Nitrates	60	$15.00	$900.00
4.2	Inorganic Chemicals: (IC) Sb, As, Ba, Be, Cd, Cr, Ni, Se, Tl, CN^-, Hg, F, NO_2^-, NO_3^-, $SO_4^=$ and Na.	4	$230.00	$920.00

Total Annual Cost: $20,420.00

(E) LEAD AND COPPER RULE (2 X per site every three years = 176 during this contract)

Item No	Description	Est. QTY	Cost Per Test	Sample Set Total
5.0	Lead and Copper	44 sites	$30.00	$1,320.00
			Total Cost Under this Contract:	$232,320.00
			(1/5 X Total cost for annualized allocation for price comparison)	$46,464.00)

UCMR4 SAMPLES(*)

(F) TWO (2) ROUNDS 6 MONTHS APART:
(Expected to start in 2019 and can extend through 2024)

Item No	Description	Est. QTY	Cost Per Test	Total
6.0	***(per round)*** - **USEPA List 1,** Assessment Monitoring (including HAA9, TOC and Bromide.)	74	$1,300.00	$96,200.00
			Total UCMR4 Cost:	$96,200.00
			(1/5 X Total cost for annualized allocation for price comparison)	$19,240.00

TOTAL DRINKING WATER ANNUALIZED COST $393,944.00

(2) WASTEWATER SAMPLES (*)

(A) QUARTERLY TEST: (4 X / year)

I Item No	Description	Est. QTY	Cost Per Test	Quarterly Total
7.0	Metals (Cu, Ni, Zn, Al) (Agat WWTP only)	1	$60.00	$60.00
			Total Annual Cost:	$240.00

(B) ANNUAL TEST:

Item No	Description	Est. QTY	Cost Per Test	Total
8.0	Whole Effluent Toxicity; (purple Sea Urchin Bioassay) *[NDWWTP, HWWTP & AWWTP only]*	3	$1,500.00	$4,500.00
8.1	Heavy Metals (As, Cd, Cr^{3+}, Cr^{6+}, Cu, Hg, Pb Ni, Ag, and Zn) *[all 4 WWTPs]*	4	$180.00	$720.00
8.2	Chlordane and Dieldrin *[Agat WWTP only]*	1	$150.00	$150.00
8.3	All Pesticides (organochlorines, carbamates, herbicides, fungicides, defoliants, and botanicals) ***[see Guam Water Quality Standards-2001 Located in Appendix A]*** *[all 4 WWTPs]*	4	$1,125.00	$4,500.00
8.4	TOC Calibration Reference Test (**Ugum only**. Not a regularly scheduled test. Unit price only in case it is called for). ***[Do not include in Total Cost]***		$50.00	
			Total Annual Test Cost:	$9,870.00

(C) NPDES PERMIT PERIOD TESTS:

Item No	Description	Est. QTY	Cost Per Test	Total
9.0	Whole Effluent Toxicity Umatac-Merizo WWTP (Fresh water) ***[one time in 2019]***	1	$2,800.00	$2,800.00
9.1	Priority Pollutant Scan ***(a)*** ***(a) once per NPDES permit cycle = one for each WWTP during the Period of this contract.*** *[Appendix F, all GWA WWTP NPDES Permits]*	4	$1,2750.00	$5,100.00
	Total for 5-year contract period			$7,900.00
	(1/5 of the total for annualized cost comparison)			$1,580.00
TOTAL WASTEWATER ANNUALIZED COST				$11,690.00
	GRAND TOTAL ANNUALIZED COST			$405,634.00

(*) The quantities listed in this bid are based on current information which are specified for evaluation and budgeting purposes. The quantities may change during the period of the contract once awarded. Offerors should consider this as an *Indefinite Quantity, Indefinite Delivery* bid for contract award when preparing the offers.

GOVERNMENT OF GUAM
DEPARTMENT OF REVENUE AND TAXATION
OFFICE OF THE BANKING AND INSURANCE COMMISSIONER

CERTIFICATE OF AUTHORITY

RENEWAL 239

Know All Men By These Presents That:

Name **FIDELITY AND DEPOSIT COMPANY OF MARYLAND**

Address 1400 AMERICAN LANE
SCHAUMBURG IL 60196 1056

Classes of Insurance Authorized

ACCIDENT & HEALTH
FIDELITY & SURETY
FIRE
MARINE
MISCELLANEOUS
PROP. DAMAGE & LIABILITY
WORKMENS COMP

Having complied with the Insurance Law of Guam, is hereby authorized to transact as an insurer, the above named Classes of Insurance in Guam from the 01 ***day of*** July , ***20*** 18 , ***to the*** 01 ***day of*** July , ***20*** 19 , ***unless authority is revoked for failure to comply with the law.***

General Agent(s):

TAKAGI & ASSOCIATES INC
CASSIDY'S ASSOCIATED INSURERS INC

In Witness Whereof, I have hereunto subscribed my name officially and have hereon impressed my Seal of Office at the City of Hagatña, Guam on this 23 ***day of*** May ***A.D. 20*** 18.

JOHN P. CAMACHO
Acting Banking and Insurance Commissioner

BID AND PERFORMANCE BOND FOR GOODS AND SERVICES AS REQUIRED UNDER 5 G.C.A. § 5212

KNOW ALL MEN BY THESE PRESENTS, that
Eurofins Eaton Analytical, LLC
(Name of Contractor)
as Principal, herein after called the Principal and
Fidelity and Deposit Company of Maryland
(Name of Surety)
as duly admitted insurer under the laws of the Territory of Guam, as Surety, hereafter called the Surety, are held and firmly bound unto the Guam Waterworks Authority for the sum of **---Fifteen Percent of the Total Bid Price---** Dollars ($**---15%---**), for payment of which sum will and truly to be made, the said Principal and the said Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents:

WHEREAS, the Principal has submitted a bid for and is anticipated to enter into a contract in the amount specified below,
Laboratory Services IFB No. 2018-33

NOW, THEREFORE, if the Guam Waterworks Authority shall accept the bid and the Principal shall not withdraw said bid within (120) calendar days after the opening of bids, and shall within twenty one (21) calendar days after the prescribed forms are presented to him for signature, enter into a Contract with the Guam Waterworks Authority in accordance with the terms of such bid. This bond shall also be held by the Guam Waterworks Authority to secure the faithful performance of such Contract and for the prompt payment of labor, goods, services and materials furnished in the prosecution thereof. In the event of the failure of the Principal to enter into such Contract, or if the Principals (Contractor) fails to perform in accordance with the requirements set out under the Bid or any other written instrument requirement performance thereunder, the Surety, on behalf of the Principals shall pay to the Guam Waterworks Authority the differences not to exceed the penalty hereof between the amounts specified in said bid and such larger amount for which the Guam Waterworks Authority may in good faith contract with another party to perform work covered by said bid or an appropriate liquidated amount as specified in the Invitation for Bids then this obligation shall be null and void, otherwise to remain in full force and effect.

NOW, THEREFORE, THE CONDITIONS OF THIS OBLIGATION is such that, if the contractor shall promptly and faithfully perform said Contract, and shall promptly make payment to all claimants as hereinafter defined for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

A. The Surety hereby waives notice of any alteration or extension of the time made by the Authority provided the same is within the scope of the Contract or any modification thereto.

B. Whenever the contractor shall be and is declared in default by the Authority to be in default under the Contract, the Authority having performed its obligations hereunder, the Surety may promptly remedy the default or shall promptly:

1. Complete the Contract in accordance with its terms and conditions; or

2. Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by the Authority and the Surety of the lowest responsible bidder, arrange for a Contract between such bidder and the Authority, and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts or completion arranged under this paragraph) sufficient funds to pay the cost of completion, less than balance of the Contract price, but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the Contract Price," as used in this paragraph shall mean the total amount payable by the Authority to Contractor under the Contract and any amendments thereto, less the amount properly paid by the Authority to Contractor. No right of action shall accrue on this bond to or for use of any person or corporation other than the Authority or successors of the Authority.

C. A claimant is defined as one having a direct contract with the Contractor or with a subcontractor of the Contractor for labor, material, or both, used or reasonably required for use in the performance of the Contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.

D. The above named Contractor and Surety hereby jointly and severally agree with the Authority that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date of which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for use of such claimant, prosecute the suit to final judgment to final judgment for such sum or sums as may be justly due the claimant, and have execution thereon. The Authority shall not be liable for the payment of any costs or expenses of any such suit.

E. No suit or action shall be commenced hereunder by any claimant:

1. Unless claimant, other than one having a direct contract with the contractor, shall have given written notice to any two (2) of the following entities named below:

(a) the Contractor; (b) the Guam Waterworks Authority, or (c) the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be personally served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Contractor at any place the principal maintains an office or conducts its business.

2. After the expiration of one (1) year following the date on which the last of the labor was performed or material was supplied by the party bringing suit.

3. Other than in a court of competent jurisdiction in and for the Territory of Guam.

F. The amount of the bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder.

SIGNED AND SEALED THIS 1st day of October, 2018, A.D.

IN THE PRESENCE OF:
(Note: If the Principals are Partners, each must execute the Bond)

(WITNESS)

(TITLE)

(MAJOR OFFICER OF SURETY)

Dione R. Young, Attorney-in-Fact
TITLE)

Eurofins Eaton Analytical, LLC
(CONTRACTOR) (SEAL)

(TITLE) President

Fidelity and Deposit Company of Maryland

(MAJOR OFFICER OF SURETY)

Anne Crowner, Attorney-in-Fact
(TITLE)

Countersigned by:
Takagi & Associates, Inc.
Resident General Agent

(RESIDENT GENERAL AGENT)

ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Maryland, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Maryland (herein collectively called the "Companies"), by **THOMAS A. LITTLEFIELD, Vice President,** in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint **Craig E. HANSEN, Jay D. FREIERMUTH, Brian M. DEIMERLY, Anne CROWNER, Mark R. DEWITT, Stacy VENN, Cindy BENNETT, Jacqueline KIRK, Ginger HOKE and Dione R. YOUNG, all of West Des Moines, Iowa, EACH** its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **, each in a penalty not to exceed the sum of ONE MILLION DOLLARS ($1,000,000)** and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said **ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND,** this 5th day of August, A.D. 2016.

ATTEST:

ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

By: _____

Secretary
Eric D. Barnes

_____

Vice President
Thomas A. Littlefield

State of Maryland
County of Baltimore

On this 5th day of August, A.D. 2016, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **THOMAS A. LITTLEFIELD, Vice President, and ERIC D. BARNES, Secretary,** of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposeth and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.

_____
Maria D. Adamski, Notary Public
My Commission Expires: July 8, 2019

POA-F 088-6828A

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify of revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 1st day of October, 2018.

Michael Bond, Vice President

EXHIBIT B

GUAM WATERWORKS AUTHORITY

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

MEMORANDUM

TO: General Manager

VIA: Supply Management Administrator

FROM: Evaluation Committee Members

SUBJECT: Invitation to Bid No. GWA 2018-33
Ref: Laboratory Services Re-bid

REF: Recommendation of Award

DATE: **October 18, 2018**

Invitation for Bid No: GWA 2018-33 officially announced and advertised on September 10, 2018 and posted in the Pacific Daily News, Guam Daily Post, and Guam Waterworks Authority Website. Schedule bid opening date is on October 09, 2018 @ 10:00 am. GWA received nine (09) of interest by acknowledgment thru GWA's website.

Bidders Register:

1. ARS Aleut Analytical
2. TH Wilson Bonds
3. Shay Enterprise
4. 9
5. Light Source
6. M.D Wholesale
7. Bid
8. Schneider Laboratories Global
9. Eurofins Eaton Analytical

Of the Nine (09) one (1) submitted a proposal, namely:

- Eurofins Eaton Analytical

An evaluation committee was formally assembled and met on October 12, 2018 @ 10:00 am, based on the outcome, the committee member determined, Eurofins Eaton Analytical bid proposal is deemed responsive and have complied with all terms & conditions and bid requirements specified in the IFB. Therefore, the committee recommend to move forward with the award for the following Item No's.

ALL OR NONE BID

Indefinite Quantity Bid

I. BID ITEMS (*)

(1) WATER SAMPLES(*)

(A) MONTHLY TEST: (12 X / year)

Item No	Description	Est. QTY	Cost Per Test	Monthly Total
1.0	Volatile Organic Chemicals (VOC)	7	$150.00	$1,050.00
1.1	Nitrates	25	$15.00	$375.00
1.2	Total Organic Carbon (TOC)	4	$50.00	$200.00
			Total Monthly Cost:	$1,625.00
			Total Annual Cost:	***$19,500.00***

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2.1	Volatile Organic Chemicals (VOC)	15	$150.00	$2,250.00
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2.3	Organic Chemicals EPA 515.4, EPA 531.2, EPA 547, EPA 548, EPA 549, EPA 1613, EPA 525.2	30	$1,165.00	$34,950.00
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	$SO_4^=$ and Na			
2.5	Inorganic Chemicals Gross Alpha Gross Beta, Uranium, RA 226, and RA 228)	12	$450.00	$5,400.00
2.6	Nitrates	1	$15.00	$15.00
2.7	Trihalomethanes	12	$70.00	$840.00
2.8	Haloacetic Acids	12	$150.00	$1,800.00
		Quarterly Total Cost:		$63,455.00
		Total Annual Cost:		***$253,820.00***

(C) SEMIANNUAL TEST: (2 X / year)

Item No	Description	Est. QTY	Cost Per Test	Total
3.0	Inorganic Chemicals (IC): Sb, As, Ba, Be, Cd, Cr, Ni, Se, Tl, CN^-, Hg, F, NO_2^-, NO_3^-, $SO_4^=$, and Na	75	$230.00	$17,250.00
			Total Semi-annual Cost:	$17,250.00
			Total Annual Cost:	**$34,500.00**

(D) ANNUAL TESTS:

Item No	Description	Est. QTY	Cost Per Test	Total
4.0	Volatile Organic Chemicals (VOC)	124	$150.00	$18,600.00
4.1	Nitrates	60	$15.00	$900.00
4.2	Inorganic Chemicals: (IC) Sb, As, Ba, Be, Cd, Cr, Ni, Se, Tl, CN^-, Hg, F, NO_2^-, NO_3^-, $SO_4^=$ and Na.	4	$230.00	$920.00
			Total Annual Cost:	***$20,420.00***

(E) LEAD AND COPPER RULE (2 X per site every three years = 176 during this contract)

Item No	Description	Est. QTY	Cost Per Test	Sample Set Total
5.0	Lead and Copper	44 sites	$30.00	$1,320.00
		Total Cost Under this Contract:		$232,320.00
	(1/5 X Total cost for annualized allocation for price comparison)			*$46,464.00*

UCMR4 SAMPLES(*)

(F) TWO (2) ROUNDS 6 MONTHS APART:
(Expected to start in 2019 and can extend through 2024)

Item No	Description	Est. QTY	Cost Per Test	Total
6.0	*(per round)* - **USEPA List 1,** Assessment Monitoring (including HAA9, TOC and Bromide.)	- 74	$1,300.00	$96,200.00
			Total UCMR4 Cost:	$96,200.00
	(1/5 X Total cost for annualized allocation for price comparison)			*$19,240.00*

TOTAL DRINKING WATER ANNUALIZED COST: $393,944.00

(2) WASTEWATER SAMPLES (*)

(A) QUARTERLY TEST: (4 X / year)

Item No	Description	Est. QTY	Cost Per Test	Quarterly Total
7.0	Metals (Cu, Ni, Zn, Al) (Agat WWTP only)	1	$60.00	$60.00
			Total Annual Cost:	**$240.00**

(B) ANNUAL TEST:

Item No	Description	Est. QTY	Cost Per Test	Total
8.0	Whole Effluent Toxicity; (purple Sea Urchin Bioassay) *[NDWWTP, HWWTP & AWWTP only]*	3	$1,500.00	$4,500.00

8.1	Heavy Metals (As, Cd, Cr^{3+}, Cr^{6+}, Cu, Hg, Pb Ni, Ag, and Zn) *[all 4 WWTPs]*	4	$180.00	$720.00
8.2	Chlordane and Dieldrin *[Agat WWTP only]*	1	$150.00	$150.00
8.3	All Pesticides (organochlorines, carbamates, herbicides, fungicides, defoliants, and botanicals) ***[see Guam Water Quality Standards-2001 Located in Appendix A]*** *[all 4 WWTPs]*	4	$1,125.00	$4,500.00
8.4	TOC Calibration Reference Test (**Ugum only**. Not a regularly scheduled test. Unit price only in case it is called for). ***[Do not include in Total Cost]***		$50.00	

Total Annual Test Cost: $9,870.00

(C) NPDES PERMIT PERIOD TESTS:

Item No	Description	Est. QTY	Cost Per Test	Total
9.0	Whole Effluent Toxicity Umatac-Merizo WWTP (Fresh water) ***[one time in 2019]***	1	$2,800.00	$2,800.00
9.1	Priority Pollutant Scan ***(a)*** ***(a) once per NPDES permit cycle = one for each WWTP during the Period of this contract.*** *[Appendix F, all GWA WWTP NPDES Permits]*	4	$1,275.00	$5,100.00
	Total for 5-year contract period			$7,900.00
	(1/5 of the total for annualized cost comparison)			***$1,580.00***

TOTAL WASTEWATER ANNUALIZED COST **$11,690.00**

GRAND TOTAL ANNUALIZED COST **$405,634.00**

Summary:

(*) The quantities listed in this bid are based on current information which are specified for evaluation and budgeting purposes. The quantities may change during the period of the contract once awarded. Offerors should consider this as an Indefinite Quantity, Indefinite Delivery bid for contract award when preparing the offers.

Contract Terms:

GWA may enter into a contract on terms acceptable to GWA which shall commence upon vendor's acknowledged receipt of a Notice to Proceed from GWA. The initial term of the contract shall be for a period of three (3) years with an option to renew annually for two additional years. The basis for the multiple year contract is to enhance efficiency, consistency in testing and overall value. The contracts and any extensions thereto are subject to the availability of funds.

Reviewed by: _____
Legal Counsel

Concurred and accepted by the committee members:

_____
Paul Kemp, AGM Compliance and Safety

_____
Carmen Denton, Monitoring Laboratory Services Administrator

_____
Antonio C. Camacho, Buyer II

_____
Nicolas Cabo, Buyer II

_____
Roland Lumongsud, Buyer II

Your approval is greatly appreciated.

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

[✓] CONCURRED [ ] UNCONCURRED

VINCENT ED. GUERRERO, SMA

[✓] APPROVED [ ] DISAPPROVED

10.24.18

MIGUEL C. BORDALLO, P.E. GENERAL MANAGER

EXHIBIT C

GUAM WATERWORKS AUTHORITY
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao GU, 96913
Tel: (671) 300-6027 Fax: (671) 649-3750

NOTICE OF CONDITIONAL AWARD

Date: October 19, 2018

Rick Zimmer
Eurofins Eaton Analytical, LLC
750 Royal Oaks Drive, Suite 100
Monrovia CA. 91016
Phone #671-300-6027
Office: +1 949 716 7180

Re: Invitation for Bid Number: IFB 2018-33 Laboratory Services

Hafa Adai Mr. Zimmer,

The Guam Waterworks Authority ("GWA") has considered the bid submitted by Eurofins Eaton Analytical for the above described reference in response to its Advertisement for bid dated September 10, 2018 and you are hereby notified that the Bid Item (s) submitted has been accepted by GWA. Please be advised the Performance and Payment Bond (which must remain in full force and effect until all performance has ended, which includes all warranty periods).

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

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

/

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

Sincerely,

Miguel C. Bordallo, P.E.
General Manager

ACCEPTANCE OF CONDITIONAL NOTICE OF AWARD

Receipt of the above Notice of Conditional Award for GWA Bid No. 2018-33 is hereby acknowledged

By: Bosco Ramirez
Signature

Title: President
(please print)

Dated this 26 day of October, 2018.

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

Ref: IFB 2018-33 Laboratory Services

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-FY2019
Relative to Ratification of the Contract with Eurofins Eaton Analytical Inc. for Laboratory Services

What is the project's objective and is it necessary and urgent?
The purpose of this resolution is to ratify the 2013 contract amendments for necessary expenditures for laboratory services, starting from August 2, 2018 through the date the new agreement for laboratory services will be signed after PUC approval.

It was the intention of GWA management to continue laboratory services with Eurofins on a month to month basis for an average anticipated cost of $35,700.00 including a 5% contingency in order to comply with federal and local laws and regulations.

The service is necessary and urgent as GWA is left with no other alternatives.

Where is the location?
Samples will be collected from GWA facilities around the island, and prepared for shipment at the new GWA Laboratory facility in upper Tumon. EPA-certified laboratory services will be provided from Eurofins' laboratory facilities within California.

How much will it cost?
Anticipated monthly cost of $35,700.00 including a 5% contingency from August 2, 2018 through the date the agreement will be signed after PUC approval.

When will it be completed?
GWA Management anticipates the new agreement for laboratory services will be issued at the end of the year, so monthly services covered under this ratification are expected through calendar year 2018.

What is the funding source?
Revenue funded.

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. 03-FY2019

RELATIVE TO RATIFICATION OF THE CONTRACT EXTENSION WITH EUROFIN EATON ANALYTICAL INC. FOR LABORATORY SERVICES

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 Consolidated Commission on Utilities under Section 5452 of Title 5 of the Guam Code Annotated has the authority to ratify the procurement of goods and services if there is no indication that the company who was awarded the procurement acted in bad faith and there is a finding that the procurement is for GWA's use and is in the best interest of the Territory of Guam; and

WHEREAS, in April of this year, GWA Compliance and Safety initiated a procurement to replace the current Laboratory Services Contract that was competitively procured in 2013 with a contract date of August 2, 2013 which, after completing two extensions was set to expire on August 2, 2018; and

WHEREAS, on May 7, 2018, GWA put out an Invitation for Bid (IFB) (Exhibit A) that was opened on May 23, 2018, soliciting bid proposals from experienced and responsive bidders for a US Environmental Protection Agency certified lab able analyze water and wastewater sample provided by the Guam Waterworks Authority ("GWA") in a manner that meets the "Standardized Monitoring Requirements" established by the Guam Environmental Protection Agency as provided under the Safe Drinking Water Act and the Guam Primary and Secondary Safe Drinking Water Regulations; and

WHEREAS, after a thorough analysis of the two bids offered at that time, GWA determined that neither bidder was entirely responsive to the technical requirements set forth in the procurement and all bids were rejected (Exhibit B); and

WHEREAS, the procurement documents were revised by GWA regulatory and compliance personnel in preparation to re-bid the solicitation which was advertised on September 10, 2018 (Exhibit C); and

WHEREAS, numerous inquiries came in from potential bidders requesting clarifications which resulted in delaying the opening of the bids to September 27, 2018 (Exhibit D); and

WHEREAS, a conditional award was issued to Eurofins Eaton Analytical, LLC on October 19, 2018 (Exhibit E) (See CCU Resolution 02-FY2019) however, due to the anticipated contract amount, that award requires CCU and PUC approval, which will delay the execution of the contract for this procurement until after the PUC meeting in late December of this year; and

WHEREAS, the average annual anticipated costs for the Laboratory Services is Four Hundred Five Thousand Dollars ($405,000.00) which on a monthly basis, averages approximately Thirty-Five Thousand Seven Hundred Dollars ($35,700.00) including a five-percent (5%) contingency; and

WHEREAS, GWA seeks approval from the CCU to ratify the 2013 contract amendments from August 2, 2018 through the date the agreement will be signed after PUC approval at an estimated monthly cost of Thirty-Five Thousand Seven Hundred Dollars ($35,700.00) per month for laboratory services; and

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

Section 1. The foregoing recitals hereto are hereby ratified, confirmed, and incorporated herein by reference.

Section 2. The Consolidated Commission on Utilities hereby ratifies spending under the existing contract amendments from August 2, 2018 through the end of calendar 2018 at an estimated Thirty-Five Thousand Seven Hundred Dollars ($35,700.00) per month for laboratory services on the following grounds:

a. There was no indication of bad faith or fraud in any of the procurements contained herein.

b. According to GWA management, the services is required to ensure for the ongoing need for analytical testing to comply with the Clean Water Act, the Safe Drinking Act and the 2011 Court Order. The recitals set forth above hereby constitute the findings of the CCU.

c. All of the procurements herein are in the best interest of the Territory of Guam and the Guam Waterworks Authority.

d. Only a reasonable profit was given in those instances where the profit was given.

Section 3. This Resolution is hereby determined to be a declaration of official intent of the Consolidated Commission on Utilities

Section 4. All actions heretofore taken by the GWA or the officers thereof or on their behalf not inconsistent herewith related to these purchases are hereby ratified, approved and confirmed.

Section 5. Based on the foregoing, the CCU authorizes GWA management to pay the amount owed between GWA and Eurofin Eaton Analytical Inc. for the laboratory services at an estimated monthly cost of Thirty-Five Thousand Seven Hundred Dollars ($35,700.00) through the end of calendar year 2018.

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

DULY AND REGULARLY ADOPTED, this 27th day of November, 2018.

Certified by: Attested by:

_____ _____

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

SECRETARY'S CERTIFICATE

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

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

AYES: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

///

///

///

///

EXHIBIT A

GUAM DAILY POST • MONDAY, MAY 7, 2018

Sunscreen ban gains Hawaii support, not certain if Guam will catch up

By Jamie Ward
jamie@postguam.com

While Hawaii passed legislation May 1 banning the sale of sunscreen containing chemicals believed to be harmful to coral reefs, it's unclear if Guam will catch up soon.

The state's move has rekindled a debate on what's more important: Protecting corals, or keeping sunscreens accessible to protect skin from damaging effects of the sun that could lead to cancer?

The Guam Daily Post asked certain senators if they're likely to adopt a move similar to Hawaii's, but there have been no Guam legislative takers so far.

The Hawaii bill awaits the signature of the governor, and the rules don't go into effect until 2021. The legislation would prohibit the distribution of sunscreens containing the chemicals oxybenzone and octinoxate, which some scientists believe contribute to coral bleaching when washed off in the ocean.

The Consumer Healthcare Products Association a 137-year-old national trade association, representing the leading manufacturers and marketers of over-the-counter medicines and dietary supplements, challenged the sunscreen ban.

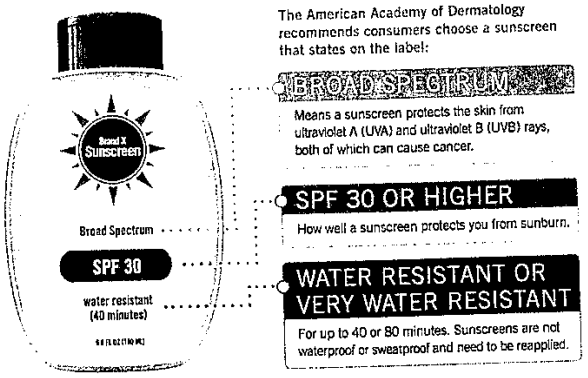
"The health, safety and welfare of millions of Hawaii residents and tourists has been severely compromised by the passage of (legislation) that will ban at least 70 percent of the sunscreens on the market today, based on weak science blaming sunscreens for damage to coral reefs," the trade organization stated recently.

"This irresponsible action will make it more difficult for families to protect themselves against the sun's harmful ultraviolet rays, and it is contrary to the many concerns expressed by Hawaii's medical doctors, dermatologists, and public health experts."

Banning oxybenzone and octinoxate – key ingredients in effective sunscreens on the market – will drastically and unnecessarily reduce the selection of safe and effective sunscreen products available to residents and visitors, the industry group stated.

Oxybenzone and octinoxate, found in the majority of sunscreens, are safe and effective over-the-counter active ingredients recognized by the Food and Drug Administration as important aids in decreasing the risk of developing skin cancer, the industry group stated.

"This ban also avoids the real causes of coral decline according to scientists in Hawaii and around the world: global warming, agricultural runoff, sewage, and overfishing," the industry group stated.



Skin protection

Sunscreen products are regulated as over-the-counter drugs by the U.S. Food and Drug Administration.

The FDA has several safety and effectiveness regulations in place that govern the manufacture and marketing of all sunscreen products, including safety data on its ingredients, according to the American Academy of Dermatology.

"Using sunscreen, seeking shade and wearing protective clothing are all important behaviors to reduce your risk of skin cancer," the academy states. "Scientific evidence supports the benefits of using sunscreen to minimize short-term and long-term damage to the skin from the sun's rays."

"Preventing skin cancer and sunburn outweigh any unproven claims of toxicity or human health hazard from ingredients in sunscreens," the academy stated.

According to the dermatologists' group, sunlight consists of two types of harmful rays that reach the earth — UVA rays and UVB rays. Overexposure to either can lead to skin cancer. In addition to causing skin cancer, the academy states, here's what each of these rays do:

- UVA rays, or aging rays, can prematurely age your skin, causing wrinkles and age spots, and can pass through window glass.
- UVB rays, or burning rays, are the primary cause of sunburn and are blocked by window glass.

Appointment of Palacios to Customs questioned

By Kevin Kerrigan
kevin@postguam.com

A former member of Lt. Gov. Ray Tenorio's staff has raised questions about the appointment of Eric Palacios as director of the Guam Customs and Quarantine Agency.

Geraldine Castillo said she was the recipient of a series of what she described as "inappropriate emails" sent to her by Palacios in 2011 when she was a staff assistant and Palacios was on the lieutenant governor's staff as the administrator of the Guam State Clearinghouse.

Castillo said she never filed a sexual harassment complaint against Palacios, but she brought the emails to the attention of her supervisor, who then raised the issue with the lieutenant governor.

"I spoke to Eric about this, this has been many years ago," Tenorio said when asked about the incident last week. "It came out in the media, you can find the articles," he said.

Tenorio could not recall exactly what Palacios' response was. "I don't know whether, either Eric apologized for it, or acknowledged it, but I know it was something that did come out in the media."

However, Tenorio emphasized, "We don't tolerate it and I know I spoke to him about it, particularly saying we do not tolerate this stuff."

"I beg to differ," said Castillo. "In fact, I was admonished."

Castillo told The Guam Daily Post that the lieutenant governor "was never involved and did not handle it himself." Castillo said, "He delegated it to Dong Choe, his chief of staff at the time," and she was "summoned to Dong's office," where she "was ordered to apologize to Eric." She said Palacios threatened to sue her for defamation of character.

"I was ordered by Dong Choe, to apologize to Eric for sending me inappropriate messages," she said. Did Eric apologize? Never."

Contacted for his comment, Palacios issued the following statement to the Post: "I stand by the resolution of this matter in 2011. This situation involves two former colleagues, was investigated, and no harassment was substantiated. We did apologize to each other, and we have not had any contact since. I hope she is doing well and I continue to wish her the best."

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

*THIS AD IS PAID FOR BY GWA (PUBLIC LAW 26-12)

INVITATION FOR BID

The GUAM WATERWORKS AUTHORITY will receive sealed bids for the following GWA IFB 2018-05 for Laboratory Services. Bids will be accepted until 10:00 a.m. Chamorro Standard Time, May 23, 2018 and GWA IFB 2018-16 for Pick-Up Trucks 4 x 2 Regular Cab. Bids will be accepted until 2:00 p.m. Chamorro Standard Time, May 23, 2018 at the GWA Procurement Office first floor located at the Gloria B. Nelson Public Services Building in Mangilao at which time and place all bids will be publicly opened and read aloud. All bids must be accompanied by a Bid / Performance Bond in the amount of fifteen percent (15%) of the total bid price. Bid security may be bid/performance bond, Surety Bond, certified check or cashier's check made payable to Guam Waterworks Authority. A non-refundable amount of $15.00 is required for the purchase price of every set of bidding documents which are available at the GWA Procurement Office. Bidders can download a bid package at www.guamwaterworks.org without charge, although vendors are strongly encouraged to contact or visit GWA Procurement Office to register to ensure that updated information, notices or bid amendments are distributed to you.

GWA reserves the right to revise or reject any or all proposals and to waive any minor imperfection in the bid proposal in the interest of the Guam Waterworks Authority.

MIGUEL C. BORDALLO, P.E.
General Manager

EXHIBIT B

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

Subject: IFB Number: 2018-05
For: Laboratory Services
Reference: Re-bid
Bid Opening Date: June 05, 2018
Time: 10:00 AM

Vendor Names Registered Bids:
Eurofins Eaton Analytical LLC.
ARS Aleut Analytical
DG
SGS Guam Inc.
SGS Philippines, Inc.
M.D Wholesale
Cassidy's Associated Insurers, Inc

Evaluations Committee Findings:
Submittals:
Eurofins Eaton Analytical LLC.
ARS Aleut Analytical

The committee members determines that both bid submittals were Nonconformance with the "All or None" requirements, and therefore both offers are deemed non responsive, and thereby the evaluation committee recommends to issue a Re-Bid

Please see attached: **"All or None Bids Proposals."**

7.17.18
Miguel C. Bordallo, P.E. GM

(✓) Approve ( ) Disapprove

Vincent Guerrero, Supply Administrator

(✓) Approve ( ) Disapprove

2 GAR - ADMINISTRATION
DIV. 4 - PROCUREMENT REGULATIONS

CHAPTER 3
SOURCE SELECTION AND CONTRACT FORMATION

f *All or None* Bids or Proposals. Only when provided by the solicitation may a bid or proposal limit acceptance to the entire bid or proposal offering. Otherwise, such bids or proposals shall be deemed to be nonresponsive. If the bid or proposal is properly so limited, the territory shall not reject part of such bid or proposal and award on the remainder.

GUAM WATERWORKS AUTHORITY

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

BID STATUS

Date: July-16-2018

ARS Aleut Analytical
3710 Woodland Dr. Suite 900
Anchorage, AK 99517
TEL: 907-841-9478 -FAX: 907-258-6634

Bid Invitation No. GWA IFB 2018-05 Opened: June 05, 2018 @ 10:00AM

Description: Laboratory Services

The following is the result of the above-mentioned bid. Refer to the items checked below.

[x] Cancelled in its entirety.

[x] **Rejected due to:**

- [ ] Late submission of bid
- [ ] No bid security or insufficient bid security amount submitted as required by Section 11 of the General Terms and Conditions
- [ ] Not meeting the delivery requirement as stated in the IFB
- [x] Non-conformance with the "All or None" requirements.
- [ ] Inability to provide future maintenance and services to the equipment
- **[ ] High price:**
- [ ] Other:

[ ] Bid is recommended for award to: re-bid

Remarks: Thank you for your time and participation.

Miguel C. Bordallo P.E
General Manager

Mary Torres

From: Mary Torres <mtorres@guamwaterworks.org>
Sent: Tuesday, July 17, 2018 1:51 PM
To: Rick Zimmer
Cc: TCAMACHO ; Victoria Heacock
Subject: Bid Status - (RE-BID) GWA IFB 2018-05
Attachments: doc03555820180717133743.pdf

Hafa Adai Rick,

Please see attached Bid Status for IFB 2018-05 (RE-BID) Laboratory Services, bid is recommended for award to Re-Bid. Kindly acknowledge and send back the soonest.

Please feel free to contact me if you have any questions. Have a great day!

Adios,

Mary D. Torres
Buyer II
671-300-6032
Gloria B. Nelson Public Services Building
688 Route 15, Mangilao, Guam 96913
Fax. No.: (671) 649-3750
Better Water Better Lives
better Water Better Lives
GUAM [illegible] AUTHORITY

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

BID STATUS

Date: July-16-2018

Eurofins Eaton Analytical, LLC
750 Royal Oaks Drive, Suite 100
Monrovia Ca, 91016
TEL: 625-386-1100 -FAX: 626-386-1101

Bid Invitation No. GWA IFB 2018-05 Opened: June 05, 2018 @ 10:00AM

Description: Laboratory Services

The following is the result of the above-mentioned bid. Refer to the items checked below.

[x] Cancelled in its entirety.

[x] **Rejected due to:**

- [ ] Late submission of bid
- [ ] No bid security or insufficient bid security amount submitted as required by Section 11 of the General Terms and Conditions
- [ ] Not meeting the delivery requirement as stated in the IFB
- [x] Non-conformance with the "All or None" requirements.
- [ ] Inability to provide future maintenance and services to the equipment
- **[ ] High price:** [ ] Other:

[ ] Bid is recommended to: re-bid

Remarks: Thank you for your time and participation.

Miguel C. Bordallo P.E
General Manager

Mary Torres

From: Mary Torres <mtorres@guamwaterworks.org>
Sent: Tuesday, July 17, 2018 1:47 PM
To: 'Zenon Belanger'
Cc: TCAMACHO ; Victoria Heacock
Subject: Bid Status - (RE-BID) GWA IFB 2018-05
Attachments: doc03555720180717133736.pdf

Hafa Adai Zenon,

Please see attached Bid Status for IFB 2018-05 (RE-BID) Laboratory Services, bid is recommended for award to Re-Bid. Kindly acknowledge and send back the soonest.

Please feel free to contact me if you have any questions. Have a great day!

Adios,

Mary D. Torres
Buyer II
671-300-6032
Gloria B. Nelson Public Services Building
688 Route 15, Mangilao, Guam 96913
Fax. No.: (671) 649-3750
Better Water Better Lives
Better Water Better Lives

GUAM [illegible] AUTHORITY

1

EXHIBIT C

Pacific Daily News - 09/10/2018 Copy Reduced to 79% from original to fit letter page Page : A29

Sports

Djokovic, del Potro meet in final

Sandra Harwitt
Special to USA TODAY

NEW YORK – Last year, Novak Djokovic was watching the US Open from his couch at home while worrying about overcoming a stressful right elbow injury.

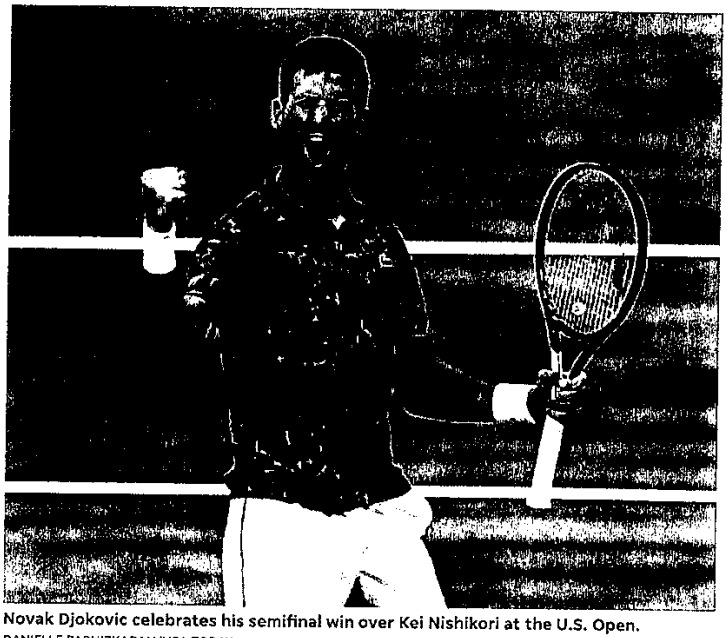
The injury, which required surgery after this year's Australian Open, ended his streak of playing 51 consecutive Grand Slam tournaments.

That is now a distant memory for the Serb, who is back to being a contender at every Grand Slam contested. While Djokovic initially struggled in his comeback from surgery, by Wimbledon he was ready to do damage again, and competently captured his 13th Grand Slam title.

On Sunday, Djokovic will meet third-seeded Juan Martin del Potro of Argentina, the 2009 US Open champion, in the 23rd Grand Slam final of his career.

The sixth-seeded Djokovic advanced to the final in quick order, bypassing 21st-seeded Kei Nishikori of Japan 6-3, 6-4, 6-2 Friday night. Earlier, del Potro moved into his second career Grand Slam final when leading, 7-6 (7-3) 6-2, world No. 1 Rafael Nadal retired from the match with a knee injury.

Djokovic's strategy in the final will be to counter del Potro's two big weapons: his serve and forehand. The Serb does own a 14-4 lifetime record over del Potro that should bolster his confidence.



Novak Djokovic celebrates his semifinal win over Kei Nishikori at the U.S. Open.
DANIELLE PARHIZKARAN/USA TODAY

This will not be the first encounter between the two at the US Open. They met here in the 2007 third round and 2012 quarterfinals. Djokovic prevailed on both occasions.

"I've played him many times on different occasions," Djokovic said. "We've never faced each other in a Grand Slam final, so that's something new.

"One of the keys of the match will be return; how well I can return, how many returns I can get back in play, but also try to have some depth in that return, and how accurately I can serve myself."

For Djokovic, the US Open title quest is about more than just picking up a 14th major trophy.

He's hoping to score back-to-back Wimbledon and US Open titles for the third time in his career. He previously achieved that feat in 2011 and 2015, the two times he won the US Open in seven final appearances in New York.

Del Potro, who underwent four wrist surgeries after winning his lone Grand Slam trophy at the US Open in 2009, shocked Roger Federer in that five-set thriller on Arthur Ashe stadium. It's no wonder the Argentine constantly refers to the US Open as his favorite tournament in the world.

Nevertheless, winning the title will require more than calling the Open his favorite place.

"It will be a difficult match because we are close friends," del Potro said. "For sure, we both want to win. But Novak has won the Wimbledon already. He's playing so good. He will be the favorite to win on Sunday. But I don't know. When I played Roger nine years ago, he was the favorite to win, as well. I will try to make the surprise again.

"I'm here," he added. "I'm excited to keep surprising the tennis world, as I did with myself. (You) never know what could happen in the future. So I'm happy just to be a tennis player again after all my wrist problems."

If del Potro has one special ingredient in his corner it's that he's likely to receive a heftier share of the crowd support in the final. He's a fan favorite in these parts, and coupled with 12 boisterous fans who traveled here from his hometown of Tandil, the stadium will be rocking.

And Djokovic doesn't hesitate in admitting he understands the appeal of his opponent.

"He's a gentle giant," Djokovic said. "He really is. He's very tall, has a big game, but at the same time he nurtures the right values in life. He cares about his family. He cares about his friends. He respects everyone. He fights every match from the first to the last point. I think people can relate to that and appreciate what he brings to the tennis."

CONTRACTORS LICENSE BOARD
Inetnon Malisensiayen Kontratista
542 North Marine Corp Drive A. – Tamuning, Guam 96913
649-2211, 649-9676, 649-2210 (Fax)
EDDIE BAZA CALVO GOVERNOR
EDUARDO R. BROONES EXECUTIVE DIRECTOR

NOTICE OF GOVERNMENT MEETING

The Contractors License Board regular board meeting will be held on **Wednesday, September 12, 2018 at 10:00 a.m.** at the Contractors License Board conference room, located at 542 North Marine Corps Drive in Upper Tumon.

For any special accommodations, please contact 649-2211/9676.

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

*THIS AD IS PAID FOR BY GWA (PUBLIC LAW 26-12)

INVITATION FOR BID

The GUAM WATERWORKS AUTHORITY will receive sealed bids for **Laboratory Services Re-Bid in GWA IFB. NO. 2018-33.** Bids will be accepted until **10:00 a.m.** Chamorro Standard Time, **September 27, 2018** at the GWA Procurement Office first floor located at the Gloria B. Nelson Public Services Building in Mangilao at which time and place all bids will be publicly opened and read aloud. All bids must be accompanied by a Bid / Performance Bond in the amount of fifteen percent (15%) of the total bid price. Bid security may be bid/performance bond, Surety Bond, certified check or cashier's check made payable to Guam Waterworks Authority. A non-refundable amount of $15.00 is required for the purchase price of every set of bidding documents which are available at the GWA Procurement Office. Bidders can download a bid package at www.guamwaterworks.org without charge, although vendors are strongly encouraged to contact or visit GWA Procurement Office to register to ensure that updated information, notices or bid amendments are distributed to you.

GWA reserves the right to revise or reject any or all proposals and to waive any minor imperfection in the bid proposal in the interest of the Guam Waterworks Authority.

Miguel C. Bordallo, P.E.
General Manager

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September 12, 2018 11:01 am (GMT -10:00)
Powered by TECNAVIA

CURRENCY EXCHANGE RATES
On Sept. 7, $1 was worth:

Keep posted and get more data and details online. Log on to see real time market data with our stock market tool at postguam.com/stock_market.

53.669 PHP₱	110.64 JPY¥	1,122.8 KRW₩	30.772 TWD NT$	6.8374 CNY¥	1.3992 AUD A$	0.8594 EUR €

Young logistics company aims to battle Amazon

(Chicago Tribune) - With $40 million in new investments announced Thursday, Chicago-based e-commerce logistics company ShipBob is eyeing an expansion — starting with a new fulfillment warehouse and a push to hire 100 people in the next year.

The startup aims to help small to midsize e-commerce companies ship their products at speeds similar to Amazon. Shipping logistics tends to be the hardest part of launching an e-commerce brand, said Dhruv Saxena, ShipBob's co-founder and CEO.

"The expectation from a customer standpoint is that they will get all of their e-commerce orders delivered to them like Amazon Prime: same-day, next-day," he said. "These e-commerce businesses don't have the infrastructure to support that customer expectation."

ShipBob plans to use its $40 million round of funding to continue working toward that capability and improve its software platform. Its new facility in suburban Cicero, Illinois, is six times larger than the company's previous Chicago-area warehouse. It can facilitate same-day delivery for Chicago-area customers ordering products from e-commerce platform Shopify.

Increasing competition

Other e-commerce fulfillment companies also are investing in the Chicago area to keep up with booming demand from online shoppers.

Las Vegas-based Rakuten Super Logistics announced Wednesday that it would open two additional fulfillment centers, one in New Jersey and the other in suburban McCook, which is expected to open in October. Amazon also has been bulking up its presence in the area and now operates more than half a dozen facilities in Illinois.

There is room in the e-commerce fulfillment world for a company besides Amazon, said Sunil Chopra, a professor at Northwestern University's Kellogg School of Management. To compete with the tech giant and other players, ShipBob will need to take advantage of its scale to lower the cost of its services for customers.

"That is the key," he said.

ShipBob's new Cicero warehouse is roughly the size of two football fields. The space is still filling up, but already occupying the shelves are products from at least 1,000 e-commerce companies, including quinoa snack brand I Heart Keenwah and apparel-maker Creepy Co., both based in Chicago. There are rows of bins filled with smaller items, such as watch straps and zombie T-shirts, and racks of unpacked boxes stuffed with products from socks to back-hair trimmers waiting to be ordered. Workers move between the rows, putting boxes on racks and sorting through pallets. Employees pull deconstructed boxes from piles for packaging.

"There was a time when we knew all the clients and products, and that's long gone," co-founder Jivko Bojinov said on a recent afternoon, as he walked through the rows of items.

In about a year, ShipBob grew to more than 350 employees from 60. The company's hiring plans for the next year are fueled by its plans to open more fulfillment centers and double the size of its software engineering team, Saxena said.

Hard work poured into coffee shop



UNIQUE-LOOKING BUSINESS: *Peter and Hiroko Walls, with their sons Willim, left, and Noel, stand in front of the Slingstone Coffee and Tea on Marine Drive across the Adelup intersection. An old shipping container was converted into the coffee shop. According to Peter Walls, the couple worked on the project for nearly two years before being able to open the business. Walls estimates that he has spent nearly $300,000 to launch the drive-thru concept. Norman M. Taruc/The Guam Daily Post*



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

*THIS AD IS PAID FOR BY GWA (PUBLIC LAW 26-12)

INVITATION FOR BID

The GUAM WATERWORKS AUTHORITY will receive sealed bids for **Laboratory Services Re-Bid, in GWA IFB. NO. 2018-33.** Bids will be accepted until **10:00 a.m.** Chamorro Standard Time, **September 27, 2018** at the GWA Procurement Office first floor located at the Gloria B. Nelson Public Services Building in Mangilao at which time and place all bids will be publicly opened and read aloud. All bids must be accompanied by a Bid / Performance Bond in the amount of fifteen percent (15%) of the total bid price. Bid security may be bid/performance bond, Surety Bond, certified check or cashier's check made payable to Guam Waterworks Authority. A non-refundable amount of $15.00 is required for the purchase price of every set of bidding documents which are available at the GWA Procurement Office. Bidders can download a bid package at www.guamwaterworks.org without charge, although vendors are strongly encouraged to contact or visit GWA Procurement Office to register to ensure that updated information, notices or bid amendments are distributed to you.

GWA reserves the right to revise or reject any or all proposals and to waive any minor imperfection in the bid proposal in the interest of the Guam Waterworks Authority.

MIGUEL C. BORDALLO, P.E.
General Manager

EXHIBIT D

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives"
Gloria B. Nelson Public Services Building
688 Route 15, Mangilao, Guam 96913
PH: 300-6027/30 FAX: 649-3750

September 19, 2018

Bid Amendment No. 1
Invitation for Bid No: 2018-33
For: Laboratory Services (Re-Bid)

Prospective Bidders are hereby notified of the following:

Bid opening date scheduled for September 27, 2018 at 10:00 a.m. has been rescheduled.

New bid opening date and time is scheduled for October 09, 2018 @ 10:00 a.m.

Nothing Follows:

Vincent E. Guerrero, CPM
Supply Management Administrator

EXHIBIT E

GUAM WATERWORKS AUTHORITY
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao GU, 96913
Tel: (671) 300-6027 Fax: (671) 649-3750

NOTICE OF CONDITIONAL AWARD

Date: October 19, 2018

Rick Zimmer
Eurofins Eaton Analytical, LLC
750 Royal Oaks Drive, Suite 100
Monrovia CA. 91016
Phone #671-300-6027
Office: +1 949 716 7180

Re: Invitation for Bid Number: IFB 2018-33 Laboratory Services

Hafa Adai Mr. Zimmer,

The Guam Waterworks Authority ("GWA") has considered the bid submitted by Eurofins Eaton Analytical for the above described reference in response to its Advertisement for bid dated September 10, 2018 and you are hereby notified that the Bid Item (s) submitted has been accepted by GWA. Please be advised the Performance and Payment Bond (which must remain in full force and effect until all performance has ended, which includes all warranty periods).

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

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

/

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

Sincerely,

Miguel C. Bordallo, P.E.
General Manager

ACCEPTANCE OF CONDITIONAL NOTICE OF AWARD

Receipt of the above Notice of Conditional Award for GWA Bid No. 2018-33 is hereby acknowledged

By: Bosco Ramirez
Signature

Title: President
(please print)

Dated this 26 day of October, 2018.

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

Ref: IFB 2018-33 Laboratory Services

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-FY2019
Relative to the Approval of a Multi-Year Lease Agreement for Heavy Equipment

What is the project's objective and is it necessary and urgent?
The objective is to insure that GWA's water and wastewater operations divisions have access at all times to the equipment necessary for daily operational requirements. The long-term lease of additional equipment with maintenance services provided by the vendor will insure maximum availability of the equipment, reduce short-term rental costs when GWA-owned equipment goes down, and can be used by GWA to supplement daily operational requirements in the performance of many the smaller CIP projects and water and wastewater repairs using in-house crews.

Where is the location?
Equipment will be used island-wide, throughout GWA's systems.

How much will it cost?
This is a five (5) year contract term in the amount of $1,160,829.00.

When will it be completed?
The contract is set for a total term of five (5) years.

What is the funding source?
O & M

The RFP/BID responses (if applicable):
- 4 downloaded.
- 1 bid submitted.
- Morrico Equipment LLC awarded the Bid.

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

RESOLUTION NO. 04-FY2019

RELATIVE TO THE APPROVAL OF A MULTI-YEAR LEASE AGREEMENT FOR HEAVY EQUIPMENT

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 has determined that the rate-payers will be best served by the Authority performing many of the smaller CIP projects and water and wastewater repairs using in-house crews, for which reliable, operating heavy equipment is needed; and

WHEREAS, GWA Water Distribution Division and Wastewater Collections Division are frequently delayed in performing regular repair activities because of a shortage of heavy equipment, and the frequent repairs to GWA's ageing equipment fleet to keep them operational; and

WHEREAS, GWA frequently incurs additional costs for short-term equipment rentals to augment daily operations when GWA's own equipment is inoperable; and

WHEREAS, the GWA General Manager requests approval from the CCU to enter into a five (5) year lease to provide multiple pieces of heavy equipment for in-house use by GWA; and

WHEREAS, GWA went out for procurement on May 31, 2018 through IFB-2018-12 for the following nine pieces of equipment:

- (3 each) 4-wheel drive backhoes
- (3 each) heavy-duty trailers
- (3 each) tandem dump trucks

inclusive of full service and maintenance programs for the full term of the lease; and

WHEREAS, although four bidders picked up the procurement packet, two bidders attended the mandatory pre-bid conference, only one bidder submitted a formal bid; and

WHEREAS, after several bid opening extensions required by extensive bidder questions, the bid was opened on September 18, 2018; and

WHEREAS, Morrico Equipment, LLC was the sole bidder on the procurement (See Exhibit A for pricing and specifications); and

WHEREAS, the monthly lease payment for each piece of equipment varied substantially depending on the number of months the lease is in effect; and

WHEREAS, a simple analysis on the pricing variations between the 3, 4 and 5 year options clearly shows that the five-year option was the highest and best use of rate-payer funds for this equipment (See Exhibit A - Yearly Bid Pricing); and

WHEREAS, while a three (3) year term would be within the General Manager's discretionary spending authority, the five (5) year term lease charges are twenty-nine (29%) lower on an annual basis; and

WHEREAS, to increase the availability of the minimum amount of operating heavy equipment necessary for daily operations, and to facilitate self-performing pipeline maintenance and small water and wastewater projects, three truck-trailer-backhoe equipment sets are necessary; and

WHEREAS, GWA Management seeks CCU approval of the five (5) year contract lease with Morrico Equipment, LLC in the amount of One Million One Hundred Sixty Thousand Eight Hundred Twenty-Nine Dollars ($1,160,829.00) for five (5) years ($19,347.00 per month) (see Exhibit B – Projected Payment Schedule); and

WHEREAS, GWA further seeks CCU approval to petition the PUC for its approval under the Contract Review Protocol to award the lease to Morrico Equipment, LLC in the amount of One Million One Hundred Sixty Thousand Eight Hundred Twenty-Nine Dollars ($1,160,829.00) for five (5) years ($19,347.00 per month); and

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 CCU finds that the terms of the proposed lease agreement submitted by Morrico Equipment, LLC is reasonable, prudent and necessary.
3. The CCU hereby further authorizes the management of GWA to enter into a lease agreement with Morrico Equipment, LLC, to provide nine (9) pieces of heavy equipment for GWA in-house crews for a term of five (5) years as specified in the IFB 2018-12.
4. The CCU hereby further approves the funding total of One Million One Hundred Sixty Thousand Eight Hundred Twenty-Nine Dollars ($1,160,829.00) over five (5) years (Exhibits A and B).
5. GWA Management is authorized to seek approval from the PUC as required under the Contract Review Protocol, to award the lease to Morrico Equipment, LLC.
6. The CCU further determines that GWA may use this Resolution as a justification under Section 6 of the Contract Review Protocol.

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

DULY AND REGULARLY ADOPTED, this 27nd day of November, 2018.

Certified by: Attested by:

_____ _____

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

SECRETARY'S CERTIFICATE

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

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

AYES: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

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Exhibit A

MORRICO EQUIPMENT — Employee Owned —
Sales, Rental, Parts and Service

GUAM 96913
OFFICE: Phone: 1-671-649-1946
FAX: 1-671-649-1947
SPARE PARTS: Phone: 1-671-646-7914
Fax: 1-671-646-7900
WEB: www.morricoequipment.com

25 YEARS

FREIGHTLINER Run Smart · KOHLER Generators · FUSO TRUCKS · HYUNDAI CONSTRUCTION EQUIPMENT · Thomas BUILT BUSES

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

Vince Guerrero, SMA
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam 96913

COPY

Guam Waterworks Authority
Invitation to Bid
GWA IFB No. 2018-12
Heavy Equipment Lease

Dated : 18 September 2018
10:00 am

Submitted By :
Morrico Equipment LLC
197 Ypao Road
Tamuning, Guam 96913

ON-SITE DIESEL DELIVERY

TRASHCO GUAM · NEW HOLLAND · Mercedes-Benz powered · DETROIT DIESEL CORPORATION · PALFINGER · BOMAG FAYAT GROUP

I. BID ITEM(s)

Long Term Operating Lease & Maintenance Agreement for following:

Item No.	Description	Qty	Cost Year 1	Cost Year 2	Cost Year 3
1.0	4X4 Backhoe Loader	3 sets	$ 36 Months : $ 111,781.76 48 Months : $ 92,157.05 60 Months : $ 80,331.91	$ 36 Months : $ 111,781.76 48 Months : $ 92,157.05 60 Months : $ 80,331.91	$ 36 Months : $ 111,781.76 48 Months : $ 92,157.05 60 Months : $ 80,331.91
2.0	6X4 Dump Truck 16 Cubic Yard (New)	3 sets	$ 36 Months : $ 183,252.34 48 Months : $ 151,031.50 60 Months : $ 131,651.87	$ 36 Months : $ 183,252.34 48 Months : $ 151,031.50 60 Months : $ 131,651.87	$ 36 Months : $ 183,252.34 48 Months : $ 151,031.50 60 Months : $ 131,651.87
3.0	Backhoe Trailer	3 sets	$ 36 Months : $ 28,083.13 48 Months : $ 23,152.80 60 Months : $ 20,181.94	$ 36 Months : $ 28,083.13 48 Months : $ 23,152.80 60 Months : $ 20,181.94	36 Months : $ 28,083.13 48 Months : $ 23,152.80 $ 60 Months : $ 20,181.94

Item No.	Description	Qty	Cost Year 4	Cost Year 5
1.0	4X4 Backhoe Loader	3 sets	$ 36 Months : NA 48 Months : $ 92,157.05 60 Months : $ 80,331.91	$ 36 Months : NA 48 Months : NA 60 Months : $ 80,331.91
2.0	6X4 Dump Truck 16 Cubic Yard (New)	3 sets	$ 36 Months : NA 48 Months : $ 151,031.50 60 Months : $ 131,651.87	$ 36 Months : NA 48 Months : NA 60 Months : $ 131,651.87
3.0	Backhoe Trailer	3 sets	$ 36 Months : NA 48 Months : $ 23,152.80 60 Months : $ 20,181.94	$ 36 Months : NA 48 Months : NA 60 Months : $ 20,181.94

SPECIAL PROVISIONS:

The Contractor shall provide for all spare parts, carry out repairs and maintenance, change oil/lubricants and other disposable supplies as needed for the equipment's at no additional cost to GWA. In case of any mechanical breakdown or failure, the Contractor shall exhort all ways and means possible to restore the Heavy Equipment(s) in good working conditions immediately. The Contractor shall be responsible to carry out recoveries in cases of breakdowns or accidents.

Good Working Condition means the Heavy Equipment performs at its optimum capacity without technical / mechanical deficiencies or glitches.

Heavy Equipment(s) rendered unserviceable following a breakdown, repeated breakdown(s) within a short period (two (2) times within a week) other than unforeseen events, GWA reserves the right to request said Heavy Equipment(s) to be replaced within twenty- four (24) hours of receipt of notification from GWA.

In the event that no replacement equipment is made available or provided, GWA reserves the rights to engage any other contractor to provide the Services and deduct all charges incurred from the Contractors monthly payment.

GENERAL SPECIFICATION ON ITEM 1.0 (OR APPROVED EQUAL):

Type:

- 4-in-1 backhoe loader.

Description:

- 4-in-1 backhoe loader with extended dig depth.

Intended Service:

- Exploratory digging, concrete & asphalt breaking and removal, tampering & road repairs.

ENGINE:

Induction:

- Turbo.
- Power rating @ 2,200 rpm; 100rpm: 100 HP, (minimum requirement).
- Net power rating @ 2,000 rpm: 98 HP, (minimum requirement).
- Net torque @ 1,4000 rpm: 290 ft. lbs., (minimum requirement).
- Displacement: 276 cu. in., (minimum requirement).

Cab Specifications:

- **Fully Enclosed Cab.**
- Modular-design ROPS/FOPS cab with molded roof: Isolation mounted.
- Left& Right access.
- Slip-resistant steps and ergonomically located handholds.
- Molded floor mats.
- Headliner.
- 12-volt outlets (2).
- Auto-idle.
- Interior rearview mirror.
- Interior front-view mirrors.
- Outside rearview mirrors.
- Stabilizer controls in the left armrest.
- Rotary-dial hand throttle.
- Suspended foot throttle.
- Tilt steering, infinitely adjustable.
- Horn in side console.
- Seat belt, 76-mm (3 in.) with retractor.
- Key start switches with electric fuel shutoff.
- Electronic anti-theft enabled monitor.
- Engine coolant temperature gauge, illuminated electronic, with audible warning.

- Oil temperature gauge, illuminated electronic, with audible warning.
- Fuel gauge, illuminated electronic.
- Digital display of engine hours, engine rpm, and system voltage.
- Monitor system with audible and visual warnings: engine air restriction indicator; low alternator voltage indicator; engine oil pressure indicator; hydraulic filter restriction indicator; parking brake on/off indicator with audible warning; seat belt indicator; low brake pressure; machine diagnostic information via 4-push button; LCD interface.
- Air suspension vinyl 3600 swivel seat with lumbar adjustment and armrests (fully adjustable); Tinted safety glass; Sun visor; Headliner; am/fm weather-band radio; left and right cab doors; Dome light; windshield wiper (1 front and 1 rear); tilt-steering, halogen work lights (6) 32,000 candlepower each (2 front, 2 rear, and 2 side docking); air conditioner (7.6-kw [26,000 btu/hr] output and CFC-free R134a refrigerant).

Transmission:

- Manual 4WD Transmission.
- 2WD/4WD 4 Speed forward and reverse with 4 WD engagement.

Axles: (minimum requirements)

- Static load rating
- Front: 53,400 ft-lbs. (237,500 Nm).
- Rear: 42,150 ft.-lbs. (187,500 Nm).

Dynamic Load Rating: (minumim requirements)

- Front: 21,360 ft.-lbs. (95,00 Nm).
- Rear: 16,860 ft.-lbs (75,000 Nm).

Brake System:

- 4-wheel brake system
- long life sealed brake system, self-equalizing and self-adjusting.

Hydraulic System: (minimum requirements)

- Main pump @ 2,200 rpm: 21 gpm (80 Lpm).
- Secondary pump @ 2,200 rpm: 21 gpm (80 Lpm).
- System Main Relief Setting: 3,250 psi (225 bar).
- Unloader Setting: 3,000 psi (207 bar).

Loader Dimensions: (minimum requirements)

- Loader bucket: 1.65 cu. yd. (1.2 cu. m.) 7-in-1 bucket.
- Dump clearance, @ 45°: 9'0" (2.71 m).
- Reach at full height, @ 45°: 2.9" (829 mm).
- Overall operating height: 14'2" (4.31 m).

Backhoe Dimensions: (minimum requirements)	**Deep Dig Dipper (Ret.)**	**Deep Dig Dipper (Ext.)**
• Dig depth SAE:	15'11" (4.85 m)	20'4" (6.2 m)
• Reach-ground level to swing post:	19'10" (6.03 m)	24' 0" (7.32 m)
• Operating height:	19' 8" (5.99 m)	22' 6" (6.86 m)
• Loading height SAE:	12' 4" (3.75 m)	14' 7" (4.44 m)
• Bucket rotation (speed):	194°	194°
• Bucket rotation (power):	163°	163°
• Side reach from stabilizers:	13' 5" (4.07 m)	17' 7" (5.36 m)
• Stabilizer spread:	11' 3" (3.43 m)	11' 3" (3.43 m)
• Maximum leveling angle:	15°	15°

Additional Requirements: (Backhoe Loader)

- Operators manual.
- Maintenance manual.
- Parts & service manual.
- Spare tire (1 ea. Front/1 ea. Rear).

AUXILARY HYDRAULIC CONTROLS FOR ATTACHMENTS LISTED BELOW: (NOTE: ATTACHMENT COSTS WILL BE INCLUDED WITH "BID PACKAGE")

Rock Drill Hydraulic Hammer: (minimum requirements)

- Max energy per blow / ft. lbs.: 850 ft. lbs.
- Required flow/GPM: 14-26 gpm.
- Operating pressure 1800 psi.
- Blows per minute: 550-1,200 bpm.
- Tool diameter (inches): 3".
- Overall length (inches): 63".
- Parts, service, and maintenance manual for above attachment.

Plate Compactor: (minimum requirements)

- Impulse force: 6,500 lbs. (3,000 kg)
- Frequency: 2,000 cpm (2,000 npm)
- Hydraulic flow: 20 gpm (75 lpm)
- Pressure: 2,200 psi (150 bar)
- Bottom plate: 24" x 34" (610 mm x 865 mm)
- Parts, service and maintenance manual for above attachment.

Mounting Hardware and Accessories:

- Mounting bracket: Quick Connect Mounting Bracket for Installation and Removal.

- Hydraulic fittings: Quick Connect Fitting for Installation and Removal.

TECHNICAL SPECIFICATIONS FOR TRAILER:

Trailer:

- The trailer assembly shall be furnished with a data plate showing the product/model number, serial number, axle and wheel rating, maximum speed and date of manufacturer. The trailer shall display a high standard of workmanship in accordance with industry standards. It should withstand all normal road shock and vibration without damage to welded or bolted connections. All materials used in the manufacturer of the trailer shall be new. Burned surfaces of flame cut materials shall be ground smooth.

Axles& Suspension:

- Shall be provided with heavy duty dual axles. To keep road-transmitted shock and vibration to a minimum, the axles shall be suspended from the trailer frame by leaf-type spring or better.

Wheels:

- Wheels, 235R75 x 17.5 or equal.

Towing & Safety Requirements:

- Trailers are to be Adjustable Pintail Hitch type complete with adjustable jack stand. The adjustable jack stand with sand shoe provided with the trailer shall have a hand-operated crank to raise or lower the front end into position for hookup to towing vehicle.

Safety Chains:

- Two safety chains of normal ½-inch high test steel with a proof test capability of 13,700 lbs. Chains shall be provided with slip hooks and safety latches.

Brakes:

- Trailer shall be supplied with a hydraulic surge brake.

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Breakaway Switch:

- In the event the trailer should break away from the towing vehicle, a breakaway switch shall activate the trailer to bring it to a complete stop; power to this switch is activated by the rear ward movement of the trailer by means of a wire cable attached to the towing vehicle.

Lights, Reflector, and Wiring:

- Six pin male plug connectors shall be provided for connection to the towing vehicle electrical system, plug must be located on the tongue of the trailer, must include license plate light and brackets.
- The following lights and reflectors shall be provided on the trailer. Two combination brake, running and turn signal red lights, one on the left and one on the right rear end of the trailer.

Electric Winch:

2,500 lbs. power winch attached and bolted on the front end of trailer.

Type of Equipment:

Year: 2018

Make: New Holland Construction (Backhoe) & Felling Trailers, Inc. (Trailer)

Model: B110B Backhoe & FT-24-2 LP Trailer

Equipment Availability: Backhoe : 250 Days, as per bid request
Trailer : 250 Days, as per bid request

GENERAL SPECIFICATION ON ITEM 2.0 (OR APPROVED EQUAL):

Unit:

- Model : Conventionnel.
- Type : full truck.
- Description : Dump 6x4-16 Cu. Yd.

Body:

- Type: End Dump.
- Length: (ft.) 16.0.
- Height: (ft.) 13.5.
- Max laden weight (lbs.) 8,500.

Restriction:

- Length: (ft.) 12.0.
- Width: (ft.) 10.2.
- Height: (ft.) 15.0.

Chassis: (minimum requirements)

- Front axle load: (lbs.) 20,000.
- Rear axle load (lbs.) 52,000.
- G.C.W. (lbs.) 72,000.

Road Condition:

- Class A (highway) 00.
- Class B (highway/mountain) 95.
- Class C (off-highway) 05.
- Class D (off-road) 00.

Maximum Grade: 6 (minimum requirements)

- Wheel base (In.) 233.
- Front axle to BOC (In.) 74.
- Cab to axle (In.) 159.
- Cab to EOF (In.) 219.

Engine & Equipment: (minimum requirements)

- ISM 524V 425@2000 410@2100 1550@1200.
- Cruise Control auto resume, gear down protection, 65 mph max vehicle speed in top gear, 65 mph max cruise speed, 1400 max PTO speed.

Transmission & Clutch:

- Clutch 7 spring 4 paddle ceramic to 1650 lb. ft.
- Manual Transmission.

Front Axle & Equipment: (minimum requirements)

- Front axle 20,000 lbs. Load Capacity Front brakes. 22,000 lbs. Braking Capacity.
- Front vented hubcaps.
- Front automatic slack adjusters.
- Front springs taper leaf 20k w/shock absorbers.

- Maintenance-free elastomer spring pin bushings.
- Dual power steering gears 20k TRW TA65.

Rear Axle & Equipment: (minimum requirements)

- Dual rear axle 52,000 lbs. Load Capacity.
- Rear axle ratio 4.56.
- Dual rear brakes 46,000-52K lbs. Brake Capacity.
- Dual rear low maintenance hub package.
- Dual rear axle automatic slack adjusters.
- Dual spring brake 3030 output.
- Dust shield: all rear axles.
- 52k & 54 in. axle space with 7.19 in. saddle height & bar pin bushing & bronze center bushing. Unladen height: 12.2 in. laden height: 11.1 in. minimum requirement.

Tires & Wheels: (minimum requirements)

- FR 425/65R22.5 20 PR.
- 44.8 in. diameter, all positions 20.7 in. SLR, On/Off highway, wide base tire. Curb protector bar.
- FR wheel" standard size rims 22.5x12.25.
- Hub pilot mount. 11,400 lb. max rating. Super single.
- FR wheel/rim quantity: 3 each.
- RR12R22.5 16PR.
- 43.4 in. diameter, a; position. 20.2 in. SLR. On/Off Highway. 25/32 tread depth.
- RR wheel: standard size rims 22.5x8.25.
- Hub pilot mount. 7,400 lb. max rating.
- RR wheel/rim quantity: 9 each.

Frame & Equipment:

- Bumper straight aluminum channel.
- Front mud flaps.
- Battery box location left hand side.
- Rear mud flaps arms fleet line FF30P.
- Steel spring loaded & painted.

Fuel Tank & Equipment: (minimum requirements)

- Fuel tank 100 US gallon 24.5 in. aluminum.
- Class 8 fuel tank with an anti-siphon devise on the filler neck.

Cab & Equipment: (minimum requirements)

- Cab: curbed glass conventional.
- Cab heater with integral defroster & AC.
- 18 in. 4-spoke steering wheel.
- Adjustable telescoping tilt steering column.
- Multi-function high display.
- Instrument package:
  Includes speedometer, tachometer, fuel gauge, engine coolant, temperature gauge, Engine oil pressure, voltmeter, Class 8 also include primary and secondary air reservoir gauges and an air application gauge, and hour meter.
- Warning light for parking brake.
- DR seat KW air cushion plus HB cloth and dual arm rest.
- Single air horn.
- Dual fixed heated mirrors 7 in. x 16 in. must include 7 ½ in.
- Convex Mirror, RH.
- AM/FM radio with speakers.

Light & Instrument: (minimum requirements)

- Dual rectangular extended life halogen headlamps.
- Five marker aerodynamic light mounted on sun visor.
- Fender mounted turn signal lights.
- Interrupter switch for marker lights.

Paint:

- Preferably White.

Additional Accessories:

- Emergency kit should consist of three (3) triangles in a plastic carrying case.
- Fire extinguisher - A, B, C rated.
- Electrical canopy & canopy assembly for rear dump bed.
- Remote operated from cab interior.
- Towing package with pintle hook C-clamp for 20-ton trailer.
- Operator's manual.
- Repair Maintenance manual.
- Service/parts maintenance manual.

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Type of Equipment:

Year: 2019

19

Ref: "AMENDED VERSION" BID AMENDMENT NO. 8

Exhibit B

Exhibit B

Projected Payment Schedule for Long Term Operating Lease & Maintenance Agreement

Item Description	Year 1	Year 2	Year 3	Year 4	Year 5	Total
4x4 Backhoe Loader (3)	$ 80,332	$ 80,332	$ 80,332	$ 80,332	$ 80,332	$ 401,660
6x4 Dump Truck 16 Cubic Yard (3)	$ 131,652	$ 131,652	$ 131,652	$ 131,652	$ 131,652	$ 658,259
Backhoe Trailer (3)	$ 20,182	$ 20,182	$ 20,182	$ 20,182	$ 20,182	$ 100,910
	$ 232,166	$ 232,166	$ 232,166	$ 232,166	$ 232,166	$ 1,160,829

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-FY2019
Relative to Approval of a Two-Year Extension of the Contract with JMI Edison for the Purchase of Cationic Polymer for the Hagåtña and Northern District Wastewater Treatment Plants.

What is the project's objective and is it necessary and urgent?
The objective is to exercise the available option years for an existing supply contract for chemicals used at several of GWA's Wastewater Treatment Plants and to ensure sufficient stock is available at all times. The proposed action is necessary to insure a consistent stock of chemicals at all times in order to continue treatment of wastewater required by USEPA and specified in § II A Paragraph 5 of the 2011 Court Order.

Where is the location?
The chemicals will be used at the Hagåtña and Northern District Wastewater Treatment Plants, and also at the newly commissioned Agat-Santa Rita Wastewater Treatment Plant.

How much will it cost?
Under the two (2) year option at the negotiated price of $1.56 per pound for a total cost of Six Hundred Eighty-Six Thousand Seven Hundred Twenty Dollars ($686,720.00) plus a ten percent (10%) contingency of Sixty-Eight Thousand Six Hundred Seventy-Two Dollars ($68,672.00) which totals out to GWA's requested approval for funding on this contract of Seven Hundred Fifty-Five Thousand Three Hundred Ninety-Two Dollars ($755,392.00)

When will it be completed?
Delivery of chemicals is sixty (60) days after receipt of order, this is an ongoing contract initiated for a total of three (3) years with two (2) one (1) year options to renew.

What is the funding source?
The purchases under the proposed extended contract will be revenue (O & M) funded.

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-FY2019

RELATIVE TO APPROVAL OF A ONE-YEAR EXTENSION OF THE CONTRACT WITH JMI-EDISON FOR THE PURCHASE OF CATIONIC POLYMER FOR THE HAGÅTÑA AND NORTHERN DISTRICT WASTEWATER TREATMENT PLANTS

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 remains under the 2011 Court Order ("CO") Projects which requires, among many other things, the operation of the Northern and Hagåtña District Wastewater Treatment Plants (WWTPs) to use Chemically Enhanced Primary Treatment as specified in § II A Paragraph 2 of the CO; and

WHEREAS, the Chemically Enhanced Primary Treatment at the Northern and Hågatña District WWTP requires the purchase of chemicals for the application of the treatment process; and

WHEREAS, on July 30, 2015, GWA filed a Petition with the Guam Public Utilities Commission ("PUC") for approval to issue a bid for chemicals for the Northern and Hågatña District WWTP facilities; and the GWA Petition was approved by the PUC on August 27, 2015; and

WHEREAS, GWA issued Bid Number 2015-10 to solicit bid proposals from experienced and responsive bidders to provide the chemicals needed to continue to operate the

Northern District WWTP and the Hågatña District WWTP in compliance with § II A Paragraph 3(a) of the CO; and

WHEREAS, there were two responsive and responsible bidders who offered chemicals meeting the requirements of IFB 2015-10 **(**see Exhibit A); and

WHEREAS, upon approval by the CCU and the PUC in early FY2016, GWA entered into a contract for Cationic Polymer with JMI-Edison containing a three (3) year initial term with a two (2) year option clause (see Exhibit A); and

WHEREAS, GWA negotiated a $1.56 per pound price (12 cent/pound increase) with JMI-Edison for it to supply Cationic Polymer for the option term which, at an estimated usage of 13,000 pounds per month, comes to Two Hundred Forty-Three Thousand Three Hundred Sixty Dollars ($243,360); and

WHEREAS, GWA estimates 5,340 pounds per month of chemical consumption for the Agat-Santa Rita Wastewater Treatment Plant for an annual amount of approximately One Hundred Thousand Dollars ($100,000.00), as such GWA seeks approval for an additional purchase of Cationic Polymer in the amount not to exceed One Hundred Thousand Dollars ($100,000.00) for each option year term as specified in IFB 2015-10; and

WHEREAS, the total amount of Cationic Polymer needed per year comes out to Three Hundred Forty-Three Thousand Three Hundred Sixty Dollars ($343,360.00); and for a two (2) year extension the amount will be Six Hundred Eighty-Six Thousand Seven Hundred Twenty Dollars ($686,720.00) plus a 10% contingency of Sixty-Eight Thousand Six Hundred Seventy-Two Dollars ($68,672.00) which totals out to GWA's requested approval for funding on this contract of Seven Hundred Fifty-Five Thousand Three Hundred Ninety-Two Dollars ($755,392.00); and

WHEREAS, GWA Management seeks CCU approval of the two (2) year contract extension with JMI-Edison, in an amount not to exceed Seven Hundred Fifty-Five Thousand Three Hundred Ninety-Two Dollars ($755,392.00) for the Cationic Polymer chemical; and

WHEREAS, GWA seeks CCU approval to Petition the PUC to approve the two (2) year contract extension with JMI-Edison, in an amount not to exceed Seven Hundred Fifty-Five Thousand Three Hundred Ninety-Two Dollars ($755,392.00); and

WHEREAS, the source of funding for the chemical purchases will be from the FY2019 GWA Wastewater Operations Budget.

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

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the negotiated contract option price agreed to by JMI-Edison is fair and reasonable.
3. The CCU finds that the terms of the conditions set by GWA relative to providing necessary chemicals are fair and reasonable.
4. The CCU hereby authorizes the management of GWA to exercise the two (2) each one (1) year option periods allowed in the contract (Exhibit A) with JMI-Edison at the $1.56/pound negotiated price.
5. The CCU hereby further approves the funding total not to exceed Seven Hundred Fifty-Five Thousand Three Hundred Ninety-Two Dollars ($755,392.00) for the JMI-Edison contract option to supply Cationic Polymer.
6. The CCU hereby further authorizes GWA Management to petition the PUC for approval of the JMI-Edison contract option.

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

DULY AND REGULARLY ADOPTED, this 27th day of November 2018.

Certified by: Attested by:

_____ _____

JOSEPH T. DUENAS
Chairperson

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: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

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EXHIBIT A

FORMAL CONTRACT

THIS AGREEMENT is made and entered into this 20TH day of JANUARY, 2018 by and between the **GUAM WATERWORKS AUTHORITY** ("GWA"), whose business address is: Gloria B. Nelson Public Services Building, 688 Route 15 Mangilao, Guam 96913, and **Johndel International Inc., DBA as JMI-EDISON, ("Bidder")**, whose mailing address is: 125 N. Marine Corps Drive, Tamuning, GU 96931 licensed to conduct business on Guam and having Guam business license No. 1603921.

WITNESSETH, that whereas, GWA intends to purchase cationic polymer for the purpose of using at GWA's Northern District and Hågatña Wastewater Treatment Plants to ensure regulatory compliance as identified in GWA Bid No. 2015-10.

NOW THEREFORE, GWA and the Bidder for the considerations hereinafter set forth herein and in other documents associated with the performance hereunder. agree as follows:

SECTION 1. THE BIDDER AGREES:

To provide cationic polymer manufactured by Veolia Water Treatment Technologies as specified in GWA IFB No. 2015-10 at a cost to GWA of $1.45 cents per pound CIF delivered pursuant to the bid on an "as-needed basis." Bidder agrees to maintain all time all licenses, labor, insurance, material, equipment, tools and services necessary to perform and comply with this Contract and the Contract Documents as defined in Section 3 herein. Bidder also understands that it is responsible for all taxes and fees which may be due relative to payment or performance hereunder (including but not limited to, all employee, corporate and gross receipt taxes). GWA reserves the right to amend this Agreement or request a change order, but the right is subject to the mutual agreement of both parties and all amendments or change orders shall be in writing signed by both parties.

(a) CONTRACT TIME: The Bidder agrees to commence work under this contract upon written notice to proceed and to provide the goods and services at the price specified above for a period of three years (3) from the date of the Notice to Proceed and as specified in the Bid Documents relative to the time, place and manner provided in the Bid Documents (as amended). Bidder agrees by placing their signature hereto that they have been placed on notice that the provision of the goods and services hereunder is necessary to protect the public health and that time is always of the essence.

(b) The Bidder understands that this procurement was not an "all or nothing bid" and that GWA could award a portion of the work called for under the bid to another party, and that in this case, GWA has done so.

(c) Bidder further understands that all the work called for under this bid is subject to the requirements of the Guam Public Utility Commission's Contract Review Protocol, and while GWA has secured approval for the initial three (3) year contract term, the additional two (2) one (1) year term extensions are subject to further approval from the Guam Public Utilities Commission as a condition precedent to work being performed under said extensions.

(d) SUB-CONTRACTORS: The Bidder agrees to bind every sub-contractor to the terms of the Contract Documents. Bidder further agrees that no sub-contractor Bidder may be allowed to perform in any fashion whatsoever under this contract until such time as the express written approval of GWA is obtained. The Contract Documents shall not be construed as creating any contractual relation between a sub-contractor and the Guam Waterworks Authority.

(e) Bidder further understands that the price specified in this section shall remain fixed for the initial three (3) year term regardless of the amount of chemicals ordered by GWA.

SECTION 2. GWA AGREES:

To pay, and the Bidder agrees to accept in full payment for the performance of this Contract, for cationic polymer manufactured by Veolia Water Treatment Technologies as specified in GWA IFB No. 2015-10 at a cost to GWA of $1.45 per pound CIF delivered pursuant to the bid on an "as-needed basis."

Any adjustment in contract price pursuant to clauses in this contract shall be made in one or more of the following ways:

(a) by agreement on a fixed price adjustment before commencement of the pertinent performance or as soon thereafter as practicable;

(b) by unit prices specified in the contract or subsequently agreed upon;

(c) by the costs attributable to the event or situation covered by the clause, plus appropriate profit or fee, all as specified in the contract or subsequently agreed upon;

(d) in such other manner as the parties may mutually agree; or

(e) in the absence of an agreement between the parties, by a unilateral determination by the GWA General Manager of costs attributable to the event or situation covered by the clause, plus appropriate profit or fee, all as computed by the GWA General Manager in accordance with generally accepted accounting principles and applicable sections under Chapter 7 (Cost Principles) of the Guam Procurement Regulations and subject to the provisions under Title 5, Chapter 5 of the Guam Code Annotated (Legal and Contractual Remedies).

For the purposes of this contract, no price adjustment shall be made unless the vendor can prove that their cost for the chemical specified in this bid has increased more than 50%.

For any request for a price adjustment, the Bidder shall submit cost or pricing data for any price adjustments subject to the provisions of 2 G.A.R. § 3118 of the Guam Procurement Regulations. Information that may be required under this provision include, but is not limited to, invoices from the vendor's supplier for goods, proof of payment for such goods from the supplier or other proof as GWA may require which proves that the price has risen substantially enough to warrant a price modification.

SECTION 3. CONTRACT DOCUMENTS:

It is hereby mutually agreed that the following list of instruments, plans, specifications and documents which are attached hereto, bound herewith or incorporated herein by reference shall constitute the Contract Documents, all of which are made a part hereof, and collectively evidence and constitute the Contract between the parties, hereto, and they are as fully a part of this Agreement as if they were set out verbatim and in full herein, and are designated as follows:

a. Invitation to Bid
b. Instructions to Bidders
c. Bid
d. Form of Non-Collision Affidavit
e. Bid Bond
f. Certification of Bidders Regarding Equal Employment Opportunity
g. Formal Contract (which shall control in the event of conflict between this and any other contract or bid document)
h. Performance Bond
i. Payment Bond
j. General Provisions
k. Special Provisions
l. Technical Specifications
m. Plans
n. Addenda/Amendments
o. Answers to Questions (if GWA determines they are applicable).

SECTION 4. LIQUIDATED DAMAGES:

The Bidder further agrees to pay to GWA the amounts stated in the bid (or the minimum specified in Guam law) for failing, neglecting or refusing to complete the work within the time herein specified and said sum shall be paid for each consecutive calendar day therefore that the Bidder shall be in default after the time stipulated in the Contract for completing the work, ready for use and/or operations. Sundays and legal holidays will be excluded in determining the number of days in default.

SECTION 5. COVENANT AGAINST CONTINGENT FEES:

The Bidder warrants that he has not employed any person to solicit or secure this contract upon any agreement for a commission, percentage, brokerage, or contingent fee. Breach of this warrant shall give GWA the right to terminate the contract, or at its direction, deduct from the contract price or consideration the amount of such commission, percentage, brokerage or contingent fee. This warranty shall not apply to commission's payable by Contractors upon contracts or sales secured or made through bona fide established commercial or selling agencies maintained by the Bidder for the purpose of securing business.

SECTION 6. OTHER CONTRACTS:

GWA may award other contracts for additional work, and the Bidder shall fully cooperate with such other contractors and carefully fit his own work to that provided under other contracts as

may be directed by the Contracting Officer. The Bidder shall not commit or permit any act which will interfere with the performance of work by any other contractor.

SECTION 7. DISPUTES:

Except as otherwise specifically provided in this contract, all disputes concerning questions of fact arising under this contract shall be decided by the GWA General Manager whose decision shall be final and conclusive upon the parties thereto. In the meantime, the Bidder shall diligently proceed with the work as directed. However, the final decision of the GWA General Manager is appealable to the Guam Public Auditor as provided under 5 G.C.A. § 5427(e).

SECTION 8. CONTRACT BINDING:

It is agreed that this Contract and all the Covenants hereof shall insure to the benefit of and binding upon GWA and the Bidder respectively and his parties, successors, assignees and legal representative. Neither GWA nor the Bidder shall have the right to assign, transfer or sublet his interests or obligations hereunder without written consent of the other party.

It is hereby mutually agreed by and between the parties hereto that no mechanic, contractor, subcontractor, material man or other person can or will contract for or in any other manner have or acquire any lien upon the binding or works covered by this contract, or the land upon which the same is situated.

SECTION 9. GWA NOT LIABLE:

A. GWA, its officers, agents, employees and governing board assumes no liability for any accident or injury that may occur to the Contractor, Contractor's agents, employees, or to Contractor's property while on the job or otherwise en route to or from the job during any travel required by the terms of this agreement.

B. GWA, its officers, agents, employees and governing board shall not be liable to Bidder for any work performed by the Bidder prior to the written and signed approval of this Contract by the General Manager for GWA and the Bidder hereby expressly waives any and all claims for service performed in expectation of this agreement prior to its signature of the General Manager.

SECTION 10. NOTICES:

All notices between the parties shall be in writing and shall be deemed served when personally delivered or when deposited in the mail, registered or certified, first-class postage prepaid, addressed as follows:

To: **GUAM WATERWORKS AUTHORITY**

Greg P. Cruz
Interim General Manager
Gloria B. Nelson Public Services Building
688 Route 15, Mangilao, 96913

To: **BIDDER**

Eduardo R. Ilao
President, JMI-Edison
125 North Marine Corps Drive
Tamuning, GU 96913
Tel: 649-5444
Fax: 649-5685

SECTION 11. TERMINATION:

Section 11.1 – Termination For Default:

(1) Default. If the Bidder refuses or fails to perform any of the provisions of this contract with such diligence as will ensure its completion within the time specified in this contract, or any extension thereof, otherwise fails to timely satisfy the contract provisions, or commits any other substantial breach of this contract, GWA may notify the Bidder in writing of the delay or non-performance and if not cured in five (5) working days or any longer time specified in writing by the GWA, GWA may terminate the Contractor's right to proceed with the contract or such part of the contract as to which there has been delay or a failure to properly perform. In the event of termination in whole or in part the GWA may procure similar services in a manner and upon terms deemed appropriate by the GWA. The Bidder shall continue performance of the contract to the extent it is not terminated and shall be liable for excess costs incurred in procuring similar services.

(2) Contractor's Duties. Notwithstanding termination of the contract and subject to any directions from the GWA, the Bidder shall take timely, reasonable, and necessary action to protect and preserve property in the possession of the Bidder in which GWA has an interest.

(3) Compensation. Payment for completed services delivered and accepted by the government and GWA shall be at the contract price. GWA may withhold from amounts due the Bidder such sums as the GWA deems to be necessary to protect GWA against loss because of outstanding liens or claims of former lien holders and to reimburse the GWA for the excess costs incurred in procuring similar goods and services (including the provision of these goods and services by GWA personnel). In the event that the Bidder fails to complete the work called for in the bid, fails to provide the goods or services in the allotted time, then Bidder shall pay to GWA ¼ of 1% of the total bid price per day as liquidated damages for the non-performance as specified by the Guam Code Annotated. The liquidated damages herein are not a penalty, but rather a reasonable estimate by GWA of the loss it would suffer as a result of non-performance.

(4) Excuse for Nonperformance or Delayed Performance. Except with respect to defaults of sub-contractor(s) of Contractor, the Bidder shall not be in default by reason of any failure in performance of this contract in accordance with its terms (including any failure by the Bidder to make progress in the prosecution of the work hereunder which endangers such performance) if the Bidder has notified the GWA within fifteen (15) days after the cause of the delay and the failure arises out of causes such as: acts of God; acts of the public enemy; fires; floods; epidemics; quarantine restrictions; strikes or other labor disputes; freight embargoes; or

unusually severe weather. If the failure to perform or to make progress due to such causes similar to those set forth above, the Bidder shall not be deemed to be in default, unless the services to be furnished by the Bidder (or sub-contractor) were reasonably obtainable from other sources in sufficient time to permit the Bidder to meet the contract requirements. Failure of the Bidder (or sub-contractor) to perform for reasons other than cited above shall constitute a default of the Bidder unless cured by Bidder with a reasonable time. Upon request of the Contractor, GWA shall ascertain the facts and extent of such failure, and, if GWA determines that any failure to perform was occasioned by any one or more of the excusable causes, and that, but for the excusable cause, the Contractor's progress and performance would have met the terms of the contract, the delivery schedule shall be revised accordingly, subject to the rights of the GWA and the government of Guam under the laws of Guam.

(5) Erroneous Termination for Default. If, after notice of termination of the Contractor's right to proceed under the provisions of this clause, it is determined for any reason that the Bidder was not in default under the provisions of this clause, or that the delay was excusable under the provisions of Paragraph (4) (Excuse for Nonperformance or Delayed Performance) of this clause, the rights and obligations of the parties shall be the same as if the notice of termination had been issued pursuant to Subsection C, below.

(6) Additional Rights and Remedies. The rights and remedies provided in this clause are in addition to any other rights and remedies provided by law or under this contract.

Section 11.2 – Termination For Convenience:

(1) Termination. GWA may, when the interest of the government so requires, terminate this contract in whole or in part, for the convenience of the government or GWA (including the provision of services by any sub-bidder of the Contractor). GWA shall give 30 days advance written notice of the termination to the Bidder specifying the part of the contract terminated and when termination becomes effective.

(2) Contractor's Obligations. The Bidder shall incur no further obligations in connection with the terminated work (except in the case of Subcontractors where the Bidder is solely liable to GWA for their acts and/or non-performance or breach under this agreement) and on the date set in the notice of termination the Bidder will stop work to the extent specified. The Bidder shall also terminate outstanding orders and subcontracts as they relate to the terminated work. The Bidder shall settle the liabilities and claims arising out of the termination of subcontracts and orders connected with the terminated work. GWA may direct the Bidder to assign the Contractor's right, title, and interest under terminated orders or subcontracts to GWA. The Bidder must still complete the work not terminated by the notice of termination and may incur obligations as are necessary to do so.

(3) Right to Work Product. Upon termination of the contract for the convenience of the government or GWA or for any other reason, Bidder shall transfer title and deliver to GWA all documents and reports, plans, drawings, information and other material produced by Bidder or any of its sub-contractors in connection with the performance of this contract. The Bidder shall protect and preserve property in its possession or in the possession of any of its sub-contractors in which the GWA or the Government of Guam has an interest.

(4) Compensation.

(a) The Bidder shall submit a termination claim specifying the amount due because of the termination for convenience together with cost or pricing data to the extent required by § 3118 (Cost or Pricing Data) of the Guam Procurement Regulations bearing on such claim. If the Bidder fails to file a termination claim within one year from the effective date of termination, GWA may pay the Contractor, if at all, an amount set in accordance with Subparagraph (c) of this Paragraph.

(b) GWA and the Bidder may agree to a settlement provided the Bidder has filed a termination claim supported by cost or pricing data to the extent required by § 3118 (Cost or Pricing Data) of the Guam Procurement Regulations and that the settlement does not exceed the total contract price plus settlement costs reduced by payments previously made by the GWA and the contract price of the work not terminated.

(c) Absent complete agreement under Subparagraph (2) of this Paragraph, GWA shall pay the Bidder the following amounts, provided payments agreed to under Subparagraph (2) shall not duplicate payments under this Subparagraph:

(i) contract prices for services accepted under the contract;

(ii) costs incurred in preparing to perform and performing the terminated portion of the work plus a fair and reasonable profit on such portion of the work (such profit shall not include anticipatory profit or consequential damages) less amounts paid or to be paid for accepted supplies or services; provided, however, that if it appears that the Bidder would have sustained a loss if the entire contract would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss;

(iii) costs of settling and paying claims arising out of the termination of subcontracts or orders pursuant to Subparagraph (b) of this clause;

(iv) the reasonable settlement costs of the Bidder including accounting, clerical, and other expenses reasonably necessary for the preparation of settlement claims and supporting data with respect to the terminated portion of the contract for the termination and settlement of subcontracts hereunder, together with reasonable storage, transportation, and other costs incurred in connection with the protection or disposition of property allocable to the terminated portion of this contract. The total sum to be paid the Bidder under this Subparagraph shall not exceed the total contract price plus the reasonable settlement costs of the Bidder reduced by the amount of payments otherwise made, the proceeds of any sales of supplies and manufacturing materials under Subparagraph (b) of this Paragraph, and the contract price of work not terminated.

(d) Cost claimed, agreed to, or established under Subparagraph (b) and (c) of this Paragraph shall be in accordance with Chapter 7 (Cost Principles) of the Guam Procurement Regulations.

SECTION 12. SEVERABLE PROVISIONS:

If any provision of this agreement shall be deemed by a court of competent jurisdiction to be invalid, then such provision shall be deemed stricken from the agreement and the agreement

shall be enforced according to its valid and subsisting terms and provisions. The terms of this Contract shall control in the event of any conflict between this Contract and any other document incorporated or referenced herein.

SECTION 13. GOVERNING LAW AND VENUE:

The validity of this agreement, as well as the rights and duties of the parties to this agreement, shall be governed by the laws of Guam. Moreover, any and all actions governing this agreement shall be brought in the Superior Court of Guam or the Guam District Court if applicable.

SECTION 14. OWNERSHIP OF DOCUMENTS:

All briefs, memoranda and other incidental Bidder work or materials furnished hereunder shall be and remain the property of GWA including all publication rights and copyright interests, and may be used by GWA without any additional cost to GWA.

SECTION 15. INDEMNITY:

Bidder agrees to save and hold harmless GWA, its board members, officers, agents, representatives, successors and assigns and other governmental agencies from any and all suits or actions of every nature and kind, which may be brought for or on account of any injury, death, or damage arising or growing out of the acts or omissions of the Contractor, Contractor's officers, agents (including subcontractors), servants or employees under this Agreement.

SECTION 16. GENERAL COMPLIANCE WITH LAWS:

The Bidder agrees that Bidder is to comply with all Federal and territorial laws, rules, regulations and ordinances applicable to the work being performed hereunder. Bidder shall attach a copy of appropriate business license or an affidavit executed under penalty of perjury that indicates that Bidder is exempt under Guam law (must include legal citations proving exemption).

SECTION 17. ACCESS TO RECORDS AND OTHER REVIEW:

The Contractor, including his subcontractors, if any, shall maintain copies of all books, documents, papers, accounting records and other evidence pertaining to costs incurred and to make such materials available at their respective offices at all reasonable times during the contract period and for three (3) years from the date of the final payment under the contract, for inspection by the Guam Waterworks Authority. All originals of any documents related to this Contract shall be provided to GWA as soon as possible, but not later than one day prior to the conclusion of this Agreement. Each subcontract by Bidder pursuant to this agreement shall include a provision containing the conditions of this Section.

SECTION 18. SCOPE OF AGREEMENT.

This Agreement supersedes any and all other Agreements, either oral or in writing, between the parties hereto with respect to retaining the services of Bidder by the GWA and contains all of the covenants and terms between the parties with respect to such this project. Each party to this Agreement acknowledges that no representation, inducements, promises or agreements, orally or

otherwise, have been made by any party, or anyone acting on behalf of any party which are not embodied herein, and that no other agreement, statement, or promise not contained in this Agreement and addenda will be effective only if it is in writing signed by the party to be charged. For the purposes of this paragraph and of the entire agreement, the signature of the General Manager for the Guam Waterworks Authority (or his designee) is the only signature that will bind the GWA.

SECTION 19. RESPONSIBILITY OF CONTRACTOR.

In addition to the other requirements set forth in the bid and this Contract, the Bidder shall be responsible for the professional and technical accuracy of all work and goods furnished under this contract. The Bidder shall, without additional cost to GWA, correct or revise all errors or deficiencies in his/her work.

GWA's review, approval, acceptance of, and payment for goods, fee, or for services required under this contract, shall not be construed to operate as a waiver of any rights under this contract or of any cause of action arising out of the Contractor's failure of performance of this contract and the Bidder shall be and remain liable to the GWA for all costs of any kind which may be incurred by the GWA as a result of the Contractor's negligent or erroneous performance of any of the services performed under this contract. GWA shall continue to remain liable for its own negligent acts and those of its employees and its failure to perform as provided under this agreement.

SECTION 20. CHANGE ORDERS.

By written order, at any time, and without notice to Contractor's surety, GWA may, subject to all appropriate adjustments, make changes within the general scope of work of this Contract in any one or more of the following:

1. Drawings, designs or specifications, if the supplies or services to be furnished are to be specifically manufactured for GWA in accordance therewith;
2. Method of shipping or packing; or
3. Place of delivery.

If any such change order increases or decreases the contractor's cost of, or the time required for performance of any part of the work under this contract, whether or not changed by the order, an adjustment shall be made and the contract modified in writing accordingly. Any adjustment in contract price made pursuant to this clause shall be determined in accordance with the Price Adjustment Clause of this Contract.

Failure of the parties to agree to an adjustment shall not excuse the Bidder from proceeding with the Contract as changed, provided that GWA promptly and duly make such provisional adjustments in payment or time for performance as may be reasonable. By proceeding with the work, the Bidder shall not be deemed to have prejudiced any claim for additional compensation, or an extension of time for completion.

Within 30 days after receipt of a written change order, unless such period is extended by GWA in writing, the Bidder shall file notice of intent to assert a claim for an adjustment. Later

notification shall not bar the contractor's claim unless GWA is prejudiced by the delay in notification. No claim by the Bidder for an adjustment hereunder shall be allowed if notice is not given prior to final payment under this Contract.

In the absence of such a change order, nothing in this clause shall be deemed to restrict the Contractor's right to pursue a claim arising under the contract if pursued in accordance with the clause entitled "Claims Based on Acts or Omissions by GWA" of this Contract.

SECTION 21. STOP WORK ORDERS.

GWA may by written order to the Contractor, at any time, and without notice to any surety, require the Bidder to stop all or any part of the work called for in the Contract. This order shall be for a specified period not exceeding ninety (90) days after the order is received by the Contractor, unless the parties agree to any longer period. Upon receipt of the order, the Bidder shall comply with its terms and take all reasonable steps to minimize the occurrence of costs allocable to the work covered by the order during the period of work stoppage. Before the stop work order expires, or within any further period to which the parties have agreed, GWA shall either cancel the work order or terminate the work covered by the order as provided under the Termination for Default or Termination for Convenience Clauses contained in this contract.

If a stop work order issued under this clause is cancelled at any time during the period specified in the order, of the period of the order or any extension thereof expires, the Bidder shall have the right to resume work. An appropriate adjustment shall be made to the delivery schedule or Bidder only if: (a) the stop work order results in an increase in the time required for performance or the contractor's cost; and (b) if the Bidder asserts a claim for such an adjustment within thirty (30) days after the end of the period of work stoppage; provided that, if GWA decides that the facts justify such action, any such claim asserted may be received and acted upon at any time prior to final payment under this Contract. If a stop work order is not cancelled and the work covered by the order is terminated for default or convenience, the reasonable costs resulting from the stop work order shall be allowed pursuant to the price adjustment clause of this Contract.

SECTION 22. CLAIMS BASED ON ACTS OR OMISSIONS BY GWA.

If any action or omission on the part of GWA requiring performance changes within the scope of the contract constitutes the basis for a claim by the Bidder for additional compensation, damages, or an extension of time for completion, the Bidder shall continue with performance of the contract in compliance with the directions or orders of GWA, but by so doing, the Bidder shall not be deemed to have prejudiced any claim for additional compensation, damages, or an extension of time for completion; provided:

(a) the Bidder shall have given written notice to GWA:

(i) prior to the commencement of the work involved, if at that time the Bidder knows of the occurrence of such action or omission;

(ii) within 30 days after the Bidder knows of the occurrence of such action or omission, if the Bidder did not have such knowledge prior to the commencement of the work; or

(iii) within such further time as may be allowed by the Procurement Officer in writing.

This notice shall state that the Bidder regards the act or omission as a reason which may entitle the Bidder to additional compensation, damages, or an extension of time. The Procurement Officer or designee of such officer, upon receipt of such notice, may rescind such action, remedy such omission, or take such other steps as may be deemed advisable in the discretion of the Procurement Officer or designee of such officer.

(b) the notice required by Subparagraph (a) of this Paragraph describes as clearly as practicable at the time the reasons why the Bidder believes that additional compensation, damages, or an extension of time may be remedies to which the Bidder is entitled; and

(c) the Bidder maintains and, upon request, makes available to the Procurement Officer within a reasonable time, detailed records to the extent practicable, of the claimed additional costs or basis for an extension of time in connection with such changes.

Nothing herein contained, however, shall excuse the Bidder from compliance with any rules of law precluding any GWA official or its Contractors from acting in collusion or bad faith in issuing or performing change orders which are clearly not within the scope of the contract.

Any adjustment in the contract price made pursuant to this clause shall be determined in accordance with the Price Adjustment Clause of this contract.

SECTION 23. EFFECTIVE DATE OF THIS CONTRACT.

This agreement shall take effect upon the date it is signed by both the General Manger and the Bidder and the date of this agreement shall be when the General Manager affixes his signature.

GUAM WATERWORKS AUTHORITY:

Miguel Bordallo
General Manager

Date: 1·20·16

CONTRACTOR:

Eduardo, R Ilao
Authorized Representative

Date: 12/31/2015

Certified Funds Available:

Certifying Officer
Guam Waterworks Authority

Date: 1·8·16 01/05/16

Approved as to Form and Legality:

Samuel J. Taylor
GWA Legal Counsel

Date: 1/20/16

Contract Amount: $600,565.35

Amount Certified: $185,996.70 FY16 only

Source of funding: Revenue Funded

Certifying Officer: Greg P. Cruz, CFO

Date:

CORPORATE OR PARTNERSHIP CERTIFICATION
AS TO AUTHORIZATION TO BIND

I, _____ certify that I am the Secretary of the corporation or managing partner named as Bidder herein; that **Eduardo R. Ilao** who signed this contract on behalf of the Contractor, was then **President** of said corporation/partnership by authority of said corporation of its governing body, and is within the scope of its corporate/partnership powers to bind said corporation/partnership to the terms and conditions of this Contract.

Signed: _____
Corporate Secretary

Date: 12/31/15

(CORPORATE/PARTNERSHIP SEAL)

* * * * * * * **END OF CONTRACT** * * * * *

1/20/16

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. 06-FY2019
Relative to Approval of a Two-Year Extension of the Contract with Total Chemical Resources Inc. for the Purchase of Anionic Polymer and Aluminum Chlorohydrate for the Hagåtña and Northern District Wastewater Treatment Plants.

What is the project's objective and is it necessary and urgent?
The objective is to exercise the available option years for an existing supply contract for chemicals used at the Hagåtña and Northern District Wastewater Treatment Plants and to ensure sufficient stock is available at all times. The proposed action is necessary to insure a consistent stock of chemicals at all times in order to continue treatment of wastewater required by USEPA and specified in § II A Paragraph 5 of the 2011 Court Order.

Where is the location?
Hagåtña and Northern District Wastewater Treatment Plants.

How much will it cost?
GWA negotiated a $1.98 price per pound for Anionic Polymer with an estimated usage of 72,096 pounds per month at an annual cost of $1,713,000.96 and $1.25 price per pound for Aluminum Chlorohydrate with an estimated usage of 97,146 pounds per month at an annual cost of $1,457,190.00 for a total cost of $6,340,381.92 under the two (2) year contract option.

GWA management is also seeking a 10% contingency in the amount of $634,038.19 to the 6,381,000.00, which would then make the total authorized funding to be $6,974,420.11.

When will it be completed?
Delivery of chemicals is sixty (60) days after receipt of order, this is an ongoing contract initiated for a total of three (3) years with two (2) one (1) year options to renew.

What is the funding source?
The purchases under the proposed extended contract will be revenue (O & M) funded.

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. 06-FY2019

RELATIVE TO APPROVAL OF A TWO-YEAR EXTENSION OF THE CONTRACT WITH TOTAL CHEMICAL RESOURCES INC. FOR THE PURCHASE OF ANIONIC POLYMER AND ALUMINUM CHLOROHYDRATE (ACH) FOR THE HÅGATÑA AND NORTHERN DISTRICT WASTEWATER TREATMENT PLANTS

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 remains under the 2011 Court Order ("CO") Projects which requires, among many other things, the operation of the Northern and Hagåtña District Wastewater Treatment Plants (WWTPs) to use Chemically Enhanced Primary Treatment as specified in § II A Paragraph 2 of the CO; and

WHEREAS, the Chemically Enhanced Primary Treatment at the Northern and Hågatña District WWTP requires the purchase of chemicals for the application of the treatment process; and

WHEREAS, on July 30, 2015, GWA filed a Petition with the Guam Public Utilities Commission ("PUC") for approval to issue a bid for chemicals for the Northern and Hågatña District WWTP facilities; and the GWA Petition was approved by the PUC on August 27, 2015; and

WHEREAS, GWA issued Bid Number 2015-10 to solicit bid proposals from experienced and responsive bidders to provide the chemicals needed to continue to operate the Northern District WWTP and the Hågatña District WWTP in compliance with § II A Paragraph 3(a) of the CO; and

WHEREAS, there were two responsive and responsible bidders who offered chemicals meeting the requirements of IFB 2015-10 **(**see Exhibit A); and

WHEREAS, upon approval by the CCU and the PUC in early FY2016, GWA entered into a contract for Anionic Polymer and Aluminum Chlorohydrate (ACH) with Total Chemical Resources, Inc. ("Total Chemicals") containing a three (3) year initial term with a two (2) year option clause (see Exhibit A); and

WHEREAS, GWA negotiated a $1.98 per pound for Anionic Polymer at an estimated usage of 72,096 pounds per month at an annual cost of One Million Seven Hundred Thirteen Thousand and 96/100 Dollars ($1,713,000.96) and for Aluminum Chlorohydrate (ACH) at $1.25 per pound at an estimated usage of 97,146 pounds per month at an annual cost of One Million Four Hundred Fifty-Seven Thousand One Hundred Ninety Dollars ($1,457,190.00) for a one year term with a grand total of Three Million One Hundred Seventy Thousand One Hundred Ninety and 96/100 Dollars ($3,170,190.96) to supply both Anionic Polymer and Aluminum Chlorohydrate (ACH) for the Northern and Hagatna District Wastewater Treatment Plants as specified in IFB 2015-10; and

WHEREAS, GWA Management seeks CCU approval of a two (2) year contract extension with Total Chemical, in an amount not to exceed Six Million Three Hundred Forty Thousand Three Hundred Eighty-One and 92/100 Dollars ($6,340,381.92) for the Anionic Polymer and Aluminum Chlorohydrate (ACH) chemical, with a 10% contingency of Six Hundred Thirty-Four Thousand Thirty-Eight and 19/100 Dollars ($634,038.19), for a total funding amount of Six Million Nine Hundred Seventy-Four Thousand Four Hundred Twenty and 11/100 Dollars ($6,974,420.11); and

WHEREAS, GWA seeks CCU approval to Petition the PUC to approve the two (2) year Contract option plus a 10% contingency in the total amount not to exceed Six Million Nine Hundred Seventy-Four Thousand Four Hundred Twenty and 11/100 Dollars ($6,974,420.11); and

WHEREAS, the source of funding for the chemical purchases will be from the FY2019 GWA Wastewater Operations Budget.

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

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the negotiated contract option price agreed to by Total Chemical Resources Inc. is fair and reasonable.
3. The CCU finds that the terms of the conditions set by GWA relative to providing necessary chemicals are fair and reasonable.
4. The CCU hereby authorizes the management of GWA to exercise the one (1) year option period allowed in the contract with Total Chemical at the negotiated price.
5. The CCU hereby further approves the funding total of Six Million Nine Hundred Seventy-Four Thousand Four Hundred Twenty and 11/100 Dollars ($6,974,420.11) for the Total Chemical contract option to supply Anionic Polymer and Aluminum Chlorohydrate (ACH).
6. The CCU hereby further authorizes GWA Management to petition the PUC for approval of the Total Chemical contract option.

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

DULY AND REGULARLY ADOPTED, this 27th day of November 2018.

Certified by: Attested by:

_____ _____

JOSEPH T. DUENAS
Chairperson

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: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

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EXHIBIT A

TRACKING NO. FY 2016-00003

FORMAL CONTRACT

THIS AGREEMENT is made and entered into this 20th day of JANUARY, 2016 by and between the **GUAM WATERWORKS AUTHORITY** ("GWA"), whose business address is: Gloria B. Nelson Public Services Building, 688 Route 15 Mangilao, Guam 96913, and **TOTAL CHEMICAL RESOURCES, INC., ("Bidder"),** whose mailing address is: PO Box 20730, Barrigada, GU 96921 licensed to conduct business on Guam and having Guam business license No. 1608013.

WITNESSETH, that whereas, GWA intends to purchase inorganic coagulant ("ACH") and anionic polymer for the purpose of using at GWA's Northern District and Hågatña Wastewater Treatment Plants to ensure regulatory compliance as identified in GWA Bid No. 2015-10.

NOW THEREFORE, GWA and the Bidder for the considerations hereinafter set forth herein and in other documents associated with the performance hereunder, agree as follows:

SECTION 1. THE BIDDER AGREES:

To provide ACH manufactured by Gulbrandsen Technologies (India) Pvt Inc. at a cost to GWA of $1.06 cents per pound and anionic polymer manufactured by NALCO (an Ecolab Company) t a cost to GWA of $1.40 cents per pound as specified in GWA IFB No. 2015-10 at CIF delivered pursuant to the bid on an "as-needed basis." Bidder agrees to maintain all time all licenses, labor, insurance, material, equipment, tools and services necessary to perform and comply with this Contract and the Contract Documents as defined in Section 3 herein. Bidder also understands that it is responsible for all taxes and fees which may be due relative to payment or performance hereunder (including but not limited to, all employee, corporate and gross receipt taxes). GWA reserves the right to amend this Agreement or request a change order, but the right is subject to the mutual agreement of both parties and all amendments or change orders shall be in writing signed by both parties.

(a) CONTRACT TIME: The Bidder agrees to commence work under this contract upon written notice to proceed and to provide the goods and services at the price specified above for a period of three years (3) from the date of the Notice to Proceed and as specified in the Bid Documents relative to the time, place and manner provided in the Bid Documents (as amended). Bidder agrees by placing their signature hereto that they have been placed on notice that the provision of the goods and services hereunder is necessary to protect the public health and that time is always of the essence.

(b) The Bidder understands that this procurement was not an "all or nothing bid" and that GWA could award a portion of the work called for under the bid to another party, and that in this case, GWA has done so.

(c) Bidder further understands that all the work called for under this bid is subject to the requirements of the Guam Public Utility Commission's Contract Review Protocol, and while GWA has secured approval for the initial three (3) year contract term, the additional two (2) one (1) year term extensions are subject to further approval from the Guam Public Utilities Commission as a condition precedent to work being performed under said extensions.

1-20-16

(d) SUB-CONTRACTORS: The Bidder agrees to bind every sub-contractor to the terms of the Contract Documents. Bidder further agrees that no sub-contractor Bidder may be allowed to perform in any fashion whatsoever under this contract until such time as the express written approval of GWA is obtained. The Contract Documents shall not be construed as creating any contractual relation between a sub-contractor and the Guam Waterworks Authority.

(e) Bidder further understands that the price specified in this section shall remain fixed for the initial three (3) year term regardless of the amount of chemicals ordered by GWA.

SECTION 2. GWA AGREES:

To pay, and the Bidder agrees to accept in full payment for the performance of this Contract, ACH manufactured by Gulbrandsen Technologies (India) Pvt Inc. at a cost to GWA of $1.06 cents per pound and anionic polymer manufactured by NALCO (an Ecolab Company) at a cost to GWA of $1.40 cents per pound CIF delivered pursuant to the bid on an "as-needed basis."

Any adjustment in contract price pursuant to clauses in this contract shall be made in one or more of the following ways:

(a) by agreement on a fixed price adjustment before commencement of the pertinent performance or as soon thereafter as practicable;

(b) by unit prices specified in the contract or subsequently agreed upon;

(c) by the costs attributable to the event or situation covered by the clause, plus appropriate profit or fee, all as specified in the contract or subsequently agreed upon;

(d) in such other manner as the parties may mutually agree; or

(e) in the absence of an agreement between the parties, by a unilateral determination by the GWA General Manager of costs attributable to the event or situation covered by the clause, plus appropriate profit or fee, all as computed by the GWA General Manager in accordance with generally accepted accounting principles and applicable sections under Chapter 7 (Cost Principles) of the Guam Procurement Regulations and subject to the provisions under Title 5, Chapter 5 of the Guam Code Annotated (Legal and Contractual Remedies).

For the purposes of this contract, no price adjustment shall be made unless the vendor can prove that their cost for the chemical specified in this bid has increased more than 50%.

For any request for a price adjustment, the Bidder shall submit cost or pricing data for any price adjustments subject to the provisions of 2 G.A.R. § 3118 of the Guam Procurement Regulations. Information that may be required under this provision include, but is not limited to, invoices from the vendor's supplier for goods, proof of payment for such goods from the supplier or other proof as GWA may require which proves that the price has risen substantially enough to warrant a price modification.

SECTION 3. CONTRACT DOCUMENTS:

It is hereby mutually agreed that the following list of instruments, plans, specifications and documents which are attached hereto, bound herewith or incorporated herein by reference shall constitute the Contract Documents, all of which are made a part hereof, and collectively evidence and constitute the Contract between the parties, hereto, and they are as fully a part of this Agreement as if they were set out verbatim and in full herein, and are designated as follows:

a. Invitation to Bid
b. Instructions to Bidders
c. Bid
d. Form of Non-Collision Affidavit
e. Bid Bond
f. Certification of Bidders Regarding Equal Employment Opportunity
g. Formal Contract (which shall control in the event of conflict between this and any other contract or bid document)
h. Performance Bond
i. Payment Bond
j. General Provisions
k. Special Provisions
l. Technical Specifications
m. Plans
n. Addenda/Amendments
o. Answers to Questions (if GWA determines they are applicable).

SECTION 4. LIQUIDATED DAMAGES:

The Bidder further agrees to pay to GWA the amounts stated in the bid (or the minimum specified in Guam law) for failing, neglecting or refusing to complete the work within the time herein specified and said sum shall be paid for each consecutive calendar day therefore that the Bidder shall be in default after the time stipulated in the Contract for completing the work, ready for use and/or operations. Sundays and legal holidays will be excluded in determining the number of days in default.

SECTION 5. COVENANT AGAINST CONTINGENT FEES:

The Bidder warrants that he has not employed any person to solicit or secure this contract upon any agreement for a commission, percentage, brokerage, or contingent fee. Breach of this warrant shall give GWA the right to terminate the contract, or at its direction, deduct from the contract price or consideration the amount of such commission, percentage, brokerage or contingent fee. This warranty shall not apply to commission's payable by Contractors upon contracts or sales secured or made through bona fide established commercial or selling agencies maintained by the Bidder for the purpose of securing business.

SECTION 6. OTHER CONTRACTS:

GWA may award other contracts for additional work, and the Bidder shall fully cooperate with such other contractors and carefully fit his own work to that provided under other contracts as

may be directed by the Contracting Officer. The Bidder shall not commit or permit any act which will interfere with the performance of work by any other contractor.

SECTION 7. DISPUTES:

Except as otherwise specifically provided in this contract, all disputes concerning questions of fact arising under this contract shall be decided by the GWA General Manager whose decision shall be final and conclusive upon the parties thereto. In the meantime, the Bidder shall diligently proceed with the work as directed. However, the final decision of the GWA General Manager is appealable to the Guam Public Auditor as provided under 5 G.C.A. § 5427(e).

SECTION 8. CONTRACT BINDING:

It is agreed that this Contract and all the Covenants hereof shall insure to the benefit of and binding upon GWA and the Bidder respectively and his parties, successors, assignees and legal representative. Neither GWA nor the Bidder shall have the right to assign, transfer or sublet his interests or obligations hereunder without written consent of the other party.

It is hereby mutually agreed by and between the parties hereto that no mechanic, contractor, subcontractor, material man or other person can or will contract for or in any other manner have or acquire any lien upon the binding or works covered by this contract, or the land upon which the same is situated.

SECTION 9. GWA NOT LIABLE:

A. GWA, its officers, agents, employees and governing board assumes no liability for any accident or injury that may occur to the Contractor, Contractor's agents, employees, or to Contractor's property while on the job or otherwise en route to or from the job during any travel required by the terms of this agreement.

B. GWA, its officers, agents, employees and governing board shall not be liable to Bidder for any work performed by the Bidder prior to the written and signed approval of this Contract by the General Manager for GWA and the Bidder hereby expressly waives any and all claims for service performed in expectation of this agreement prior to its signature of the General Manager.

SECTION 10. NOTICES:

All notices between the parties shall be in writing and shall be deemed served when personally delivered or when deposited in the mail, registered or certified, first-class postage prepaid, addressed as follows:

To: **GUAM WATERWORKS AUTHORITY**

Greg P. Cruz
Interim General Manager
Gloria B. Nelson Public Services Building
688 Route 15, Mangilao, 96913

To: **BIDDER**

Jerry A. Flores
Chief Financial Officer
Total Chemical Resources
PO Box 20730
Barrigada, GU 96921
Tel: 646-4742
Fax: 649-0447

SECTION 11. TERMINATION:

Section 11.1 – Termination For Default:

(1) Default. If the Bidder refuses or fails to perform any of the provisions of this contract with such diligence as will ensure its completion within the time specified in this contract, or any extension thereof, otherwise fails to timely satisfy the contract provisions, or commits any other substantial breach of this contract, GWA may notify the Bidder in writing of the delay or non-performance and if not cured in five (5) working days or any longer time specified in writing by the GWA, GWA may terminate the Contractor's right to proceed with the contract or such part of the contract as to which there has been delay or a failure to properly perform. In the event of termination in whole or in part the GWA may procure similar services in a manner and upon terms deemed appropriate by the GWA. The Bidder shall continue performance of the contract to the extent it is not terminated and shall be liable for excess costs incurred in procuring similar services.

(2) Contractor's Duties. Notwithstanding termination of the contract and subject to any directions from the GWA, the Bidder shall take timely, reasonable, and necessary action to protect and preserve property in the possession of the Bidder in which GWA has an interest.

(3) Compensation. Payment for completed services delivered and accepted by the government and GWA shall be at the contract price. GWA may withhold from amounts due the Bidder such sums as the GWA deems to be necessary to protect GWA against loss because of outstanding liens or claims of former lien holders and to reimburse the GWA for the excess costs incurred in procuring similar goods and services (including the provision of these goods and services by GWA personnel). In the event that the Bidder fails to complete the work called for in the bid, fails to provide the goods or services in the allotted time, then Bidder shall pay to GWA ¼ of 1% of the total bid price per day as liquidated damages for the non-performance as specified by the Guam Code Annotated. The liquidated damages herein are not a penalty, but rather a reasonable estimate by GWA of the loss it would suffer as a result of non-performance.

(4) Excuse for Nonperformance or Delayed Performance. Except with respect to defaults of sub-contractor(s) of Contractor, the Bidder shall not be in default by reason of any failure in performance of this contract in accordance with its terms (including any failure by the Bidder to make progress in the prosecution of the work hereunder which endangers such performance) if the Bidder has notified the GWA within fifteen (15) days after the cause of the delay and the failure arises out of causes such as: acts of God; acts of the public enemy; fires; floods;

epidemics; quarantine restrictions; strikes or other labor disputes; freight embargoes; or unusually severe weather. If the failure to perform or to make progress due to such causes similar to those set forth above, the Bidder shall not be deemed to be in default, unless the services to be furnished by the Bidder (or sub-contractor) were reasonably obtainable from other sources in sufficient time to permit the Bidder to meet the contract requirements. Failure of the Bidder (or sub-contractor) to perform for reasons other than cited above shall constitute a default of the Bidder unless cured by Bidder with a reasonable time. Upon request of the Contractor, GWA shall ascertain the facts and extent of such failure, and, if GWA determines that any failure to perform was occasioned by any one or more of the excusable causes, and that, but for the excusable cause, the Contractor's progress and performance would have met the terms of the contract, the delivery schedule shall be revised accordingly, subject to the rights of the GWA and the government of Guam under the laws of Guam.

(5) Erroneous Termination for Default. If, after notice of termination of the Contractor's right to proceed under the provisions of this clause, it is determined for any reason that the Bidder was not in default under the provisions of this clause, or that the delay was excusable under the provisions of Paragraph (4) (Excuse for Nonperformance or Delayed Performance) of this clause, the rights and obligations of the parties shall be the same as if the notice of termination had been issued pursuant to Subsection C, below.

(6) Additional Rights and Remedies. The rights and remedies provided in this clause are in addition to any other rights and remedies provided by law or under this contract.

Section 11.2 – Termination For Convenience:

(1) Termination. GWA may, when the interest of the government so requires, terminate this contract in whole or in part, for the convenience of the government or GWA (including the provision of services by any sub-bidder of the Contractor). GWA shall give 30 days advance written notice of the termination to the Bidder specifying the part of the contract terminated and when termination becomes effective.

(2) Contractor's Obligations. The Bidder shall incur no further obligations in connection with the terminated work (except in the case of Subcontractors where the Bidder is solely liable to GWA for their acts and/or non-performance or breach under this agreement) and on the date set in the notice of termination the Bidder will stop work to the extent specified. The Bidder shall also terminate outstanding orders and subcontracts as they relate to the terminated work. The Bidder shall settle the liabilities and claims arising out of the termination of subcontracts and orders connected with the terminated work. GWA may direct the Bidder to assign the Contractor's right, title, and interest under terminated orders or subcontracts to GWA. The Bidder must still complete the work not terminated by the notice of termination and may incur obligations as are necessary to do so.

(3) Right to Work Product. Upon termination of the contract for the convenience of the government or GWA or for any other reason, Bidder shall transfer title and deliver to GWA all documents and reports, plans, drawings, information and other material produced by Bidder or any of its sub-contractors in connection with the performance of this contract. The Bidder shall protect and preserve property in its possession or in the possession of any of its sub-contractors in which the GWA or the Government of Guam has an interest.

(4) Compensation.

(a) The Bidder shall submit a termination claim specifying the amount due because of the termination for convenience together with cost or pricing data to the extent required by § 3118 (Cost or Pricing Data) of the Guam Procurement Regulations bearing on such claim. If the Bidder fails to file a termination claim within one year from the effective date of termination, GWA may pay the Contractor, if at all, an amount set in accordance with Subparagraph (c) of this Paragraph.

(b) GWA and the Bidder may agree to a settlement provided the Bidder has filed a termination claim supported by cost or pricing data to the extent required by § 3118 (Cost or Pricing Data) of the Guam Procurement Regulations and that the settlement does not exceed the total contract price plus settlement costs reduced by payments previously made by the GWA and the contract price of the work not terminated.

(c) Absent complete agreement under Subparagraph (2) of this Paragraph, GWA shall pay the Bidder the following amounts, provided payments agreed to under Subparagraph (2) shall not duplicate payments under this Subparagraph:

(i) contract prices for services accepted under the contract;

(ii) costs incurred in preparing to perform and performing the terminated portion of the work plus a fair and reasonable profit on such portion of the work (such profit shall not include anticipatory profit or consequential damages) less amounts paid or to be paid for accepted supplies or services; provided, however, that if it appears that the Bidder would have sustained a loss if the entire contract would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss;

(iii) costs of settling and paying claims arising out of the termination of subcontracts or orders pursuant to Subparagraph (b) of this clause;

(iv) the reasonable settlement costs of the Bidder including accounting, clerical, and other expenses reasonably necessary for the preparation of settlement claims and supporting data with respect to the terminated portion of the contract for the termination and settlement of subcontracts hereunder, together with reasonable storage, transportation, and other costs incurred in connection with the protection or disposition of property allocable to the terminated portion of this contract. The total sum to be paid the Bidder under this Subparagraph shall not exceed the total contract price plus the reasonable settlement costs of the Bidder reduced by the amount of payments otherwise made, the proceeds of any sales of supplies and manufacturing materials under Subparagraph (b) of this Paragraph, and the contract price of work not terminated.

(d) Cost claimed, agreed to, or established under Subparagraph (b) and (c) of this Paragraph shall be in accordance with Chapter 7 (Cost Principles) of the Guam Procurement Regulations.

SECTION 12. SEVERABLE PROVISIONS:

If any provision of this agreement shall be deemed by a court of competent jurisdiction to be invalid, then such provision shall be deemed stricken from the agreement and the agreement

shall be enforced according to its valid and subsisting terms and provisions. The terms of this Contract shall control in the event of any conflict between this Contract and any other document incorporated or referenced herein.

SECTION 13. GOVERNING LAW AND VENUE:

The validity of this agreement, as well as the rights and duties of the parties to this agreement, shall be governed by the laws of Guam. Moreover, any and all actions governing this agreement shall be brought in the Superior Court of Guam or the Guam District Court if applicable.

SECTION 14. OWNERSHIP OF DOCUMENTS:

All briefs, memoranda and other incidental Bidder work or materials furnished hereunder shall be and remain the property of GWA including all publication rights and copyright interests, and may be used by GWA without any additional cost to GWA.

SECTION 15. INDEMNITY:

Bidder agrees to save and hold harmless GWA, its board members, officers, agents, representatives, successors and assigns and other governmental agencies from any and all suits or actions of every nature and kind, which may be brought for or on account of any injury, death, or damage arising or growing out of the acts or omissions of the Contractor, Contractor's officers, agents (including subcontractors), servants or employees under this Agreement.

SECTION 16. GENERAL COMPLIANCE WITH LAWS:

The Bidder agrees that Bidder is to comply with all Federal and territorial laws, rules, regulations and ordinances applicable to the work being performed hereunder. Bidder shall attach a copy of appropriate business license or an affidavit executed under penalty of perjury that indicates that Bidder is exempt under Guam law (must include legal citations proving exemption).

SECTION 17. ACCESS TO RECORDS AND OTHER REVIEW:

The Contractor, including his subcontractors, if any, shall maintain copies of all books, documents, papers, accounting records and other evidence pertaining to costs incurred and to make such materials available at their respective offices at all reasonable times during the contract period and for three (3) years from the date of the final payment under the contract, for inspection by the Guam Waterworks Authority. All originals of any documents related to this Contract shall be provided to GWA as soon as possible, but not later than one day prior to the conclusion of this Agreement. Each subcontract by Bidder pursuant to this agreement shall include a provision containing the conditions of this Section.

SECTION 18. SCOPE OF AGREEMENT.

This Agreement supersedes any and all other Agreements, either oral or in writing, between the parties hereto with respect to retaining the services of Bidder by the GWA and contains all of the covenants and terms between the parties with respect to such this project. Each party to this Agreement acknowledges that no representation, inducements, promises or agreements, orally or

otherwise, have been made by any party, or anyone acting on behalf of any party which are not embodied herein, and that no other agreement, statement, or promise not contained in this Agreement and addenda will be effective only if it is in writing signed by the party to be charged. For the purposes of this paragraph and of the entire agreement, the signature of the General Manager for the Guam Waterworks Authority (or his designee) is the only signature that will bind the GWA.

SECTION 19. RESPONSIBILITY OF CONTRACTOR.

In addition to the other requirements set forth in the bid and this Contract, the Bidder shall be responsible for the professional and technical accuracy of all work and goods furnished under this contract. The Bidder shall, without additional cost to GWA, correct or revise all errors or deficiencies in his/her work.

GWA's review, approval, acceptance of, and payment for goods, fee, or for services required under this contract, shall not be construed to operate as a waiver of any rights under this contract or of any cause of action arising out of the Contractor's failure of performance of this contract and the Bidder shall be and remain liable to the GWA for all costs of any kind which may be incurred by the GWA as a result of the Contractor's negligent or erroneous performance of any of the services performed under this contract. GWA shall continue to remain liable for its own negligent acts and those of its employees and its failure to perform as provided under this agreement.

SECTION 20. CHANGE ORDERS.

By written order, at any time, and without notice to Contractor's surety, GWA may, subject to all appropriate adjustments, make changes within the general scope of work of this Contract in any one or more of the following:

1. Drawings, designs or specifications, if the supplies or services to be furnished are to be specifically manufactured for GWA in accordance therewith;
2. Method of shipping or packing; or
3. Place of delivery.

If any such change order increases or decreases the contractor's cost of, or the time required for performance of any part of the work under this contract, whether or not changed by the order, an adjustment shall be made and the contract modified in writing accordingly. Any adjustment in contract price made pursuant to this clause shall be determined in accordance with the Price Adjustment Clause of this Contract.

Failure of the parties to agree to an adjustment shall not excuse the Bidder from proceeding with the Contract as changed, provided that GWA promptly and duly make such provisional adjustments in payment or time for performance as may be reasonable. By proceeding with the work, the Bidder shall not be deemed to have prejudiced any claim for additional compensation, or an extension of time for completion.

Within 30 days after receipt of a written change order, unless such period is extended by GWA in writing, the Bidder shall file notice of intent to assert a claim for an adjustment. Later

notification shall not bar the contractor's claim unless GWA is prejudiced by the delay in notification. No claim by the Bidder for an adjustment hereunder shall be allowed if notice is not given prior to final payment under this Contract.

In the absence of such a change order, nothing in this clause shall be deemed to restrict the Contractor's right to pursue a claim arising under the contract if pursued in accordance with the clause entitled "Claims Based on Acts or Omissions by GWA" of this Contract.

SECTION 21. STOP WORK ORDERS.

GWA may by written order to the Contractor, at any time, and without notice to any surety, require the Bidder to stop all or any part of the work called for in the Contract. This order shall be for a specified period not exceeding ninety (90) days after the order is received by the Contractor, unless the parties agree to any longer period. Upon receipt of the order, the Bidder shall comply with its terms and take all reasonable steps to minimize the occurrence of costs allocable to the work covered by the order during the period of work stoppage. Before the stop work order expires, or within any further period to which the parties have agreed, GWA shall either cancel the work order or terminate the work covered by the order as provided under the Termination for Default or Termination for Convenience Clauses contained in this contract.

If a stop work order issued under this clause is cancelled at any time during the period specified in the order, of the period of the order or any extension thereof expires, the Bidder shall have the right to resume work. An appropriate adjustment shall be made to the delivery schedule or Bidder only if: (a) the stop work order results in an increase in the time required for performance or the contractor's cost; and (b) if the Bidder asserts a claim for such an adjustment within thirty (30) days after the end of the period of work stoppage; provided that, if GWA decides that the facts justify such action, any such claim asserted may be received and acted upon at any time prior to final payment under this Contract. If a stop work order is not cancelled and the work covered by the order is terminated for default or convenience, the reasonable costs resulting from the stop work order shall be allowed pursuant to the price adjustment clause of this Contract.

SECTION 22. CLAIMS BASED ON ACTS OR OMISSIONS BY GWA.

If any action or omission on the part of GWA requiring performance changes within the scope of the contract constitutes the basis for a claim by the Bidder for additional compensation, damages, or an extension of time for completion, the Bidder shall continue with performance of the contract in compliance with the directions or orders of GWA, but by so doing, the Bidder shall not be deemed to have prejudiced any claim for additional compensation, damages, or an extension of time for completion; provided:

(a) the Bidder shall have given written notice to GWA:

(i) prior to the commencement of the work involved, if at that time the Bidder knows of the occurrence of such action or omission;

(ii) within 30 days after the Bidder knows of the occurrence of such action or omission, if the Bidder did not have such knowledge prior to the commencement of the work; or

(iii) within such further time as may be allowed by the Procurement Officer in writing.

This notice shall state that the Bidder regards the act or omission as a reason which may entitle the Bidder to additional compensation, damages, or an extension of time. The Procurement Officer or designee of such officer, upon receipt of such notice, may rescind such action, remedy such omission, or take such other steps as may be deemed advisable in the discretion of the Procurement Officer or designee of such officer.

(b) the notice required by Subparagraph (a) of this Paragraph describes as clearly as practicable at the time the reasons why the Bidder believes that additional compensation, damages, or an extension of time may be remedies to which the Bidder is entitled; and

(c) the Bidder maintains and, upon request, makes available to the Procurement Officer within a reasonable time, detailed records to the extent practicable, of the claimed additional costs or basis for an extension of time in connection with such changes.

Nothing herein contained, however, shall excuse the Bidder from compliance with any rules of law precluding any GWA official or its Contractors from acting in collusion or bad faith in issuing or performing change orders which are clearly not within the scope of the contract.

Any adjustment in the contract price made pursuant to this clause shall be determined in accordance with the Price Adjustment Clause of this contract.

SECTION 23. EFFECTIVE DATE OF THIS CONTRACT.

This agreement shall take effect upon the date it is signed by both the General Manger and the Bidder and the date of this agreement shall be when the General Manager affixes his signature.

GUAM WATERWORKS AUTHORITY:

Miguel Bordallo
General Manager

Date: 1.20.16

CONTRACTOR:

Jerry A. Flores
Authorized Representative

Date: 12/17/15

Certified Funds Available:

Certifying Officer
Guam Waterworks Authority

01/08/16

Date: 1.8.16

Approved as to Form and Legality:

Samuel J. Taylor
GWA Legal Counsel

Date: 1/20/16

Contract Amount: $3,024,623.64

Amount Certified: $ 1,348,310 FY 16 only

Source of funding: Revenue Funded

Certifying Officer: Greg P, Cruz, CFO

Date:

Special Note: The corporate authorization contained within the bid specifies that Jerry A. Flores is provided with the power to bind Total Chemical, Inc. relative to this bid.

* * * * * * * END OF CONTRACT * * * * *

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. 07-FY2019
Relative to Approval of Change Order to the Construction Management Contractor for the Agat Santa Rita Wastewater Treatment Plant Upgrades

What is the project's objective and is it necessary and urgent?
The construction management change order(s) for CM services will allow for a continuity of services as it relates to any construction extension at the new Agat-Santa Rita WWTP Upgrades project due to contractor issues. The construction contractor, Sumitomo Mitsui Construction Company (SMCC), has submitted to GWA extension requests that will push the completion of the project to March 2019. GWA management has reviewed SMCC's delay claims and is willing to provide a contract extension but only to September 2018. After this time the contractor will be assessed Liquidated Damages until the project is completed.

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

Where is the location?
The project location is at the New Agat-Santa Rita Wastewater Treatment Plant in Agat

How much will it cost?
GWA management has received a fee proposal from GHD in the amount of Nine Hundred Seventy-Seven Thousand One Hundred Ninety-Seven Dollars ($977,197.00) however GWA will be negotiating down this fee proposal given the level of staffing and construction activities will ramp down towards the end of the construction period. Due to the timing of approvals GWA management is still seeking CCU approval for a funding increase to a not-to-exceed amount of $977,197.00.

When will it be completed?
The construction contractors latest schedule shows the project completion will be by March 2019.

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

The RFP/BID responses (if applicable):
Not Applicable.

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

RESOLUTION NO. 07–FY2019

RELATIVE TO APPROVAL OF CHANGE ORDER TO THE CONSTRUCTION MANAGEMENT CONTRACT FOR THE AGAT SANTA RITA WASTEWATER TREATMENT PLANT UPGRADES

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

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

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

WHEREAS, GWA executed a contract with Sumitomo Mitsui Construction Company (SMCC) to construct the new WWTP by November 1, 2017, and

WHEREAS, GWA executed a contract with GHD, Inc. to provide construction management services as a means towards achieving the Court Order requirements; and

WHEREAS, the original scope and fee for the construction management services estimated an eighteen-month construction period for vertical construction activities that SMCC was contracted to do which resulted in the CM services ending June 8, 2017; and

WHEREAS, CCU Resolution No. 48-2017 authorized the continuation of CM services from August 15, 2017 through March 31, 2018, after which GWA executed Change Orders 2 and 3 in the total amount of One Million Fourteen Thousand Four Hundred Twelve Dollars ($1,014,412.00); and

WHEREAS, CCU Resolution No. 17-FY2018 authorized the continuation of CM services from April 1, 2018 through August 31, 2018, after which GWA executed Change Orders 4, 5 and 6 in the total amount of Eight Hundred Twenty Thousand Three Hundred Thirty-Two Dollars ($822,632.00);

WHEREAS, the project Contractor, SMCC, has submitted documentation to GWA management (See Exhibits A and B) wherein they now project the completion of all construction activities will not occur until March 2019 and the reason for this delay is due to additional claims of adverse weather stopping work progress, work force shortages as a result of the H2-B visa program denying work permit renewals and additional work resulting in approved Change Orders; and

WHEREAS, GWA management has reviewed SMCC's delay claims and transmitted a respond letter dated October 29, 2018 (See Exhibit C) in which GWA considered all aspects of SMCC claims and is willing to provide a contract extension but only to August 2018 given that GWA, over the construction period, approved financial measures to SMCC that would have allowed work and schedule to be accelerated thus maintaining a reasoned expectation of the project being completed as planned; and,

WHEREAS, notwithstanding the issues surrounding the contractor delays and a means of allowing for continuity of construction management services as it relates to any construction extension due to contractor issues, GWA requested GHD submit a fee proposal to continue construction management service for which GHD has provided to GWA a Nine Hundred Seventy-Seven Thousand One Hundred Ninety-Seven Dollars ($977,197.00) fee proposal through April 2019 (See Exhibit D); and

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WHEREAS, GWA management will be negotiating down the fee proposal submitted by GHD given the level of staffing and construction activities will ramp down towards the end of the construction period but until final negotiated fees are reached GWA management still seeks CCU approval of additional funding to execute Change Order(s) to a not to exceed the amount of Nine Hundred Seventy-Seven Thousand One Hundred Ninety-Seven Dollars ($977,197.00) for the extended contract performance period because the timing of any change order approval may not coincide with scheduled CCU meetings; and

WHEREAS, the authorization of the requested funding increase to the Construction Management contract would potentially bring the total value to a not to exceed amount of Six Million One Hundred Thousand Eight Hundred Ten Dollars and Zero Cents ($6,100,810.00); and

WHEREAS, funding for any Change Order to GHD moving forward will be from any available bond funds under the line item - WW 11-08 "Agat/ Santa Rita STP Replacement", System Development Charge funds and Internally Funded CIP funds as well as Liquidated Damages of $5,000 per day from the contractor beginning September 1, 2018; 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 hereby approves the funding increase for construction management services to an amount not to exceed Nine Hundred Seventy-Seven Thousand One Hundred Ninety-Seven Dollars ($977,197.00) (Exhibit D).
3. The CCU further approves the total contract value for GHD is an amount not to exceed Six Million One Hundred Thousand Eight Hundred Ten Dollars ($6,100,810.00).
4. The source of funding for any Change Order to GHD moving forward will be from any available bond funds under the line item - WW 11-08 "Agat/ Santa Rita STP Replacement", System Development Charge funds and Internally

Funded CIP funds as well as Liquidated Damages of $5,000 per day from the contractor beginning September 1, 2018.

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

DULY AND REGULARLY ADOPTED, this 27th day of November 2018.

Certified by: Attested by:

_____ _____

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

SECRETARY'S CERTIFICATE

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

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

AYES: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

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EXHIBIT A

SUMITOMO MITSUI CONSTRUCTION CO.,LTD.
GUAM OFFICE: P.O.Box9670 Tamuning, Guam96931, Phone : ++1-671-649-7521 - 24 Fax : ++1-671-649-7550

May 16, 2018

Reference No.: LT-18-020

TO: **Mr. John McArthur Davis, P.E.**
GWA Project Manager
GUAM WATERWORKS AUTHORITY
Gloria B. Nelson Public Service Building,
688 Route 15, Mangilao, Guam 96913

Thru: **Mr. Bryan J. Ryley**
Construction Manager
GHD, Inc.
865 South Marine Corps, Suite 202,
Guam 96913

PROJECT: IFB-07-ENG-2015
CONSTRUCTION OF AGAT-SANTA RITA WASTEWATER TREAMENT PLANT REPLACEMENT; GWA PROJECT NO. S14-002-BND

SUBJECT: **Request for Project Time Extension**

Dear Mr. Davis,

This is to request project extension with following reason SMCC encountered in implementation of this project.

Due to rejection of H-2B Temporary Alien Skilled workers, we were unable to obtain planned numbers of manpower, which is necessary to acquire to complete the project on time.

As shown in work load analysis sheet, SMCC planned to obtain ***126*** workers as average and ***150*** at peak construction duration based on analysis that project require ***475,200*** man-hours to complete within specified construction period of ***660*** days (Jan/11/2016 to Nov/1/2017)

※ ***126 x 660 x 5/7 x 8 hrs. =475,200*** man-hours

On the other hand, due to the H2B issue, we had been facing Island wide shortage of workers from the beginning to date. As a consequence, SMCC could obtain much less work force comparing to the original plan and cumulative total man-hour is ***383,560*** man-hours at the end of April, 2018. This is the ***81%*** of planned total man-hours to complete the project and it indicate the current progress percentage is understandable. It is also indicating, we have to spend

181 calendar days to complete the project from May 1st, 2018, which is ***October 29, 2018.***

SMCC have been trying all the effort to improve the said workforce shortage based on GWA' s instructions and supports, I believe SMCC attained considerable progress and accelerated the project as achievable as possible.

One of those efforts, SMCC oriented to engage about 645 workers (From April 5, 2016 ~ May 7, 2018) with the following subcontractors:

1. Hyun Hee Construction.
2. JHC Corporation
3. KPL Guam Co., Ltd.
4. FJMAE Builders – General Contractors
5. VRM General Contractor
6. Tonets Corporation DBA TNK Guam/ Guam Advance
7. VG Gozum Construction LLC

Despite those efforts, we could obtain only 70 workers as daily average versus to the original plan of 126 workers.

It is clear that regardless contractor's will and efforts, it is impossible to achieve the project on time due to above described situation, which we consider beyond contractor's control.

Therefore, we are herewith requesting project extension upto ***October 29, 2018*** based on the above consideration and calculation of necessary working days of 155 days from May 1st, 2018 to complete the project.

Sincerely,

SUMITOMO MITSUI CONSTRUCTION CO.LTD



TAKEYUKI SHIINO
General Manager
Guam Office

Attachments No.1 : Work-load analysis sheet
No.2 : Actual Total man-hours up to April 30, 2018

EXHIBIT B

SUMITOMO MITSUI CONSTRUCTION CO.,LTD.
Guam Office : P. O. Box 9670 Tamuning, Guam 96931
Tel: +1- (671) 649-7521~24 Fax: +1- (671) 649-7550

October 8, 2018

Reference No.: LT-18-045

TO: **Mr. John McArthur Davis, P.E.**
GWA-Project Manager
GUAM WATERWORKS AUTHORITY
Gloria B. Nelson Public Service Building,
688 Route 15, Mangilao, Guam 96913

Thru: **Mr. Bryan J. Ryley**
Construction Manager
GHD, Inc.
865 South Marine Corps, Suite 202,
Guam 96913

PROJECT: IFB-07-ENG-2015
CONSTRUCTION OF AGAT-SANTA RITA WASTEWATER TREATMENT PLANT REPLACEMENT; GWA PROJECT NO. S14-002-BND

SUBJECT: **Request for Time Extension (2)**

Dear Mr. Davis,

This letter is in continuation of SMCC's letter with Reference No. LT-18-020 dated May 16, 2018.

Since the very beginning of this subject project, SMCC has been trying to expedite all works to meet the time line of the project. On the contrary to such efforts, it did not work out well as our intention because of the island wide worker's shortage due to H2B visa rejection. The situation became worse as a consequence of the heavy demand of construction workforce for military build-up especially after recent awards for the major military projects in Guam and we lost many workforce due to the construction booms in Saipan.

CCU Regular Meeting November 27, 2018 - GWA

As on-going major structural works in Agat Santa Rita project, Equalization Tank and Maintenance Building are substantially delayed due to the reasons above. Structural sub-contractors are facing more severe shortage of workers comparing before. Please see attached letters (attachment no 1) from sub-contractors.

As we informed in our previous letter, about 9 months delayed from our original schedule due to labor shortage (see attachment 2) and about 6 months delayed due to rain days (approved under CO 4, 8 and 10). And in recent months, invariably daily wet condition at site. Please see attached summary (attachment no. 3) of rain days from April 24th 2018 to September 30th 2018 which is 36 working days.

We also carried out on various additional works under Change Order No. 2 to 11 and to date we did not request time extension for those additional works yet.

We would like to inform other possible cause for further delay due to the time taking approval process as below;

The Change Order on Lighting Arresters and Surge Protection (SMCC Letter No. SMCC/ASWWTP-LTR-105 submitted in March 6, 2018 and updated on August 6th, 2018 due to changes in detail plan and Change Order for the Generator at Ga'an (SMCC Letter No. LT-18-029 submitted last June 25, 2018) are still pending approval. We have prepared schedule on these works by expecting approval by October 15, 2018 (see attachment 4)

As a current schedule;
We are scheduling to carry out Asphalt works at highlighted areas (see attachment 5) by December 2018.

The revised schedule summary is attached for your review and approval (attachment 6).

We are hereby requesting time extension up to March 2019 to complete all the item of works except the supply and installation of Generator at Ga'an Pump Station.

And we are also requesting to make this item(supply and installation of Generator at Ga'an Pump Station) as independent agreement to the current contract, so we can close the contract by March, 2019.

We request this because this long lead time item was informed to SMCC recently and still waiting for approval, therefore SMCC do not have sufficient time to complete within the same time limit of other remaining works.

Your consideration and approval on this request will be very much appreciated.

Sincerely,

SUMITOMO MITSUI CONSTRUCTION CO. LTD.

TAKEYUKI SHIINO
General Manager
Guam Office

ATTACHMENT 1

JHC CORPORATION

Winner Building 20-H Tamuning Guam 96913 Tel:687-3828
P.O.Box 12999 Tamuning Guam 96931-2999 Fax:646-7310

Date : February 25, 2018
To : Mr. Nandagopalan
Project Manager

Project : Agat-Sta.Rita Waste Water Treatment Plant
(Administration Building)

Subject : Project Time Extension

Hafa Adai,
This is to formally request your good office to allow the time extension of completion for the above stated project due to the following reasons:

1. Lack of Manpower
2. Continuous Rain

As per our experience while constructing the recently completed structures, the clarifiers, lack of manpower has already been an issue for us. This is due to the H2B Visa issues as you very well knew. After the cancellation of our request for visa renewal, we cannot anymore attain the completion date as per our sub-contract for the Administration Building.
Also, rain weather greatly affects our production. In most instances, rain stopped our works almost in daily routine and production is commensurably affected.
With the above, we humbly request to complete the above said structure with an additional 4 months extension up to end of August 2018.
We appreciate that SMCC is offering more works to carry out structure construction namely Maintenance Building and Equalization Tank but unfortunately due to non-availability of workers, we cannot commit to carry-out any additional works for now.
We hope that with your consideration, this request will be granted.

Thank you very much.

Feb. 2018

CHEN ZHONG MIN DATE
President

KPL GUAM CO., LTD.
GENERAL CONTRACTOR

Unit 203 Photo Town Plaza
353 Chalan San Antonio
Tamuning, Guam 96913
Phone No.: (671)685-2521

Date : Sept. 25, 2018

To : Mr. Nandagopalan
Project Manager

Project : Agat-Sta.Rita Waste Water Treatment Plant (Centrifuge, Aerobic Building and EQ Tank)

Subject : Manpower Shortage

Sir,

KPL Construction has been very appreciative on the business provided to us with the construction of Three (3) Concrete structures namely Centrifuge, Aerobic Building and Equalization Tank.

However, with the manpower commitment by KPL on the on-set of these projects, needed to be supplied for the performance of those building works as previously discussed and sub-contracted, it is evident that the problem of manpower shortage still persists, despite our efforts to constantly publish an ads for manpower requirements. There were workers whom we initially hired and tested, but skillfulness were below standard. This only resulted into delay and repair of works and may continue to happen in the future if only meeting the number of manpower is required, thus not practicable, quality and money wise.

With the above scenario, we feel that the problem will not be resolved until the government allows the re-entry of H2B visa workers other than military projects.

We are deeply concern on this issue but we seek your understanding on our initial request to extend the completion date of the Equalization tank by 2 months (end of December) without weather limitations. As you may know, weather disturbances had also been prevailing yearlong thus production had been minimized if not limited.

Nonetheless, we were notified and aware that the completion of the large structure (Equalization Tank) is critical but please bear with us on this request and rest assured that KPL will continue to try looking for qualified workers and finish all works in the soonest time possible.

Thank you and best regards,

Vince Carmona III

HYUN HEE CONSTRUCTION CORPORATION
General Contractor Civil Structure Works
P.O. Box 2727 Tamuning, Guam 93961
Tel.: (671) 777-3123

Date : June 07, 2018

To : Mr. Nandagopalan
Project Manager

Project : Agat-Sta.Rita Waste Water Treatment Plant

Subject : Manpower Supply

Sir,

Hyun Hee Construction has been supportive on SMCC's requirements for manpower supply for various trade more than a decade now. In return, SMCC likewise provided the projects from place to place into which Hyun Hee was very grateful of.

However, with H2B visa issues, Guam's limited workers become very demanding for all contractors doing projects, thus competition among contractors to secure workers become competitive as well. Most of our previous workers succumb to this trend and move from contractors to contractors who can give them the most benefits. Almost 45% of our workers are already employed by other contractors not to mention workers that went to Saipan for a better fortune.

Due to this, despite our pleads and request to stay-on and complete this project, most of them still prefers and choose to leave even leaving their families behind in Guam.

With this problem, we regret that we cannot commit additional workers, other than what we have right now. Rest assured that, with our network/connections on islanders that are with us, we will continue to spread news of our demands for additional workers and support further SMCC's needs.

Hoping for your understanding.

Thank you,

Suk Joong Kim
President

VRM General Contractor
Construction Company
176 Perdron Goro Bordallo Subdivision
Yig`o, Guam 96929
Mailing Address: PMB 1001 1270 North Marine drive
STE 101 Tamuning, Guam 96913
Phone: 671-989-3913 Cell: 671-998-3294

To: Mr.Takiyuki Shino
General Manager
Sumitomo Mitsui Corporation Co. LTD

Sept.28,2018

RE: Agat Santa Rita Waste Treatment Plant Replacement
Electrical Works Delayed Due to Insufficient Manpower

Sir,

We regret to inform you that VRM has been having problems with providing workers to complete our works on time. Island wide problem of manpower shortage has been an issue thus haunting us up this time. Most of our trusted guys, permanent and temporary workers previously assigned to this project were pirated by other contractors. I apply for H2B visa just to import dependable and highly skilled electrician to work this project but unfortunately denied.

Nonetheless, with available workers we have now, we still stand committed to complete the project in the soonest.

Sincerely Yours,

Vicdorino C. Cabinta
VRM General Contractor

ATTACHMENT 2

PROJECT: AGAT-STA.RITA WASTE WATER TREATMENT PLANT

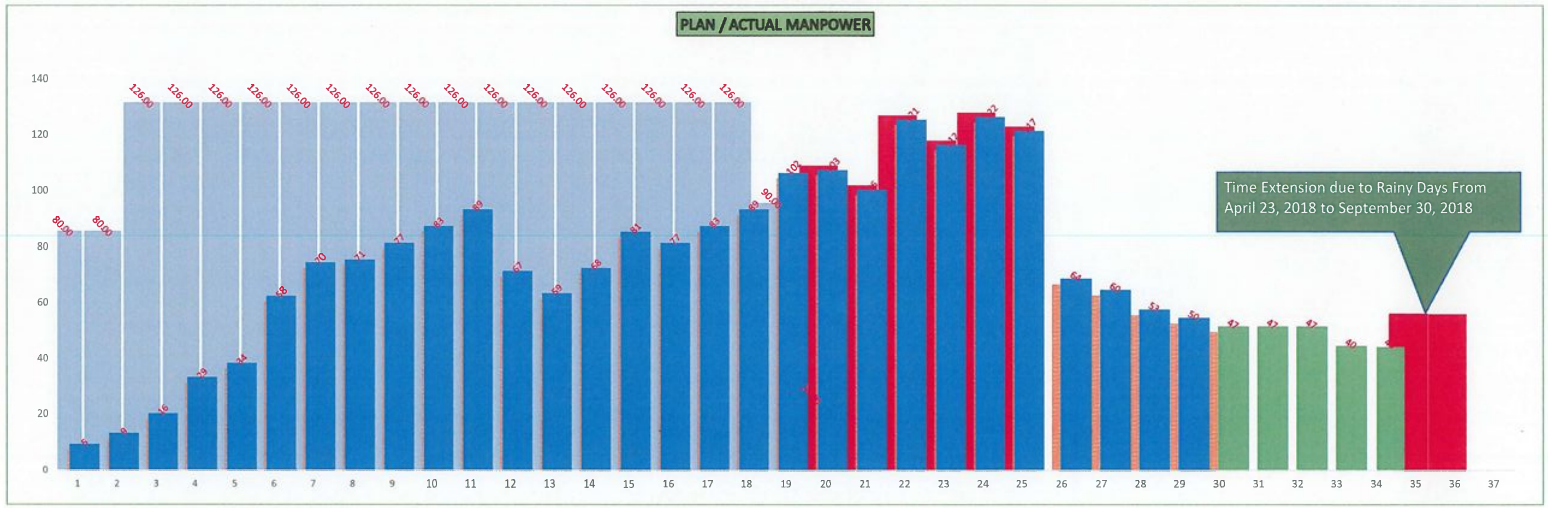
Contractor: Sumitomo Mitsui Const. Co. Ltd.

Year	2016									2017												2018												2019				Total
Month	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Plan	80	80	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	90	20																		2286
Actual up to Sept	5	9	16	29	34	58	70	71	77	83	89	67	59	68	81	77	83	89	102	103	96	121	112	122	117	64	60	53	50	47								2112
Actual (April)	5	9	16	29	34	58	70	71	77	83	89	67	59	68	81	77	83	89	102	103	96	121	112	122	117													1838
Needed Mandays																										64	60	53	50	47	47	47	40	40				448
Extension due to Weather (Days)																																						36 days (Feb. 1 - March 22, 2019)

Total Needed Mandays = Total Planned Mandays minus Total Actual up to April

= 2286 - 1838

= 448 Mandays



2286
1838
448
36 days (Feb. 1 - March 22, 2019)

Total Planned Mandays Required per contract up to November 1, 2017

Actual Mandays up to April 23, 2018

Needed Mandays to Complete beyond April 23, 2018

Days of Weather effects beyond January 31, 2019 (Feb 1-March 25, 2018)

PROJECT: AGAT-STA.RITA WASTE WATER TREAMENT PLANT

MANPOWER LOG

2016

Apr-16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	TOTAL	MANHOUR
Skilled	1	0	0		3	3	3	3	0	3	3	3	3	4	2	0	2	2	3	3	3	1	0	5	5	5	5	4	4		3	5	608
Unskilled	0	1	0		0	1	0	0	0	0	4	4	4	4	0	4	0	4	4	4	4	4	1	0	3	3	3	3	3		2.44		488
May-16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	0	5	5	5	5	4	3	0	5	5	6	6	6	4	0	6	6	6	10	10	3	0	6	6	6	6	6	3	0	1	8	5.461538	9	1136
Unskilled	0	3	3	3	3	3	3	0	3	5	5	6	6	2	0	4	5	5	6	6	4	0	1	3	5	3	3	1	0	0	6	3.730769		776
Jun-16	1	2	3		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		22	23	24	25	26	27	28	29	30	31			
Skilled	9	8	7	0	0	9	8	7	7	6	9	4	11	11	11	10	9	6	0	13	14	14	15	16	7	4	14	14	11	20		10.6	16	2192
Unskilled	6	5	4	0	1	3	5	6	6	6	3	0	6	6	6	6	6	3	0	4	8	8	9	9	5	0	7	7	8	9		5.84		1216
Jul-16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	14	10	4	4	10	19	19	19	17	5	19	21	18	15	13	14	4	24	3	21	18	28	18	7	26	22	18	15	17	14	6	17.92	29	3696
Unskilled	11	9	0	0	7	13	10	12	8	1	10	12	14	13	13	11	0	18	18	15	8	17	8	2	16	11	17	7	8	5	1	11.36		2360
Aug-16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	16	15	7	3	12	23	6	25	28	21	24	23	18	5	21	27	26	25	12	20	7	25	8	32	28	28	25	3	28	28	62	22.77778	34	5048
Unskilled	8	15	2	0	8	2	0	10	12	9	10	13	7	0	14	14	15	17	17	13	1	13		20	17	15	12		16	19	21	11.55556		2560
Sep-16	1	2	3		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	28	33	25	7	29	35	5	24	31	28	23	11	34	34	31	30	27	12	37	40	37	40	38	30	12	49	37	36	32	35		33.68	58	6960
Unskilled	31	28	21	3	13	29	8	33	36	22	7	4	24	28	25	22	14	4	28	26	28	27	29	18	0	24	22	23	25	25		23.84		5016
Oct-16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	38	17	35	42	38	44	41	39	16	40	49	40	48	45	41	21	34	51	49	48	45	36	17	45	47	49	51	49	41	45	45	46.46154	70	9968
Unskilled	20	7	24	23	28	29	26	22	10	20	24	22	30	23	21	7	17	16	24	24	21	19	8	20	22	21	22	26	18	19	19	23.53846		5056
Nov-16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	48	49	48	49	42	8	49	50	40	42	20	40	19	40	44	45	52	51	40	17	51	49	58	5	47	46	19	48	52	49		48.70833	71	9736
Unskilled	25	25	20	22	20	2	14	18	18	18	9	14	4	23	20	24	26	27	19	0	26	26	27	0	22	18	2	28	31	31		22.25		4472
Dec-16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	53	51	48	18	47	49	46	49	45	39	19	44	48	51	46	48	44	9	44	42	45	46	39	31	0	25	41	39	42	38	25	46.32	77	9688
Unskilled	18	21	23	2	19	25	28	31	32	23	2	37	42	32	38	43	28	3	34	39	41	35	41	9	0	7	29	36	27	34	9	30.8		6304

2017

Jan-17		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	0	29	55	53	55	51	43	19	45	50	42	49	56	49	20	39	48	49	52	49	46	23	48	48	47	49	47	34	23	49	59	51	83	10608
Unskilled	0	17	32	36	38	40	22	5	37	36	34	41	33	22	5	25	30	31	32	37	15	2	23	31	37	35	39	24	0	35	36	31.92308		6640
Feb-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	49	56	57	45	9	55	56	55	51	49	38	18	43	53	56	42	56	43	34	62	63	60	67	66	54	21	59	51				54.95833	89	10944
Unskilled	39	35	34	31	2	38	34	33	33	34	29	7	24	30	34	35	49	34	16	39	38	37	36	38	24	8	33	37				34.25		6888
Mar-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	37	42	43	39	33	49	51	44	46	38	37	34	43	48	39	38	35	4	0	29	31	38	40	38	35	9	31	35	34	37	34	39.03704	67	8728
Unskilled	22	27	32	19	10	29	25	36	36	38	30	10	46	28	29	23	25	10	0	23	31	32	33	30	19	3	26	31	24	22	31	28.07407		6240
Apr-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	24	10	37	42	42	41	37	21	0	31	35	37	36	5	24	12	40	38	37	41	39	24	7	33	34	36	39	39	28	17		34.48	59	7088
Unskilled	22	4	26	28	33	27	27	20	0	24	24	25	33	2	11	4	27	33	28	34	35	14	1	20	28	29	35	35	14	4		25		5176
May-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	37	39	37	41	43	24	0	36	42	40	37	40	29	5	44	38	44	46	43	26	3	41	48	41	41	42	29	0	24	54	45	39.30769	68	8472
Unskilled	26	34	38	36	30	17	0	25	33	32	35	34	23	1	26	31	36	38	36	24	0	25	29	25	28	31	10	0	6	31	35	28.80769		6200
Jun-17	1	2	3		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		22	23	24	25	26	27	28	29	30	31			
Skilled	49	45	24	0	43	42	50	45	52	37	12	51	51	41	40	39	27	0	48	45	51	51	48	33	1	46	50	49	36	49		44.24	81	9240
Unskilled	36	36	16	0	24	28	35	28	30	27	2	36	33	36	39	46	27	0	33	44	42	44	49	29	4	42	48	52	36	49		36.6		7608
Jul-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	25	3	46	6	48	48	47	28	9	41	45	48	46	43	32	2	39	45	44	43	4	19	3	41	43	44	47	48	25	4	43	39.36	77	8072
Unskilled	21	2	45	3	44	46	45	33	5	31	44	46	49	50	22	0	38	45	44	39	0	21	0	40	39	43	46	45	28	3	43	37.56		7680
Aug-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	46	44	51	47	33	4	43	40	45	51	47	23	0	46	47	47	45	51	32	7	47	53	42	46	47	31	2	33	43	47	52	42.44444	83	9536
Unskilled	42	43	48	41	30	2	37	41	45	40	48	37	0	41	48	48	47	44	30	5	33	45	37	38	41	31	3	40	47	51	44	40.18519		9016
Sep-17	1	2	3		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	55	33	0	17	55	61	62	8	0	0	49	54	51	55	56	38	0	52	52	60	55	58	35	11	55	62	50	48	47	31		46.2	89	9680
Unskilled	48	34	0	20	46	48	46	6	4	0	48	53	57	53	51	30	0	50	49	40	47	47	25	5	39	50	60	58	55	39		42.4		8864
Oct-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	2	55	51	55	53	42	42	1	55	42	65	56	53	39	9	52	56	59	57	66	48	15	64	60	64	64	66	55	0	65	65	56.69231	102	11808
Unskilled	5	57	46	58	60	54	30	5	31	36	40	42	42	37	3	45	47	30	48	52	33	3	48	46	53	50	54	42	0	44	51	45.65385		9536
Nov-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	64	64	66	42	9	62	67	61	50	62	33	0	52	56	59	58	50	39	0	57	55	61	0	47	44	2	54	53	52	55		54.58333	103	10992
Unskilled	41	49	48	38	13	49	46	55	58	52	29	0	32	53	54	46	64	45	1	56	47	53	0	30	38	0	42	52	50	54		48.08333		9560
Dec-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	55	44	1	53	55	60	56	53	47	8	53	57	58	54	50	41	7	52	62	65	56	56	44	12	0	55	61	58	68	49	3	53.52	96	11144
Unskilled	55	42	3	50	51	46	43	45	39	11	44	52	50	60	46	21	4	41	49	50	46	52	32	4	0	24	38	40	52	27	3	42.6		8960

2018

Jan-18		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		TOTAL	
Skilled	0	63	66	64	75	62	11	70	69	63	64	73	49	3	63	73	69	73	72	51	17	73	75	63	71	71	51	5	80	71	75	68.65385	121	14280
Unskilled	0	76	38	50	58	40	6	44	52	52	48	54	40	4	54	47	54	54	59	42	5	56	50	59	54	53	45	2	47	57	56	52.15385		10848
Feb-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	73	71	52	0	72	69	66	63	73	57	9	66	72	72	67	69	44	2	63	71	73	72	66	48	0	63	64	69				63.04167	112	12688
Unskilled	57	52	34	0	43	54	49	55	55	37	10	46	50	55	54	49	39	5	47	57	62	62	52	43	0	47	58	59				48.91667		9848
Mar-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	73	67	57	4	65	61	74	71	76	60	9	70	69	74	76	68	60	14	77	74	78	73	78	54	13	70	82	82	70	1	50	68.34615	122	14800
Unskilled	65	57	48	2	52	53	58	60	64	47	2	46	57	51	51	58	42	14	51	64	62	58	63	49	4	54	64	53	59	2	46	53.5		11648
Apr-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	12	72	73	73	75	76	44	8	66	69	67	58	69	63	15	76	79	79	80	73	47	0	64	63	65	67	68	41	0	57		67.48	117	13592
Unskilled	4	49	48	53	61	63	36	2	50	57	51	61	66	39	8	47	50	50	45	51	30	0	43	43	54	47	53	37	0	39		49.32		9896
May-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	46	46	45	48	42	0	40	41	44	44	43	35	1	36	37	35	40	40	29	3	36	38	38	38	38	29	0	20	40	40		31.16129	64	8096
Unskilled	47	44	44	43	35	1	34	37	42	36	44	35	0	40	40	46	42	45	32	5	42	45	43	43	46	35	0	27	45	47		32.83871		8520
Jun-18	1	2	3		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		22	23	24	25	26	27	28	29	30				
Skilled	39	15	20	37	39	38	36	37	17	17	41	40	40	41	34	17	16	38	40	41	37	34	12	15	32	33	37	38	34	11		29.56667	60	7408
Unskilled	46	32	0	39	36	41	40	41	30	0	43	39	41	39	32	21	0	34	39	42	44	39	22	0	39	36	37	42	42	30		30.66667		7728
Jul-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Skilled	0	38	38	10	14	28	28	4	36	35	36	38	40	29	0	27	36	31	39	30	0	0	37	38	37	35	36	25	4	36		25.32258	53	6280
Unskilled	9	35	42	19	11	19	26	12	40	41	43	46	47	34	0	22	47	40	44	32	0	0	33	38	41	39	34	26	9	36		27.6129		6920
Aug-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		Current Manpower Ave.	
Skilled	31	33	32	28	19	18	14	32	34	33	28	21	31	18	35	38	37	23	20	34	18	33	35	40	32	21	31	17	33	34	34	27.6129	50	7096
Unskilled	24	30	30	12	0	23	26	24	26	26	16	0	26	29	30	25	29	17	1	21	23	33	33	32	21	3	30	30	32	32	32	22.32258		5728
Sep-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
Skilled	29	0	3	38	45	49	54	36	3	9	1	40	44	45	43	0	48	49	47	44	45	18	0	26	25	28	26	28	15	6	0	27.16667	47	6752
Unskilled	23	0	0	32	35	28	27	22	0	7	0	22	24	25	22	0	26	27	30	28	29	21	0	24	29	34	29	32	19	8	0	19.33333		4824

ATTACHMENT 3

Summary of Weather Days After April 23, 2018

	Ave Rainfall (inches/day)	Actual Days in Excess of the Ave. Rainfall (From Table 2)
Apr-18	0.12	2.00 days
May-18	0.14	8.00 days
Jun-18	0.24	5.00 days
Jul-18	0.39	4.00 days
Aug-18	0.55	8.00 days
Sep-18	0.47	9.00 days
	Subtotal:	***36.00 days***

2018	Precip. Accum.							Table 2	
Apr	Sum	MM	INCH				ACTUAL WEEK DAYS ABOVE AVE.	2.00	
1	0.5 mm	0.5	0.020	04/1/18	Sunday, April 01, 2018	TRUE	TRUE		
2	1.3 mm	1.3	0.051	04/2/18	Monday, April 02, 2018	0.051	-		
3	1 mm	1	0.039	04/3/18	Tuesday, April 03, 2018	0.039	-		
4	0 mm	0	0.000	04/4/18	Wednesday, April 04, 2018	0	-		
5	1 mm	1	0.039	04/5/18	Thursday, April 05, 2018	0.039	-		
6	10.2 mm	10.2	0.402	04/6/18	Friday, April 06, 2018	0.402	1.00	Considered in CO	
7	0 mm	0	0.000	04/7/18	Saturday, April 07, 2018	TRUE	TRUE		
8	14 mm	14	0.551	04/8/18	Sunday, April 08, 2018	TRUE	TRUE		
9	0 mm	0	0.000	04/9/18	Monday, April 09, 2018	0	-		
10	0 mm	0	0.000	04/10/18	Tuesday, April 10, 2018	0	-		
11	0 mm	0	0.000	04/11/18	Wednesday, April 11, 2018	0	-		
12	0 mm	0	0.000	04/12/18	Thursday, April 12, 2018	0	-		
13	0 mm	0	0.000	04/13/18	Friday, April 13, 2018	0	-		
14	7.6 mm	7.6	0.299	04/14/18	Saturday, April 14, 2018	TRUE	TRUE		
15	34.3 mm	34.3	1.350	04/15/18	Sunday, April 15, 2018	TRUE	TRUE		
16	4.8 mm	4.8	0.189	04/16/18	Monday, April 16, 2018	0.189	1.00	Considered in CO	
17	0 mm	0	0.000	04/17/18	Tuesday, April 17, 2018	0	-		
18	5.6 mm	5.6	0.220	04/18/18	Wednesday, April 18, 2018	0.22	1.00	Considered in CO	
19	2.3 mm	2.3	0.091	04/19/18	Thursday, April 19, 2018	0.091	-		
20	0 mm	0	0.000	04/20/18	Friday, April 20, 2018	0	-		
21	8.4 mm	8.4	0.331	04/21/18	Saturday, April 21, 2018	TRUE	TRUE		
22	0.8 mm	0.8	0.031	04/22/18	Sunday, April 22, 2018	TRUE	TRUE		
23	0.8 mm	0.8	0.031	04/23/18	Monday, April 23, 2018	0.031	-		
24	0 mm	0	0.000	04/24/18	Tuesday, April 24, 2018	0	-		
25	0.8 mm	0.8	0.031	04/25/18	Wednesday, April 25, 2018	0.031	-		
26	7.1 mm	7.1	0.280	04/26/18	Thursday, April 26, 2018	0.28	1.00		
27	9.7 mm	9.7	0.382	04/27/18	Friday, April 27, 2018	0.382	1.00		
28	18.5 mm	18.5	0.728	04/28/18	Saturday, April 28, 2018	TRUE	TRUE		
29	2.3 mm	2.3	0.091	04/29/18	Sunday, April 29, 2018	TRUE	TRUE		
30	1.3 mm	1.3	0.051	04/30/18	Monday, April 30, 2018	0.051	-		

2018	Precip. Accum.							Table 2	
May	Sum	MM	INCH				ACTUAL WEEK DAYS ABOVE AVE.	8.00	
1	13 mm	13	0.512	05/1/18	Tuesday, May 01, 2018	0.512	1.00		
2	0 mm	0	0.000	05/2/18	Wednesday, May 02, 2018	0	-		
3	2.8 mm	2.8	0.110	05/3/18	Thursday, May 03, 2018	0.11	-		
4	1.3 mm	1.3	0.051	05/4/18	Friday, May 04, 2018	0.051	-		
5	0 mm	0	0.000	05/5/18	Saturday, May 05, 2018	TRUE	TRUE		
6	0 mm	0	0.000	05/6/18	Sunday, May 06, 2018	TRUE	TRUE		
7	0 mm	0	0.000	05/7/18	Monday, May 07, 2018	0	-		
8	2.3 mm	2.3	0.091	05/8/18	Tuesday, May 08, 2018	0.091	-		
9	1.3 mm	1.3	0.051	05/9/18	Wednesday, May 09, 2018	0.051	-		
10	0.3 mm	0.3	0.012	05/10/18	Thursday, May 10, 2018	0.012	-		
11	6.1 mm	6.1	0.240	05/11/18	Friday, May 11, 2018	0.24	1.00		
12	0.3 mm	0.3	0.012	05/12/18	Saturday, May 12, 2018	TRUE	TRUE		
13	0 mm	0	0.000	05/13/18	Sunday, May 13, 2018	TRUE	TRUE		
14	9.4 mm	9.4	0.370	05/14/18	Monday, May 14, 2018	0.37	1.00		
15	3 mm	3	0.118	05/15/18	Tuesday, May 15, 2018	0.118	-		
16	18.3 mm	18.3	0.720	05/16/18	Wednesday, May 16, 2018	0.72	1.00		
17	2.3 mm	2.3	0.091	05/17/18	Thursday, May 17, 2018	0.091	-		
18	1.3 mm	1.3	0.051	05/18/18	Friday, May 18, 2018	0.051	-		
19	1.5 mm	1.5	0.059	05/19/18	Saturday, May 19, 2018	TRUE	TRUE		
20	1.3 mm	1.3	0.051	05/20/18	Sunday, May 20, 2018	TRUE	TRUE		
21	20.8 mm	20.8	0.819	05/21/18	Monday, May 21, 2018	0.819	1.00		
22	38.6 mm	38.6	1.520	05/22/18	Tuesday, May 22, 2018	1.52	1.00		
23	6.6 mm	6.6	0.260	05/23/18	Wednesday, May 23, 2018	0.26	1.00		
24	0.3 mm	0.3	0.012	05/24/18	Thursday, May 24, 2018	0.012	-		
25	0.3 mm	0.3	0.012	05/25/18	Friday, May 25, 2018	0.012	-		
26	0.8 mm	0.8	0.031	05/26/18	Saturday, May 26, 2018	TRUE	TRUE		
27	0 mm	0	0.000	05/27/18	Sunday, May 27, 2018	TRUE	TRUE		
28	2.3 mm	2.3	0.091	05/28/18	Monday, May 28, 2018	0.091	-	Memorial Day Holiday	
29	4.1 mm	4.1	0.161	05/29/18	Tuesday, May 29, 2018	0.161	1.00		
30	0 mm	0	0.000	05/30/18	Wednesday, May 30, 2018	0	-		
31	1.5 mm	1.5	0.059	05/31/18	Thursday, May 31, 2018	0.059	-		

2018	Precip. Accum.							Table 2
Jun	Sum	MM	INCH				ACTUAL WEEK DAYS ABOVE AVE.	5.00
1	1 mm	1	0.039	06/1/18	Friday, June 01, 2018	0.039	-	
2	0.3 mm	0.3	0.012	06/2/18	Saturday, June 02, 2018	TRUE	TRUE	
3	8.9 mm	8.9	0.350	06/3/18	Sunday, June 03, 2018	TRUE	TRUE	
4	13.5 mm	13.5	0.531	06/4/18	Monday, June 04, 2018	0.531	-	
5	43.9 mm	43.9	1.728	06/5/18	Tuesday, June 05, 2018	1.728	1.00	
6	0 mm	0	0.000	06/6/18	Wednesday, June 06, 2018	0	-	
7	0.8 mm	0.8	0.031	06/7/18	Thursday, June 07, 2018	0.031	-	
8	18 mm	18	0.709	06/8/18	Friday, June 08, 2018	0.709	1.00	
9	6.3 mm	6.3	0.248	06/9/18	Saturday, June 09, 2018	TRUE	TRUE	
10	1.8 mm	1.8	0.071	06/10/18	Sunday, June 10, 2018	TRUE	TRUE	
11	7.1 mm	7.1	0.280	06/11/18	Monday, June 11, 2018	0.28	1.00	
12	1 mm	1	0.039	06/12/18	Tuesday, June 12, 2018	0.039	-	
13	0 mm	0	0.000	06/13/18	Wednesday, June 13, 2018	0	-	
14	0.3 mm	0.3	0.012	06/14/18	Thursday, June 14, 2018	0.012	-	
15	0 mm	0	0.000	06/15/18	Friday, June 15, 2018	0	-	
16	1 mm	1	0.039	06/16/18	Saturday, June 16, 2018	TRUE	TRUE	
17	0 mm	0	0.000	06/17/18	Sunday, June 17, 2018	TRUE	TRUE	
18	0 mm	0	0.000	06/18/18	Monday, June 18, 2018	0	-	
19	3 mm	3	0.118	06/19/18	Tuesday, June 19, 2018	0.118	-	
20	4.6 mm	4.6	0.181	06/20/18	Wednesday, June 20, 2018	0.181	-	
21	5.8 mm	5.8	0.228	06/21/18	Thursday, June 21, 2018	0.228	-	
22	0.5 mm	0.5	0.020	06/22/18	Friday, June 22, 2018	0.02	-	
23	0.3 mm	0.3	0.012	06/23/18	Saturday, June 23, 2018	TRUE	TRUE	
24	0 mm	0	0.000	06/24/18	Sunday, June 24, 2018	TRUE	TRUE	
25	0 mm	0	0.000	06/25/18	Monday, June 25, 2018	0	-	
26	6.6 mm	6.6	0.260	06/26/18	Tuesday, June 26, 2018	0.26	1.00	
27	19 mm	19	0.748	06/27/18	Wednesday, June 27, 2018	0.748	1.00	
28	3.3 mm	3.3	0.130	06/28/18	Thursday, June 28, 2018	0.13	-	
29	0 mm	0	0.000	06/29/18	Friday, June 29, 2018	0	-	
30	4.1 mm	4.1	0.161	06/30/18	Saturday, June 30, 2018	TRUE	TRUE	

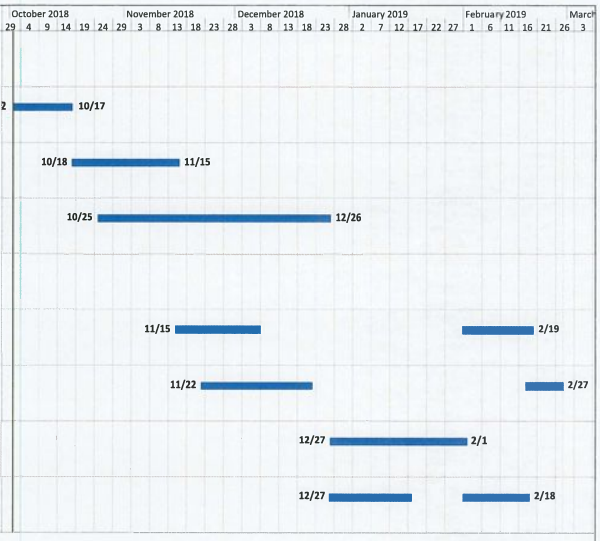
2018	Precip. Accum.							Table 2	
Jul	Sum	MM	INCH				ACTUAL WEEK DAYS ABOVE AVE.	4.00	
1	2.5 mm	2.5	0.098	07/1/18	Sunday, July 01, 2018	TRUE	TRUE		
2	0.3 mm	0.3	0.012	07/2/18	Monday, July 02, 2018	0.012	-		
3	4.8 mm	4.8	0.189	07/3/18	Tuesday, July 03, 2018	0.189	-		
4	22.1 mm	22.1	0.870	07/4/18	Wednesday, July 04, 2018	0.87	1.00	Fourth of July Holiday	
5	47.5 mm	47.5	1.870	07/5/18	Thursday, July 05, 2018	1.87	1.00		
6	46.7 mm	46.7	1.839	07/6/18	Friday, July 06, 2018	1.839	1.00		
7	5.6 mm	5.6	0.220	07/7/18	Saturday, July 07, 2018	TRUE	TRUE		
8	15.2 mm	15.2	0.598	07/8/18	Sunday, July 08, 2018	TRUE	TRUE		
9	0.3 mm	0.3	0.012	07/9/18	Monday, July 09, 2018	0.012	-		
10	2.3 mm	2.3	0.091	07/10/18	Tuesday, July 10, 2018	0.091	-		
11	7.4 mm	7.4	0.291	07/11/18	Wednesday, July 11, 2018	0.291	-		
12	10.4 mm	10.4	0.409	07/12/18	Thursday, July 12, 2018	0.409	1.00		
13	7.1 mm	7.1	0.280	07/13/18	Friday, July 13, 2018	0.28	-		
14	5.1 mm	5.1	0.201	07/14/18	Saturday, July 14, 2018	TRUE	TRUE		
15	0.3 mm	0.3	0.012	07/15/18	Sunday, July 15, 2018	TRUE	TRUE		
16	13.5 mm	13.5	0.531	07/16/18	Monday, July 16, 2018	0.531	1.00		
17	2 mm	2	0.079	07/17/18	Tuesday, July 17, 2018	0.079	-		
18	0 mm	0	0.000	07/18/18	Wednesday, July 18, 2018	0	-		
19	3.8 mm	3.8	0.150	07/19/18	Thursday, July 19, 2018	0.15	-		
20	30.7 mm	30.7	1.209	07/20/18	Friday, July 20, 2018	1.209	1.00	Liberation Day, Holiday	
21	6.6 mm	6.6	0.260	07/21/18	Saturday, July 21, 2018	TRUE	TRUE		
22	7.6 mm	7.6	0.299	07/22/18	Sunday, July 22, 2018	TRUE	TRUE		
23	0.8 mm	0.8	0.031	07/23/18	Monday, July 23, 2018	0.031	-		
24	3 mm	3	0.118	07/24/18	Tuesday, July 24, 2018	0.118	-		
25	0 mm	0	0.000	07/25/18	Wednesday, July 25, 2018	0	-		
26	7.9 mm	7.9	0.311	07/26/18	Thursday, July 26, 2018	0.311	-		
27	0 mm	0	0.000	07/27/18	Friday, July 27, 2018	0	-		
30	0.8 mm	0.8	0.031	07/30/18	Monday, July 30, 2018	0.031	-		
31	4.3 mm	4.3	0.169	07/31/18	Tuesday, July 31, 2018	0.169	-		
30	4.1 mm	4.1	0.161	07/30/18	Monday, July 30, 2018	0.161	-		

2018	Precip. Accum.						Table 2
Aug	Sum	MM	INCH			ACTUAL WEEK DAYS ABOVE AVE.	8.00
1	19.6 mm	19.6	0.772	08/1/18	Wednesday, August 01, 2018	0.772	1.00
2	40.1 mm	20.5	1.579	08/2/18	Thursday, August 02, 2018	1.579	1.00
3	5.6 mm	5.6	0.220	08/3/18	Friday, August 03, 2018	0.22	-
4	32.8 mm	32.8	1.291	08/4/18	Saturday, August 04, 2018	TRUE	TRUE
5	3.8 mm	3.8	0.150	08/5/18	Sunday, August 05, 2018	TRUE	TRUE
6	6.3 mm	6.3	0.248	08/6/18	Monday, August 06, 2018	0.248	-
7	0 mm	0	0.000	08/7/18	Tuesday, August 07, 2018	0	-
8	0 mm	0	0.000	08/8/18	Wednesday, August 08, 2018	0	-
9	7.6 mm	7.6	0.299	08/9/18	Thursday, August 09, 2018	0.299	-
10	0 mm	0	0.000	08/10/18	Friday, August 10, 2018	0	-
11	0.3 mm	0.3	0.012	08/11/18	Saturday, August 11, 2018	TRUE	TRUE
12	3.3 mm	3.3	0.130	08/12/18	Sunday, August 12, 2018	TRUE	TRUE
13	5.8 mm	5.8	0.228	08/13/18	Monday, August 13, 2018	0.228	-
14	16.3 mm	16.3	0.642	08/14/18	Tuesday, August 14, 2018	0.642	1.00
15	8.9 mm	8.9	0.350	08/15/18	Wednesday, August 15, 2018	0.35	-
16	62 mm	62	2.441	08/16/18	Thursday, August 16, 2018	2.441	1.00
17	2 mm	2	0.079	08/17/18	Friday, August 17, 2018	0.079	-
18	2.8 mm	2.8	0.110	08/18/18	Saturday, August 18, 2018	TRUE	TRUE
19	50.3 mm	50.3	1.980	08/19/18	Sunday, August 19, 2018	TRUE	TRUE
20	33.5 mm	33.5	1.319	08/20/18	Monday, August 20, 2018	1.319	1.00
21	83.1 mm	83.1	3.272	08/21/18	Tuesday, August 21, 2018	3.272	1.00
22	16 mm	16	0.630	08/22/18	Wednesday, August 22, 2018	0.63	1.00
23	1.5 mm	1.5	0.059	08/23/18	Thursday, August 23, 2018	0.059	-
24	4.8 mm	4.8	0.189	08/24/18	Friday, August 24, 2018	0.189	-
25	0 mm	0	0.000	08/25/18	Saturday, August 25, 2018	TRUE	TRUE
26	0 mm	0	0.000	08/26/18	Sunday, August 26, 2018	TRUE	TRUE
27	44.2 mm	44.2	1.740	08/27/18	Monday, August 27, 2018	1.74	1.00
28	0.3 mm	0.3	0.012	08/28/18	Tuesday, August 28, 2018	0.012	-
29	1.3 mm	1.3	0.051	08/29/18	Wednesday, August 29, 2018	0.051	-
30	0.3 mm	0.3	0.012	08/30/18	Thursday, August 30, 2018	0.012	-
31	7.1 mm	7.1	0.280	08/31/18	Friday, August 31, 2018	0.28	-

2018	Precip. Accum.						Table 2	
Sep	Sum	MM	INCH			ACTUAL WEEK DAYS ABOVE AVE.	9.00	
1	10.7 mm	10.7	0.421	09/1/18	Saturday, September 01, 2018	TRUE		
2	0 mm	0	0.000	09/2/18	Sunday, September 02, 2018	TRUE	TRUE	
3	1.3 mm	1.3	0.051	09/3/18	Monday, September 03, 2018	0.051	-	Labor Day Holiday
4	1.3 mm	1.3	0.051	09/4/18	Tuesday, September 04, 2018	0.051	-	
5	0 mm	0	0.000	09/5/18	Wednesday, September 05, 2018	0	-	
6	24.4 mm	24.4	0.961	09/6/18	Thursday, September 06, 2018	0.961	1.00	
7	2.5 mm	2.5	0.098	09/7/18	Friday, September 07, 2018	0.098	-	
8	9.4 mm	9.4	0.370	09/8/18	Saturday, September 08, 2018	TRUE	TRUE	
9	0.3 mm	0.3	0.012	09/9/18	Sunday, September 09, 2018	TRUE	TRUE	
10	0.3 mm	0.3	0.012	09/10/18	Monday, September 10, 2018	0.012	1.00	Typhoon Mangkut
11	12.4 mm	12.4	0.488	09/11/18	Tuesday, September 11, 2018	0.488	1.00	Typhoon Mangkut
12	0 mm	0	0.000	09/12/18	Wednesday, September 12, 2018	0	1.00	Typhoon Mangkut
13	32 mm	32	1.260	09/13/18	Thursday, September 13, 2018	1.26	1.00	Recovery- Typhoon Mangkut
14	8.9 mm	8.9	0.350	09/14/18	Friday, September 14, 2018	0.35	-	
15	2.5 mm	2.5	0.098	09/15/18	Saturday, September 15, 2018	TRUE	TRUE	
16	1.3 mm	1.3	0.051	09/16/18	Sunday, September 16, 2018	TRUE	TRUE	
17	10.9 mm	10.9	0.429	09/17/18	Monday, September 17, 2018	0.429	-	
18	3.3 mm	3.3	0.130	09/18/18	Tuesday, September 18, 2018	0.13	-	
19	3 mm	3	0.118	09/19/18	Wednesday, September 19, 2018	0.118	-	
20	3.6 mm	3.6	0.142	09/20/18	Thursday, September 20, 2018	0.142	1.00	
21	19 mm	19	0.748	09/21/18	Friday, September 21, 2018	0.748	1.00	
22	38.1 mm	38.1	1.500	09/22/18	Saturday, September 22, 2018	TRUE	TRUE	
23	0.5 mm	0.5	0.020	09/23/18	Sunday, September 23, 2018	TRUE	TRUE	
24	0 mm	0	0.000	09/24/18	Monday, September 24, 2018	0	-	
25	33.8 mm	33.8	1.331	09/25/18	Tuesday, September 25, 2018	1.331	1.00	
26	0 mm	0	0.000	09/26/18	Wednesday, September 26, 2018	0	-	
27	25.7 mm	25.7	1.012	09/27/18	Thursday, September 27, 2018	1.012	1.00	
28	0 mm	0	0.000	09/28/18	Friday, September 28, 2018	0	-	
29	0 mm	0	0.000	09/29/18	Saturday, September 29, 2018	TRUE	TRUE	

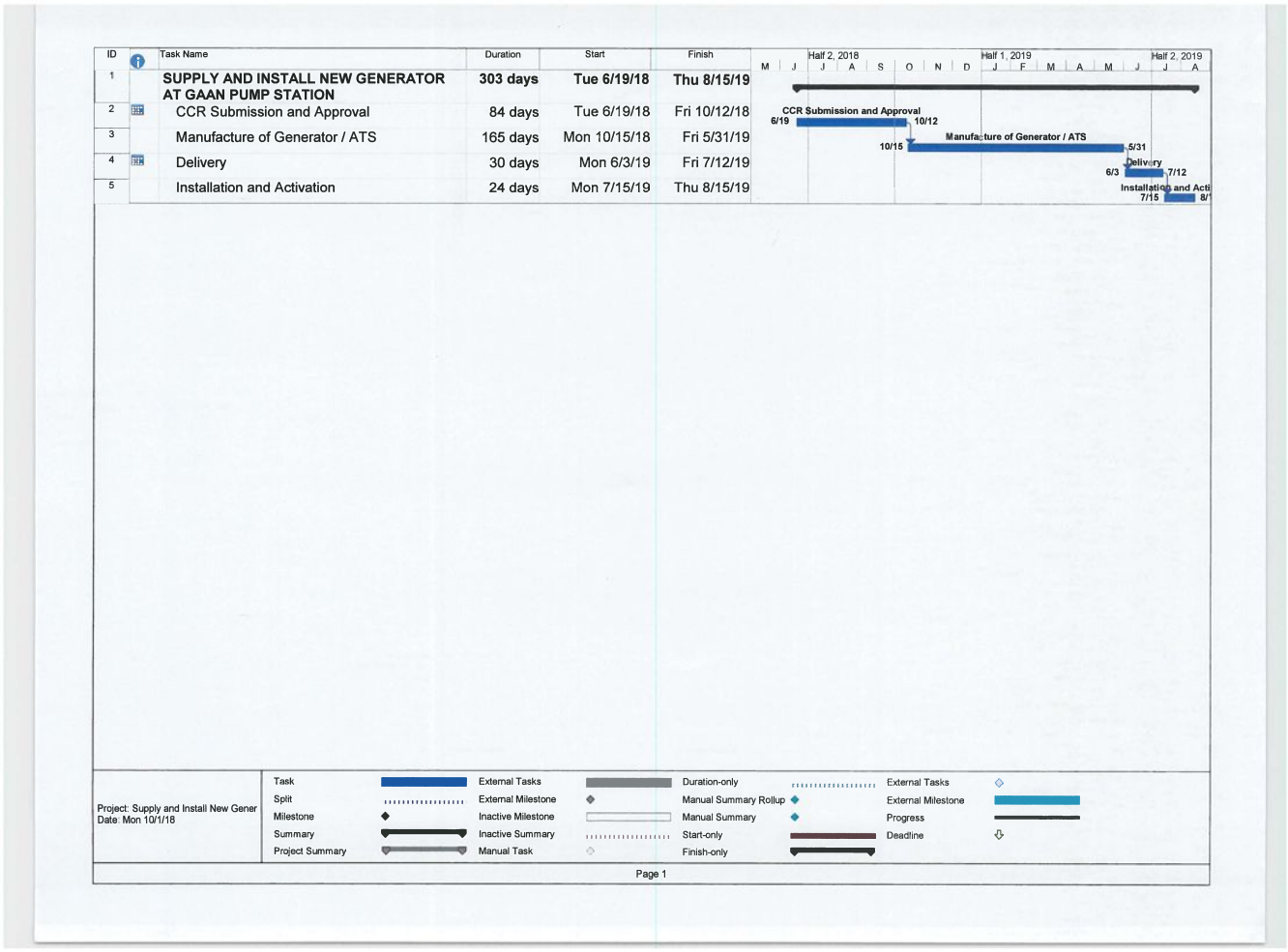
ATTACHMENT 4

ID	Task Name	Start	Finish
1220	**Lightning Protection and Surge Protection**	**Tue 10/2/18**	**Wed 2/27/19**
1221	Submission and Approval	Tue 10/2/18	Wed 10/17/18
1222	Shop Drawing and Approval	Thu 10/18/18	Thu 11/15/18
1223	Procurement and Delivery	Thu 10/25/18	Wed 12/26/18
1224	**Installation:**	**Thu 11/15/18**	**Wed 2/27/19**
1225	Tipalao	Thu 11/15/18	Tue 2/19/19
1226	UV	Thu 11/22/18	Wed 2/27/19
1227	Head Works	Thu 12/27/18	Fri 2/1/19
1228	Gaan PUMP STATION	Thu 12/27/18	Mon 2/18/19



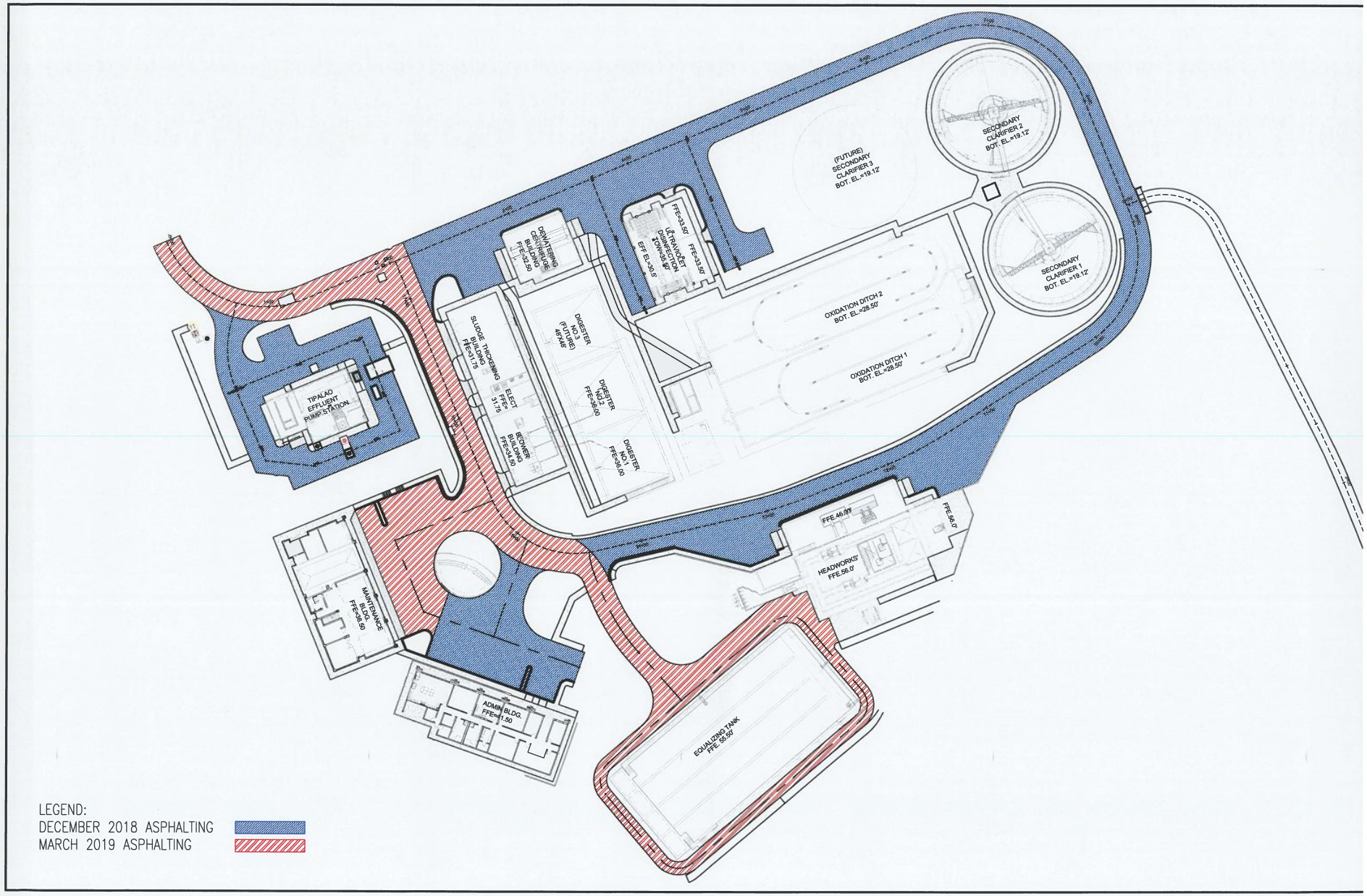
Tue 10/2/18
Page 1 of 1

Agat Santa Rita Waste Water Treatment Plant Replacement Project

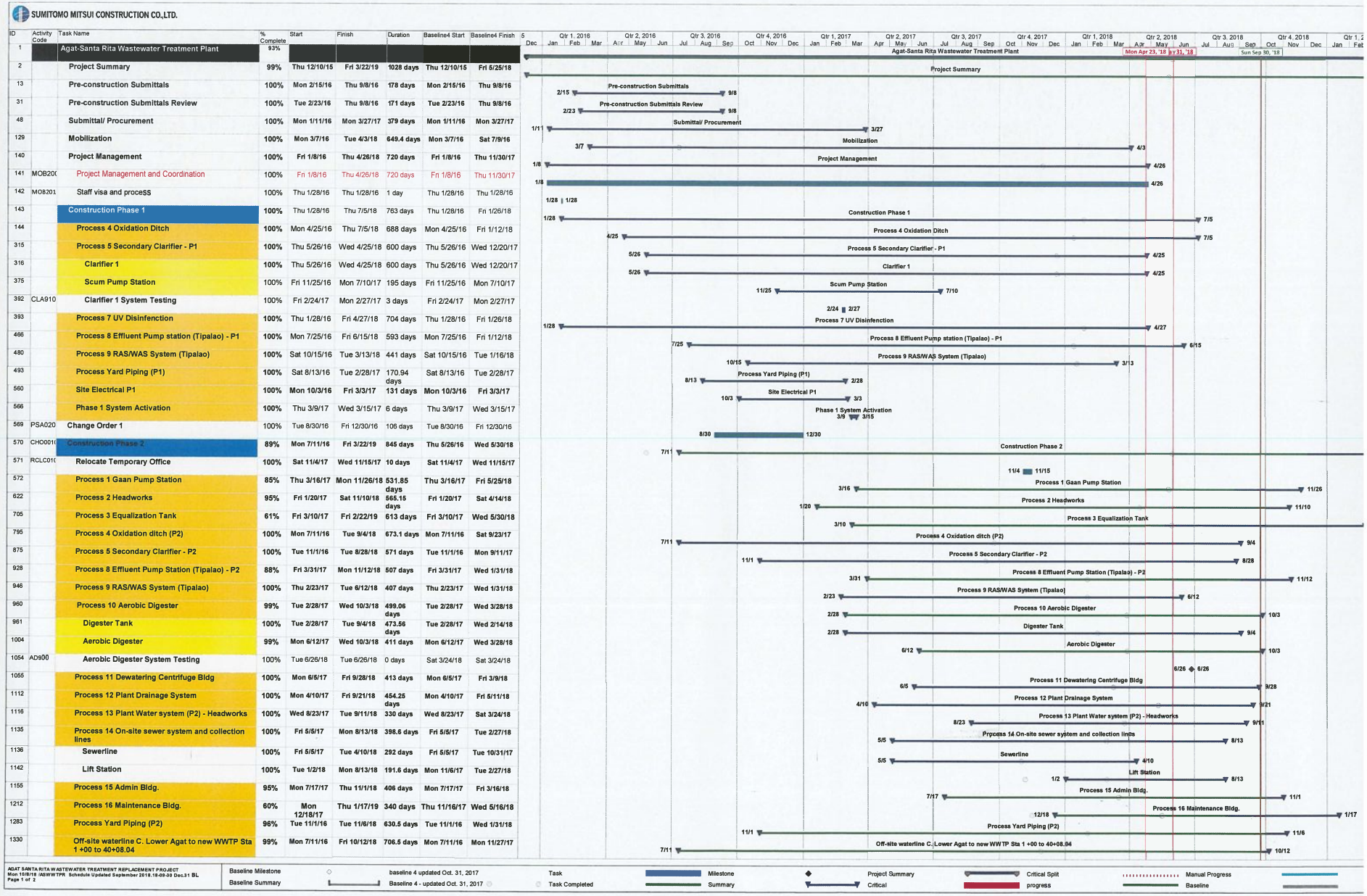


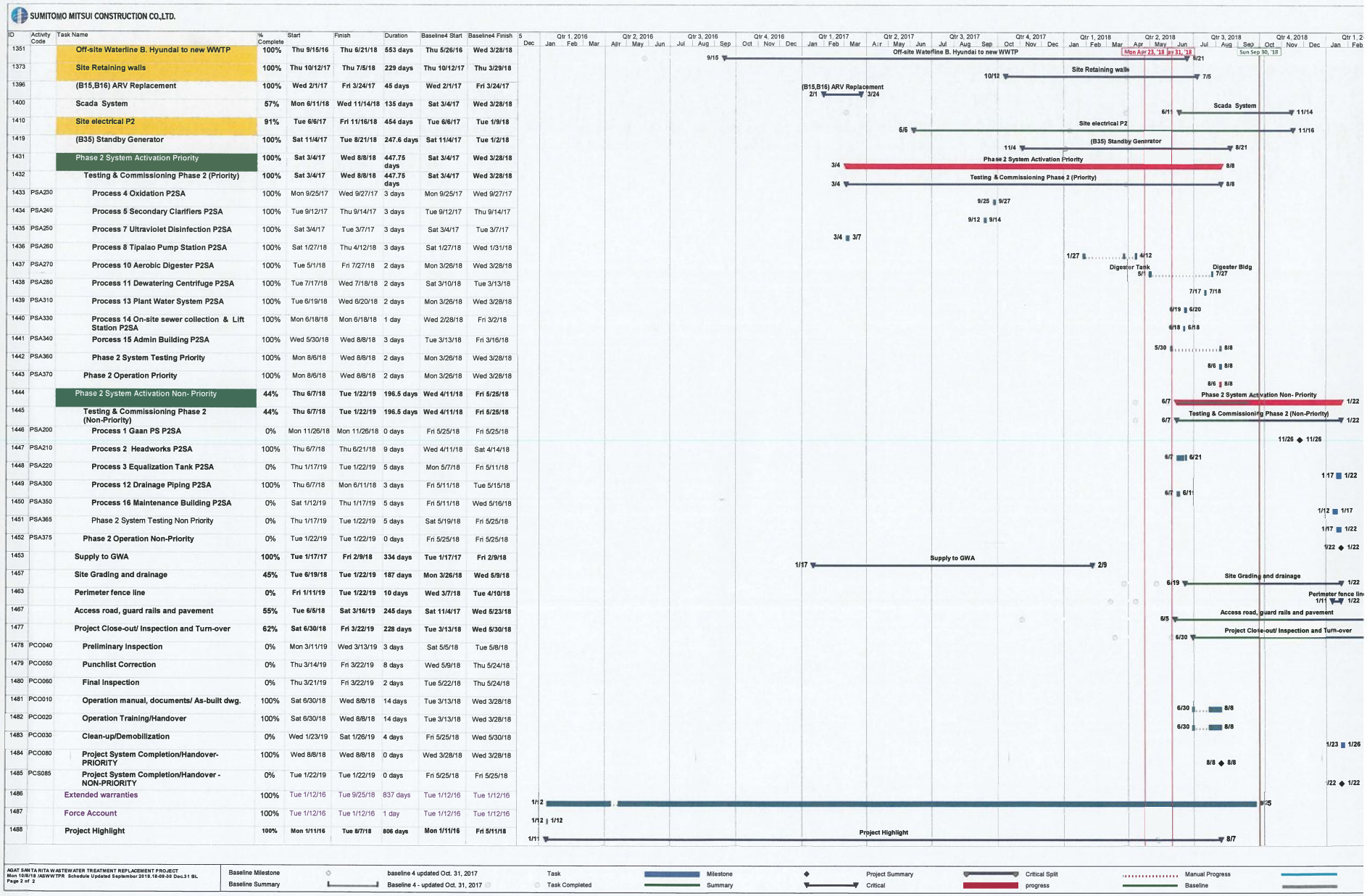
ID	Task Name	Duration	Start	Finish
1	**SUPPLY AND INSTALL NEW GENERATOR AT GAAN PUMP STATION**	**303 days**	**Tue 6/19/18**	**Thu 8/15/19**
2	CCR Submission and Approval	84 days	Tue 6/19/18	Fri 10/12/18
3	Manufacture of Generator / ATS	165 days	Mon 10/15/18	Fri 5/31/19
4	Delivery	30 days	Mon 6/3/19	Fri 7/12/19
5	Installation and Activation	24 days	Mon 7/15/19	Thu 8/15/19

ATTACHMENT 5


(FUTURE)
SECONDARY
CLARIFIER 3
BOT. EL.=19.12'
SECONDARY
CLARIFIER 2
BOT. EL.=19.12'
SECONDARY
CLARIFIER 1
BOT. EL.=19.12'
OXIDATION DITCH 2
BOT. EL.=28.50'
OXIDATION DITCH 1
BOT. EL.=28.50'
DEWATERING
CENTRIFUGE
BUILDING
FFE=60.50
ULTRAVIOLET
DISINFECTION
BOW=36.90'
EFF. EL=30.5'
FFE=33.50'
FFE=33.50'
SLUDGE THICKENING
BUILDING
FFE=31.75
ELECT
RM.
FFE=
31.75
BLOWER
BUILDING
FFE=24.50
DIGESTER
NO. 3
(FUTURE)
48'X48'
DIGESTER
NO. 2
FFE=56.00
DIGESTER
NO. 1
FFE=56.00
TIPALAO
EFFLUENT
PUMP STATION
FFE.46.50'
FFE.56.0'
HEADWORKS
FFE.56.0'
MAINTENANCE
BLDG.
FFE=56.50
ADMIN. BLDG.
FFE=61.50
EQUALIZING TANK
FFE. 55.50'
LEGEND:
DECEMBER 2018 ASPHALTING
MARCH 2019 ASPHALTING

ATTACHMENT 6


SUMITOMO MITSUI CONSTRUCTION CO.,LTD.
Agat-Santa Rita Wastewater Treatment Plant
Project Summary
Pre-construction Submittals
Pre-construction Submittals Review
Submittal/ Procurement
Mobilization
Project Management
Construction Phase 1
Process 4 Oxidation Ditch
Process 5 Secondary Clarifier - P1
Clarifier 1
Scum Pump Station
Process 7 UV Disinfenction
Process 8 Effluent Pump station (Tipalao) - P1
Process 9 RAS/WAS System (Tipalao)
Process Yard Piping (P1)
Site Electrical P1
Phase 1 System Activation
Construction Phase 2
Process 1 Gaan Pump Station
Process 2 Headworks
Process 3 Equalization Tank
Process 4 Oxidation ditch (P2)
Process 5 Secondary Clarifier - P2
Process 8 Effluent Pump Station (Tipalao) - P2
Process 9 RAS/WAS System (Tipalao)
Process 10 Aerobic Digester
Digester Tank
Aerobic Digester
Process 11 Dewatering Centrifuge Bldg
Process 12 Plant Drainage System
Process 13 Plant Water system (P2) - Headworks
Process 14 On-site sewer system and collection lines
Sewerline
Lift Station
Process 15 Admin Bldg.
Process 16 Maintenance Bldg.
Process Yard Piping (P2)
Off-site waterline C. Lower Agat to new WWTP Sta 1 +00 to 40+08.04
AGAT SANTA RITA WASTEWATER TREATMENT REPLACEMENT PROJECT
Baseline Milestone
Baseline Summary
baseline 4 updated Oct. 31, 2017
Baseline 4 - updated Oct. 31, 2017
Task
Task Completed
Milestone
Summary
Project Summary
Critical
Critical Split
progress
Manual Progress
Baseline



ID	Activity Code	Task Name	% Complete	Start	Finish	Duration	Baseline4 Start	Baseline4 Finish
1351		Off-site Waterline B. Hyundai to new WWTP	100%	Thu 9/15/16	Thu 6/21/18	553 days	Thu 5/26/16	Wed 3/28/18
1373		Site Retaining walls	100%	Thu 10/12/17	Thu 7/5/18	229 days	Thu 10/12/17	Thu 3/29/18
1396		(B15,B16) ARV Replacement	100%	Wed 2/1/17	Fri 3/24/17	45 days	Wed 2/1/17	Fri 3/24/17
1400		Scada System	57%	Mon 6/11/18	Wed 11/14/18	135 days	Sat 3/4/17	Wed 3/28/18
1410		Site electrical P2	91%	Tue 6/6/17	Fri 11/16/18	454 days	Tue 6/6/17	Tue 1/9/18
1419		(B35) Standby Generator	100%	Sat 11/4/17	Tue 8/21/18	247.6 days	Sat 11/4/17	Tue 1/2/18
1431		Phase 2 System Activation Priority	100%	Sat 3/4/17	Wed 8/8/18	447.75 days	Sat 3/4/17	Wed 3/28/18
1432		Testing & Commissioning Phase 2 (Priority)	100%	Sat 3/4/17	Wed 8/8/18	447.75 days	Sat 3/4/17	Wed 3/28/18
1433	PSA230	Process 4 Oxidation P2SA	100%	Mon 9/25/17	Wed 9/27/17	3 days	Mon 9/25/17	Wed 9/27/17
1434	PSA240	Process 5 Secondary Clarifiers P2SA	100%	Tue 9/12/17	Thu 9/14/17	3 days	Tue 9/12/17	Thu 9/14/17
1435	PSA250	Process 7 Ultraviolet Disinfection P2SA	100%	Sat 3/4/17	Tue 3/7/17	3 days	Sat 3/4/17	Tue 3/7/17
1436	PSA260	Process 8 Tipalao Pump Station P2SA	100%	Sat 1/27/18	Thu 4/12/18	3 days	Sat 1/27/18	Wed 1/31/18
1437	PSA270	Process 10 Aerobic Digester P2SA	100%	Tue 5/1/18	Fri 7/27/18	2 days	Mon 3/26/18	Wed 3/28/18
1438	PSA280	Process 11 Dewatering Centrifuge P2SA	100%	Tue 7/17/18	Wed 7/18/18	2 days	Sat 3/10/18	Tue 3/13/18
1439	PSA310	Process 13 Plant Water System P2SA	100%	Tue 6/19/18	Wed 6/20/18	2 days	Mon 3/26/18	Wed 3/28/18
1440	PSA330	Process 14 On-site sewer collection & Lift Station P2SA	100%	Mon 6/18/18	Mon 6/18/18	1 day	Wed 2/28/18	Fri 3/2/18
1441	PSA340	Porcess 15 Admin Building P2SA	100%	Wed 5/30/18	Wed 8/8/18	3 days	Tue 3/13/18	Fri 3/16/18
1442	PSA360	Phase 2 System Testing Priority	100%	Mon 8/6/18	Wed 8/8/18	2 days	Mon 3/26/18	Wed 3/28/18
1443	PSA370	Phase 2 Operation Priority	100%	Mon 8/6/18	Wed 8/8/18	2 days	Mon 3/26/18	Wed 3/28/18
1444		Phase 2 System Activation Non- Priority	44%	Thu 6/7/18	Tue 1/22/19	196.5 days	Wed 4/11/18	Fri 5/25/18
1445		Testing & Commissioning Phase 2 (Non-Priority)	44%	Thu 6/7/18	Tue 1/22/19	196.5 days	Wed 4/11/18	Fri 5/25/18
1446	PSA200	Process 1 Gaan PS P2SA	0%	Mon 11/26/18	Mon 11/26/18	0 days	Fri 5/25/18	Fri 5/25/18
1447	PSA210	Process 2 Headworks P2SA	100%	Thu 6/7/18	Thu 6/21/18	9 days	Wed 4/11/18	Sat 4/14/18
1448	PSA220	Process 3 Equalization Tank P2SA	0%	Thu 1/17/19	Tue 1/22/19	5 days	Mon 5/7/18	Fri 5/11/18
1449	PSA300	Process 12 Drainage Piping P2SA	100%	Thu 6/7/18	Mon 6/11/18	3 days	Fri 5/11/18	Tue 5/15/18
1450	PSA350	Process 16 Maintenance Building P2SA	0%	Sat 1/12/19	Thu 1/17/19	5 days	Fri 5/11/18	Wed 5/16/18
1451	PSA365	Phase 2 System Testing Non Priority	0%	Thu 1/17/19	Tue 1/22/19	5 days	Sat 5/19/18	Fri 5/25/18
1452	PSA375	Phase 2 Operation Non-Priority	0%	Tue 1/22/19	Tue 1/22/19	0 days	Fri 5/25/18	Fri 5/25/18
1453		Supply to GWA	100%	Tue 1/17/17	Fri 2/9/18	334 days	Tue 1/17/17	Fri 2/9/18
1457		Site Grading and drainage	45%	Tue 6/19/18	Tue 1/22/19	187 days	Mon 3/26/18	Wed 5/9/18
1463		Perimeter fence line	0%	Fri 1/11/19	Tue 1/22/19	10 days	Wed 3/7/18	Tue 4/10/18
1467		Access road, guard rails and pavement	55%	Tue 6/5/18	Sat 3/16/19	245 days	Sat 11/4/17	Wed 5/23/18
1477		Project Close-out/ Inspection and Turn-over	62%	Sat 6/30/18	Fri 3/22/19	228 days	Tue 3/13/18	Wed 5/30/18
1478	PCO040	Preliminary Inspection	0%	Mon 3/11/19	Wed 3/13/19	3 days	Sat 5/5/18	Tue 5/8/18
1479	PCO050	Punchlist Correction	0%	Thu 3/14/19	Fri 3/22/19	8 days	Wed 5/9/18	Thu 5/24/18
1480	PCO060	Final Inspection	0%	Thu 3/21/19	Fri 3/22/19	2 days	Tue 5/22/18	Thu 5/24/18
1481	PCO010	Operation manual, documents/ As-built dwg.	100%	Sat 6/30/18	Wed 8/8/18	14 days	Tue 3/13/18	Wed 3/28/18
1482	PCO020	Operation Training/Handover	100%	Sat 6/30/18	Wed 8/8/18	14 days	Tue 3/13/18	Wed 3/28/18
1483	PCO030	Clean-up/Demobilization	0%	Wed 1/23/19	Sat 1/26/19	4 days	Fri 5/25/18	Wed 5/30/18
1484	PCO080	Project System Completion/Handover-PRIORITY	100%	Wed 8/8/18	Wed 8/8/18	0 days	Wed 3/28/18	Wed 3/28/18
1485	PCS085	Project System Completion/Handover - NON-PRIORITY	0%	Tue 1/22/19	Tue 1/22/19	0 days	Fri 5/25/18	Fri 5/25/18
1486		Extended warranties	100%	Tue 1/12/16	Tue 9/25/18	837 days	Tue 1/12/16	Tue 1/12/16
1487		Force Account	100%	Tue 1/12/16	Tue 1/12/16	1 day	Tue 1/12/16	Tue 1/12/16
1488		Project Highlight	100%	Mon 1/11/16	Tue 8/7/18	806 days	Mon 1/11/16	Fri 5/11/18

EXHIBIT C

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Gloria B. Nelson Public Service Building | 688 Route 15, Mangilao, Guam 96913
P.O. Box 3010, Hagatna, Guam 96932
Tel. No. (671) 300-6846 Fax. No. (671) 648-3290

October 29, 2018

Mr. Takeyuki Shiino
General Manager
Sumitomo Mitsui Construction Co., Ltd. (Guam Office)
P.O. Box 9670
Tamuning, Guam 96931

Reference: GWA Project No. S14-002-BND; Construction of Agat-Santa Rita Wastewater Treatment Plant Replacement

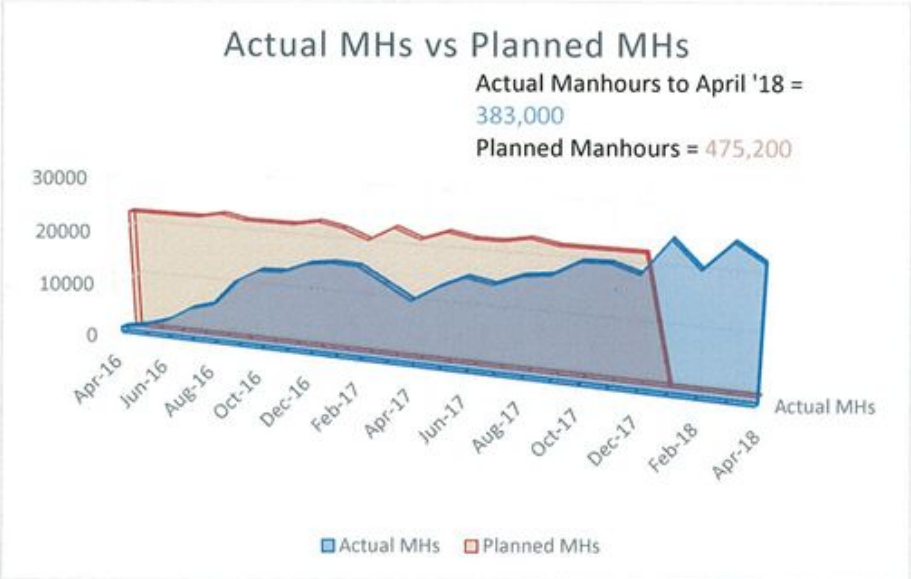
Subject: SMCC Letter LT-18-020, Request for Project Time Extension

Dear Mr. Shiino:

GWA is very aware of the issues SMCC has faced with regard to labor on this important project. In fact, GWA has been very proactive in working with all members of the Project Team - including SMCC, the Engineer of Record, and the Construction Manager – to provide flexibility in construction methods, additional equipment and materials, and additional resources for premium on labor costs to attract and retain additional labor SMCC needed to help us meet our Court Order deadlines.

While we appreciate the information SMCC has presented to support the request for a schedule extension due to the lack of H-2B labor, GWA feels that it is insufficient to support the request. Specifically, we note the following:

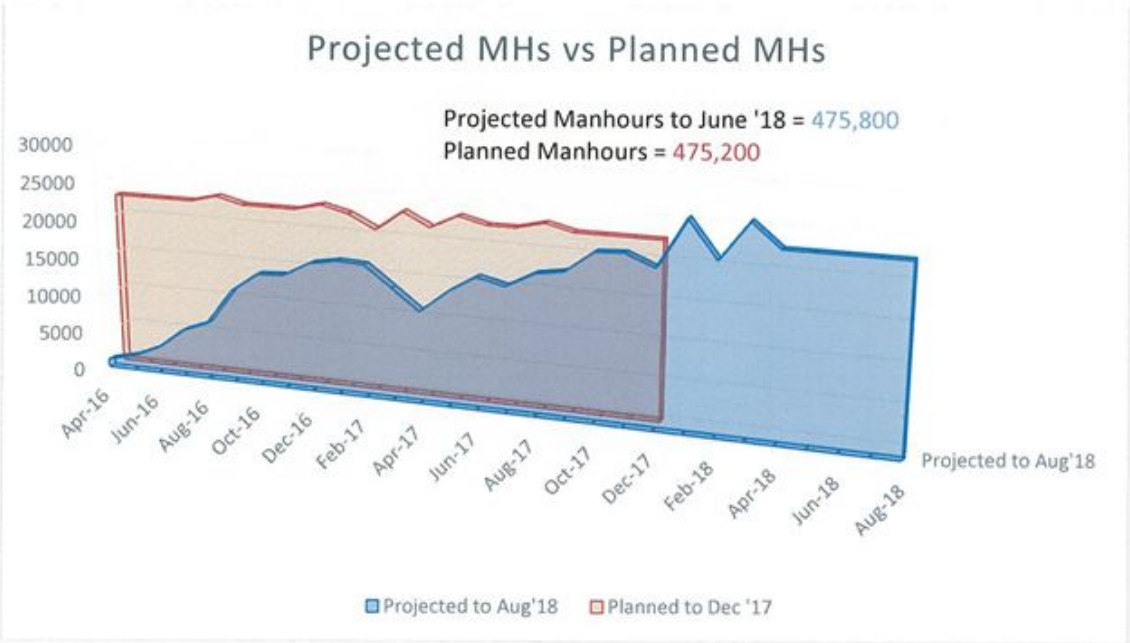
- The information provided indicates a planned manpower level of 126 laborers for the full duration of the original contract completion period as the basis for the total



manpower effort of 475,200 manhours. This ignores the reality on any construction project that requires scaling up the activities on the site at the beginning of the project, and ramping down the activities as the major elements of work are completed.

- The actual manhours presented through April 2018 appear to be based on the number of laborers on site, for the number of work days in a given month working an 8-hour shift. This does not seem to reflect the approach actually taken during construction, for longer shifts and extended work hours in order to recover schedule (GWA did in fact authorize and allocate additional funding for such activity). Therefore, the actual manhours may be understated in SMCC's analysis.
- SMCC is using a past average of total laborers (74) available to project the additional time required to complete the project, which was less than the number of actual laborers employed at the project when the request for time extension was made. This ignores what GWA believes should be the focus for SMCC, which is maintaining the 110+ laborers on the project in April 2018 through the end of the project period in order to minimize any further delay.

GWA believes a more realistic analysis of manhours is needed to support a reasonable request for time extension due to the labor issues facing SMCC. The graphic below is based on more reasonable assumptions for maintaining a labor force SMCC already achieved (110+) and driving for completion to minimize schedule delays.



Notwithstanding the conservative assumptions that SMCC has used with regard to scale-up and ramp-down, and an 8-hour work day, GWA's analysis and projection supports a reasonable time extension through August of 2018. The fact that we are already in October, and SMCC has not yet completed major elements of the work required for substantial completion is of critical concern to both GWA Management and Governance, and to the U.S. Environmental Protection Agency (USEPA), which continues to threaten GWA with additional action under the Court Order.

GWA is willing to provide a contract extension in accordance with our analysis above. However, we intend to assess liquidated damages beginning September 1, 2018 as set forth in the Contract. In the event the project is not completed before the end of the year, the liquidated damages assessed are projected to be approximately $480,000. GWA requires SMCC to immediately submit a revised schedule showing completion as soon as possible within the calendar year, along with a narrative plan on how SMCC intends to change its approach to make this happen.

I would like to meet with you on Monday, November 5th at 2:00pm at which time SMCC will be expected to provide the revised schedule and explain the plan for achieving the required completion.

Regards,

MIGUEL C. BORDALLO, P.E.
General Manager

Cc: T. Cruz (GWA)
J. Davis (GWA)
K.Clark (GWA)

EXHIBIT D

Date: October 03, 2018

To: Mr. John Davis, P.E., Project Manager
Guam Waterworks Authority
Gloria B. Nelson Public Utilities Complex
Route 15, Mangilao, Guam

Project: Agat-Santa Rita WWTP Replacement Project - Phase II
Project No. S14-002-BND

Subject: MOD 07 – Additional Construction Management Services Scope of Work & Fee Proposal

Dear Mr. Davis:

We are pleased to submit the following proposal for additional CM support services as described below.

SCOPE OF WORK:

In follow-up to your email dated September 20, 2018 (Exhibit 01), we have prepared a cost estimate to extend our Construction Management (CM) Services from ***September 01, 2018 through April 30, 2019*** as requested.

MOD 05 provided CM services through August 31, 2018. Based on the Contractor's most current progress schedule (Exhibit 02), the ***"Project Closeout/ Inspection and Turnover"*** is currently being shown as completed by ***November 07, 2018***. It is our opinion that this completion date is inaccurate, and we believe the work will not be completed until March or April of 2019. We base this projection on our observation of the on-site progress, the overall project completion percentage, the monthly average percent complete, and that no single structure has been 100% completed and accepted by GWA as of the date of this letter.

Kindly reference Exhibit 03. The graph begins in August 2016 when we received the Contractor's first payment application, and we were able to calculate the first percent of work complete. From NTP to July 31, 2018 the Contractor completed, on average, 3.42% of the total work per month. Over the six (6) month period of February 1, 2018 to July 31, 2018 the contractor completed, on average, 3.16% of the total work per month. Assuming they will complete the same amount of work (3.16% to 3.42% each month), we project the completion of construction (substantial completion) by January 31, 2019 (6 months from July 31, 2018). Additionally, we estimate two (2) to three (3) months for punch list work and project closeout. This would push the Contractor's Overall Project Completion Date to April 30, 2019.

Additionally, the onsite labor force seems to have been in a general decline for the last seven (7) months. The average site staffing for July and August 2018 was 90 persons. Please review Exhibit 04 to see this decline which appears to have begun in February or March of 2018.

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MOD 06 was prepared to provide additional CM services for the proposed 21-inch Baza Gardens Sanitary Sewer extension from Route 2A to the new ASRWWTP lift station. It is our understanding that these CM services will be provided by others and the associated fee will be utilized for additional CM services for this project.

MOD 07 has been prepared to establish a budgetary amount of anticipated monthly costs for each month the Contractor is unable to complete their work past August 31, 2018. Our proposal assumes a reduction in staffing as requested by John M. Davis, as described below, and as graphically presented in Table 01.

- We have assumed our current effort for September 2018 through October 2018.
- We have reduced the PM effort from 100% to 75% and the Civil Inspector, RFI & Submittal Manager from 100% to 50% for November 2018 through January 2019.
- We have reduced the PM effort from 75% to 50% and the Civil Inspector, RFI & Submittal Manager from 50% to 25%, and the Sr. Special Inspector from 15% to 0% for February 2019 through April 2019.

TABLE 01- SUMMARY OF MOD 07 STAFFING EFFORT

Working Days Per Month	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19
	22	23	22	21	23	20	21	22
Description/Labor Class								
Project Manager	100%	100%	75%	75%	75%	50%	50%	25%
Asst. Project Manager	100%	100%	100%	100%	100%	100%	100%	100%
Structural/Senior Special Inspector	15%	15%	15%	10%	5%	0%	0%	0%
Civil Inspector, RFI & Submittal Manager	100%	100%	50%	50%	50%	25%	25%	25%
Civil Inspector/Structural	100%	100%	100%	100%	100%	100%	100%	100%
Technical Administrative Support	100%	100%	100%	100%	100%	100%	100%	100%

Our estimate has been prepared in good faith, based on our current understanding of the remaining work, and for budgetary purposes only. As GWA is aware, the Contractor has not been able to provide an accurate recovery schedule or achieve projected completion milestones. Our actual effort is entirely dependent on the Contractor's ability to complete (or not complete) their work within the durations and timeframes represented in their schedule.

We have been providing our services on a time and materials (T&M) basis since April of 2018. It is our hope that the Contractor can finish this project in its entirety prior to the end of the year. However, as our current services are being provided on a T&M basis, we believe it is in GWA's best interest for GHD to provide a realistic "quantity of magnitude" with regard to what we believe the appropriate staffing, quality assurance costs, and related expenses will be, should project completion continue to extend.

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TABLE 02. SUMMARY OF MOD 07 ESTIMATED COST
(September 01, 2018 through April 30, 2019)

Description/Labor Class	Labor Hours	Estimated Labor Cost	GRT	Amount
Project Manager	992	$ 217,119.04	$ 9,047.35	$ 226,166
Assistant PM	1376	$ 134,737.92	$ 5,614.53	$ 140,352
Structural/Sr. Special Inspector	113	$ 18,504.80	$ 771.10	$ 19,276
Civil Inspector, RFI & Submittal Manager	734	$ 71,873.28	$ 2,994.96	$ 74,868
Civil/Special Inspector	1376	$ 127,183.68	$ 5,299.74	$ 132,483
Technical Administrative Support	1376	$ 114,042.88	$ 4,752.17	$ 118,795
Consumables				$ 108,056
Subconsultants				$ 125,600
Quality Assurance				$ 31,600
			TOTAL	**$ 977,197**

CLARIFICATIONS AND ASSUMPTIONS:

1. The T&M hourly rates used for our staffing positions are based on those established by Miguel C. Bordallo as reasonable and memorialized in email of July 19, 2018 from Tom Cruz (Exhibit 05). The attachment includes the spreadsheet prepared by Bordallo to establish these rates. We have provided a summary table of those rates to simplify review of this proposal and provide a single source document for future reference and review. (Exhibit 06)

2. In an effort to be completely transparent with GWA, a Detailed Spreadsheet has been provided in Exhibit 07, showing positions, rates, and hours carried in this estimate.

3. The estimated subconsultant services, quality assurance, and consumables associated with our monthly effort have been presented in Exhibit 08. The cost for these expenses is based on the costs incurred for the month of August 2018. Actual costs for consumables, reproduction, telephone & data, motor vehicles, subconsultants, and quality assurance will be provided on a T&M basis with appropriate supporting documentation as requested by Miguel C. Bordallo per email dated August 15, 2018 (Exhibit 09). GHD's corporate ***"2018 Fee Schedule"*** and ***"Chargeout List for Reproduction Supplies"*** may also be used in the event that receipts are not readily available. (Exhibit 10).

4. The CM's staffing shall generally consist of those positions shown in Table 01 & 02. The staffing effort shall be managed as an overall budget to allow appropriate flexibility for CM staffing to ramp up and down based on specific work activities that are in progress or work that has been completed. The CM shall coordinate the staffing based on the requirements for a particular day, week, or month.

5. The budget provided for anticipated quality assurance survey verification, compaction testing, concrete strength testing, and material testing assumes these services will be required through the end of the project. These costs will not be invoiced if they are not incurred. We anticipate these costs will not be exceeded.

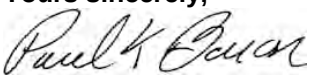
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6. The Contractor shall pay for overtime inspection services required or requested outside of the normal 40 hour work week. This requirement shall be strictly enforced and supported by GWA with payment being deducted from the Contractor's Progress Payment Applications as appropriate. This amount will then be distributed to GHD by GWA change order or by other acceptable terms to GHD and GWA.

7. GWA agrees to negotiate with GHD regarding change orders for additional construction phase services due to construction delays, additional work, or any other reason not due to the negligent acts of GHD until final completion of the project has been achieved.

We look forward to your favourable and expeditious response to this proposal. If you have any questions or concerns please do not hesitate to contact me directly.

Yours sincerely,



Paul K. Baron
Principal

Attachments:

- Exhibit 01 – GHD CM Contract Extension Past Aug 2018 Email
- Exhibit 02 – SMCC July 2018 Summary Schedule
- Exhibit 03 – Projected Project Completion by Monthly Percent Completes Graph
- Exhibit 04 – ASRWWTP Weekly Labor Force Summary
- Exhibit 05 – GHD Progress Billing April 01 Through April 30, 2018 Email
- Exhibit 06 – GHD Project Time & Materials Rate Schedule
- Exhibit 07 – MOD 07 Additional CM Service Positions, Rates, and Hours
- Exhibit 08 – GHD Schedule of Estimated Expenses
- Exhibit 09 – GHD Progress Billing April 01 Through April 30, 2018 Email
- Exhibit 10 – GHD Corporate 2018 Fee Schedule and Chargeout List for Reproduction Supplies

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EXHIBIT 01:
GHD CM Contract Extension Past Aug 2018 Email

GHD Inc.
865 South Marine Corps Drive Suite 202 Tamuning GU 96913
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Bryan Ryley

From: John Davis <jdavis@guamwaterworks.org>
Sent: Thursday, September 20, 2018 9:39 AM
To: Bryan Ryley
Subject: RE: Agat-SR WWTP / GHD CM Contract >> Extension past Aug 2018 (Phone comm 17Sep18)>>PLEASE PROCEED ...PROPOSED CHANGE ODER NO. 6

Morning Bryan,
Looks good.
Please proceed with putting prices to these manhour projections, include material costs, and submit as soon as you can.
Please reference this action as "Proposed Change Order No. 6.
Thanks, jd

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]
Sent: Wednesday, September 19, 2018 4:09 PM
To: John Davis <jdavis@guamwaterworks.org>
Subject: RE: Agat-SR WWTP / GHD CM Contract >> Extension past Aug 2018 (Phone comm 17Sep18)

John,

Please take a look at the below and give me the green light. Thanks, Bryan Ryley

---

From: Bryan Ryley
Sent: Monday, September 17, 2018 3:38 PM
To: 'John Davis ' <jdavis@guamwaterworks.org>
Cc: Rylma Carino <rcarino@guamwaterworks.org>; Tom Cruz <thomas@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>
Subject: Agat-SR WWTP / GHD CM Contract >> Extension past Aug 2018 (Phone comm 17Sep18)

John,

Based on our phone call this morning, we have prepared a staffing matrix to estimate the utilization of additional CM staffing services for **September 2018 through April 2019.**

1. We have assumed current effort for **September 2018 through October 2018.** Columns highlighted in yellow.

2. We have reduced the PM effort from 100% to 75% and the Civil Inspector RFI & Submittal Manager from 100% to 50% for **November 2018 through January 2019**. Columns highlighted in blue.

3. We have reduced the PM effort from 75% to 50% and the Civil Inspector, RFI & Submittal Manager from 50% to 25%, and the Sr. Special Inspector from 15% to 0% for **February 2019 through April 2019.** Columns highlighted in green.

4. At this point, our estimate is for budgetary purposes as discussed. As you know, the Contractor has not been able to provide and achievable scheduled completion milestones, so our actual effort is dependent on the Contractors ability to complete their work in a timely manner.

5. Our services are now being provided on a time and materials based project, we recommend that the effort to complete the work be estimated as conservatively as practicable to avoid additional trips to the CCU "well", while maintaining appropriate staffing effort to complete our work.

6. We would like to request that the estimated staffing effort be managed as an overall budgetary amount allowing the flexibility for CM staffing to ramp our staff up and down based on the specific work activities being performed.

Kindly review that table below and items discussed above. If they are consistent with your request and to your satisfaction, we will proceed with the preparation of MOD 07. We have also responded to your comments below in "blue" font.

Working Days Per Month	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19
	22	23	22	21	23	20	21	22
Description/Labor Class								
Project Manager (B. Ryley)	100%	100%	75%	75%	75%	50%	50%	25%
Asst. Project Manager (S. Carbulido)	100%	100%	100%	100%	100%	100%	100%	100%
Structural/Sr.Special Inspector (A. Sutton)	15%	15%	15%	10%	5%	0%	0%	0%
Civil Inspector, RFI & Submittal Manager (J. Wu)	100%	100%	50%	50%	50%	25%	25%	25%
Civil Inspector/Structural (R. Miaco)	100%	100%	100%	100%	100%	100%	100%	100%
Technical Administrative Support (H. Cervania)	100%	100%	100%	100%	100%	100%	100%	100%

Thank you,

Bryan J. Ryley
Construction Manager

GHD
T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com
865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

From: John Davis <jdavis@guamwaterworks.org>
Sent: Monday, September 17, 2018 11:11 AM
To: Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: Rylma Carino <rcarino@guamwaterworks.org>; Tom Cruz <thomas@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>
Subject: Agat-SR WWTP / GHD CM Contract >> Extension past Aug 2018 (Phone comm 17Sep18)

Bryan,

To verify we are in agreement on the items we discussed today, please inform me if you take exception to any of the following points:

- GHD will prepare a fee proposal for Sep 18 thru April 19 by the end of this week (Sep 21)
  GHD: Agree.
- Fee proposal will show incremental reduction in fees after Oct to reflect decreasing contractor activity
  GHD: Agree.
- CCU approval of additional funding will not occur until next CCU meeting in October

GHD: Agree.

- GWA requests GHD billing for months of June through Aug
  GHD: We are in the process of preparing June 2018 invoice and will have it submitted before the end of the week.
- GHD May invoice has been forwarded to GWA-Finance
  GHD: Noted. Thank you.

Please notify me asap of any errors or omissions.

BR/jd

GUAM WATERWORKS AUTHORITY
J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

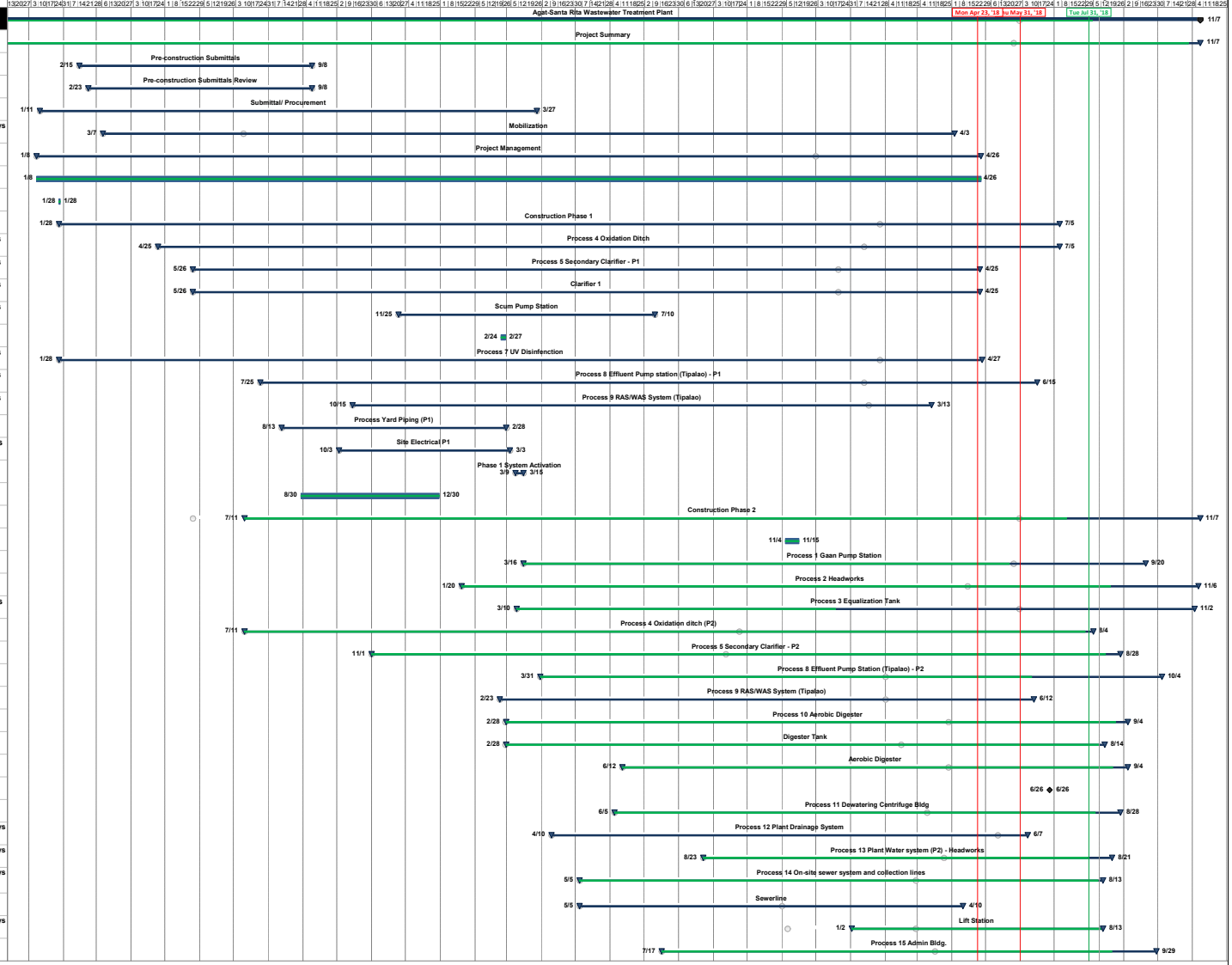
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EXHIBIT 02:
SMCC July 2018 Summary Schedule

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SUMITOMO MITSUI CONSTRUCTION CO.,LTD.

ID	Task Name	% Complete	Start	Finish	Duration
1	**Agat-Santa Rita Wastewater Treatment Plant**	91%		Wed 11/7/18	
2	**Project Summary**	99%	Thu 12/10/15	Wed 11/7/18	912 days
13	**Pre-construction Submittals**	100%	Mon 2/15/16	Thu 9/8/16	178 days
31	**Pre-construction Submittals Review**	100%	Tue 2/23/16	Thu 9/8/16	171 days
48	**Submittal/ Procurement**	100%	Mon 1/11/16	Mon 3/27/17	379 days
129	**Mobilization**	100%	Mon 3/7/16	Tue 4/3/18	649.4 days
140	**Project Management**	100%	Fri 1/8/16	Thu 4/26/18	720 days
141	Project Management and Coordination	100%	Fri 1/8/16	Thu 4/26/18	720 days
142	Staff visa and process	100%	Thu 1/28/16	Thu 1/28/16	1 day
143	**Construction Phase 1**	100%	Thu 1/28/16	Thu 7/5/18	763 days
144	**Process 4 Oxidation Ditch**	100%	Mon 4/25/16	Thu 7/5/18	688 days
315	**Process 5 Secondary Clarifier - P1**	100%	Thu 5/26/16	Wed 4/25/18	600 days
316	**Clarifier 1**	100%	Thu 5/26/16	Wed 4/25/18	600 days
375	**Scum Pump Station**	100%	Fri 11/25/16	Mon 7/10/17	195 days
392	**Clarifier 1 System Testing**	100%	Fri 2/24/17	Mon 2/27/17	3 days
393	**Process 7 UV Disinfenction**	100%	Thu 1/28/16	Fri 4/27/18	704 days
466	**Process 8 Effluent Pump station (Tipalao) - P1**	100%	Mon 7/25/16	Fri 6/15/18	593 days
480	**Process 9 RAS/WAS System (Tipalao)**	100%	Sat 10/15/16	Tue 3/13/18	441 days
493	**Process Yard Piping (P1)**	100%	Sat 8/13/16	Tue 2/28/17	170.94 days
560	**Site Electrical P1**	100%	**Mon 10/3/16**	**Fri 3/3/17**	**131 days**
566	**Phase 1 System Activation**	100%	Thu 3/9/17	Wed 3/15/17	6 days
569	**Change Order 1**	100%	Tue 8/30/16	Fri 12/30/16	106 days
570	**Construction Phase 2**	86%	Mon 7/11/16	Wed 11/7/18	729 days
571	**Relocate Temporary Office**	100%	Sat 11/4/17	Wed 11/15/17	10 days
572	**Process 1 Gaan Pump Station**	78%	Thu 3/16/17	Thu 9/20/18	474.5 days
622	**Process 2 Headworks**	88%	Fri 1/20/17	Tue 11/6/18	561.15 days
705	**Process 3 Equalization Tank**	47%	Fri 3/10/17	Fri 11/2/18	517 days
795	**Process 4 Oxidation ditch (P2)**	99%	Mon 7/11/16	Sat 8/4/18	648 days
875	**Process 5 Secondary Clarifier - P2**	98%	Tue 11/1/16	Tue 8/28/18	571 days
928	**Process 8 Effluent Pump Station (Tipalao) - P2**	79%	Fri 3/31/17	Thu 10/4/18	474 days
946	**Process 9 RAS/WAS System (Tipalao)**	100%	Thu 2/23/17	Tue 6/12/18	407 days
960	**Process 10 Aerobic Digester**	98%	Tue 2/28/17	Tue 9/4/18	473.71 days
961	**Digester Tank**	99%	Tue 2/28/17	Tue 8/14/18	456.06 days
1004	**Aerobic Digester**	97%	Mon 6/12/17	Tue 9/4/18	385.65 days
1054	**Aerobic Digester System Testing**	100%	Tue 6/26/18	Tue 6/26/18	0 days
1055	**Process 11 Dewatering Centrifuge Bldg**	95%	Mon 6/5/17	Tue 8/28/18	386 days
1112	**Process 12 Plant Drainage System**	100%	Mon 4/10/17	Thu 6/7/18	363.5 days
1116	**Process 13 Plant Water system (P2) - Headworks**	94%	Wed 8/23/17	Tue 8/21/18	311.7 days
1135	**Process 14 On-site sewer system and collection lines**	99%	Fri 5/5/17	Mon 8/13/18	398.6 days
1136	**Sewerline**	100%	Fri 5/5/17	Tue 4/10/18	292 days
1142	**Lift Station**	99%	Tue 1/2/18	Mon 8/13/18	191.6 days
1155	**Process 15 Admin Bldg.**	91%	Mon 7/17/17	Sat 9/29/18	378 days



AGAT SANTA RITA WASTEWATER TREATMENT REPLACEMENT PROJECT
Fri 8/10/18 AGRWWTP master sched _update 180731.18-07-31-Oct 31 BL
Page 1 of 2

Baseline Milestone ◇ baseline 4 updated Oct. 31, 2017 Task Milestone Project Summary Critical Split Manual Progress
Baseline Summary Baseline 4 - updated Oct. 31, 2017 Task Completed Summary Critical progress Baseline

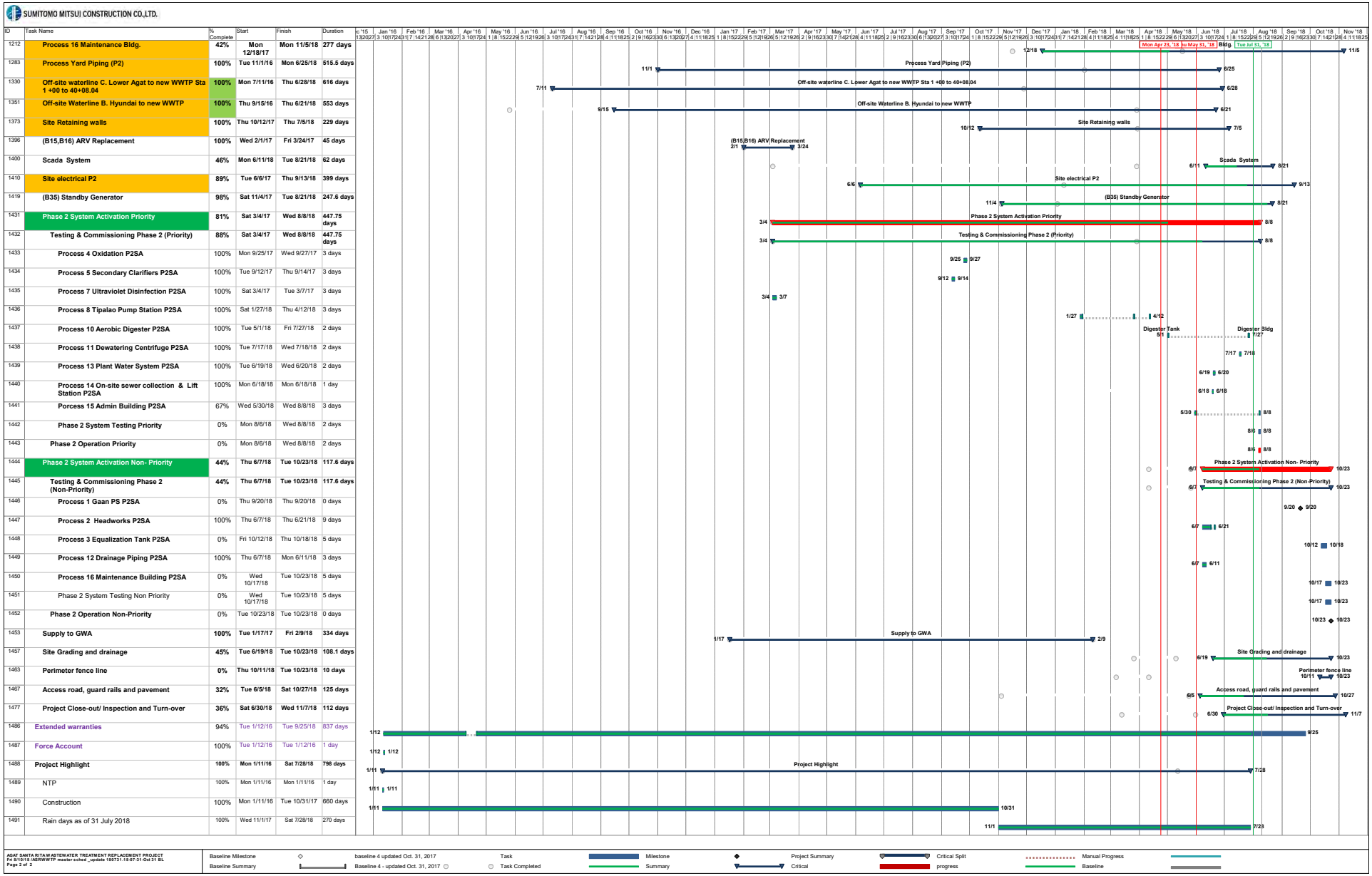

SUMITOMO MITSUI CONSTRUCTION CO.,LTD.
ID
Task Name
% Complete
Start
Finish
Duration
1212 Process 16 Maintenance Bldg. 42% Mon 12/18/17 Mon 11/5/18 277 days
1283 Process Yard Piping (P2) 100% Tue 11/1/16 Mon 6/25/18 515.5 days
1330 Off-site waterline C. Lower Agat to new WWTP Sta 1 +00 to 40+08.04 100% Mon 7/11/16 Thu 6/28/18 616 days
1351 Off-site Waterline B. Hyundai to new WWTP 100% Thu 9/15/16 Thu 6/21/18 553 days
1373 Site Retaining walls 100% Thu 10/12/17 Thu 7/5/18 229 days
1396 (B15,B16) ARV Replacement 100% Wed 2/1/17 Fri 3/24/17 45 days
1400 Scada System 46% Mon 6/11/18 Tue 8/21/18 62 days
1410 Site electrical P2 89% Tue 6/6/17 Thu 9/13/18 399 days
1419 (B35) Standby Generator 98% Sat 11/4/17 Tue 8/21/18 247.6 days
1431 Phase 2 System Activation Priority 81% Sat 3/4/17 Wed 8/8/18 447.75 days
1432 Testing & Commissioning Phase 2 (Priority) 88% Sat 3/4/17 Wed 8/8/18 447.75 days
1433 Process 4 Oxidation P2SA 100% Mon 9/25/17 Wed 9/27/17 3 days
1434 Process 5 Secondary Clarifiers P2SA 100% Tue 9/12/17 Thu 9/14/17 3 days
1435 Process 7 Ultraviolet Disinfection P2SA 100% Sat 3/4/17 Tue 3/7/17 3 days
1436 Process 8 Tipalao Pump Station P2SA 100% Sat 1/27/18 Thu 4/12/18 3 days
1437 Process 10 Aerobic Digester P2SA 100% Tue 5/1/18 Fri 7/27/18 2 days
1438 Process 11 Dewatering Centrifuge P2SA 100% Tue 7/17/18 Wed 7/18/18 2 days
1439 Process 13 Plant Water System P2SA 100% Tue 6/19/18 Wed 6/20/18 2 days
1440 Process 14 On-site sewer collection & Lift Station P2SA 100% Mon 6/18/18 Mon 6/18/18 1 day
1441 Porcess 15 Admin Building P2SA 67% Wed 5/30/18 Wed 8/8/18 3 days
1442 Phase 2 System Testing Priority 0% Mon 8/6/18 Wed 8/8/18 2 days
1443 Phase 2 Operation Priority 0% Mon 8/6/18 Wed 8/8/18 2 days
1444 Phase 2 System Activation Non- Priority 44% Thu 6/7/18 Tue 10/23/18 117.6 days
1445 Testing & Commissioning Phase 2 (Non-Priority) 44% Thu 6/7/18 Tue 10/23/18 117.6 days
1446 Process 1 Gaan PS P2SA 0% Thu 9/20/18 Thu 9/20/18 0 days
1447 Process 2 Headworks P2SA 100% Thu 6/7/18 Thu 6/21/18 9 days
1448 Process 3 Equalization Tank P2SA 0% Fri 10/12/18 Thu 10/18/18 5 days
1449 Process 12 Drainage Piping P2SA 100% Thu 6/7/18 Mon 6/11/18 3 days
1450 Process 16 Maintenance Building P2SA 0% Wed 10/17/18 Tue 10/23/18 5 days
1451 Phase 2 System Testing Non Priority 0% Wed 10/17/18 Tue 10/23/18 5 days
1452 Phase 2 Operation Non-Priority 0% Tue 10/23/18 Tue 10/23/18 0 days
1453 Supply to GWA 100% Tue 1/17/17 Fri 2/9/18 334 days
1457 Site Grading and drainage 45% Tue 6/19/18 Tue 10/23/18 108.1 days
1463 Perimeter fence line 0% Thu 10/11/18 Tue 10/23/18 10 days
1467 Access road, guard rails and pavement 32% Tue 6/5/18 Sat 10/27/18 125 days
1477 Project Close-out/ Inspection and Turn-over 36% Sat 6/30/18 Wed 11/7/18 112 days
1486 Extended warranties 94% Tue 1/12/16 Tue 9/25/18 837 days
1487 Force Account 100% Tue 1/12/16 Tue 1/12/16 1 day
1488 Project Highlight 100% Mon 1/11/16 Sat 7/28/18 798 days
1489 NTP 100% Mon 1/11/16 Mon 1/11/16 1 day
1490 Construction 100% Mon 1/11/16 Tue 10/31/17 660 days
1491 Rain days as of 31 July 2018 100% Wed 11/1/17 Sat 7/28/18 270 days
Mon Apr 23, '18
Tue May 31, '18
Tue Jul 31, '18
Bldg.
Process Yard Piping (P2)
Off-site waterline C. Lower Agat to new WWTP Sta 1 +00 to 40+08.04
Off-site Waterline B. Hyundai to new WWTP
Site Retaining walls
(B15,B16) ARV Replacement
Scada System
Site electrical P2
(B35) Standby Generator
Phase 2 System Activation Priority
Testing & Commissioning Phase 2 (Priority)
Digester Tank
Digester Bldg
Phase 2 System Activation Non- Priority
Testing & Commissioning Phase 2 (Non-Priority)
Supply to GWA
Site Grading and drainage
Perimeter fence line
Access road, guard rails and pavement
Project Close-out/ Inspection and Turn-over
Project Highlight
AGAT SANTA RITA WASTEWATER TREATMENT REPLACEMENT PROJECT
Fri 8/10/18 AGRWWTP master sched _update 180731.18-07-31-Oct 31 BL
Page 2 of 2
Baseline Milestone
Baseline Summary
baseline 4 updated Oct. 31, 2017
Baseline 4 - updated Oct. 31, 2017
Task
Task Completed
Milestone
Summary
Project Summary
Critical
Critical Split
progress
Manual Progress
Baseline

EXHIBIT 03:
Projected Project Completion by Monthly Percent Completes Graph

GHD Inc.
865 South Marine Corps Drive Suite 202 Tamuning GU 96913
T 671 472 6792 **F** 671 477 6229 **W** www.ghd.com

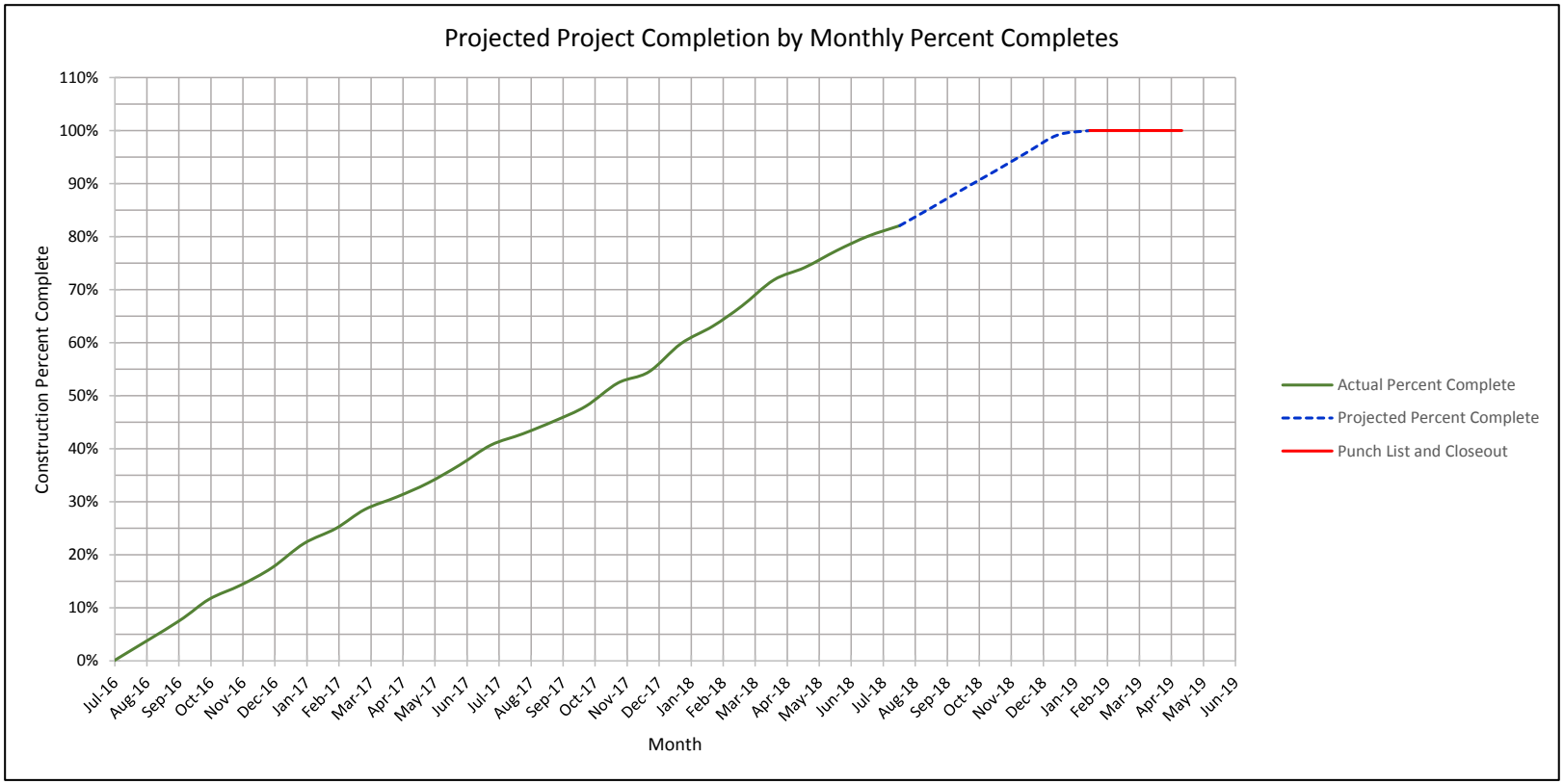
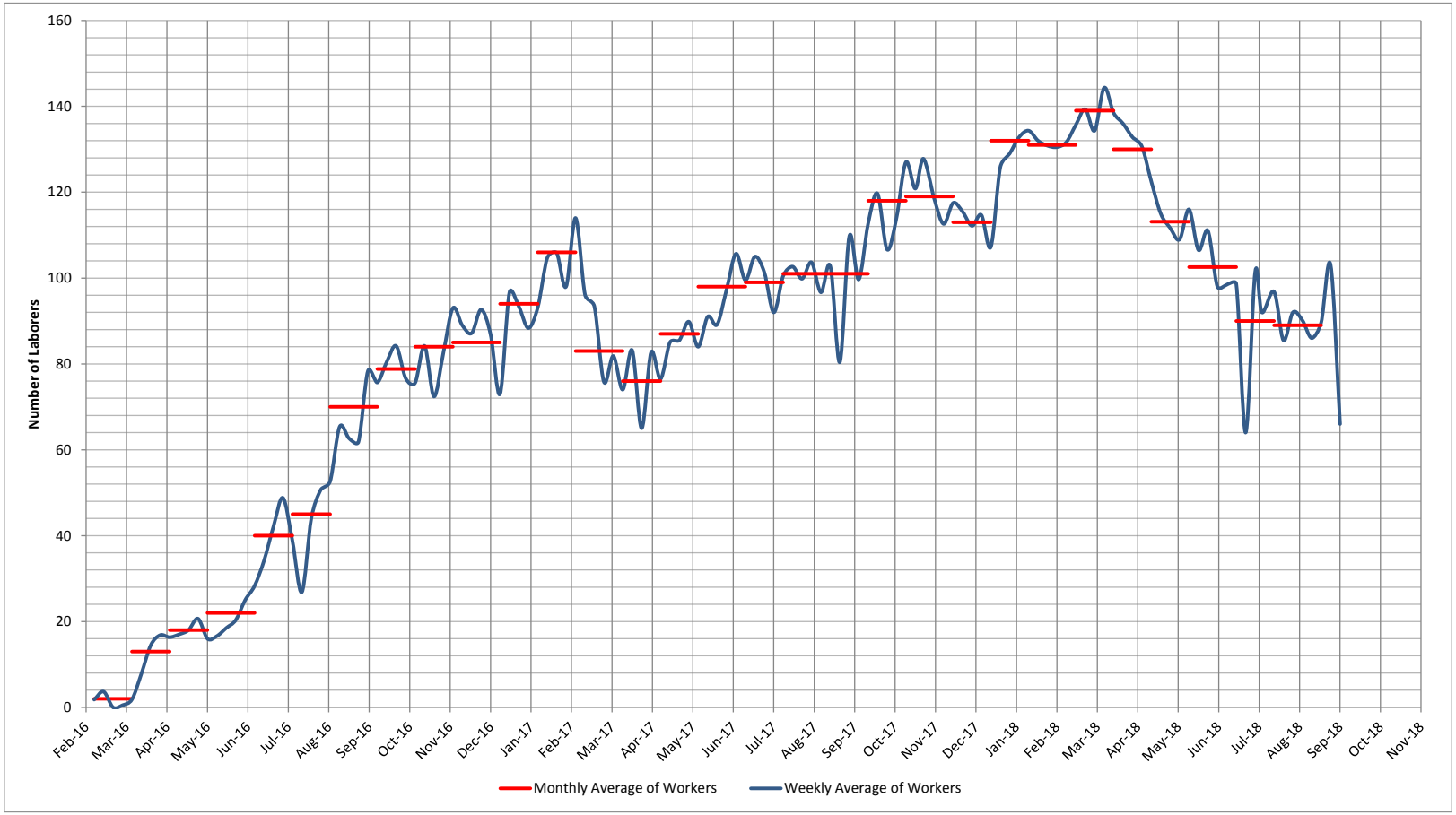

Projected Project Completion by Monthly Percent Completes
Construction Percent Complete
110%
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17
Apr-17
May-17
Jun-17
Jul-17
Aug-17
Sep-17
Oct-17
Nov-17
Dec-17
Jan-18
Feb-18
Mar-18
Apr-18
May-18
Jun-18
Jul-18
Aug-18
Sep-18
Oct-18
Nov-18
Dec-18
Jan-19
Feb-19
Mar-19
Apr-19
May-19
Jun-19
Month
Actual Percent Complete
Projected Percent Complete
Punch List and Closeout

EXHIBIT 04:
ASRWWTP Weekly Labor Force Summary

GHD Inc.
865 South Marine Corps Drive Suite 202 Tamuning GU 96913
T 671 472 6792 **F** 671 477 6229 **W** www.ghd.com

AGAT-SANTA RITA WWTP REPLACEMENT PROJECT
WEEKLY LABOR FORCE SUMMARY



Note: Sundays and Holidays are not Included in this Graph

EXHIBIT 05:
GHD Progress Billing April 01 Through April 30, 2018 Email

GHD Inc.
865 South Marine Corps Drive Suite 202 Tamuning GU 96913
T 671 472 6792 **F** 671 477 6229 **W** www.ghd.com

Bryan Ryley

From: Thomas Cruz <thomas@guamwaterworks.org>
Sent: Thursday, July 19, 2018 2:39 PM
To: 'Miguel C Bordallo'; Paul Baron; 'John Davis '; Bryan Ryley
Cc: Joe Heitzler; 'Kelly Clark'
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)
Attachments: MCB OH Calcs 2018JUL13.xlsx

Paul,
Attached for your review and refence is a spreadsheet that calculates what GWA accepts for invoice rates for positions that are related to the above subject. I will work with my staff to get this official via a Change Order 4A. Additionally, GWA is amenable that you not make any adjustment to the invoice that is currently with GWA given your concern that this invoice is linked to your company's last fiscal year ending. GWA will expect though that subsequent invoices will follow the rates calculated and that your invoices will not exceed contract modification approval amounts.

We can definitely discuss further if you have any question. Please be advised GWA will be close July 20th in observance of Liberation Day.

GUAM WATERWORKS AUTHORITY

Thomas Cruz, P.E.
Chief Engineer
(671) 300-6036

From: Miguel C Bordallo <mcbordallo@guamwaterworks.org>
Sent: Wednesday, July 18, 2018 5:37 PM
To: 'Paul Baron' <Paul.Baron@ghd.com>; 'John Davis ' <jdavis@guamwaterworks.org>; 'Bryan Ryley' <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'Joe Heitzler' <Joe.Heitzler@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

GWA will issue a Mod4A to clarify and address the acceptable OH&P for T&M invoices. As I understand it, Mod5 will follow and reflect the change in your rates with your new FY. Tom will be packaging this and will coordinate any issues related to your request at our last meeting.

Regards,

MCB

From: Paul Baron <Paul.Baron@ghd.com>
Sent: Wednesday, July 11, 2018 3:15 PM
To: Miguel C Bordallo <mcbordallo@guamwaterworks.org>; 'John Davis ' <jdavis@guamwaterworks.org>; Bryan Ryley

<Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Here is blended direct for the positions, note July 1 was beginning of FY and raises become effective. Coming over now.
Regards
Paul

	Rate Through 6/30/18	Rate Effective 7/1/2018
1. Project Manager	$ 72.98	$ 74.52
2. Structural/Special Inspector	$ 55.00	$ 55.66
3. Civil Inspector/Structural	$ 30.80	$ 31.47
4. Asst. Project Manager	$ 32.68	$ 33.34
5. Civil Inspector	$ 30.80	$ 31.47
6. Submittal/RFI Manager	$ 27.20	$ 28.22

From: Miguel C Bordallo <mcbordallo@guamwaterworks.org>
Sent: Wednesday, 11 July 2018 1:31 PM
To: Paul Baron <Paul.Baron@ghd.com>; 'John Davis ' <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

Please provide direct hourly labor rates for the following individuals (April Invoice):

1. Bryan Ryley
2. Jeff Groom
3. Joseph Wu
4. Steven Carbullido
5. Ramon Calilung
6. Rodolfo Miaco
7. Heidi Cervania

In the alternate, please provide a direct hourly composite rate for the following positions (Original Fee Proposal):
1. Project Manager
2. Structural/Special Inspector
3. Civil Inspector/Structural
4. Asst. Project Manager
5. Civil Inspector
6. Submittal/RFI Manager

I have reviewed the audit provided and have what I believe to be an acceptable OH rate in hand, but want to calculate the hourly rates to evaluate against positions we are being invoiced for. Trying to expedite resolution on this matter and appreciate your patience.

Regards,

MCB

From: Paul Baron <Paul.Baron@ghd.com>
Sent: Monday, July 9, 2018 5:00 PM
To: John Davis <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

I did meet with Miguel, I believe he has everything he requested from me to evaluate the issue. I believe Bryan is asking if you have everything that you requested below, which I believe you do but let us know.
Regards
Paul

From: John Davis <jdavis@guamwaterworks.org>
Sent: Monday, 9 July 2018 4:56 PM
To: Bryan Ryley <Bryan.Ryley@ghd.com>; Paul Baron <Paul.Baron@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Bryan,

My understanding was that Mr. Baron intended to make an appeal to "…Miguel and upper management" (per June 6 email.) I have not been informed of the outcome of this appeal. Please clarify.

Thank you.

GUAM WATERWORKS AUTHORITY
J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]
Sent: Monday, July 09, 2018 9:43 AM
To: John Davis <jdavis@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo'

<mcbordallo@guamwaterworks.org>
Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Mr. Davis,

Kindly advise the status for processing of Payment Application No. 31 for work completed April 01 through April 30, 2018.

Thank you,

Bryan J. Ryley
Construction Manager

GHD
T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com
865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

From: Bryan Ryley
Sent: Friday, June 29, 2018 7:02 PM
To: John Davis <jdavis@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>
Cc: "Thomas Cruz" <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised>>J DAVIS RESPONSE 29JUN18

Mr. Davis,

Please see attached.

Thank you,

Bryan J. Ryley
Construction Manager

GHD
T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com
865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

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Please consider our environment before printing this email

From: John Davis <jdavis@guamwaterworks.org>
Sent: Friday, June 29, 2018 3:22 PM
To: Bryan Ryley <Bryan.Ryley@ghd.com>; Paul Baron <Paul.Baron@ghd.com>
Cc: "Thomas Cruz" <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised>>J DAVIS RESPONSE 29JUN18

Bryan,

Unfortunately, the approval of this invoice cannot be expeditious as the supporting paperwork/invoices are scattered through about 300 pages, and are not summarized in a fashion that can be readily verified. More importantly, **the overhead and profit *per centage* on wages and expenses has not been established**.

Kindly perform the following actions so that this invoice may be processed:

- Help establish an OH&P rate that is acceptable to GWA and GHD managers;
  GHD: Attached are our various standard labor rates. Pick the column you are most comfortable with.

- Identify the invoice as No. 31 (not no. 32);
  GHD: Noted and corrected.

- Summarize the hours for each person on a single sheet;
  GHD: The requested hours worked by each staff person were provided as the 11th sheet of the previously submitted payment application. We have also provided it as a separate attachment to this email.

- Summarize the expenses by itemizing each separate expenditure on a single sheet;
  GHD: All the expenses were provided with itemized summaries in the previously submitted payment application. To assist your review we have provided a single sheet summarizing all the expense, listed each expense in the table of contents, provided reference letter for each expense correlating to the "single sheet expense summary". In addition, we have also provided it as a separate attachment to this email. Also, hard copies of same were provided in the first submittal package.

- For future invoices, indicate the number of hours each day each employee charges to a specific task;
  GHD: Sure, we can provide the same "Labor Summary per Task" as provide in the previous application and attached.

- Several expense items were paid previously by GWA and will need to be omitted.
  GHD: Kindly identify the expenses you believe have been previously invoiced and we will review.

Thank you for your cooperation.
John

GUAM WATERWORKS AUTHORITY
J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]
Sent: Friday, June 22, 2018 7:56 PM
To: John Davis <jdavis@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo'

<mcbordallo@guamwaterworks.org>
Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised

John,

Please revised April 2018 invoice for the Agat-Santa Rita WWTP Replacement Project. Thank you for your patients and support. We can meet if you would like to discuss the details. Otherwise, we look forward to your favorable and expeditious approval of this revised invoice. Please do not hesitate to contact me directly should you have any questions or concerns. Have a nice weekend.

Thank you,

Bryan J. Ryley
Construction Manager

GHD
T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com
865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

From: John Davis <jdavis@guamwaterworks.org>
Sent: Friday, June 22, 2018 6:02 PM
To: Paul Baron <Paul.Baron@ghd.com>; Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)::REJECTED

Paul, Bryan,

Has any progress been made on this issue?

Thanks,
John

From: Paul Baron [mailto:Paul.Baron@ghd.com]
Sent: Wednesday, June 06, 2018 1:26 PM
To: John Davis <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)::REJECTED
Importance: High

John,
We are appealing your decision on this to Miguel and upper management.

Bryan
Please proceed accordingly to follow up on our side with legal and contracts as well to arrange for a meeting.
Regards
Paul

From: John Davis <jdavis@guamwaterworks.org>
Sent: Wednesday, 6 June 2018 1:22 PM
To: Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)::REJECTED

Hafa Adai Bryan,
We have unfortunately overlooked agreeing upon an OH&D markup for salaries. Since this contract is now on a Time and Materials basis, an agreed mark-up *per centage* for salaries and expenses must be established. The previous markup of approx. 200% for salaries can no longer be maintained. {Note that this 200% markup for overhead and profit now accounts for over $2M in payments.} Also note that my position may be appealed to GWA's upper management.

Kindly also provide how much time that staff devotes to each SOW item. This is important to justify the need for six fulltime staff.

This issue can be included on today's monthly project meeting, or discussed at a separate meeting.

Thank you for your cooperation.
John

GUAM WATERWORKS AUTHORITY
J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]
Sent: Monday, June 04, 2018 3:20 PM
To: GWA - John Davis <jdavis@guamwaterworks.org>
Cc: 'Thomas Cruz' (thomas@guamwaterworks.org) <thomas@guamwaterworks.org>; rcarino <rcarino@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>
Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

June 4, 2018
Mr. John Davis, P.E.
Guam Waterworks Authority
Gloria B. Nelson Public Utilities Complex
Route 15, Mangilao, Guam

Re: Agat WWTP Replacement Construction Management for Agat WWTP Replacement

Project No. S14-002-BND, GHD April 2018 Invoice No. 100786

Dear Mr. Davis,

Please find attached **Invoice No. 100786** for CM Services from April 1, 2018 through April 30, 2018 in the amount of ***Two Hundred Eight Thousand Nine Hundred Fifty-Five Dollars and 15/100 ($208,955.15).*** This consists of $141,007.50 in GHD labor, $34,074.69 in expenses for April 2018, and $23,425.50 in expenses related to the additional work for the Clearing and Grading Phase authorized under MOD 04. As agreed to with GWA, work performed during this period has been performed on a time and material basis and includes, but was not limited to, the following:

> Project administration, implementation & maintenance of project controls, project correspondence, review and processing of submittals & shop drawings, payment request, conduct weekly progress meetings, review and process requests for information, general compliance monitoring, claims and disputes, maintain project records & document management, construction inspection and quality control monitoring.

We have itemized each of the SOW tasks performed by each staff member and sub consultants. As discussed with you previously, the tasks have not changed, just the duration for which our services were performed as this is driven directly by the Contractor's performance.

A hardcopy with appendices will be submitted to your office tomorrow. Please do not hesitate to contact me directly should you have any questions or concerns.

Thank you,

Bryan J. Ryley
Construction Manager

GHD
T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com
865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

Attachments: Invoice 97869, Detailed Spread Sheet, Monthly Progress Report

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A.	**GHD Audited OH**			
	1 Total Indirect Expenses		$	65,027,762
	2 Less FAR Unallowable Expenses		$	(4,565,257)
	a Salaries and Wage adjustments		$	(438,021)
	b Travel		$	(1,322)
	c Bad Debts		$	55,491
	d Marketing and Advertising		$	(277,019)
	e Entertainment		$	(142,026)
	f Professional Fees		$	(791,359)
	g Other expense adjustments		$	(261,779)
	h Tax Expenses		$	(2,199,437)
	i Interest Expense		$	(602,075)
	j Facilities capital cost of money		$	92,290
	3 Adjusted Total Indirect Expenses (1-2)		$	60,462,505
	4 Direct Expenses		$	36,155,013
	5 FAR Compliant OH (3 / 4)			167%
B.	**Profit**			10%
C.	**GRT**			4.1667%

					For Comparison - MOD 04
D.	**Invoice Rates (includes GRT) - Up to June 30th**	Direct ($/hr)		Loaded ($/hr)	
	1 Project Manager	$72.98	$	223	
	2 Structural/Special Inspector	$55.00	$	168	
	3 Civil Inspector/Structural	$30.80	$	94	
	4 Asst. Project Manager	$32.68	$	100	
	5 Civil Inspector	$30.80	$	94	
	6 Submittal/RFI Manager	$27.20	$	83	
E.	**Invoice Rates (includes GRT) - After June 30th**	Direct ($/hr)		Loaded ($/hr)	Loaded ($/hr)
	1 Project Manager	$74.52	$	228	$ 221
	2 Structural/Special Inspector	$55.66	$	170	$ 110
	3 Civil Inspector/Structural	$31.47	$	96	$ 121
	4 Asst. Project Manager	$33.34	$	102	$ 121
	5 Civil Inspector	$31.47	$	96	$ 101
	6 Submittal/RFI Manager	$28.22	$	86	$ 101

EXHIBIT 06:
GHD Project Time & Materials Rate Schedule

GHD Inc.
865 South Marine Corps Drive Suite 202 Tamuning GU 96913
T 671 472 6792 **F** 671 477 6229 **W** www.ghd.com

GHD - PROJECT TIME & MATERIALS RATE SCHEDULE

Project Name: Agat-Santa Rita Waste Water Treatment Plant Replacement
GHD Project Number: 11109000
Prepared by: Bryan J. Ryley

Attachment:
of:
Checked by: Paul K. Baron
Date:

C	D	E	F	G	H	I
Category	**Direct Hourly Rate**	**GWA Loaded ($/hr) w/o GRT (Up to June 30th)**	**GWA Loaded ($/hr) w/o GRT (After June 30th)**	**GHD US West Standard Charge Rates w/o GRT**	**Delta (E - G) (Up to June 30th)**	**Delta (F - G) (After June 30th)**
Project Manager	$72.98	$214.34	$218.87	$200.00	$14.34	$18.87
Asst. Project Manager	$32.68	$95.98	$97.92	$130.00	-$34.02	-$32.08
Structural/Special Inspector	$55.00	$161.54	$163.47	$234.00	-$72.46	-$70.53
Civil Inspector/RFI/Submittal	$30.80	$90.46	$92.43	$135.00	-$44.54	-$42.57
Civil/Special Inspector	$30.80	$90.46	$92.43	$130.00	-$39.54	-$37.57
Technical Administration	$27.20	$79.89	$82.88	$100.00	-$20.11	-$17.12

EXHIBIT 07:
MOD 07 Additional CM Service Positions, Rates, and Hours

GHD Inc.
865 South Marine Corps Drive Suite 202 Tamuning GU 96913
T 671 472 6792 **F** 671 477 6229 **W** www.ghd.com

Agat-Santa Rita Waste Water Treatment Plant Repalcemeny Project - Phase II
MOD 07 - Additional CM Services
(September 01, 2018 through April 30, 2019)

Month		Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
Working Days Per Month		20	23	22	21	23	20	21	22	43
Description/Labor Class	Rate									
		160	184	132	126	138	80	84	88	992
Project Manager	$218.87	$35,019	$40,272	$28,891	$27,578	$30,204	$17,510	$18,385	$19,261	$217,119
		160	184	176	168	184	160	168	176	1376
Assistant PM	$97.92	$15,667	$18,017	$17,234	$16,451	$18,017	$15,667	$16,451	$17,234	$134,738
		24	28	26	17	18	0	0	0	113
Structural/Sr. Special Inspector	$163.47	$3,923	$4,512	$4,316	$2,746	$3,008	$0	$0	$0	$18,505
		160	184	88	84	92	40	42	44	734
Civil Inspector, RFI & Submittal Manager	$97.92	$15,667	$18,017	$8,617	$8,225	$9,009	$3,917	$4,113	$4,308	$71,873
		160	184	176	168	184	160	168	176	1376
Civil/Special Inspector	$92.43	$14,789	$17,007	$16,268	$15,528	$17,007	$14,789	$15,528	$16,268	$127,184
		160	184	176	168	184	160	168	176	1376
Technical Administrative Support	$82.88	$13,261	$15,250	$14,587	$13,924	$15,250	$13,261	$13,924	$14,587	$114,043
TOTAL (hr)		824	948	774	731	800	600	630	660	5967
TOTAL GHD LABOR ESTIMATE		$ 98,326	$ 113,075	$ 89,912	$ 84,452	$ 92,495	$ 65,143	$ 68,400	$ 71,658	$683,462

EXHIBIT 08:
GHD Schedule of Estimated Expenses

GHD Inc.
865 South Marine Corps Drive Suite 202 Tamuning GU 96913
T 671 472 6792 **F** 671 477 6229 **W** www.ghd.com

GHD - SCHEDULE OF ESTIMATED EXPENSES

Project Name: Agat-Santa Rita Waste Water Treatment Plant Replacement
GHD Project Number: 11109000
Prepared by: Bryan J. Ryley

Attachment:
of:
Checked by: Paul K. Baron
Date:

ITEM NO.	DESCRIPTION	QUANTITIY	UNIT PRICE	AMOUNT	MARKUP	TOTAL
1.0	**SITE CONSUMABLE COST**					**$ 500.00**
1.1	Copy Express Prints					$ 100.00
1.2	Cost-U-Less					$ 100.00
1.3	Home Depot					$ 100.00
1.4	National Office Supplies					$ 100.00
1.5	Payless Supermarket					$ 100.00
2.0	**REPRODUCTION CONSUMABLE COST**					**$ 1,090.00**
2.1	DPW Monthly Special Inspection Report					$ 120.00
2.2	Monthly GWA Manager's Meeting Report					$ 200.00
2.3	ASRWWTP Weekly Progress Meetings					$ 320.00
2.4	Other					$ 450.00
3.0	**TELEPHONE & DATA CONSUMABLE COST**					**$ 446.00**
3.1	Telephone Expense					$ 286.00
3.2	Site Internet Expense					$ 160.00
4.0	**MOTOR VEHICLE CONSUMABLE COST**					**$ 4,850.00**
4.1	2015 Nissan Rogue (TO2715)					$ 2,100.00
4.2	2017 GMC Canyon (YN4682)					$ 2,300.00
4.3	GHD Joe W. POV Mileage					$ 290.00
4.4	GHD Steven C. POV Mileage					$ 160.00
5.0	**EQUIPMENT CONSUMABLE COST**					**$ 6,113.00**
5.1	**Site Camera Expense (Earthcam)**					$ 2,633.00
1	Robotic Camera Software Support & Archiving					
2	20GB monthly data					
3	Earthcam - Construction Cam Lite HD					
5.2	**Site Camera Expense (Workzone)**					$ 1,886.00
1	Work Zone Cam - 8MP Fully Hosted Service					
2	20GB monthly data					
3	Workzone - 18 Megapixel SLR Camera System					
5.3	**Kawasaki Mule 4010 trans 4x4**					$ 1,450.00
5.4	**Drone Expense**					$ 144.00
6.0	**SUBCONSULTANT COST**					**$ 15,700.00**
6.1	**LD Matson**					$ 2,700.00
6.2	**Wixon & Associates**					$ 13,000.00
7.0	**QUALITY ASSURANCE COST**					**$ 3,950.00**
7.1	**QA Survey -** Guam Surveyor, LLC					$ 2,000.00
7.2	**QA Compaction -** Geo-Engineering & Testing, Inc.					$ 750.00
7.3	**QA Concrete -** Geo-Engineering & Testing, Inc.					$ 1,200.00
				GRAND TOTAL		**$ 32,649.00**

EXHIBIT 09:
GHD Progress Billing April 01 Through April 30, 2018 Email

GHD Inc.
865 South Marine Corps Drive Suite 202 Tamuning GU 96913
T 671 472 6792 **F** 671 477 6229 **W** www.ghd.com

Bryan Ryley

From: Paul Baron
Sent: Friday, August 17, 2018 6:18 AM
To: Miguel C Bordallo; 'Kelly Clark'; 'Thomas Cruz'
Cc: 'John Davis'; Bryan Ryley; Joe Heitzler; Peggy DeZurik
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Importance: High

Miguel,
Thanks for the follow up. As you know, this is an audited rate prepared by a licensed accounting firm meeting FARS standards, which was intended to avoid issues like this but I will defer to your request.

From my perspective I thought we were giving GWA a deal but if you want us to account for it manually we will. Note, the typical field costs for consumables is closer to $11/hr, I am not sure exactly where the real costs may fall but it is quite possible that it will exceed the $4.38/hr when we track it manually.

We will follow up with the revision to document this for the expensable items along with the other expenses we are carrying (subs, QA testing etc.) that still needs to be formally documented in the mod. We have over two months of invoices that have been on hold due to this and we really need to get them processed.

Thanks and Regards
Paul

From: Miguel C Bordallo <mcbordallo@guamwaterworks.org>
Sent: Wednesday, 15 August 2018 3:49 PM
To: Paul Baron <Paul.Baron@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>; 'Thomas Cruz' <thomas@guamwaterworks.org>
Cc: 'John Davis' <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; Peggy DeZurik <Peggy.DeZurik@ghd.com>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

Based on the information provided, GHDs contention is that for each hour one of your employees works at the project site, that person is burning through $4.38 of consumables This includes "all printing, phone, fax, internet, and other consumables for GHD."

For the four positions other than the PM working full time on our project, that is about $2800/month on consumables, which represents 5% of total loaded labor costs for those 4 positions, or 14% of total direct labor costs for those 4 people.

That figure appears excessive from my perspective, especially at this stage of the project. However, GWA does not object for consumables to be billed as a T&M expenses with the proper documentation.

MCB

From: Paul Baron <Paul.Baron@ghd.com>
Sent: Monday, August 6, 2018 6:56 PM
To: Miguel C Bordallo <mcbordallo@guamwaterworks.org>; 'Kelly Clark' <koclark@guamwaterworks.org>; 'Thomas Cruz' <thomas@guamwaterworks.org>
Cc: 'John Davis' <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; Peggy DeZurik <Peggy.DeZurik@ghd.com>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Let me know if you have had a chance to look at this.
Regards
Paul

From: Paul Baron
Sent: Thursday, 2 August 2018 11:56 AM
To: 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>; 'Kelly Clark' <koclark@guamwaterworks.org>; 'Thomas Cruz' <thomas@guamwaterworks.org>
Cc: 'John Davis' <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; Peggy DeZurik <Peggy.DeZurik@ghd.com>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Miguel,
I Just got the feedback from our accounting:

1. All jobs bear the cost of the consumables, and for every hour worked (on any job) we transfer $4.38 out of overhead. If the cost recovery only accounted for projects where the consumables was paid by the client (for instance, projects where we get a higher labor rate per hour but don't invoice for consumables) the overhead rate would be higher.
2. The direct amount described in the second highlighted segment is $4.38 which is for office overhead. Thus, the standard $6 per hour includes a markup on the $4.38. Note this is for office overhead, field overhead is closer to $11 per hour but we do not have this audited yet.

Based on the above can we get the $4.38?

Let me know. I have copied Peggy Dezurick our Finance Manager who can answer any additional questions.
Regards
Paul

From: Miguel C Bordallo <mcbordallo@guamwaterworks.org>
Sent: Wednesday, 1 August 2018 11:49 AM
To: Paul Baron <Paul.Baron@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>; 'Thomas Cruz' <thomas@guamwaterworks.org>
Cc: 'John Davis' <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Questions:

The information below reads, "These costs are shown as a reduction to the indirect cost pool and are consistently charged to contracts whether or not such charges are reimbursed under the contract. Additionally the company records a reduction to the indirect cost pool based on a standard consumable rate for each direct labor hour charged to the project when allowed by the contract with the client."

1. Does the first highlighted segment mean that if GWA agrees to the hourly consumables charge, but other clients do not agree, that GWA is "subsidizing" the consumables for the other client?
2. Is the standard consumable rate described in the second highlighted segment, which is deducted from the indirect cost pool, the same as the consumable rate which is proposed to be charged to GWA?

From: Paul Baron <Paul.Baron@ghd.com>
Sent: Wednesday, August 1, 2018 11:28 AM
To: Kelly Clark <koclark@guamwaterworks.org>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>; 'Thomas Cruz' <thomas@guamwaterworks.org>
Cc: 'John Davis' <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Thanks. We will follow the 4.167% for the GRT. I have sent Miguel under separate cover our full audit with supplemental information regarding the consumable (sorry I just got a full copy of this myself). Below is an excerpt from the audit regarding our consumable charge. The consumables dollars are pulled out of our overhead (see the clip below) and transferred to direct costs. If we didn't use consumables our overhead rate would be higher. GHD has implemented a system of billing for telephone calls, photocopies, blue prints, etc. in the aggregate, on a per hour basis. Each year the total costs of phone calls, photocopies, faxes, company cars, and other project related in-house direct costs are compiled from our general ledger. The total is then divided by the number of hours worked during the same period. By dividing the total project-related direct in-house costs (ODC's) by the number of hours worked, both direct and indirect, we arrive at an average hourly cost to provide these services to our clients. Our subsequent analysis has proved this approach to be cost effective for our firm because we are not spending time logging and entering each of these individual activities – and cost effective for our clients as well. This calculation has been audited by DCAA, Cal Trans, and other government agencies, and has been approved by all.

Let me know your thoughts.

Regards

Paul

Marketing and advertising	277,019
Entertainment	142,026
Professional fees	1,994,699
Dues and subscriptions	222,625
Other expenses	909,146
Direct cost credit (Note 1)	(1,452,051)

Direct cost credit - Direct cost credit represents the charge to contracts for non-salary direct expenses including computer costs, CADD, reproduction, and equipment charges that were initially charged to the indirect cost pool. Charges are based on actual usage records times standard cost per usage. These costs are shown as a reduction to the indirect cost pool and are consistently charged to contracts whether or not such costs are reimbursed under the contract. Additionally, the Company records a reduction to the indirect cost pool based on a standard consumable rate for each direct labor hour charged to the project when allowed by the contract with the client.

From: Kelly Clark <koclark@guamwaterworks.org>
Sent: Tuesday, 31 July 2018 11:24 AM
To: 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>; 'Thomas Cruz' <thomas@guamwaterworks.org>
Cc: 'John Davis' <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

GRT applicability is prospective from the date the Gov signed the bill. Any bids opened before that date are not subject to the increase.

KC

GUAM WATERWORKS AUTHORITY

Put respetu,

Kelly O. Clark
General Counsel
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam 96913
Telephone No.: (671) 300-6853 cell: 671-480-4224
E-mail address: koclark@guamwaterworks.org

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From: Miguel C Bordallo <mcbordallo@guamwaterworks.org>
Sent: Tuesday, July 31, 2018 9:23 AM
To: 'Paul Baron' <Paul.Baron@ghd.com>; 'Thomas Cruz' <thomas@guamwaterworks.org>
Cc: 'John Davis' <jdavis@guamwaterworks.org>; 'Bryan Ryley' <Bryan.Ryley@ghd.com>; 'Joe Heitzler' <Joe.Heitzler@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

No increase in GRT is needed. My understanding is that the increase is not applicable to contracts entered into prior to the effective date of the increase. Please double-check this.

Please provide detail on how the $6/hr consumable charge was calculated prior to our agreeing to the charge.

MCB

From: Paul Baron <Paul.Baron@ghd.com>
Sent: Monday, July 30, 2018 3:33 PM

To: Thomas Cruz <thomas@guamwaterworks.org>
Cc: Miguel C Bordallo <mcbordallo@guamwaterworks.org>; John Davis <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; Kelly Clark <koclark@guamwaterworks.org>
Subject: Re: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Tom

Thanks for sending us the proposed rates. Although we were hoping for a little bit higher rates, we understand the current situation of project funding, and agree to the proposed mod. The following are a few clarifications that we would request GWA to consider:

1. We will separate out the GRT in the rates to get the "new billable rates" for invoicing in our system and then we'll add the GRT onto the total invoice amount. This won't change the net total GHD labor cost GWA proposed.

2. We should increase the GRT from 4.167% to 5.263% as it has been increased by the Government of Guam.

3. Based on our meeting with Miguel, we will also invoice for our incurred expenses (QA Services, monthly safety inspections, Site Camera's, Scheduler, Electrical Special Inspection, etc.). In addition we are requesting GWAs consideration to include the $6 per hour consumable charge for our labor which covers all printing, phone, fax, internet, and other consumables for GHD. I don't think we discussed the consumable charge with Miguel but it is part of the audit that was used to determine the rates.

Let us know if this is acceptable as we would like to proceed with preparation and submittal of our May and June 2018 invoicing.

Thank you,

Regards

Paul

On Jul 18, 2018, at 6:40 PM, Thomas Cruz <thomas@guamwaterworks.org> wrote:

> Paul,
> Attached for your review and refence is a spreadsheet that calculates what GWA accepts for invoice rates for positions that are related to the above subject. I will work with my staff to get this official via a Change Order 4A. Additionally, GWA is amenable that you not make any adjustment to the invoice that is currently with GWA given your concern that this invoice is linked to your company's last fiscal year ending. GWA will expect though that subsequent invoices will follow the rates calculated and that your invoices will not exceed contract modification approval amounts.
>
> We can definitely discuss further if you have any question. Please be advised GWA will be close July 20th in observance of Liberation Day.



Thomas Cruz, P.E.
Chief Engineer
(671) 300-6036

From: Miguel C Bordallo <mcbordallo@guamwaterworks.org>
Sent: Wednesday, July 18, 2018 5:37 PM
To: 'Paul Baron' <Paul.Baron@ghd.com>; 'John Davis ' <jdavis@guamwaterworks.org>; 'Bryan Ryley' <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'Joe Heitzler' <Joe.Heitzler@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

GWA will issue a Mod4A to clarify and address the acceptable OH&P for T&M invoices. As I understand it, Mod5 will follow and reflect the change in your rates with your new FY. Tom will be packaging this and will coordinate any issues related to your request at our last meeting.

Regards,

MCB

From: Paul Baron <Paul.Baron@ghd.com>
Sent: Wednesday, July 11, 2018 3:15 PM
To: Miguel C Bordallo <mcbordallo@guamwaterworks.org>; 'John Davis ' <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Here is blended direct for the positions, note July 1 was beginning of FY and raises become effective. Coming over now.
Regards
Paul

	Rate Through 6/30/18	Rate Effective 7/1/2018
1. Project Manager	$ 72.98	$ 74.52
2. Structural/Special Inspector	$ 55.00	$ 55.66
3. Civil Inspector/Structural	$ 30.80	$ 31.47
4. Asst. Project Manager	$ 32.68	$ 33.34
5. Civil Inspector	$ 30.80	$ 31.47
6. Submittal/RFI Manager	$ 27.20	$ 28.22

From: Miguel C Bordallo <mcbordallo@guamwaterworks.org>
Sent: Wednesday, 11 July 2018 1:31 PM
To: Paul Baron <Paul.Baron@ghd.com>; 'John Davis ' <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

Please provide direct hourly labor rates for the following individuals (April Invoice):

1. Bryan Ryley
2. Jeff Groom
3. Joseph Wu
4. Steven Carbullido
5. Ramon Calilung
6. Rodolfo Miaco
7. Heidi Cervania

In the alternate, please provide a direct hourly composite rate for the following positions (Original Fee Proposal):

1. Project Manager
2. Structural/Special Inspector
3. Civil Inspector/Structural
4. Asst. Project Manager
5. Civil Inspector
6. Submittal/RFI Manager

I have reviewed the audit provided and have what I believe to be an acceptable OH rate in hand, but want to calculate the hourly rates to evaluate against positions we are being invoiced for. Trying to expedite resolution on this matter and appreciate your patience.

Regards,

MCB

From: Paul Baron <Paul.Baron@ghd.com>
Sent: Monday, July 9, 2018 5:00 PM
To: John Davis <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

I did meet with Miguel, I believe he has everything he requested from me to evaluate the issue. I believe Bryan is asking if you have everything that you requested below, which I believe you do but let us know.
Regards
Paul

From: John Davis <jdavis@guamwaterworks.org>
Sent: Monday, 9 July 2018 4:56 PM
To: Bryan Ryley <Bryan.Ryley@ghd.com>; Paul Baron <Paul.Baron@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Bryan,

My understanding was that Mr. Baron intended to make an appeal to "…Miguel and upper management" (per June 6 email.) I have not been informed of the outcome of this appeal. Please clarify.

Thank you.

<image004.png>

J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]
Sent: Monday, July 09, 2018 9:43 AM
To: John Davis <jdavis@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Mr. Davis,

Kindly advise the status for processing of Payment Application No. 31 for work completed April 01 through April 30, 2018.

Thank you,

Bryan J. Ryley
Construction Manager

GHD
T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com
865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

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Please consider our environment before printing this email

From: Bryan Ryley
Sent: Friday, June 29, 2018 7:02 PM
To: John Davis <jdavis@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven

Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised>>J DAVIS RESPONSE 29JUN18

Mr. Davis,

Please see attached.

Thank you,

Bryan J. Ryley
Construction Manager

GHD
T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com
865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

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Please consider our environment before printing this email

From: John Davis <jdavis@guamwaterworks.org>
Sent: Friday, June 29, 2018 3:22 PM
To: Bryan Ryley <Bryan.Ryley@ghd.com>; Paul Baron <Paul.Baron@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised>>J DAVIS RESPONSE 29JUN18

Bryan,

Unfortunately, the approval of this invoice cannot be expeditious as the supporting paperwork/invoices are scattered through about 300 pages, and are not summarized in a fashion that can be readily verified. More importantly, **the overhead and profit *per centage* on wages and expenses has not been established**.

Kindly perform the following actions so that this invoice may be processed:

- Help establish an OH&P rate that is acceptable to GWA and GHD managers;
  GHD: Attached are our various standard labor rates. Pick the column you are most comfortable with.

- Identify the invoice as No. 31 (not no. 32);
  GHD: Noted and corrected.

- Summarize the hours for each person on a single sheet;
  GHD: The requested hours worked by each staff person were provided as the 11th sheet of the previously submitted payment application. We have also provided it as a separate attachment to this email.

- Summarize the expenses by itemizing each separate expenditure on a single sheet;

GHD: All the expenses were provided with itemized summaries in the previously submitted payment application. To assist your review we have provided a single sheet summarizing all the expense, listed each expense in the table of contents, provided reference letter for each expense correlating to the "single sheet expense summary". In addition, we have also provided it as a separate attachment to this email. Also, hard copies of same were provided in the first submittal package.

- For future invoices, indicate the number of hours each day each employee charges to a specific task;
  GHD: Sure, we can provide the same "Labor Summary per Task" as provide in the previous application and attached.

- Several expense items were paid previously by GWA and will need to be omitted.
  GHD: Kindly identify the expenses you believe have been previously invoiced and we will review.

Thank you for your cooperation.
John

<image004.png>

J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]
Sent: Friday, June 22, 2018 7:56 PM
To: John Davis <jdavis@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised

John,

Please revised April 2018 invoice for the Agat-Santa Rita WWTP Replacement Project. Thank you for your patients and support. We can meet if you would like to discuss the details. Otherwise, we look forward to your favorable and expeditious approval of this revised invoice. Please do not hesitate to contact me directly should you have any questions or concerns. Have a nice weekend.

Thank you,

Bryan J. Ryley
Construction Manager

GHD

T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com
865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

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Please consider our environment before printing this email

From: John Davis <jdavis@guamwaterworks.org>
Sent: Friday, June 22, 2018 6:02 PM
To: Paul Baron <Paul.Baron@ghd.com>; Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)::REJECTED

Paul, Bryan,

Has any progress been made on this issue?

Thanks,
John

From: Paul Baron [mailto:Paul.Baron@ghd.com]
Sent: Wednesday, June 06, 2018 1:26 PM
To: John Davis <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)::REJECTED
Importance: High

John,
We are appealing your decision on this to Miguel and upper management.

Bryan
Please proceed accordingly to follow up on our side with legal and contracts as well to arrange for a meeting.
Regards
Paul

From: John Davis <jdavis@guamwaterworks.org>
Sent: Wednesday, 6 June 2018 1:22 PM
To: Bryan Ryley <Bryan.Ryley@ghd.com>
Cc: ''Thomas Cruz'' <thomas@guamwaterworks.org>; 'rcarino' <rcarino@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>
Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)::REJECTED

Hafa Adai Bryan,

We have unfortunately overlooked agreeing upon an OH&D markup for salaries. Since this contract is now on a Time and Materials basis, an agreed mark-up *per centage* for salaries and expenses must be established. The previous markup of approx. 200% for salaries can no longer be maintained. {Note that this 200% markup for overhead and profit now accounts for over $2M in payments.} Also note that my position may be appealed to GWA's upper management.

Kindly also provide how much time that staff devotes to each SOW item. This is important to justify the need for six fulltime staff.

This issue can be included on today's monthly project meeting, or discussed at a separate meeting.

Thank you for your cooperation.
John

<image004.png>

J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]
Sent: Monday, June 04, 2018 3:20 PM
To: GWA - John Davis <jdavis@guamwaterworks.org>
Cc: 'Thomas Cruz' (thomas@guamwaterworks.org) <thomas@guamwaterworks.org>; rcarino <rcarino@guamwaterworks.org>; Paul Baron <Paul.Baron@ghd.com>; Steven Carbullido <Steven.Carbullido@ghd.com>; Joe Heitzler <Joe.Heitzler@ghd.com>
Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

June 4, 2018
Mr. John Davis, P.E.
Guam Waterworks Authority
Gloria B. Nelson Public Utilities Complex
Route 15, Mangilao, Guam

Re: Agat WWTP Replacement Construction Management for Agat WWTP Replacement Project No. S14-002-BND, GHD April 2018 Invoice No. 100786

Dear Mr. Davis,

Please find attached **Invoice No. 100786** for CM Services from April 1, 2018 through April 30, 2018 in the amount of ***Two Hundred Eight Thousand Nine Hundred Fifty-Five Dollars and 15/100 ($208,955.15).*** This consists of $141,007.50 in GHD labor, $34,074.69 in expenses for April 2018, and $23,425.50 in expenses related to the additional work for the Clearing and Grading Phase authorized under MOD 04. As agreed to with GWA, work performed during this period has been performed on a time and material basis and includes, but was not limited to, the following:

Project administration, implementation & maintenance of project controls, project correspondence, review and processing of submittals & shop drawings, payment request, conduct weekly progress meetings, review and process requests for information, general compliance monitoring, claims and disputes, maintain project records & document management, construction inspection and quality control monitoring.

We have itemized each of the SOW tasks performed by each staff member and sub consultants. As discussed with you previously, the tasks have not changed, just the duration for which our services were performed as this is driven directly by the Contractor's performance.

A hardcopy with appendices will be submitted to your office tomorrow. Please do not hesitate to contact me directly should you have any questions or concerns.

Thank you,

Bryan J. Ryley
Construction Manager

GHD
T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com
865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

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Attachments: Invoice 97869, Detailed Spread Sheet, Monthly Progress Report

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<MCB OH Calcs 2018JUL13.xlsx>

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EXHIBIT 10:
GHD Corporate 2018 Fee Schedule and Chargeout List for Reproduction Supplies

GHD Inc.
865 South Marine Corps Drive Suite 202 Tamuning GU 96913
T 671 472 6792 **F** 671 477 6229 **W** www.ghd.com

2018 Fee Schedule

Notes:

1) Rates are for employees of GHD companies.

2) Mileage rates are consistent with current IRS/Canada Revenue Agency rates, which is the rate at which employees are reimbursed.

3) Company owned vehicle rate is $80.00/Day plus $0.28/mile (USA) or $0.24/km (CDN).

4) Travel charges are identified under disbursements and are passed through directly as incurred, all travel via common carrier being at coach class rates.

5) Accommodation expenses are identified under disbursements and are passed through directly as incurred. Lodging costs and meal allowances for each full day depend on the area.

6) Photocopy charges are $0.10 per page.

7) Color photocopy charges are $0.25 per page.

8) Information Technology is billed at $4.50 per hour per person.

9) Specialized Computer Application is billed at $15.00 per hour.

10) Other Office and Field Supplies are charged at standardized rates and are available upon request.

11) Other project related out of office disbursements, expenses, and subcontractor costs will be invoiced with a markup of 15%.

12) Fee schedule is subject to change on January 1, 2019.

Chargeout List for Reproduction Supplies

Display Materials:

Laminates - 8 ½" x 11"	$1.50
Laminates - 11" x 17"	$2.50
Recordable Compact Disk	$2.00
Disc Labels	$1.00
Flash Drives (1GB)	$10.00

Color Photocopies:

8 ½" x 11" size/11" x 17" size on Bond	$0.30

Black & White Photocopies:

8 ½" x 11" size/11" x 17" size	$0.10/copy

Printed Plots:

24" x 36" or 36" x 48" Monochrome Laser	$0.25/sq. ft.
Line Drawings Color 24” X 36” or 36” X 48” Color	$2.00/sq. ft.
Full Graphic Color Oversize	$3.50/sq. ft.

Printing Supplies:

Cover Stock (Front & Back Set)	$0.75
Coverbind Cover Sets	$5.00
Plastic Pockets	$2.00
Binders - 1"	$7.50
Binders - 1 ½"	$8.50
Binders - 2"	$9.50
Binders - 3"	$11.50
Binders - 3 ½" and up	$14.00

Tabs:

Figures, Tables, Appendices (A, B, C, etc.), Sections (1, 2, 3, etc.)	$0.40/Tab

Digital Equipment:

Digital Camera	$10/day, $35/week, $100/month

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. 08-FY2019
Relative to Approval of Change Order to the Agat Santa Rita Wastewater Treatment Plant Replacement Design Contract

What is the project's objective and is it necessary and urgent?
The design services change order will allow for a continuity of design services during construction as it relates to any construction extension at the Agat Santa Rita WWTP Upgrades project due to contractor issues. The construction contractor, Sumitomo Mitsui Construction Company (SMCC), has submitted to GWA extension requests that will push the completion of the project to March 2019. The ending of the contractor activities would mean the design services during construction by the design engineer would end a couple of months thereafter to compile project documentation.

Where is the location?
The design services cover the new Agat Santa Rita WWTP Upgrades project in the village of Agat.

How much will it cost?
GWA management has received a fee proposal from DCA in the amount of Six Hundred Thousand Dollars ($600,000.00).

When will it be completed?
The construction contractors latest schedule shows the project completion will be by March 2019, thus the design services ending period would end a couple months thereafter.

What is the funding source?
The source of funding for the change order will be from the Bond proceeds under CIP WW 11-08 "Agat/Sta Rita STP Replacement", System Development Charge (SDC) Funds, and Internally Funded CIP Funds

The RFP/BID responses (if applicable):
Not Applicable.

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. 08-FY2019

RELATIVE TO APPROVAL OF CHANGE ORDER TO THE AGAT-SANTA RITA WASTEWATER TREATMENT PLANT REPLACEMENT DESIGN CONTRACT

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

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

WHEREAS, GWA currently has a number of critical Court Order ("CO") projects, including Agat-Santa Rita Wastewater Treatment Plant (WWTP) (U.S. Court Order No. 02-00035, Section II.A) which was recommended to require improvements that ultimately resulted in GWA designing and constructing a new WWTP; and

WHEREAS, The CCU approved via Resolution 34-FY2014 for GWA management to enter into contract with Duenas Camacho and Associates (DCA) to provide professional engineering services for design of the Agat-Santa Rita Wastewater Treatment Plant Replacement project, as well as design services during construction; and

WHEREAS, the above noted resolution approved the contract fee of Four Million Five Hundred Three Thousand Six Hundred Twenty-Three Dollars and Seventy-Four Cents ($4,503,623.74), along with a five percent (5%) contingency of Two Hundred Twenty-Five Thousand One Hundred Eighty-One Dollars and Nineteen Cents ($225,181.19) to bring the total authorized funding amount to Four Million Seven Hundred Twenty-Eight Thousand Eight Hundred Four Dollars and Ninety-Three Cents ($4,728,804.93).; and

WHEREAS, to date GWA has executed two change orders with Duenas Camacho and Associates for additional services that expended all the approved contingency fund and which is expected to be exhausted by the end of January 2018; and

WHEREAS, the CCU approved via Resolution 14-FY2018 an additional Three Hundred Ninety-Eight Thousand Six Hundred Ninety-Two Dollars and Thirty-Two Cents ($398,692.32) to retain DCA's services through July 15, 2018; and

WHEREAS, the construction work in the second phase of the project has progressed slower than anticipated, due primarily to manpower shortages, and it is now estimated that all site improvements (including non-process related construction, landscaping, etc.) will be completed in March 2019; and

WHEREAS, GWA management seeks to issue a Change Order (No. 4) to the existing contract with DCA to extend its engineering services to provide ongoing designer review of submittals and RFIs, post-design/construction issues, and to provide operator training to GWA staff; and

WHEREAS, GWA engineering has negotiated with DCA to provide continued post-design / construction services (per the original contract scope of work) through April 2019, and prepare an Operations Manual and provide operator training, on a time and material (T&M) basis in an amount not-to-exceed (NTE) Six Hundred Thousand Dollars ($600,000.00); which is acceptable to GWA management (See Exhibit A); and

WHEREAS, GWA seeks CCU approval of the Change Order to provide continued design services during construction at a cost not to exceed Six Hundred Thousand Dollars ($600,000.00) which would bring the total authorized contract value to Five Million Seven Hundred Twenty-Seven Thousand Four Hundred Ninety-Seven Dollars and Twenty-Five Cents ($5,727,497.25); and

WHEREAS, the source of funding for the change order will be from the Bond proceeds under CIP WW 11-08 "Agat/Sta Rita STP Replacement", System Development Charge (SDC) Funds, and Internally Funded CIP Funds; and

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

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the change order proposal submitted by Duenas Camacho and Associates to be fair and reasonable.
3. The CCU hereby authorizes the management of GWA to accept the change order proposal from "Duenas Camacho and Associates" attached hereto as Exhibit A, and which is incorporated into this Resolution in its entirety.
4. The CCU hereby further authorizes the management to execute the change order with Duenas Camacho and Associates, in the amount of not to exceed Six Hundred Thousand Dollars ($600,000.00) (Exhibit A).
5. The CCU hereby further approves the increase contract value of Five Million Seven Hundred Twenty-Seven Thousand Four Hundred Ninety-Seven Dollars and Twenty-Five Cents ($5,727,497.25);
6. The CCU hereby further approves the source of funding from Bond proceeds under CIP WW 11-08 "Agat/Sta Rita STP Replacement", System Development Charge (SDC) Funds, and Internally Funded CIP Funds.

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

DULY AND REGULARLY ADOPTED, this 27rd day of November, 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: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

///

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///

///

///

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

DUEÑAS · CAMACHO & ASSOCIATES, INC

EXHIBIT A

November 19, 2018

Thomas F. Cruz, P.E.
Chief Engineer
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam, 96913

Attn: John M. Davis, P.E., Senior Engineering Supervisor

Ref: **Agat-Santa Rita Wastewater Treatment Plant (WWTP) Replacement Design**

Subj: **Change Order Request #4, Contract No. S14-002-BND, Revision 1**

Dear Mr. Cruz:

Duenas, Camacho & Associates, Inc and our design team have been providing continuous post design services for the referenced project. In order for our team to provide and continue the services needed for the ongoing construction efforts and the up coming start up and commissioning of the Agat-Santa Rita WWTP Phase II construction efforts, we are requesting a change order to increase our time and materials (T&M) limit based on the following.

- Addition RFI Review. The total number of RFIs to date for the project is 612, see attachment 1. As the designer of record, our team was asked to review nearly all the submitted RFIs. Our team provided and will continue to provide responses for the RFIs.

- Additional Submittal Review. As part of the construction support, the design team has reviewed up to 786 submittals to date, see attachment 1.

- Focused Meetings. Personnel from our design team attend the weekly meetings and participate in focused weekly meetings. These meetings have resulted in improved construction and response times. Our design team recommends that these weekly meetings continue until substantial completion of the project.

Additional Time and Service Request.

It is estimated that the design team services will be needed up to and at least two months past construction completion. We estimate that this will be ten (10) months from June 2018. Based on our past T&M billings the monthly billing used is approximately $50,000. The additional not to exceed effort for our T&M post design services is $500,000.

Standard Operating Procedures

As part of our initial project scope of work we were asked to provide standard operating procedures and manuals under our post design, T&M service. In order to complete this task we request that an

November 19, 2018

additional amount of $100,000 be added to our T&M agreement. In addition to this amount, effort from the monthly services may be used as we do not expect RFI and submittal review to continue past January 2019. Effort will shift to providing a use friendly manual depicting the currently installed equipment.

The total amount requested by this change order request:

Additional Time and Services Request:	$500,000.00
Phase I Start Up Training and Support:	$100,000.00
Total:	$600,000.00

As part of this request we recommended that our post design services not to exceed amount be increased by **$600,000.00** to continue providing uninterrupted service. This not to exceed increase request will bring the design team post design services amount to $2,059,661.21. This is less than 4% of the total construction cost to date.

Our design team is available to further discuss any comments or questions GWA may have to this change order request.

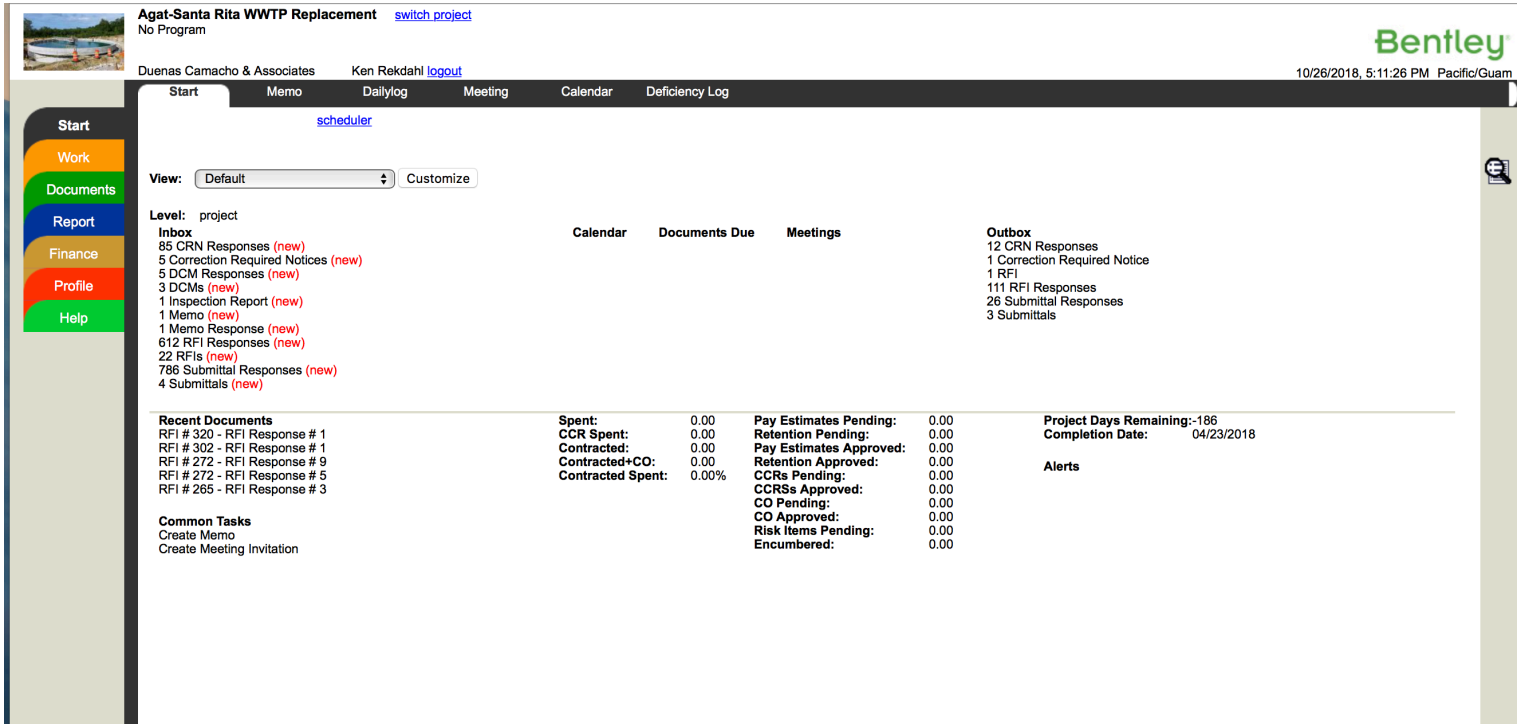
Thank you,

Kenneth M. Rekdahl, P.E.
Project Manger
Duenas, Camacho & Associates, Inc.

Attachment (1): Submittal and RFI Summary

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 / Tel: (671) 477-7991 / Fax: (671) 479-6315
SAIPAN Caller Box PPP, Suite 164, Saipan, MP 96950 / Chalan Pale Arnold, Ada's Building South Garapan, Saipan 96950 / Tel: (670) 234-9017 / Fax: (670) 234-3842

ATTACHMENT 1



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. 09-FY2019
Relative to Approval of Change Order to the Construction Management Contract for the Baza Gardens Wastewater Cross Island Pumping and Conveyance System (Phase I, II & III)

What is the project's objective and is it necessary and urgent?
The construction management change order(s) for CM services will allow for a continuity of services as it relates to any construction extension at the Baza Gardens wastewater conveyance project due to contractor issues. The construction contractor for Phase III, Sumitomo Mitsui Construction Company (SMCC), has submitted to GWA extension requests that will push the completion of the project to April 2019. GWA management is still reviewing the claims made by the Contractor and will respond accordingly.

Where is the location?
The CM services covers the Baza Gardens WWTP, new sewer conveyance system along Route 17 and Route 5 and in towards the new Agat-Santa Rita WWTP.

How much will it cost?
GWA management has received a fee proposal from SSFM in the amount of Seven Hundred One Thousand Six Hundred Five Dollars and Fifty-Nine Cents ($701,605.59), however GWA will be negotiating down this fee proposal given the level of staffing and construction activities will ramp down towards the end of the construction period. Due to the timing of approvals GWA management is still seeking CCU approval for a funding increase to a not-to-exceed amount of Three Hundred One Thousand Five Hundred Sixty-Four Dollars and Fifty-Nine Cents ($301,564.59). For clarification GWA has authorized funding for SSFM of Two Million Eight Hundred Seventy-One Thousand Dollars and Zero Cents ($2,871,000.00) and the current contract value with SSFM is Two Million Four Hundred Seventy Thousand Nine Hundred Fifty-Nine Dollars and Zero Cents ($2,470,959.00). The $301,564.59 is the additional funding authorization needed to account for the SSFM's $701,605.59 proposal.

When will it be completed?
The construction contractors latest schedule shows the project completion will be by April 2019.

What is the funding source?
Funding for any Change Order to SSFM's contract moving forward will be from any available bond funds under the line item - WW 11-03 "Baza Gardens STP Replacement", System Development Charge funds and Internally Funded CIP funds as well as Liquidated Damages of $3,000 per day from the contractor.

The RFP/BID responses (if applicable):
Not Applicable.

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

RESOLUTION NO. 09-FY2019

RELATIVE TO APPROVAL OF CHANGE ORDER TO THE CONSTRUCTION MANAGEMENT CONTRACT FOR THE BAZA GARDENS WASTEWATER CROSS-ISLAND PUMPING AND CONVEYANCE SYSTEM (PHASES I, II&III)

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

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

WHEREAS, GWA currently has a number of critical Court Order ("CO") projects including a complete evaluation of the Baza Gardens WWTP to determine what improvements are necessary at the plant to achieve compliance with the WWTP's NDPES permit, as stated in Paragraph 13 of the 2011 Court Order, as well as the completion of construction activities that were identified in the approved plan resulting from the evaluation noted above as stated in Paragraph 14 of the 2011 Court Order ; and

WHEREAS, the system evaluation report required under Paragraph 13 and completed in April of 2014 by GWA's Program Management Office (PMO), Brown and Caldwell, resulted in a recommendation to GWA and the USEPA that transferring/conveying the Baza Gardens WWTP effluent flow across the Route 17 (Cross Island Road) to a new Agat-Santa Rita WWTP site was the recommended conceptual alternative to which this recommendation was found to be acceptable by all parties; and

WHEREAS, in September of 2015 GWA began the procurement process to find a consulting engineering team to design the wastewater conveyance system and via Resolution 06-FY16, approved by the CCU in October of 2015, GWA management was authorized to enter into

a contract with Duenas Camacho and Associates to design the wastewater conveyance and pumping system which includes new Sewer Pump Station (SPS), gravity mains, force mains and all incidentals and appurtenances to these main components; and

WHEREAS, GWA executed three separate construction contracts (Phases I, II&III) with Sumitomo Mitsui Construction Company (SMCC) and BME &Sons Incorporated (BME) to construct the new Conveyance System by April 16, 2018, per CCU Resolutions 01-FY2017, 13-FY2017 and 29-FY2017); and

WHEREAS, CCU Resolution 02-FY2017 also authorized GWA to execute a contract with SSFM, Inc. (SSFM) to provide construction management services and wherein the resolution included a total authorized amount of Two Million Eight Hundred Seventy-One Thousand Dollars ($2,871,000.00); and

WHEREAS, GWA had executed the original contract with SSFM for an amount of Two Million Two Hundred Eighty-Five Thousand Two Hundred Sixty-Eight Dollars ($2,285,268.00) and Change Order #1 in the amount of One Hundred Eighty-Five Thousand Six Hundred Ninety-One Dollars ($185,691.00) for a total contract value of Two Million Four Hundred Seventy Thousand Nine Hundred Fifty-Nine Dollars ($2,470,959.00) to date; and

WHEREAS, the contractor for Phase III, SMCC, has submitted documentation to GWA management (See Exhibit A) wherein they are stating the completion of their portion of the project will not be completed until April 2019 and the reason for this delay is due to inclement weather and the shortage of construction workers; and

WHEREAS, notwithstanding the issues surrounding one of the contractor's delay and a means of allowing for continuity of construction management services as it relates to any construction extension due to contractor issues, GWA requested SSFM submit a fee proposal to continue construction management services for which SSFM provided to GWA a Seven Hundred One Thousand Six Hundred Five Dollars and Fifty-Nine Cents ($701,605.59) fee proposal (See Exhibit B) for continuation of CM services from October 2018 through April 2019; and

WHEREAS, GWA management will be negotiating down the fee proposal submitted by SSFM given the level of staffing and construction activities will ramp down towards the end of the construction period but until final negotiated fees are reached GWA management still seeks CCU approval of additional funding to execute Change Order(s) to a not-to-exceed the amount of Three Hundred One Thousand Five Hundred Sixty Four Dollars and Fifty Nine Cents ($301,564.59) for the extended contract performance period because the timing of any change order approval may not coincide with scheduled CCU meetings; and

WHEREAS, funding for any Change Order to SSFM moving forward will be from any available bond funds under the line item - WW 11-03 "Baza Gardens STP Replacement", System Development Charge funds and Internally Funded CIP funds as well as Liquidated Damages of $3,000 per day from the contractor; 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 hereby approves the funding increase for construction management services to an amount not to exceed Three Hundred One Thousand Five Hundred Sixty-Four Dollars and Fifty-Nine Cents ($301,564.59) (Exhibit B).
3. The CCU further approves the total contract value for SSFM is an amount not to exceed Three Million One Hundred Seventy-Two Thousand Five Hundred Sixty-Four Dollars and Fifty-Nine Cents ($3,172,564.59)
4. The source of funding for any Change Order to SSFM moving forward will be from any available bond funds under the line item - WW 11-03 "Baza Gardens STP Replacement", System Development Charge funds and Internally Funded CIP funds as well as Liquidated Damages of $3,000 per day from the contractor.

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

DULY AND REGULARLY ADOPTED, this 27th day of November 2018.

Certified by: Attested by:

_____ _____

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

SECRETARY'S CERTIFICATE

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

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

AYES: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

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EXHIBIT A

SUMITOMO MITSUI CONSTRUCTION CO.,LTD.
Guam Office : P. O. Box 9670 Tamuning, Guam 96931

July 14, 2018 Reference : LT-18-032

GWA ENGINEERING DIVISION
RECEIVED BY: 11:01 am
JUL 16 2018
BY:

Mr. John Davis / Project Manager
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao Guam 96913

Project : **IFB-05-ENG-2017**
Baza Gardens Wastewater Cross-Island Pumping and Conveyance System Phase III
GWA Project No. S15-008-BND

Subject : Contract Time Extension Request

Dear Mr. Davis,

This is to request project contract time extension with following reason SMCC encountered in implementation of this project. Due to rejection of H-2B Temporary Alien Skilled workers, we were unable to obtain planned numbers of manpower, which is necessary to acquire to complete the project on time.

As shown in our baseline schedule, SMCC has planned to obtain total manpower of ***11,856*** man-days (Combination of Skilled & Unskilled) for the construction duration time of 300 calendar days from June 20, 2017 to April 16, 2018 to complete the project on time.

On the other hand, due to the H2B issue, we had been facing Island wide shortage of workers from the beginning to date. As a consequence, SMCC could obtain much less work force comparing to the original plan and cumulative total manpower expected to be ***3,680*** man-days at the end of July, 2018 from October 24, 2017 when the building permit was received on.

SMCC has been trying many efforts to minimize the delays with GWA and Project team's understanding and supports, such as using flowable fill and lean concrete instead of using soil and base course to accelerate back fill works. We also shorten the stand-by time to start removal of forms after concrete casting by using higher strength concrete than specified in design.

I believe SMCC attained considerable progress and accelerated the project as achievable as possible with those efforts.

We are also expecting some improvement on workers issue and it will increase our present manpower to a projected average total of at least 900 man-days/month for the project remaining contract scope of works. For this number of manpower, the project will be completed by April 30, 2019. Please see attached for details.

July 14, 2018
Mr. John Davis / Project Manager
IFB-05-ENG-2017
Baza Gardens Wastewater Cross-Island Pumping and Conveyance System Phase III
GWA Project No. S15-008-BND
Contract Time Extension Request

We therefore request a 270 Calendar day time extension that will revise the project completion time to April 30, 2019 due to the reason of delays mentioned above that could not be avoided and is beyond the control of SMCC.

Your kind consideration to this request would highly be appreciated.

Sincerely yours,

Takeyuki Shiino
General Manager

Cc: Rizaldy Cortez / SSFM

Sumitomo Mitsui Construction Co., Ltd.

PROJECT: GWA - Baza Gardens Phase III

MONTHLY MANPOWER BREAKDOWN			Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-17	Apr-18	May-18	Jun-18	Jul-18	Total Man-days
	DESCRIPTION	AMOUNT	June 20-30, 2017	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	
1	Project Mobilization	$ 658,136.00	20	52	52	52	52	52	52					332
2	Temporary Facilities	$ 451,233.00	30	78	78	78	78	78	78	78	78	78	78	810
3	Pump Station and conveyance system lay-out	$ 79,864.00	20	52	52	52	52	52	52	52	52	52	52	540
4	Equipment extended warranty	$ 286,063.00												0
5	Temporary environmental protection	$ 110,848.00	30	78	78	78	78	78	78	78	78	78	78	810
6	Temporary traffic control	$ 261,999.00	30	78	78	78	78	78	78					498
7	Site clearing	$ 24,432.00		52							52			104
8	Site grading	$ 133,335.00				52	52					52	52	208
9	Under Ground Storage Tank Removal and Disposal	$ 58,583.00							78					78
10	Building and Site Demolition and Disposal (including removal of existing AC Pavement)	$ 182,251.00				78	78	78	78					312
11	Asbestos cement removal and pipe disposal (4 tons)	$ 29,471.00							78					78
12	Site access road and pavement	$ 313,386.00								78		78	78	234
13	Perimeter fence line and gates	$ 240,201.00						104			104	104	104	416
14	Site drainage improvements complete in place	$ 158,783.00				104	104	104			104	104	104	624
15	Headworks and pump station structure and finishings complete in place	$ 2,136,264.00		104	208	208	208	156	104					988
16	Parshall flume complete in place	$ 21,938.00						104						104
17	Rotary screen complete in place	$ 1,074,438.00						104						104
18	Grit removal system complete in place	$ 675,254.00							104					104
19	Wastewater pumps complete in place	$ 249,566.00							104					104
20	Pumpstation and headworks mechanical process piping, fittings and flow-meter installed complete in place	$ 101,478.00						104						104
21	Surge relief valve and vault complete in place	$ 22,014.00							104					104
22	Pump VFD's, controls and level sensor	$ 464,462.00							104					104

22	Pump VFD's, controls and level sensor													
23	Odor control unit	$ 96,440.00							104					104
24	Site water system complete in place	$ 112,650.00						104	104					208
25	Site process piping complete in place	$ 203,228.00						104			104	104	104	416
26	Site wastewater piping complete in place	$ 74,996.00						104	104					208
27	Force-main 1 10,481 of 10 inch PVC Pipe	$ 1,581,549.00				156	156	156	156					624
28	Force-main 1 road repair	$ 472,749.00							78	78				156
29	2-4inch PVC communication conduits and hand-hole complete in place	$ 734,510.00				130	130	130	130					520
30	New fiber optic line complete in place	$ 117,016.00							78	78				156
31	Site electrical inclusive of transformer, light poles, communication and power lines complete in place	$ 192,659.00						104			104	104	104	416
32	New standby generator building structure and finishings complete in place	$ 396,435.00					104	156	104					364
33	Standby generator installed complete in place	$ 106,320.00							78					78
34	Aboveground fuel tank complete in place	$ 62,119.00							78					78
35	Wastewater pump station and headworks start-up and testing	$ 94,136.00							78					78
36	Baza Gardens WWTP Facility Demolition	$ 196,718.00							78					78
37	Sludge removal and disposal (30 cubic yards)	$ 9,395.00							78					78
38	Equalization tank 2 complete in place	$ 2,690,986.00							104	208	208	208	104	832
39	Equalization tank 1 complete in place	$ 143,720.00								104	104	104	78	390
40	Project close-out	$ 511,267.00							78	78		78	78	312
	TOTAL	$ 15,530,892.00												
	PLAN (Man-days)		130	494	546	1066	1170	1950	2522	832	988	1144	1014	11856
	ACTUAL (Man-days)		52	104	156	234	416	456	390	520	468	468	416	3680
	NEEDED (Man-days)		78	390	390	832	754	1494	2132	312	520	676	598	8176

MANPOWER DAILY LOG: ACTUAL FROM SEPTEMBER 2017 to JULY 2018

Year 2018																																
Jan-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	TOTAL Man-days
Skilled	0	2	3	4	5	3	8	6	9	9	9	9	1	0	8	7	8	9	7	5	0	8	11	11	11	7	5	0	9	11	12	7.58	416
Unskilled	0	2	8	6	6	7	8	7	12	11	11	9	4	0	6	10	10	9	10	10	0	13	12	12	10	10	1	0	8	8	11	8.88	
Feb-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
Skilled	16	15	5	0	13	10	9	9	11	3	0	13	14	15	10	6	4	2	6	5	6	11	7	9	3	10	11	11				9.08	456
Unskilled	15	14	4	0	11	12	10	8	14	4	0	12	11	17	11	6	7	5	10	10	9	10	10	15	0	9	11	12				10.08	
Mar-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
Skilled	10	9	3	3	5	7	11	9	9	7	3	7	9	9	6	4	0	0	8	6	7	6	6	6	3	8	10	7	7	3	4	7.00	390
Unskilled	12	12	6	0	6	8	6	10	12	6	0	2	5	10	12	14	2	0	8	4	8	9	11	5	0	6	11	7	10	3	6	7.65	
Apr-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
Skilled	3	10	10	14	11	10	9	3	9	9	10	10	9	9	3	9	11	11	11	10	7	2	8	14	15	14	11	9	2	9		10.76	520
Unskilled	0	6	9	9	8	7	5	0	7	9	10	18	12	6	0	7	7	10	8	9	6	2	8	16	14	14	8	3	0	9		9.08	
May-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
Skilled	9	13	4	13	9	2	9	13	14	9	12	12	3	11	11	12	6	11	8	3	14	13	12	14	11	12	6	0	12	10		9.00	468
Unskilled	13	13	15	13	5	0	9	9	12	9	11	7	1	16	10	12	10	10	6	0	17	16	18	16	16	14	3	0	10	11		9.32	

Jun-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
Skilled	17	14	3	14	11	12	12	12	11	2	11	11	11	11	11	11	2	11	12	12	12	11	10	2	11	11	13	12	11	11		9.61	468
Unskilled	11	10	1	12	9	11	10	10	8	0	9	9	8	9	10	9	0	11	11	11	10	12	11	0	12	9	10	10	9	6		7.97	

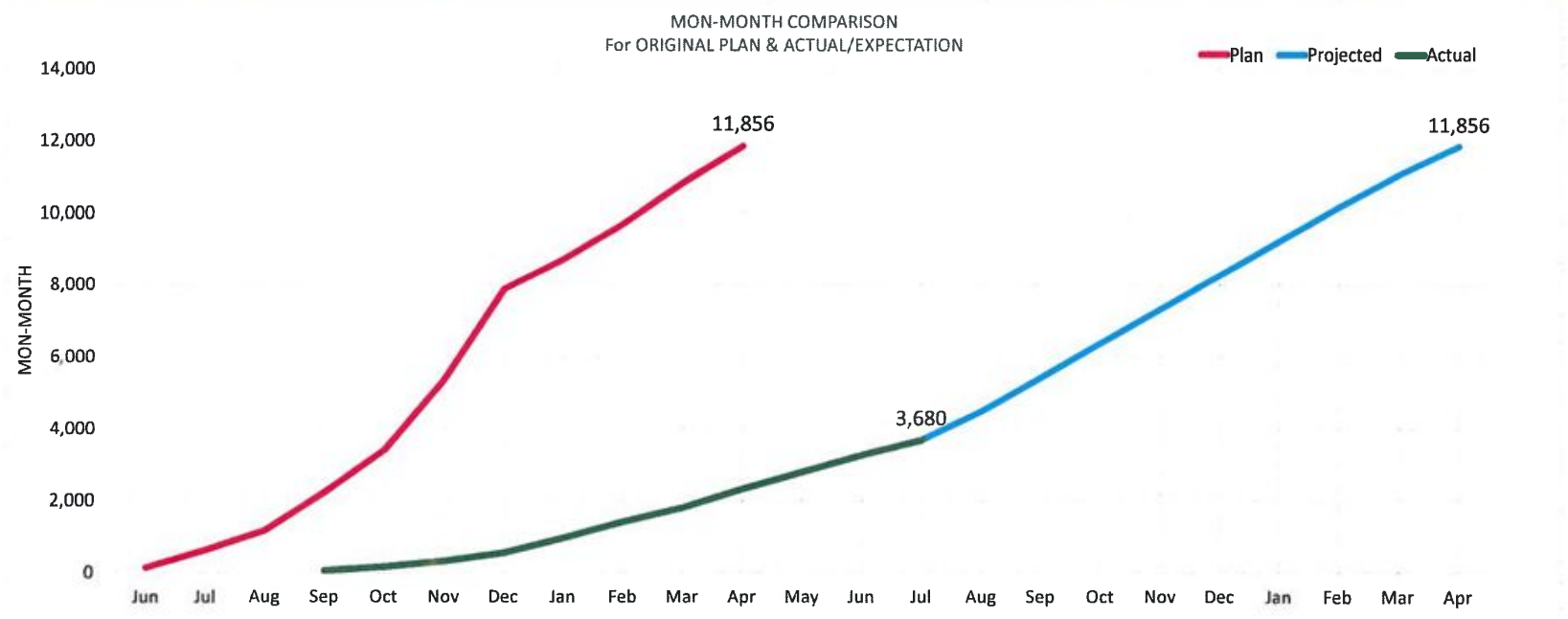
Jul-18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
Skilled	3	9	9	0	0	9	9	2	9	9	9	9	9	9	2	9	9	9	9	9	9	2	9	9	9	9	9	9	2	9	9	7.23	416
Unskilled	2	9	12	0	0	8	8	1	12	12	12	12	12	12	1	12	12	12	12	12	12	1	12	12	12	12	12	12	1	12	12	9.06	

Year 2017																																
Sep-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
Skilled	1	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	0	0	1	1	2	2	0	0	3	2	5	5	4	0		1.27	52
Unskilled	3	0	0	0	2	1	2	0	0	0	0	2	1	2	2	0	0	0	1	1	1	1	0	0	2	2	3	2	2	0		1.04	
Oct-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
Skilled	0	4	1	3	3	3	2	0	3	4	5	5	2	0	0	3	3	0	2	2	0	0	2	2	3	3	3	0	0	3	3	2.46	104
Unskilled	0	3	0	2	2	2	2	0	2	2	2	2	2	0	0	0	2	0	2	0	0	0	2	2	0	2	2	0	0	2	2	1.42	
Nov-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
Skilled	4	3	4	0	0	4	4	3	4	0	4	0	3	3	3	3	3	1	0	3	7	8	0	3	4	0	4	6	3	3		3.32	156
Unskilled	2	2	2	0	0	2	2	2	3	0	3	0	3	3	3	3	3	1	0	3	4	4	0	2	3	0	1	3	4	3		2.36	
Dec-17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
Skilled	2	1	0	2	2	2	5	5	4	1	5	5	6	6	6	3	0	4	7	9	6	3	0	0	0	2	3	3	3	2	0	3.80	234
Unskilled	3	2	0	2	4	5	7	6	1	0	7	8	7	8	8	4	0	4	9	11	11	7	2	0	0	3	5	5	5	1	0	5.28	

Total Man-days	3680

PROJECT: Baza Gardens Wastewater Cross-Island Pumping and Conveyance System Phase III
CONTRACTOR: Sumitomo Mitsui Construction Co., Ltd.

	2017							2018												2019				
Month	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Plan	130	494	546	1,066	1,170	1,950	2,522	832	988	1,144	1,014													11,856
Actual				52	104	156	234	416	456	390	520	468	468	416										3,680
Shortage				78	390	390	832	754	1,494	2,132	312	520	676	598										8,176
Projected															790	950	950	950	950	950	950	900	786	8,176



Total Needed Mandays to Complete = Total Plan minus Total Actual
= 11856 - 3,680
= 8176 Mandays needed to complete the project
= 1077.82 Average man-days/month based on original plan
Required months to complete the project = 9.08 Months (Considering SMCC could provide an average of 900 man-days/month)

Doc. No. 34GL-18-2611.*
CCU Regular Meeting November 27, 2018 - GWA

EXHIBIT B

BAZA GARDENS WASTEWATER
CROSS ISLAND PUMPING AND CONVEYANCE SYSTEM
PROJECT NO. S15-008-BND

CO #2: CM EXTENSION OCTOBER 2018 TO APRIL 2019 (7 MONTHS)

STAFFING	Old Rate	Add 1% New GRT	UNIT	MONTHLY MANHOURS	October	November	December	January	February	March	April	Total
Principal	$ 215.00	$ 217.15	HOUR	10	$ 2,171.50	$ 2,171.50	$ 2,171.50	$ 2,171.50	$ 2,171.50	$ 2,171.50	$ 2,171.50	$ 15,200.50
Project Manager	215.00	217.15	HOUR	152	33,006.80	33,006.80	33,006.80	33,006.80	33,006.80	33,006.80	33,006.80	231,047.60
Resident Engineer	178.00	179.78	HOUR	184	33,079.52	33,079.52	33,079.52	33,079.52	33,079.52	33,079.52	33,079.52	231,556.64
Project Inspector	99.00	99.99	HOUR	253	25,297.47	25,297.47	25,297.47	25,297.47	25,297.47	25,297.47	25,297.47	177,082.29
Document Clerk	59.00	59.59	HOUR	112	6,674.08	6,674.08	6,674.08	6,674.08	6,674.08	6,674.08	6,674.08	46,718.56
Total					**$ 100,229.37**	**$ 100,229.37**	**$ 100,229.37**	**$ 100,229.37**	**$ 100,229.37**	**$ 100,229.37**	**$ 100,229.37**	**$ 701,605.59**

Note :
Rates :1% added to old rate due to new 5% GRT effective on Oct 01, 2018

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

GPA RESOLUTION NO. 2018-31
GWA RESOLUTION NO. 10-FY2019

RELATIVE TO THE RATIFICATION OF NOVEMBER 23, 2018 AS A HOLIDAY FOR THE GUAM POWER AUTHORITY AND THE GUAM WATERWORKS AUTHORITY

WHEREAS, the Consolidated Commission on Utilities (CCU) is the governing body for the Guam Power Authority and the Guam Waterworks Authority; and

WHEREAS, the Guam Power Authority and the Guam Waterworks Authority are public corporations of the government of Guam; and

WHEREAS, the Guam Power Authority and the Guam Waterworks Authority continue to work diligently to provide essential power and water services to the island and a day off is well deserved by the hard working employees to contribute to the island economy; and

WHEREAS, the Office of the Governor has issued and executive order declaring Friday, November 23, 2018 a holiday for the government of Guam; and

WHEREAS, the General Managers of the Guam Power Authority and Guam Waterworks Authority adopted the Governor's executive order declaring the holiday; and

WHEREAS, the Guam Power Authority and the Guam Waterworks Authority now wishes to solicit ratification authorization from the CCU for GWA and GPA for adopting the executive order from the Office of the Governor; and

NOW, THEREFORE BE IT RESOLVED BY THE CCU, **AS THE GOVERNING BODY OF THE GUAM POWER AUTHORITY AND THE GUAM WATERWORKS AUTHORITY, AS FOLLOWS:**

1. November 23, 2018 was properly adopted as a holiday for the Guam Power Authority and the Guam Waterworks Authority, with limited staffing for customer payments, customer service and engineering

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 27th day of NOVEMBER 2018.

Certified by:

_____

JOSEPH T. DUENAS
Chairperson
Consolidated Commission on Utilities

Attested by:

_____

J. GEORGE BAMBA
Secretary
Consolidated Commission on Utilities

I, J. George Bamba, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of 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: _____